



MEMORANDUM

Northern Integrated Supply Project Glade Reservoir Larimer County 1041 - Utility Descriptions B&V Project Number 403758 B&V File 188754/34.3000 February 14, 2020

To: Larimer County Planning Department

From: Tim Engemoen and Mike Johnson, Black & Veatch

Introduction

This technical memorandum is written in support of Larimer County Planning Department's 1041 Permit for the Glade Unit construction and documents the existing and proposed utilities associated with the construction of the Glade Unit.

Project Background

The Northern Integrated Supply Project (NISP) will provide a new raw water supply to several municipal water providers in Northern Colorado. NISP includes the following facilities located in Larimer County: the Glade Unit; the Glade Pump Station; raw water distribution piping; and the relocation of U.S. Highway 287. The Glade Unit features the Glade Reservoir Dam, which is an earthen embankment that will impound an off-channel reservoir complete with the hydraulic structures required by the State Engineer's Office: the High Level Outlet Works (HLOW); Low Level Outlet Works (LLOW); and spillway. Glade Reservoir Dam is located just to the north of the junction of U.S Highway 287 and State Highway 14, about 10 miles northwest of Fort Collins. The Glade Unit includes an expansion of the existing Poudre Valley Canal (PVC) and a new forebay constructed downstream of the dam at an elevation that will allow delivery of water from the PVC by gravity. A Control Gate Structure will be constructed to control flow to the existing portion of the PVC downstream of the forebay. The existing PVC Diversion Structure will be demolished and rebuilt to allow increased diversion of flow from the Poudre River. A portion of the existing Munroe Gravity Canal alignment will be inundated by Glade Reservoir, this open canal will be replaced by the Munroe Canal Bypass (MCB), a conduit and several control structures that will convey flow beneath the reservoir. The Glade Unit also includes: the Glade Pump Station, which will pump water from the forebay into Glade Reservoir; the Electrical/Control building that will distribute power throughout the site and provide control of the various hydraulic features; the Surge Building that will house surge tanks to protect the pump station discharge conduit; and numerous buried conduits with control valve vaults that connect these facilities. Raw water will be conveyed off site via several buried conduits that are being constructed under different NISP contracts. The Glade Unit will include recreational amenities for the general public, including a Visitor Center, campgrounds, a boat ramp, trails and restroom facilities.

Glade Reservoir will submerge a portion of the existing U.S. Highway 287 alignment which will be relocated to the east of the reservoir. An existing power transmission line and several power

B&V Project Number 403758 B&V File 188754/34.3000 February 14, 2020

distribution lines will be inundated by the reservoir which will be relocated as part of the Glade Unit construction. A general location map of the Glade Unit facilities is presented on Figure 1.

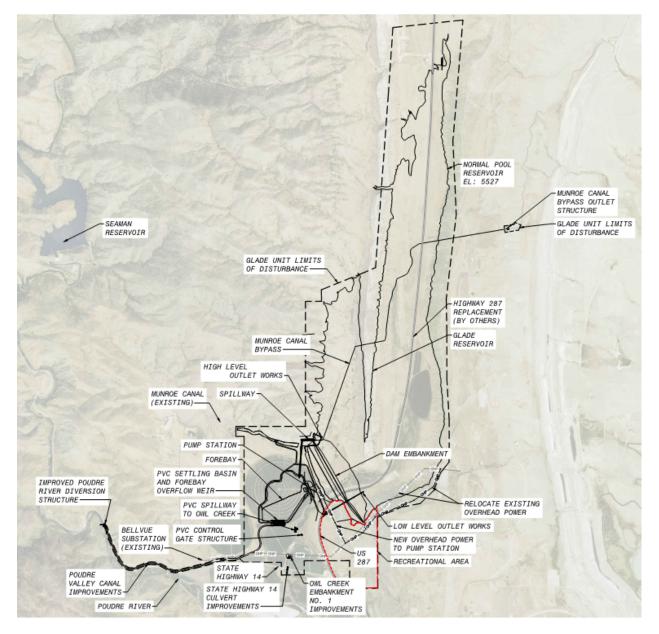


Figure 1 - Glade Unit Overview

The NISP Water Activity Enterprise (NISP Enterprise or Enterprise) assumes financial responsibility for construction of all infrastructure required for the project. The Enterprise is a permanent entity with access to adequate funds to cover project construction and maintenance. The Enterprise's budget will include routine and capital maintenance funds. Northern Water's past performance under other USACE permits demonstrates its commitment to assure that projects will be fully implemented and maintained by the Enterprise.



B&V Project Number 403758 B&V File 188754/34.3000 February 14, 2020

Existing Site Utilities

There are existing utilities located at the project site including electrical, communications, and water utilities. The water utilities include potable water lines in Highway 14 near the future dam embankment footprint and several irrigation lines that are connected to the Munroe Canal flowing through the project site delivering raw water to agricultural fields in the area. There is a group of electrical and communications utilities that run south to north, moving through the dam foundation area and up to the West Valley. These utilities are shown to feed power and communications to communities near Bellvue, Colorado. Additionally, there is a major fiber utility running along the side of U.S. Highway 287. Field surveying will be completed during detailed design to accurately locate each of these facilities, but that work has not yet been completed. All existing utilities impacted by Glade Unit infrastructure will be relocated with no permanent reduction to the types and amounts of service provided.

New Site Utilities

The Glade Unit will include numerous facilities that require utility services. including the Pump Station, Electrical/Control Building, Surge Building, HLOW Control House, LLOW gate chamber, MCB structures/vaults (inlet structure, outlet structure, transfer valve vault), Poudre River Diversion Structure, Forebay Inlet/Outlet Structure, PVC Delivery Structure, various site utility vaults that house raw water valves and meters, and the recreational facilities.

The new utilities required during and after completion of construction include electrical, communications, potable water, and sanitary facilities. The following sections describe the main utilities that will be provided. Detailed site plans depicting the locations and routing of all the new utilities will be developed as the design of these facilities progresses.

Potable Water

Potable water will be supplied to facilities that are planned to be accessible to the public or are regularly accessed by the staff who will maintain the Glade Unit. These facilities include the Pump Station, Electrical/Control Building and Surge Building that will be regularly accessed by staff maintaining the facility. Public access to facilities is described in the memo on recreational facilities, and is planned to include a Visitor's Center, campgrounds, and shower facilities. It is possible that other facilities will require potable water as well, but exact details have not yet been finalized and will be done so in detailed design. Potable water will be provided from the West Fort Collins Water District, which currently supplies four individual taps for different existing facilities that will be abandoned as part of this construction. Those taps will be consolidated into two separate taps, one for maintenance facilities and the other for recreational facilities. The static water pressure in this vicinity at the KOA campground is typically between 40 and 45 pounds per square inch (psi). That pressure should be adequate to serve those facilities which are located on the valley floor below the dam. Those facilities located above the valley floor at or near the elevation of the reservoir will be served with an on-site booster pumping system that will increase the water pressure to serve these higher elevations. All potable water systems will be installed in accordance with Colorado Department of Public Health and Environment (CDPHE) design criteria.



Raw Water

The purpose of the Glade Unit is to provide a raw water supply for the municipal water suppliers who are participants in the project. Therefore, the raw water system comprises the majority of the utilities on the site. Figure 2 is a schematic of the proposed raw water infrastructure at the Glade Unit. Under normal operating conditions, the system will function as follows:

- Raw water is diverted from the Poudre River via the Diversion Structure and routed to the forebay inlet via the enlarged portion of the PVC. Flow that is required to continue past the Glade Unit in the PVC is metered and controlled after the forebay.
- Raw water is pumped from the forebay into Glade Reservoir via the Low Level Outlet Works.
- Raw water is withdrawn from Glade Reservoir via the High Level Outlet Works.
- Raw water is distributed to the NISP participants directly and delivered back to the Poudre River for participant use via two separate raw water conduits.

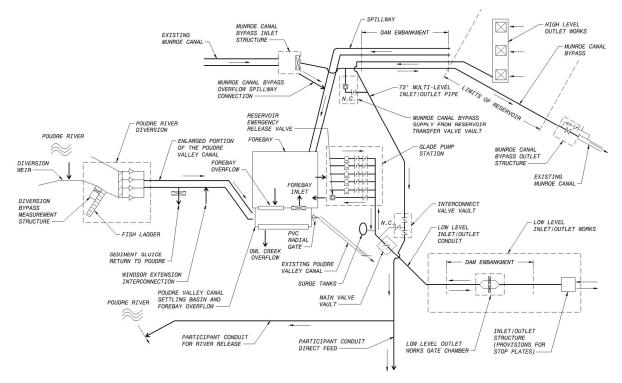


Figure 2 - Glade Unit Raw Water Schematic

That portion of the existing Munroe Gravity Canal that will be inundated by the reservoir is also shown schematically in Figure 2. This is also a raw water conveyance system but will generally be operated independently of the Glade Unit and continue to flow by gravity.



This system is also designed to accommodate a wide variety of flows within the raw water system that are not normal operation but might be necessary during rain events or abnormal operations at the Glade Unit. These include:

- Wasteway for the PVC. In the event that the Pump Station trips off-line while the PVC is running at capacity, there is an Owl Creek Overflow that will allow this flow to be routed back to the Poudre River under Highway 14.
- Reservoir Emergency Release. In the event that the level in Glade Reservoir has to be lowered for any reason, the Low Level Outlet Works can be used to release flow to the Forebay. If the forebay is full, there is a Forebay Overflow that directs excess flow to the Owl Creek Overflow and then the Poudre River.
- Glade Spillway Activation. If the drainage area upstream of Glade Reservoir experiences a significant storm event that causes the reservoir level to rise above the spillway crest, the spillway will activate and discharge into the Forebay. The Forebay Overflow will activate once the Forebay is full and discharge this flow into Owl Creek via the Owl Creek Overflow.

Sanitary Sewer

The NISP Participants are actively seeking to acquire the existing KOA Campground at the U.S. Highway 287 and State Highway 14 intersection for incorporation into the Recreation Concept Master Plan. There is an existing On-site Wastewater Treatment System (OWTS) consisting of a septic tank and leach field that serves the existing KOA Campground. This existing installation will be utilized for a possible semi-permanent construction camp that could be in place for the five-year period of construction on this site. After construction is complete, this existing facility will be utilized to serve a portion of the recreational facilities that will be located onsite. Additional septic tanks and leach fields will be installed to serve those facilities that have sanitary systems, with one system to serve the Pump Station, Electrical/Control Building and Surge Building and another system(s) to serve the Visitor Center and recreational facilities located at the elevation of the reservoir.

Electric

The largest power draw from the new facilities associated with this project will be for the pump station which will require an approximate 40 mega-volt ampere (MVA) power supply. The pump station is located within Xcel Energy's service area and they currently plan to serve the pump station and associated facilities. Currently, Xcel does not have any transmission assets that are located near the pump station, so they will likely submit an interconnection request to Tri-State Generation and Transmission (G&T) to allow Xcel to tap an existing Tri-State G&T 115 kV transmission line to provide service to the pump station.

A substation will be required at the pump station to reduce the power supply voltage from transmission voltage (likely 115 kV) to medium voltage (15 kV).



The existing Tri-State G&T 115 kV transmission line near the proposed dam's left abutment will need to be relocated to avoid the dam and reservoir inundation area.

In addition to the new pump station, this project includes the expansion of existing facilities (Munroe Canal Outlet, Poudre Valley Diversion Structure, and Owl Creek) and construction of new facilities which will require improvements to the current electrical service to accommodate new process mechanical loads.

Power distribution across the project site will be conducted with the utilization of distribution transformers, switchboards, motor control centers (MCCs), and panelboards as determined during detailed design. In addition, we anticipate utilization of existing services for the previously established facilities at the Munroe Canal Outlet, Poudre River Diversion Structure, and improvements along Owl Creek. The extent of the utilization or improvement of service and distribution will be determined during detailed design. It is anticipated that some of the ancillary structures including proposed recreation facilities will require separate, distribution level power supplies separately metered from the local utility. All power distribution will follow the National Electric Code (NEC).

Communications

It is anticipated that radio links will be used for most of the communication between the different structures associated with the Glade Unit and for communication back to Northern Water's operation center. It is possible that some control cable or fiber will be installed at the recreation area and between other select structures if radio communication will not be possible. These details will be finalized during detailed design.

Fire Protection

The local fire protection district is the Poudre Fire Authority. The nearest station is Station 7 located at 2817 N. Overland Trail in Laporte, which is approximately 4 miles southeast of the Glade recreational facilities.

The Livermore Fire Protection District (LFPD) also provides service to the northern portion of Glade Reservoir. The nearest station is Station 1 located at 311 W CR 74E in Livermore, which is approximately 4 miles north of the northern tip of Glade Reservoir. NISP staff have met with LFPD staff to discuss the project. As part of those conservations, NISP has committed to providing a water storage tank (up to 10,000 gallons in size) at a location determined by the LFPD for their use in staging water for fire-fighting purposes. This tank will be provided by the start of construction to increase LFPD's fire-fighting and emergency-response capabilities. LFPD staff also indicated that Glade Reservoir will provide a strategic water source for future aerial firefighting efforts.

Road Infrastructure

The Glade Unit recreational facilities will be accessed by the existing U.S. Highway 287, just north of Ted's Place. U.S. Highway 287 is being relocated to the east as part of the Glade Unit construction beginning near the intersection with West County Road 56. It is anticipated that the existing U.S.



Northern Integrated Supply Project Glade Reservoir Larimer County 1041 - Utility Descriptions B&V Project Number 403758 B&V File 188754/34.3000 February 14, 2020

Highway 287 north of this realignment point will be classified as State Highway 14 as this portion of the roadway will still provide access to State Highway 14 and will continue north of Ted's Place to provide access to the Glade recreational facilities. The classification of the portion of the road north of the intersection with the State Highway 14 is still to be determined. New paved roads will be constructed within the footprint of the recreational area to provide access to the camp grounds and other recreational facilities and it is anticipated those will be private roads.

Conclusion

The construction of the Glade Unit will require the relocation of some existing utilities and the installation of several new utilities that will be installed at different structures throughout the Glade Unit. Detailed site plans depicting the utilities will be completed during detailed design but have not yet been developed.





To:FileFrom:Carl Brouwer, Christie Coleman, Stephanie Cecil – Northern WaterDate:April 23, 2019Subject:Northern Integrated Supply Project – Public Engagement History

The purpose of this memorandum is to document the public engagement history of the Northern Integrated Supply Project (NISP) through the NEPA process, Mitigation and Enhancement Plan development, other permitting procedures, and public events.

NEPA Process

Northern Water and/or the NISP Enterprise has applied to the U.S. Army Corps of Engineers (Corps) for a Clean Water Act Section 404 permit to build the proposed NISP. NISP is currently undergoing National Environmental Policy Act (NEPA) compliance and is the subject of federal and state permitting reviews. The NISP has been pursuing NEPA compliance since 2004. Larimer County has reviewed and commented on NEPA process deliverables while serving as a cooperating agency on the NISP since 2004.

Public Engagement History

Throughout the NISP history, public meetings and opportunities to solicit input on the project have been held. The following is a list of public engagement and involvement for the NISP to date.

Year	Month	Date(s)	Outreach Lead	Outreach Type	Description
2004	9	20-24	USACE	NISP Public Scoping	Description of alternatives
				Meeting	and receipt of public
					comments on EIS scope
2008	5	5	Larimer County	County Commissioners	Discussion on NISP
				Meeting	
2008	7	9	Larimer County	County Commissioners	Discussion on NISP
				Meeting	
2008	5	13	Larimer County	Parks Advisory Board	Discussion on NISP
2008	5	14	Larimer County	Agricultural Advisory	Discussion on NISP
				Board	
2008	5	22	Larimer County	Open Land Board Meeting	Discussion on NISP
2008		4/30 to	USACE	NISP Draft EIS Public	Receipt of public written
		9/13		Comment Period	comments on Draft EIS

	352
Description	
Receipt of oral and	
written public comments	
on Draft EIS	
Receipt of oral and	
written public comments	
on Draft EIS	

					•
2008	6	17	USACE	NISP Draft EIS Public Hearing	Receipt of oral and written public comments
					on Draft EIS
2008	6	19	USACE	NISP Draft EIS Public	Receipt of oral and
				Hearing	written public comments
					on Draft EIS
2009	4	9	Larimer County	County Commissioners	Discussion on NISP
				Meeting	
2009	4	17	Northern Water	Fort Collins Chamber of	Presentation on NISP
	_			Commerce Meeting	
2009	6	24	Northern Water	East Slope Tour	Public tour of,
					presentation of, and
2000		10			discussion on NISP
2009	8	12	Northern Water	East Slope Tour	Public tour of,
					presentation of, and
2009	11	3	Northern Water	Fall Water Licers Meeting	discussion on NISP Presentation on NISP
	4	5 7	Northern Water	Fall Water Users Meeting	Presentation on NISP
2010	4	/	Northern Water	Spring Water Users Meeting	Presentation on MSP
2010	8	19	Northern Water	East Slope Tour	Public tour of,
2010	0	19			presentation of, and
					discussion on NISP
2010	9	15	Northern Water	East Slope Tour	Public tour of,
					presentation of, and
					discussion on NISP
2011	3	4	Northern Water	Fort Collins Chamber	Presentation on NISP
				Legislative Affairs	
				Committee Meeting	
2011	4	7	Northern Water	Spring Water Users	Presentation on NISP
				Meeting	
2011	6	20	Larimer County	Agricultural Advisory	Discussion on NISP
				Board	
2011	6	28	Northern Water	East Slope Tour	Public tour of,
					presentation of, and
					discussion on NISP
2011	8	2	Northern Water	Fort Collins Golden	Presentation on NISP
				Kiwanis Club Meeting	
2011	9	21	Northern Water	East Slope Tour	Public tour of,
					presentation of, and
				-	discussion on NISP
2011	11	9	Northern Water	Fall Water Users Meeting	Presentation on NISP

Outreach Type

Year

Month Date(s)

Outreach Lead

Year	Month	Date(s)	Outreach Lead	Outreach Type	Description	
2013	3	14	Northern Water	Fort Collins Morning	Presentation on NISP	
				Rotary Club Presentation	Description of NICD	
2013	4	11	Northern Water	Spring Water Users	Presentation on NISP	
				Meeting		
2013	9	25	Northern Water	Fort Collins Staff Tour	Tour of, presentation of,	
					and discussion on NISP	
2014	6	16	Northern Water	East Slope Tour	Tour of, presentation of,	
					and discussion on NISP	
2014	7	24	Northern Water	Fort Collins Staff Tour	Tour of, presentation of,	
					and discussion on NISP	
2014	9	10	Northern Water	East Slope Tour	Tour of, presentation of,	
					and discussion on NISP	
2014	9	26	Northern Water	Fort Collins Staff Tour	Tour of, presentation of,	
					and discussion on NISP	
2014	10	31	Northern Water	Greeley Kiwanis Club	Presentation and	
				Presentation	discussion on NISP	
2014	12	2	Northern Water	CU American West Class	Presentation and	
				Presentation	discussion on NISP	
2015	6	5	Northern Water	East Slope Tour	Tour of, presentation of,	
					and discussion on NISP	
2015		6/19 to	USACE	NISP Supplemental Draft	Receipt of written public	
		9/3		EIS Public Comment	comments on	
				Period	Supplemental Draft EIS	
2015	7	22	USACE	NISP Supplemental Draft	Receipt of oral and	
				EIS Public Hearings	written public comments	
					on Supplemental Draft EIS	
2016	4	12	Northern Water	Spring Water Users	Presentation and	
				Meeting	discussion on NISP	
2016	5	25	Northern Water	East Slope Tour	Tour of, presentation of,	
					and discussion on NISP	
2016	8	18	Northern Water	East Slope Tour	Tour of, presentation of,	
					and discussion on NISP	
2016	11	9	Northern Water	Fall Water Users Meeting	Presentation and	
					discussion on NISP	
2017	3	28	Northern Water	Leadership Northern	Presentation and	
				Colorado Meeting	discussion on NISP	
2017	4	11	Northern Water	Leadership Loveland	Presentation and	
				Meeting	discussion on NISP	
2017	4	11	Northern Water	Spring Water Users	Presentation and	
				Meeting	discussion on NISP	

Year	Month	Date(s)	Outreach Lead	Outreach Type	Description	
2017	4	18	Northern Water	Larimer County Environmental and Science Advisory Board Meeting	Presentation and discussion on NISP	
2017	4	27	Northern Water	Greeley Kiwanis Club Presentation	Presentation and discussion on NISP	
2017	5	4 and 5	CPW	Commission Meeting	CPW staff presentation and acceptance of Public Comment on the NISP Fish and Wildlife Mitigation and Enhancement Plan	
2017	5	11	Northern Water	ASCE Northern Colorado Branch Meeting	Presentation and discussion on NISP	
2017	5	13	Northern Water	Livermore Women's Club	Presentation and discussion on NISP	
2017	5	22	Northern Water	Larimer County Republican Breakfast Club	Presentation and discussion on NISP	
2017	5	23	Northern Water	Longmont Rotary Club Meeting	Presentation and discussion on NISP	
2017	6	6	Northern Water	North American Title Company Water 101 Class	Presentation and discussion on NISP	
2017	6	8 and 9	CPW	Commission Meeting	Northern Water presentation of Fish and Wildlife Mitigation and Enhancement Plan Applicant Proposal to Commission	
2017	6	9	Northern Water	Fish and Wildlife Mitigation and Enhancement Plan Release	Public release of applicant proposal to public via Northern Water/NISP website	
2017	6	13	Northern Water	East Slope Tour	Tour of, presentation of, and discussion on NISP	
2017	6	20	Northern Water	Windermere Real Estate Meeting	Presentation and discussion on NISP	
2017	6	27	Northern Water	Fish and Wildlife Mitigation and Enhancement Plan Open House	Northern Water presentation of FWMEP Applicant Proposal to the public and receipt of comments in open house- style format	

Year	Month	Date(s)	Outreach Lead	Outreach Type	Description
2017	6	29	Northern Water	Larimer County Pipelines Open House	Present information on possible NISP pipeline alignments and receipt of public comments in an open house-style format
2017	6	30	Northern Water	School of Mines Teacher Program Tour	Presentation and discussion on NISP
2017	7	11	Northern Water	Northern Colorado Geologic Group	Presentation and discussion on NISP
2017	7	23	Northern Water	Institute for Journalism and Natural Resources Tour	Tour of, presentation of, and discussion on NISP
2017	8	10 and 11	CPW	Commission Meeting	CPW staff comment to Commission on Fish and Wildlife Mitigation and Enhancement Plan Applicant Proposal
2017	8	22	Northern Water	Draft Final Fish and Wildlife Mitigation and Enhancement Plan Release	Release of applicant proposal to public via Northern Water/NISP website
2017	8	30	Northern Water	City of Fort Collins Staff Meeting	Presentation and discussion on NISP
2017	9	6	Northern Water	East Slope Tour	Tour of, presentation of, and discussion on NISP
2017	9	7 and 8	CPW	Commission Meeting	Public hearing and approval of Fish and Wildlife Mitigation and Enhancement Plan
2017	9	19, 20, 21	CWCB	Board Meeting	Northern Water presentation of Draft Final Fish and Wildlife Mitigation and Enhancement Plan to Board and Board approval of plan
2017	9	28	Northern Water	Colorado Water Officials Organization Meeting	Presentation and discussion on NISP
2017	10	10	Northern Water	Final Fish and Wildlife Mitigation and Enhancement Plan Release	Release of plan to public

Year	Month	Date(s)	Outreach Lead	Outreach Type	Description
2017	10	16	Northern Water	CSU Public Relations in	Presentation and
				Natural Resources Class	discussion on NISP
				Presentation	
2017	10	17	Northern Water	CSU Integrated Ecosystem	Presentation and
				Management Class	discussion on NISP
				Presentation	
2017	10	18	Northern Water	CSU Students Human	Presentation and
				Dimensions Class	discussion on NISP
2017	10	23	Northern Water	CSU Sustainability Class	Presentation and
				Presentation	discussion on NISP
2017	11	6	Northern Water	South Platte Valley	Presentation and
				Historical Society Meeting	discussion on NISP
2017	11	7	Northern Water	School of Mines Water	Presentation and
				Policy Class Presentation	discussion on NISP
2017	11	15	Northern Water	Fall Water Users Meeting	Presentation and
					discussion on NISP
2017	11	21	Northern Water	Loveland Fishing Club	Presentation and
				Meeting	discussion on NISP
2017	12	14	Northern Water	Water Leaders of	Presentation and
				Northern Colorado	discussion on NISP
				Meeting	
2018	1	23, 24	Northern Water	Colorado Farm Show	Colorado Farm Show,
				Booth	Greeley, open to the
					public
2018	2	3	Northern Water	Waverly Community	Presentation and
				Group Meeting	discussion on NISP
2018	2	13	Northern Water	North American Title	Presentation and
				Company Meeting	discussion on NISP
2018	3	2	Northern Water	Larimer County	Presentation and
				Conservation Corps	discussion on NISP
				Meeting	
2018	3	28	Northern Water	CSU NR400 Class	Presentation and
				Presentation	discussion on NISP
2018	4	3	Northern Water	Regional Rafting Company	Meeting with raft
				invitational meeting	company operators to talk
					about progress on the
					project and to answer
					questions.
2018	4	17	Northern Water	Keller Williams Employee	Presentation and
				Meeting	discussion on NISP

Year	Month	Date(s)	Outreach Lead	Outreach Type	Description	
2018	4	18	Northern Water	Spring Water Users	Presentation and	
				Meeting	discussion on NISP	
2018	5	9	Northern Water	Northern Colorado	Presentation and	
				Realtors Tour	discussion on NISP	
2018	5	10	Northern Water	Water Literate Leadership	Presentation and	
				Class Presentation	discussion on NISP	
2018	5	21	Northern Water	Friends of Water Works	Presentation and	
				Board Meeting	discussion on NISP	
2018	6	6	Firestone	Board of Trustees Meeting	Presentation and	
					discussion on NISP	
2018		6/20 to	USACE	Final EIS comment Period	Receipt of public written	
		10/4			comments on the Final EIS	
2018	6	28	Northern Water	East Slope Tour	Tour of, presentation of,	
					and discussion on NISP	
2018	6	18	Northern Water	Western Area Power	Employee tour and	
				Administration Meeting	discussion on NISP	
2018	6	19	Northern Water	National Association for	NISP workshop and tour	
				Ag Educations Meeting		
2018	7	23	Town of Windsor	Town Board Meeting	Presentation and	
					discussion on NISP	
2018	8	29	Northern Water	Loveland Sertoma Club	Presentation and	
					discussion on NISP	
2018	9	18	Larimer County	Water Projects Working	Meeting to gather	
				Group Meeting	stakeholder input on NISP	
					pipeline alignments	
2018	9	21	Northern Water	North American Title	Presentation and	
				Company	discussion on NISP	
2018	9	21	Northern Water	Meeting with Fort Collins	Presentation and	
				For Progress	discussion on NISP	
2018	9	24	Northern Water	UNC Exploring Colorado	Presentation and	
				Class	discussion on NISP	
2018	9	25	Northern Water	East Slope Tour	Tour of, presentation of,	
					and discussion on NISP	
2018	10	5	Northern Water	CSU Sustainability Class	Presentation and	
				Presentation	discussion on NISP	
2018	10	8	Larimer County	Water Projects	Presentation on possible	
				Community Open House	NISP pipeline alignments	
					and receipt of public	
					comments in an open	
					house-style format	

Year	Month	Date(s)	Outreach Lead	Outreach Type	Description	
2018	10	9	Larimer County	Water Projects Working Group Meeting	Meeting to gather stakeholder input on NISP pipeline alignments	
2018	10	9	Northern Water	Fort Collins Employee Tour	Tour of, presentation of, and discussion on NISP	
2018	10	10	Northern Water	Meeting with Fort Collins Sertoma	Northern Water was invited to make a presentation on NISP to the Fort Collins Sertoma	
2018	10	24	Larimer County	Water Projects Working Group Meeting	Meeting to gather stakeholder input on NISP pipeline alignments	
2018	11	13	Larimer County	Water Projects Working Group Meeting	Meeting to gather stakeholder input on NISP pipeline alignments	
2018	11	14	Northern Water	Fall Water Users Meeting	Presentation and discussion on NISP	
2018	11	15	Larimer County	Water Projects Community Open House	Presentation on possible NISP pipeline alignments and receipt of public comments in an open house-style format	
2018	11	15	Larimer County	Water Project Webinar	Webinar to discuss pipeline constructability and geotechnical issues	
2018	11	15	Larimer County	Water Project Webinar	Webinar to discuss water flow and quality	
2018	11	16	Larimer County	Water Project Webinar	Webinar to discuss traffic issues associated with pipeline construction	
2018	11	27	Larimer County	Water Projects Working Group Meeting	Meeting to gather stakeholder input on NISP pipeline alignments	
2019	2	1	PRTI	Poudre River Community Forum	NISP outreach booth, presentation, and discussions	
2019	1	9	Northern Water	4 States Irrigation Council Program Tour	Tour of, presentation of, and discussion on NISP	
2019	2	26	Northern Water	Hewlett-Packard Young Employee Group	Presentation and discussion on NISP	

Year	Month	Date(s)	Outreach Lead	Outreach Type	Description	
2019	3	14	Northern Water	ASCE Meeting	Presentation and	
					discussion on NISP	
2019	3	15	Northern Water	CSU Sustainability Class	Presentation and	
				Presentation	discussion on NISP	
2019		3/1 to	CDPHE	NISP 401 Certification	Receipt of written	
		4/22		Application Public	comments on the 401	
				Comment Period	Certification Application	

As demonstrated in the list, a substantial amount of public discussion, engagement, and involvement has occurred throughout the history of the NISP on the project overall, environmental permitting, pipeline routing, Fish and Wildlife mitigation plan, etc.



MEMORANDUM

То:	Mr. Rob Helmick: Larimer County Development Planning
From:	Carl Brouwer, Stephanie Cecil, Christie Coleman: Northern Water
Date:	February 4, 2020
Subject:	Northern Integrated Supply Project (NISP)
	Larimer County Intergovernmental Agreement NISPtalk.com Online Engagement

The Northern Colorado Water Conservancy District (Northern Water) launched the NISPtalk.com online engagement website on June 28, 2019 to garner public feedback on NISP as part of the intergovernmental agreement process with Larimer County. This online engagement platform is a way for Northern Water to garner public feedback in a manner that is convenient to today's world. While traditional public engagement usually involves attending a public meeting or providing written submissions to our Board of Directors, it can often be time consuming, inconvenient and maybe even intimidating. NISPtalk.com allows people to learn more about the project components and have their say on the issues supporting our permit, at a time and place of their choice.

In the seven months since we launched the website, we have had more than 1,900 visitors view the website to learn more about the project and the details of this intergovernmental agreement.

Within the NISPtalk.com website there are five project topics that provided information to the public and solicited feedback. Those topics included:

- 1. What is the Northern Integrated Supply Project?
- 2. Components of the Northern Water-Larimer County Agreement
- 3. Recreation at Glade Reservoir
- 4. Water Pipelines in Larimer County
- 5. U.S. Highway 287 Relocation

Of those five, the most popular for engagement was the recreation topic. Participants were able to take part in quick poll questions and surveys, as well as ask questions. Topics included fishery, trail usage and watercraft regulations for the proposed Glade Reservoir.

Marketing for the NISPtalk.com website was conducted through various channels, including Northern Water and Larimer County's social media accounts, the Glade Reservoir website at <u>www.gladereservoir.org</u>, postcard mailers, Northern Water's e-newsletters, poster distribution, radio spots, press releases and media publications.

Overall, NISPtalk.com provided relevant project documentation and an opportunity for the public to engage and provide feedback regarding this project.



Visitors Summary

Highlights



Participants (%)

Participants (%)

PARTICIPANT SUMMARY

ENGAGED	92 ENGAGED PARTICIPAN	ГS		
		Registered	Unverified	Anonymous
	Contributed on Forums	0	0	0
INFORMED	Participated in Surveys	69	0	0
	Contributed to Newsfeeds	0	0	0
	Participated in Quick Polls	61	0	0
	Posted on Guestbooks	0	0	0
	Contributed to Stories	0	0	0
AWARE	Asked Questions	13	0	0
	Placed Pins on Places	5	0	0
	Contributed to Ideas * A single engaged	0 participant car	0 n perform mu	0 Itiple actions

ENGAGED	805 INFORMED PARTICIPANTS	
		- Participants
	Viewed a video	1
NFORMED	Viewed a photo	456
	Downloaded a document	261
	Visited the Key Dates page	49
	Visited an FAQ list Page	0
	Visited Instagram Page	0
AWARE	Visited Multiple Project Pages	677
	Contributed to a tool (engaged)	92

* A single informed participant can perform multiple actions

1,325 AWARE PARTICIPANTS	т
Visited at least one Page 1,325	R
	U
	W
	W
	С
	A
* Aware user could have also performed an Informed or Engaged Action	* 7
	Visited at least one Page 1,325

TOP PROJECTS

Recreation at Glade Reservoir	79 (16.1%)
Water Pipelines in Larimer C	8 (2.3%)
U.S. Highway 287 Relocation	6 (1.3%)
Components of the 1041 Per	4 (1.9%)

* Calculated as a percentage of total visits to the Project

TOP PROJECTS

\sim
6)
6)
6)
6)
6)
6)

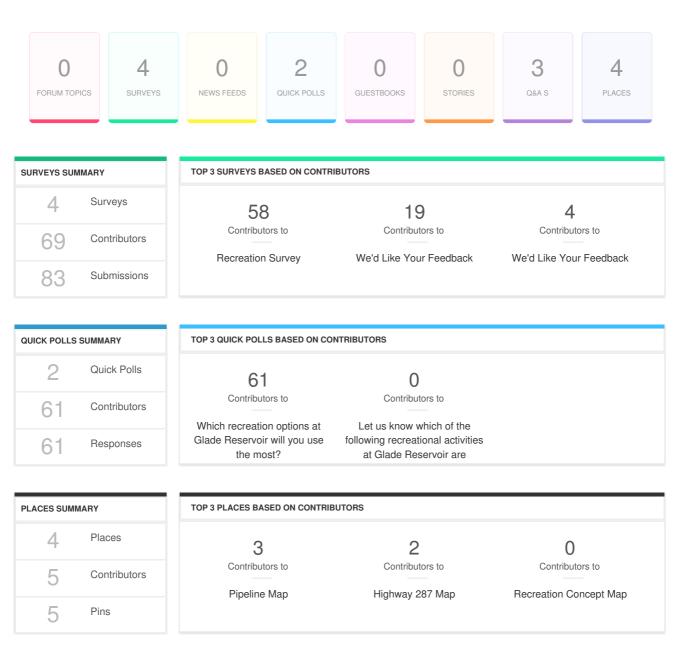
* Calculated as a percentage of total visits to the Project

TOP PROJECTS

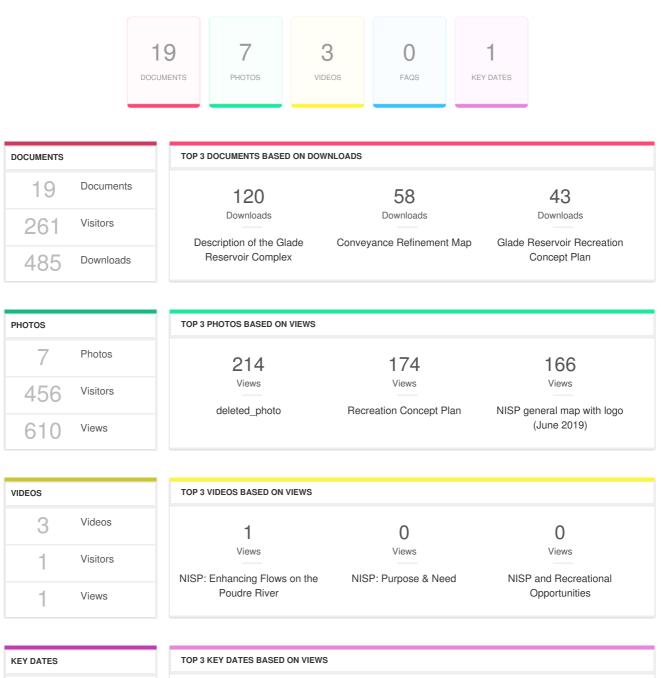
	Participants
Recreation at Glade Reservoir	490
U.S. Highway 287 Relocation	461
What is the Northern Integrat	351
Water Pipelines in Larimer C	350
Components of the 1041 Per	210
About the NISPtalk Site	125

* Total list of unique visitors to the project

ENGAGEMENT TOOLS SUMMARY



INFORMATION WIDGET SUMMARY



KEY DATES		TOP 3 KEY DATES BASED ON VIEWS
1	Key Dates	54
49	Visitors	Views Recreation at Glade Reservoir
54	Views	

TRAFFIC SOURCES OVERVIEW

	REFERRER URL	Visits
m.facebook.com		173
www.google.com		128
www.northernwater.org		76
www.facebook.com		60
www.larimer.org		49
links.govdelivery.com		44
www.coloradoan.com		37
www.bing.com		26
fclwd.com		20
android-app		14
northernwater.sharepoint.com		10
duckduckgo.com		9
l.facebook.com		9
coyotegulch.blog		7
search.yahoo.com		5

SELECTED PROJECTS - FULL LIST

PROJECT TITLE	AWARE	INFORMED	ENGAGED
Recreation at Glade Reservoir	490	303	79
U.S. Highway 287 Relocation	461	247	6
What is the Northern Integrated Supply Project?	351	210	0
Water Pipelines in Larimer County	350	208	8
Components of the 1041 Permit	210	48	4
About the NISPtalk Site	125	0	0

Project Report Def June 2019 - 20 January 2020 NISP Talk Recreation at Glade Reservoir					
Pa	Sep '19 Igeviews ww Registrations	1 Jan '20 Visitors	VISITS D. 600 40 NEW REGISTRATION 99 ENGAGED VISITORS	-	PER AWARE VISITORS 490
Aware Participants	490	Engaged Participants	;	79	
Aware Actions Performed Visited a Project or Tool Page	Participants 490	Engaged Actions Performed	d Registered	Unverified	Anonymous
Informed Participants	303 Participants	Contributed on Forums Participated in Surveys	0 65	0	0
Viewed a video	0	Contributed to Newsfeeds	0	0	0
Viewed a photo	165	Participated in Quick Polls	61	0	0
Downloaded a document	64	Posted on Guestbooks	0	0	0
Visited the Key Dates page	49	Contributed to Stories	0	0	0
Visited an FAQ list Page	0	Asked Questions	6	0	0
	0	Placed Pins on Places	0	0	0
Visited Instagram Page					
Visited Instagram Page Visited Multiple Project Pages Contributed to a tool (engaged)	219 79	Contributed to Ideas	0	0	0

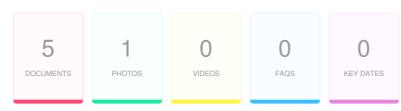
NIŚP

ENGAGEMENT TOOLS SUMMARY



Tool Type	Engagement Tool Name	Tool Status	Visitors	Contributors		
		1001014140	VIBILOTO	Registered	Unverified	Anonymous
Qanda	What is your question regarding recreation at Glade Reser	Published	106	6	0	0
Survey Tool	Recreation Survey	Published	179	58	0	0
Survey Tool	We'd Like Your Feedback	Published	74	19	0	0
Quick Poll	Which recreation options at Glade Reservoir will you use	Published	65	61	0	0
Quick Poll	Let us know which of the following recreational activitie	Published	0	0	0	0

INFORMATION WIDGET SUMMARY



Widget Type	Engagement Tool Name	Visitors	Views/Downloads
Photo	Recreation Concept Plan	164	174
Photo	deleted photo from	1	1
Document	Glade Reservoir Recreation Concept Plan	42	43
Document	Recreation Memo for Larimer County Agreement	18	19
Document	Larimer County 2017 Reservoir Parks Master Plan	16	20
Document	NISP Final Environmental Impact Statement	3	3
Document	NISP Fish and Wildlife Mitigation and Enhancement Plan		1
Key Dates	Key Date	49	54

What is your question regarding recreation at Glade Reservoir?

VISITORS 106	CONTRIBUTORS 6	CONTRIBUTIONS 6



18 July 19

As a life long bass angler, I've already heard rumors of how the lake is going to be restrictive to motorized boats and that fishing isn't being considered as much as, say even paddle boarding. Is this true? If so, why?



Publicly Answered

NISP has committed to developing Glade Reservoir as a cool-water fishery and is currently investigating types of boating access for the reservoir including allowing motorized boats. Additional information on the types of fish that will be stocked and the amount of funding that will be provided for the cool-water fishery can be found in Section 6.1.3.1 of the project's Fish and Wildlife Mitigation and Enhancement Plan.



Α

Dunbar

Why is it being considered as only a cool water fishery? We have enough "cool water fisheries" or "Trout fisheries" In Colorado, especially northern Colorado. Less trout, more bass!

Publicly Answered

Evaluations of glade reservoir indicate that it will have suitable aquatic habitat for cold and cool water fish species . Based on these assessments, Colorado Parks and Wildlife Aquatic Biologists developed a stocking plan for the reservoir that includes Walley, Smallmouth Bass, Saugeye, Black Crappie, Bluegill, Rainbow Trout, Yellow Perch and Tiger Muskie. We can pass your recommendations on stocking additional bass species on to Colorado Park s and Wildlife for their consideration when implementing the stocking plan.

What is your question regarding recreation at Glade Reservoir?

Q davidho 24 July 19

Will it be a state park?



Publicly Answered

Glade Reservoir will be owned by Northern Water. Northern Water will contract with an independent managemen t agency to oversee and manage the recreation facilities associated with the reservoir. The decision on who that manager will be hasn't been made yet. Groups being considered include Larimer County, Colorado Parks and Wil dlife, and a private concessionaire.



Grealityguy

Would there be an opportunity for the Centennial Bass Club to partner in a Bass conservation and management p rogram?



Publicly Answered

It sounds like there is a growing interest in bass fishing at Glade Reservoir including the interest in long-term man agement practices. We'd like to talk to you to get your feedback on that subject and discuss recreation at Glade Reservoir in general. Please call or email Christie Coleman at 970-622-2355 or ccoleman@northernwater.org at your convenience, and we can set up a time to talk.

What is your question regarding recreation at Glade Reservoir?

TomO 09 August 19

Good day, From the recreation concept plan it appears there won't be an above ground water outlet to Glade. Wil I the outflow be carried by a pipeline? I hope not as I'm a river fisherman and would enjoy having a tail water river to fish year round close to home. Thanks for the opportunity to submit some input. TomO



Publicly Answered

As part of a Conveyance Refinement Program, between 18 and 25 cubic feet of flow per second will be released from Glade Reservoir to the Poudre River year-round to eliminate locations on the river that have historically run dry, improve aquatic and terrestrial habitat, and create a healthy fishery near Fort Collins. Here's a map of the 12 -mile river reach this flow will benefit. This flow will be added to the river at the canyon mouth and will be taken ou t of the river at approximately the Mulberry Street and Lemay Avenue intersection in Fort Collins right above the Mulberry water treatment facility discharge to help maintain water quality needed by project participants and maxi mize the length of river benefited by this flow.

What is your question regarding recreation at Glade Reservoir?



TheLaporterican

Is there a possibility for trails around the entire reservoir? Or, just the East side? NISP could receive more local s upport with better plans for recreation. What plans there are now, look worse than Horsetooth. To get the local co mmunity behind this project, I'd like to see better trail networks, shore access, and a hiking/mountain biking loop around Glade. The terrain and views are incredible, there's boundless opportunities for amazing trails. Look at Ho rsetooth / Lory as a benchmark, then do better. Connecting trails from the Poudre Trail, Watson Lake, to Glade w ould be a great start.

Α

Publicly Answered

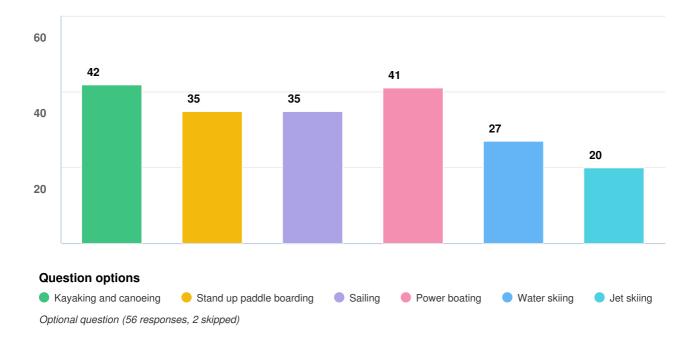
Land on the west and north side of the reservoir is being preserved as a wildlife habitat conservation area as requ ired in the project's Fish and Wildlife Mitigation and Enhancement Plan. As part of this conservation area, one sin gle trail on the west and north side of Glade Reservoir will be constructed within 50 meters of the high-water line t o allow walk-in fishing access. Please see Sections 5.3.2.3 and 6.1.3.2 of the Fish and Wildlife Mitigation and Enh ancement Plan for additional information on the trail and habitat conversation area goals, objectives, and location s. As shown on the recreation concept plan, a hiking trail is planned on the east side of the reservoir, and more hi king trails could be located in the 170-acre recreation area.

ENGAGEMENT TOOL: SURVEY TOOL

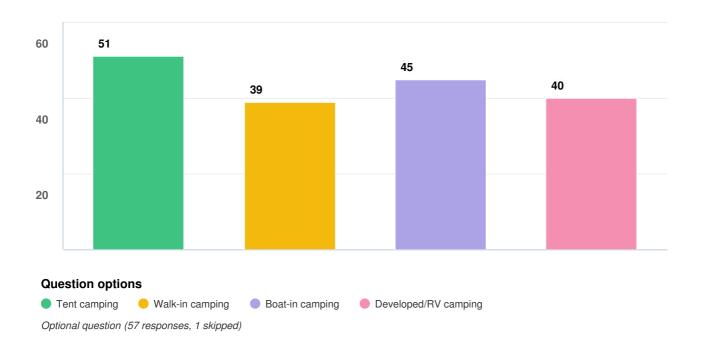
Recreation Survey

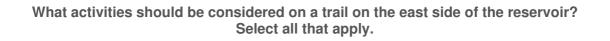
VISITORS 179	CONTRIBUTORS 58	CONTRIBUTIONS 58
--------------	-----------------	------------------

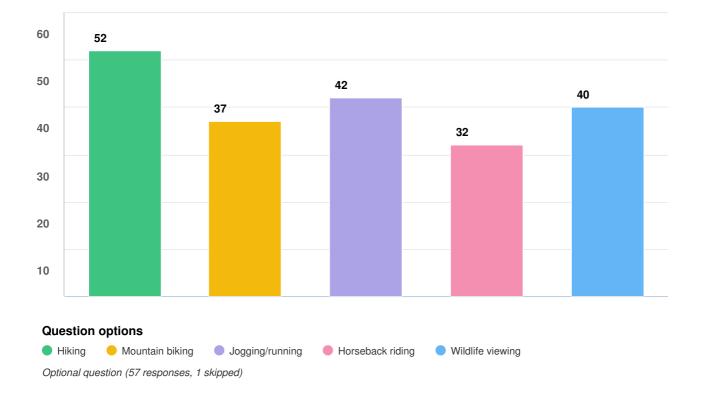
What types of watercraft activities should be included at Glade Reservoir? Select all that apply.



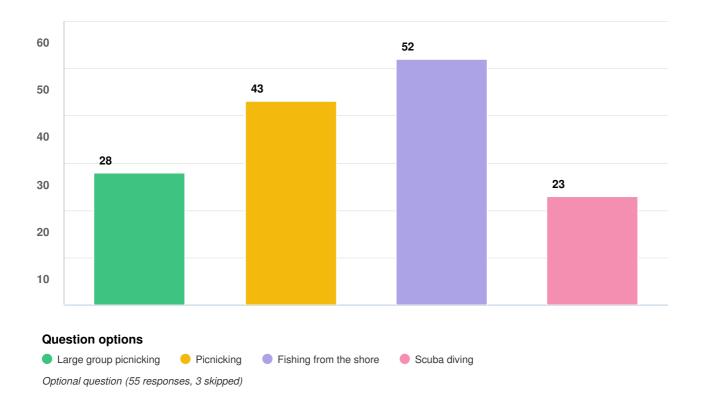
What types of camping should be included at Glade Reservoir? Select all that apply.







Which of these additional activities should be considered? Select all that apply.

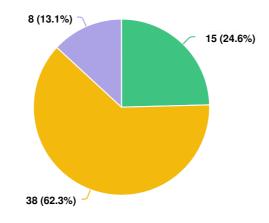


ENGAGEMENT TOOL: QUICK POLL

Which recreation options at Glade Reservoir will you use the most?



Which recreation options at Glade Reservoir will you use the most?



Question options

Hiking (Walking, Running, or Biking)

Boating (Motorized, Non-motorized, or Paddle Boarding)

Camping (Tent, RV, or Walk-in)

(61 responses, 0 skipped)



We'd Like Your Feedback

PROJECT: Recreation at Glade Reservoir

NISP Talk



Q1 Feedback

Hi, We border the new proposed reservoir directly. We believe with Crotalis1 Horsetooth Reservoir already allowing power boats, that the proposed Glade Reservoir should cut a different and unique path by only allowing nonmotorized boating. Wake creation, and noise and activity disruptions from power boats and jet skis will counter the shoreline conservation efforts, and increase shoreline erosion. Also it is a drinking water reservoir after all! Lead/toxics from gas and other organics gas engine effluents create counter the purity of the water. Jet skiis and power boats detract dramatically from the other uses and create huge amounts of noise pollution! This stand may detract from our property values, but is worth it. Failing this, allowing only electric motors might be an intermediate step. Thanks for listening! Jeff Wimsatt and Kim Innes. James Good opportunity for more fishing, boating, remote camping and hiking. I don't like the idea of group campgrounds. It will be like that mess at Horsetooth. It will require a lot of people to maintain the campgrounds and police the area. I like the relocation of the highway as so many people have been killed from car and semi truck accidents near the intersection of the new Highway 287 and the old Highway 287. James I don't like the idea of group campgrounds. I will be directly impacted. The KOA campground has caused grass fires in the past and I think more campgrounds will add to the fire risk to residents in the area. Thank you for the opportunity to review the Glade Reservoir Recreation CMayer Concept Plan. As property owners on Arapaho Valley Road we are immediately adjacent to the NISP lands. While we are generally supportive of the Glade Reservoir Project, we are concerned about several proposals within Recreation Concept Plan: 1. No backcountry or boat-in camping should be allowed along the eastern shoreline. The entire shoreline is bordered by private lands and the noise, trash, and potential fire hazards of campsites would negatively affect these properties. The west side of the reservoir with its numerous coves and adjacent public lands is much better suited to backcountry camping. 2. Rock climbing should not be promoted as one of the activities accessible from the proposed Eastside Trail. All of the cliffs and escarpments are on private land and we do not want people trespassing to climb on the rocks. 3. If there is public access to the east shoreline, then the boundary of the NISP lands should be fenced and clearly marked to discourage people from trespassing on adjacent private lands. 4. We are concerned about the proposed number of campsites in the developed recreation area. The Concept Plan shows five campgrounds with at least 64 campsites. We think this is too high for an enjoyable camping experience and will negatively affect the surrounding environment. 5. The Recreation Concept Plan should discuss how to minimize the risk of wild fire as a result of camping and other activities. Local summer wind patterns tend to blow from the southwest and fire could easily spread from the campgrounds into

BPRresident 7/02/2019 05:29 PM

TAFaul 7/05/2019 01:40 PM

juliemb 7/15/2019 04:42 PM

M.Joseph 7/16/2019 07:58 PM

Wilder Endeavors

7/18/2019 04:49 PM

SG 7/24/2019 07:15 AM

Rkelley0418 7/24/2019 07:44 AM

Dunbar 7/24/2019 02:12 PM

Grealityguy 7/25/2019 02:50 PM

Gknack 7/26/2019 04:27 AM the flammable brush and rugged topography of the ridgeline to the north. There are and will be more homes in this neighborhood. Fire breaks, vegetation management, and burn bans during dry season should be integrated into the campground design. Again, thank you for the opportunity to comment. Craig Mayer and Richard Penland Please no speed boats and jet skis on Glade. Let's keep the recreation

focused on enjoying this beautiful foothills setting and the wildlife around it.

We think this will be a excellent addition to our growing area and it is an awesome enhancement to help the water, fish and wildlife. Plus it will relieve some of the traffic to Horsetooth. It's going to definitely be needed as our population keeps growing and help sustain through the drought times we have.

Biking for kids and families. Fishing including boat rentals. An area for swimming.

Please make a kmz file available showing the proposed Hwy 287 reroute alternatives.

There are only two lakes (Boyd & Horsetooth) of any respective size to pursue bass fishing. Carter was taken away as a viable option since it was turned into a trout fishery. Lonetree has been taken away. The point being, it sure would be nice if there were bass that we could catch from a bass boat in this lake.

Please stock spotted bass as the dominant game fish

Would like to see a great fish management, bigger smallmouth.

I personally believe you should try to turn this into a bass fishery. Largemouth bass do surprisingly well in Horsetooth reservoir and they absolutely FLOURISHED in Carter lake before the county decided unilaterally to turn it into a cool water trout fishery. Smallmouth are a no brainer, they do well in warm and cool water... The water in glade wont be any colder than either of the previously mentioned lakes/reservoirs so I dont see why bass would not do well. There are plenty of cool water fisheries in Colorado, and tons in Larimer county alone. Not including Thousands of miles of rivers and streams that are literally FULL of trout.

This could be a premier small mouth bass trophy lake, if kept to catch and release only, and partnered with the local Bass club for fish habitat, and conservation projects!

The lake should ban wake board boats! They damage our water systems by throwing huge waves which the boat uses a water system to fill the boat to make a bigger wake, (good way to get zebra infestation) they also cause the shoreline to get washed away and cause the lakes to have up to 100 yards shallow shore, this I have witnessed in Michigan where they are banning these boats in some lakes, they also make up to 6' waves which rock every thing in the water past the no wake signs into the swim beaches. Keep the

380

SK 8/03/2019 06:43 AM

Amy Jordan

10/18/2019 02:59 PM

northCR29ronnie

11/29/2019 08:31 AM

water peaceful.

Wouldn't it be cool if they added boat chutes and fish ladders in all the diversion dams so that filter plant connected to Watson lake? it would make a really nice, local, fishing trip. The shitty truth is, it will happen eventually. Might as well try and improve some habitat out of the deal. More clear signage and "water etiquette" information for All visitors participating in water sports including kayaking, canoeing, and stand up paddle boarding. A "launching zone" or area designated to paddle boards, kayaks and canoes that does not interact with boat loading and unloading with boat ramps. A flat sandy surface for these types or "launching zones" instead of a rocky shoreline with boat ramps being the only clear space to access water.

29Nov2019 NISP Ladies and Gentlemen, I am currently a resident living on N County Road 29 C and have so for approximately 11 years. My wife and I have worked and played here and bought this house/land because of the pristine nature of our surroundings and the peace and quiet this area brings into our lives. We are both retired and in love with the slow and quiet nature this valley brings to our golden years. I am writing to vehemently oppose any development (Glade Reservoir and proposed recreational facilities) that would bring environmental chaos to our area including many of our neighbors here on N 29 C, our neighbors in Bellvue and Laporte, and our neighbors to the north living in beautiful and bucolic Bonner Peak Ranch. What upsets me the most about this Glade proposal is that most of the people "benefiting" from this structure are living outside Larimer County while those living adjacent to the proposed reservoir will be bearing the personal costs and sacrificing our peaceful style of life that we hoped would last well into the future. There is a strong degree of social injustice that accompanies this entire proposal. I am concerned about the impact this project will have on the noise level of our valley (noise pollution), air pollution, the detrimental environmental effects on wildlife biodiversity, light pollution (the loss of our dark skies devoid of light so we can see starlit skies and constellations), possible contribution to wildfires by increased traffic in our surrounding hills and forests, the potential for trespassers straying away from the reservoir and on to contiguous private property, and the potential contribution to new development to this region and overcrowding. I am also concerned about the incredible pressure that will come to bear on our emergency response personnel who are already stretched to the limit in providing adequate coverage to our neighbors. As mentioned earlier, perhaps the most undesirable consequence is the noise pollution we can expect from this project not only during its 4-5 years period of construction, but from the traffic to and from the recreational facilities that are proposed. I don't want to think about the incredible disturbance to our peaceful valley motorboats and their occupants will bring. Most of my neighbors are older retirees and some suffer from heart and lung disease. The dust from the area and air pollution from fossil fueled engines of all kinds will likely trigger some difficult breathing issues for them. Building a reservoir for the purposes intended seems technologically 'old school'. Surely through better and more stringent

conservation measures and access to aquifers through more advanced engineering techniques will better serve the needs of development far into the future with minimal impact to surrounding homes and villages. Please SCRAP this entire GLADE proposal and work on a more environmentally and personally satisfying solution for our future. Please do not let 'corporate America" once again shove their agenda in our lives! Greed and power are pushing this development which is SOP these days! Thank you for your time and consideration. Sincerely, Ronald M Bright, DVM MS DACVS Resident on N CR 29 C Bellvue, CO

Dear NISP Planners, I am a retired wildlife ecologist and local resident who lives north of Highway 14 and west of Ted's Place in Bellvue. I believe your "Conceptual Glade Recreation Facilities Plan" is incredibly short-sighted and seems to focus mainly on the economic benefits of recreation (estimated at \$13M to \$30M annually in your plan) and the exploitation of our valuable natural resources. In following through with your plan for Glade Reservoir and its associated recreation facilities, you will be completely destroying the relatively pristine valley northwest of Fort Collins in the name of fueling rapid, unsustainable regional population growth in smaller rural areas far away. You will also be permanently degrading the Poudre River riparian ecosystem which provides critically important habitat for many species of wildlife, including the threatened species, Preble's Meadow Jumping Mouse. Although you claim you will mitigate this degradation and destruction, I see nothing in your plans, or your EIS to assure me that this is even possible! Because of my proximity to your proposed recreation area and dam, I am quite concerned about the increase in foot traffic from hikers and campers in the surrounding hillsides, and the resulting loss of privacy. I also worry about noise from power boating and jet skiing. I moved here not only for the peace and quiet that this area provides, but also to be able to see an abundance of wildlife, birds, and beautiful star-lit skies at night. Your reservoir and planned recreation area will totally change the character of this valley and its surrounding foothills. Glade Reservoir and its planned recreation area will fragment and destroy wildlife habitat and also act as a barrier to migratory species, such as deer and elk. Your recreation plan offers many things for recreators, among them boating, jet skiing, water-skiing, cross-country skiing, and snowshoeing. With unpredictable water levels that may fluctuate as much as 35 feet, I seriously doubt that you will be providing great boating or water-skiing opportunities. And I'm guessing that there may only be one, or possibly two days a year when snow levels will be deep enough for any skiing or snowshoeing in your recreation area. In addition, by decreasing flows in the Poudre River when you pump water into your reservoir, you will be degrading the quality of trout fishing for anglers, as well as the quality of kayaking and rafting downstream. Communities nationwide are now recognizing that healthy free-flowing rivers are tremendous assets. In the past few years, many dams have either been torn down or blown up (72 in the United States last year alone!). Why not consider other real alternatives to Glade Reservoir, such as conservation, establishing a rotating fallow program, and/or aquifer storage and recovery? All of these alternatives

lemmule

11/29/2019 10:23 AM

jmbright 12/01/2019 02:39 PM prevent losing dramatic amounts of water to evaporation, and they would also keep all that land from being degraded and/or destroyed. You are asking our local community to sacrifice precious natural resources, the character of our neighborhood, and our quality of life so that other communities far away from us might benefit economically from expected, unsustainable growth. There are many, many valuable natural resources at stake here that could well be destroyed for future generations if we don't carefully plan ahead. Please rethink your outdated plan and come up with something better. Thanks for your time and consideration, Dr. Jan Rothe NISP: I am writing to emphatically state that I oppose the Conceptual Glade Recreation Facilities Plan proposed by NISP. Although I consider the entire Glade Reservoir project a losing endeavor, I will focus this letter on reasons I believe the recreational plan is bad for both nearby residents and for Larimer County in general. The proposed recreational facilities will adversely affect the property value and the quality of life of residents owning property along the west side Highway 287. These residents will be in close proximity to the reservoir and its access roads, parking lots (cars and trailers), boat ramps, and camping grounds. Construction of these roads and sites will destroy the natural beauty surrounding our properties by turning untouched hillsides and gorgeous vistas into unsightly roads, parking lots, and expanses of tents and RVs. The proposed recreational facilities will result in nearby residents having to endure noise pollution (radios, voices, motor boats, generators, vehicles), air pollution (road dust, vehicle/boat exhaust, campfire smoke, etc.), and light pollution. Perhaps most important, presence of new roads, parking lots, and camp grounds will significantly increase the risk of wildfire - a HUGE concern in our already vulnerable area. The recreational facilities proposed will be visited by an estimated 379,000 visitors per year, more than 1,000 people per day. This presents a huge burden on Larimer County. The proposed facilities including roads, trails, parking areas, campgrounds, restrooms, entry station, visitor center will require significant county resources for patrol, management, and maintenance. In addition, the already overburdened emergency responders in the area will undoubtedly see calls for services increase greatly. Standing water in the proposed reservoir (particularly since Glade will have fluctuating water levels) along with presence of human food and waste, will undoubtedly result in increased spread of insect borne infectious diseases such as West Nile Virus, Pigeon Fever, and Vesicular Stomatitis Virus. We residents of Larimer County depend on our Planners and Commissioners to protect our interests; yet most County residents will not receive water benefits from the Glade Reservoir. Nor are the proposed recreational facilities likely to offer enjoyable water related activities since water quality and water levels are likely to be often inadequate. The proposed recreational benefits definitely do not outweigh the disadvantages. I implore you to reject the Glade Recreational Facilities Plan proposed by NISP, and, in fact, to work toward rejection of Glade Reservoir entirely in favor of a more up to date and efficient water use/storage plan that will not destroy the natural resources of our lovely County. Thank you for giving my thoughts and concerns your serious consideration. Sincerely, Janice. M. Bright

Response to Wilder Endeavors:

NISP has committed to developing Glade Reservoir as a cool-water fishery and is currently investigating types of boating access for the reservoir including allowing motorized boats. Additional information on the types of fish that will be stocked and the amount of funding that will be provided for the cool-water fishery can be found in Section 6.1.3.1 of the project's Fish and Wildlife Mitigation and Enhancement Plan.

Thanks, Christie Coleman Project Manager

Response to DavidHo:

Glade Reservoir will be owned by Northern Water. Northern Water will contract with an independent management agency to oversee and manage the recreation facilities associated with the reservoir. The decision on who that manager will be hasn't been made yet. Groups being considered include Larimer County, Colorado Parks and Wildlife, and a private concessioner.

Thanks, Christie Coleman Project Manager

Response to Dunbar:

Evaluations of glade reservoir indicate that it will have suitable aquatic habitat for cold and cool water fish species. Based on these assessments, Colorado Parks and Wildlife Aquatic Biologists developed a stocking plan for the reservoir that includes Walley, Smallmouth Bass, Saugeye, Black Crappie, Bluegill, Rainbow Trout, Yellow Perch and Tiger Muskie. We can pass your recommendations on stocking additional bass species on to Colorado Parks and Wildlife for their consideration when implementing the stocking plan.

Thanks,

Christie Coleman Project Manager

Response to Grealityguy:

It sounds like there is a growing interest in bass fishing at Glade Reservoir including the interest in long-term management practices. We'd like to talk to you to get your feedback on that subject and discuss recreation at Glade Reservoir in general. Please call or email Christie Coleman at 970-622-2355 or ccoleman@northernwater.org at your conveyance, and we can set up a time to talk.

Thanks!

Christie Coleman Project Manager

Response to TomO:

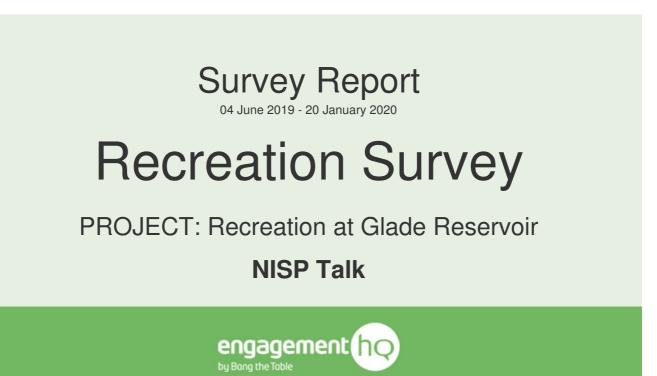
Question: Good day, From the recreation concept plan it appears there won't be an above ground water outlet to Glade. Will the outflow be carried by a pipeline? I hope not as I'm a river fisherman and would enjoy having a tail water river to fish year round close to home. Thanks for the opportunity to submit some input. TomO

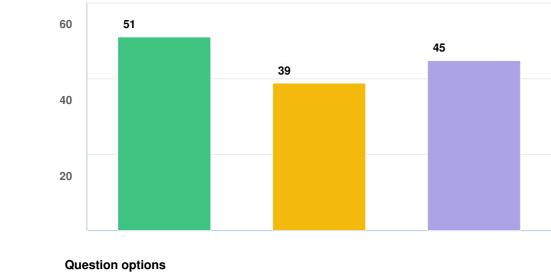
Hello TomO,

As part of a Conveyance Refinement Program, between 18 and 25 cubic feet of flow per second will be released from Glade Reservoir to the Poudre River year round to eliminate locations on the river that have history run dry; improve aquatic and terrestrial habitat; and create a healthy fishery near Fort Collins. Here's a map of the 12-mile river reach this flow will benefit.

This flow will be added to the river at the canyon mouth and will be taken out of the river at approximately the Mulberry Street and Lemay Avenue intersection in Fort Collins right above the Mulberry water treatment facility discharge to maintain water quality needed by Project Participants and maximize the length of river benefited by this flow.

Thanks, Christie Coleman Project Manager

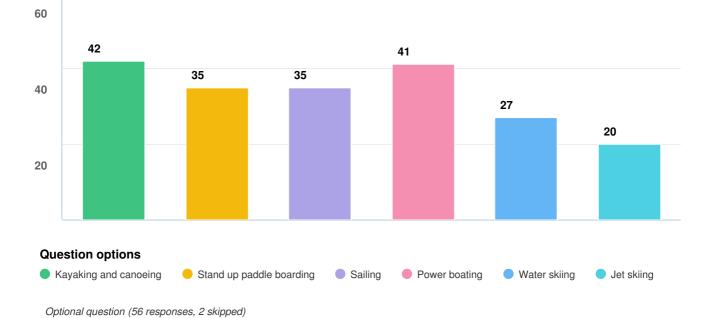






What types of camping should be included at Glade Reservoir? Select all that apply.

Developed/RV camping





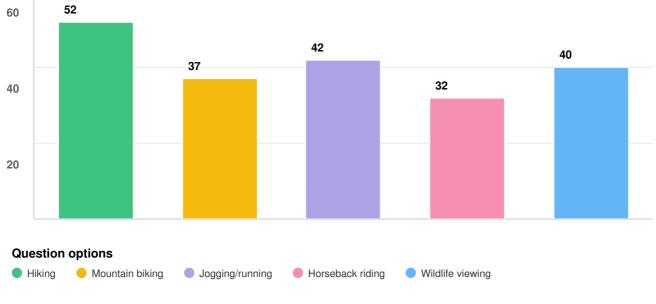
Recreation Survey : Survey Report for 04 June 2019 to 20 January 2020

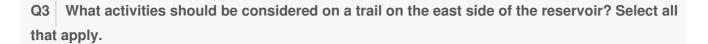
apply.

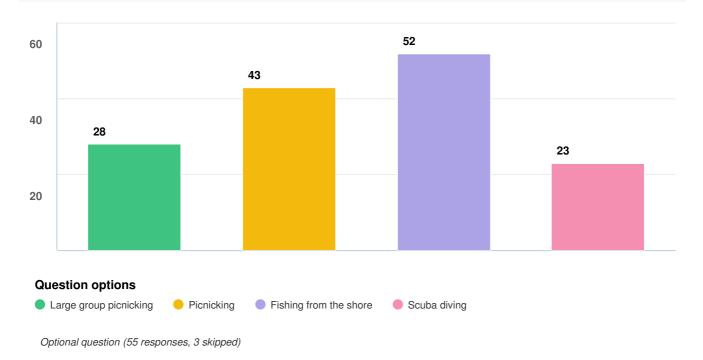
Q2

Optional question (57 responses, 1 skipped)

40







Q4 Which of these additional activities should be considered? Select all that apply.

Optional question (57 responses, 1 skipped)

389

Q5 What other types of recreation should be considered?

lydiathompson 7/02/2019 08:58 AM

MD19 7/08/2019 10:08 AM

TBondu 7/08/2019 01:03 PM

Kirk 7/18/2019 03:56 PM

Wilder Endeavors 7/18/2019 04:43 PM

Peacemaker208 7/18/2019 05:17 PM

Joelcartier 7/18/2019 05:48 PM

Jpmurer 7/20/2019 04:40 PM

Gatorsmj 7/24/2019 07:09 AM

Coyute 7/24/2019 07:43 AN

Tcarwin 7/24/2019 08:55 AM

macvee 7/24/2019 01:52 PM

ckoldeway 7/24/2019 02:42 PM

davidho 7/24/2019 02:48 PM

Chadrok 7/24/2019 05:04 PM

Hammy151 7/24/2019 06:56 PM unique area, don't make it a zoo like Horsetooth

General uses similar to those found on Horsetooth and Carter lakes.

Mountain biking. More mountain biking. Even more mountain biking.

Please stock with black bass.

Fishing. I'd highly recommend an initial stocking of all 3 species of black bass to see which one takes.

Hunting / Fishing

Wakeboarding and wake surfing

Wakeboarding/Wakesurfing

This is a great opportunity to have another great place to fish in Northern Colorado! It has great structure and could be a world class smallmouth bass reservoir! Bass fishing. Colorado has enough synthetic trout lakes.

Trophy bass fishing- catch/ release only

I'm aware that it would be nearly impossible to avoid the presence of power boats on such a large reservoir, and thus jetskis and waterskiing, but personally I favor non-motorized boating, especially with the proximity of Horsetooth reservoir and Boyd Lake. Bass Fishing Walleye Fishing

Bass and walleye fishing

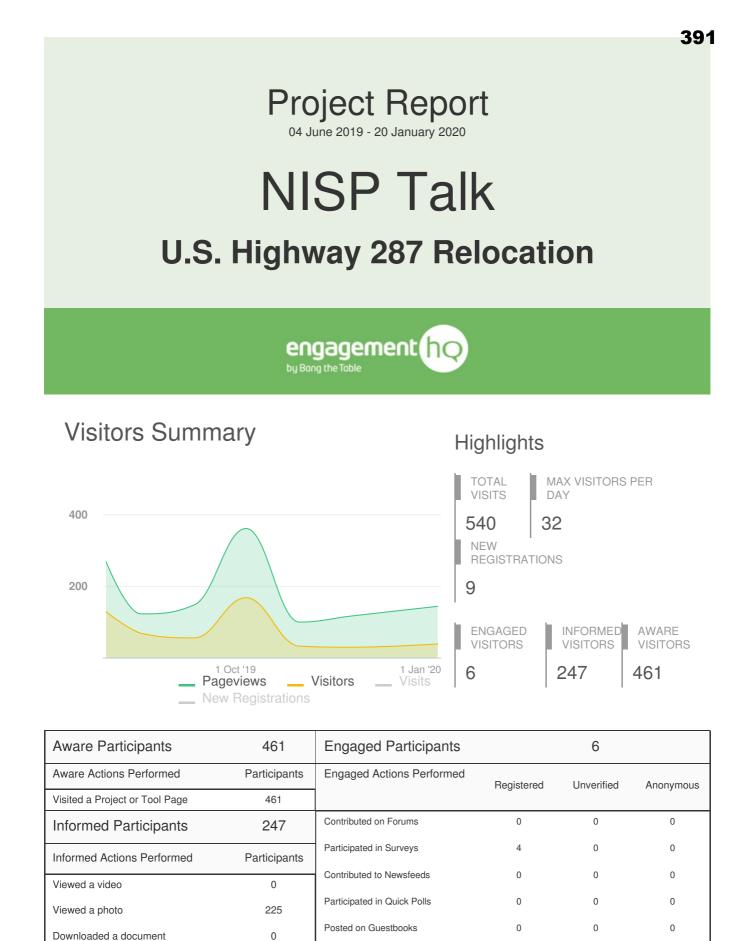
Keep the lake wake less

Fishing tournaments (boat and from shore)

390

Colorado Ranger 7/24/2019 08:04 PM	Fishing from boats
MPM 7/25/2019 05:53 AM Sbirdman1	Colorado lakes are becoming very busy and we all need to work together weather you fish, water ski or pleasure boating etc. As it sits now we normally go out of state to fish due to the state and counties not willing to address the wave board boats. Some states have taken measures to not allow these boats on any lakes due to the high level threat of infesting lakes due to that you can't get all the water out of the ballast tanks. My recommendation would be if wave boats are allowed they have a part fo the lake that these boats are not allowed due to the high wave they create. Paddle boarders should be allowed to use the lake as well but rules must be enforced. Boats must have lights on at dusk and dawn as well should these boarders. I can say while fishing at night and going down the lake. You can't see these boarders and it is eventually going to happen and have a fatality on one of your lakes. Catch and release Bass Fishing
7/25/2019 10:57 AM	
Grealityguy 7/25/2019 02:32 PM	Tournament fishing.
Gknack 7/26/2019 04:29 AM	Bass and walleye fishing
Milehisnk 7/29/2019 08:16 AM	Warm water species fishing
jacksonmjcpo 7/29/2019 09:45 AM	Bass fishing
jcionek 7/30/2019 08:02 AM	Fishing, hiking, & sight-seeing are the majors that should be included and possibly boating with a max capacity of 25-40 hp on any "motor boats"
turrialba 8/02/2019 01:30 PM	There should be mountain bike specific trails
JasonG 8/21/2019 05:44 PM	Swim beach
Hhissrich 8/23/2019 04:17 PM	Rowing!
Amy Jordan 10/18/2019 02:55 PM	As a current vendor working with Larimer County we need a "launching Area" designated to non-motorized vessels such as kayaks, canoes and standup paddle boards. An area that is not rocky and flat for easier launching and landing zone for these types of activities. More clear signage and "water etiquette" signage for rules and regulations for All watersport activities.

Optional question (28 responses, 30 skipped)



Contributed to Stories

Placed Pins on Places

Contributed to Ideas

Asked Questions

Visited the Key Dates page

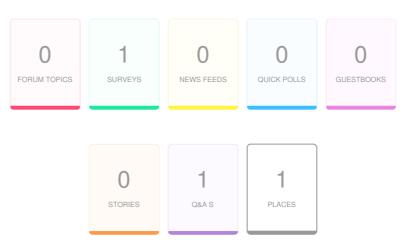
Visited an FAQ list Page

Visited Instagram Page

Visited Multiple Project Pages

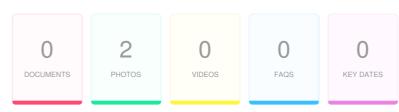
Contributed to a tool (engaged)

ENGAGEMENT TOOLS SUMMARY



Tool Type	Engagement Tool Name Tool Statu		Visitors		Contributors	
		1001014140	VIOLOIO	Registered	Unverified	Anonymous
Place	Highway 287 Map	Published	59	2	0	0
Survey Tool	We'd Like Your Feedback	Published	33	4	0	0

INFORMATION WIDGET SUMMARY



Widget Type	Engagement Tool Name	Visitors	Views/Downloads
Photo	deleted photo from	199	214
Photo	Highway Relocation and Glade Reservoir Exhibit	25	32
Photo	U.S. Hwy. 287 Realignment	20	22

ENGAGEMENT TOOL: PLACE

Highway 287 Map

VISITORS 59	CONTRIBUTORS 2	CONTRIBUTIONS 2					
2019-11-01 11:19:12 -0700	Will the relocated US 287 be a divided 4	lane? If not, it should be. Drivers, especially t					
cyberranger		nose unfamiliar with the road, do not seem to know when to pass on US 287 & avoiding close calls is a way of life driving it. The relocation would be a great time to implement					
CATEGORY	nt a divided roadway. Wyoming's solution	nt a divided roadway. Wyoming's solution works extremely well.					
	Address: US Route 287, Laporte, Colorad	do 80535, United States					
Pin		relocation/maps/highway-287-map?reporting					
	=true#marker-18422						
2020-01-20 16:32:27 -0800	Please explain the areas which appear to	be on the mueller property and the Mellos p					
Ingleside1	roperty Address: US Route 287, Laporte, Colorad	do 80535, United States					
CATEGORY	http://www.pisptalk.com/us-highway-287-relocation/maps/highway-287-map?report						

Certain tools on the NISPtalk.com website do not allow for public response via the platform, so NISPtalk.com managers crated email replies directly to the participant.

=true#marker-20027

http://www.nisptalk.com/us-highway-287-relocation/maps/highway-287-map?reporting

Response to cyberranger:

Hello:

Thanks for posting the following question regarding the road configuration of the proposed U.S. Hwy. 287 relocation on the NISPTalk.com site.

Ouestion:

Will the relocated US 287 be a divided 4 lane? If not, it should be. Drivers, especially those unfamiliar with the road, do not seem to know when to pass on US 287 & avoiding close calls is a way of life driving it. The relocation would be a great time to implement a divided roadway. Wyoming's solution works extremely well.

In answer to your question, existing and future (2040) traffic volumes were analyzed to determine the appropriate number of lanes on the relocated portion of US 287. Accident history for the corridor was also reviewed, which predominantly consists of impacts with fixed objects and wild animals. Based on the analysis, and review and approval by CDOT, a twolane section was proposed, which replaces the existing US 287 alignment in a similar nature while providing safety improvements where practical. The two-lane cross section was also what was cleared during the environmental planning and clearance phases of the project. Climbing and passing lanes will be provided on the relocated portion of US 287 as appropriate.

Please let us know if we can provide any additional assistance, and have a nice weekend.

Best regards,

Christie Coleman Project Manager

In response to Ingelside1:

Hello,

In this area, the intersection of Big Ridge Way with US 287 is being moved approximately 600' to the south, so that the intersection will be perpendicular to the new alignment (red color). On the Mueller property, a temporary construction easement will likely be required at the tie-in of the realigned intersection with existing Big Ridge Way. For the Mellos property, the existing dirt road access (magenta color) will be extended to meet the realigned Big Ridge Way. A temporary construction easement may be required on the Mellos property to tie-in this extension. US 287 and Big Ridge Way will be within their own right-of-way.

Thanks a bunch, and feel free to call or email if you would like to discuss anything.

Best regards,

Christie Coleman Project Manager

A separate email sent to NISPtalk@northernwater.org

Sir or Madam,

Would you please forward additional information as to how significant traffic disruptions will be avoided during the 7 mile Highway 287 relocation phase of the project.

Thank you, Jan G.

Hello!

Thank you for your question. Construction of the relocated Highway 287 will be completed prior to the completion of Glade Reservoir to avoid any road closures and associated displacement of traffic onto other roads. There will be minor traffic impacts at both the North and South tie-in locations along Highway 287 for the new alignment, but these won't involve road closures.

We don't have the exact time frames nailed down, but the construction for the highway will likely take place in 2023-2024.

Please let me know if we can help answer any other questions.

Thank you and have a nice day,

Stephanie Cecil, P.E. | Water Resources Project Engineer



We'd Like Your Feedback

PROJECT: U.S. Highway 287 Relocation

NISP Talk



Q1 Feedback

Kevin Duffy 10/10/2019 04:02 AM	My wife and myself as well as many neighbors commute down to Fort Collins and other Tony range cities. The proposed relocation of 287 will add time to an already long commute. We do not want the program to move forward. We will vote against Glade Reservoir.
ftcav	Could you please post an accurate map of the entire 287 project? At the last
11/11/2019 08:17 PM	Open House, I learned there is a roundabout and a frontage road. The maps
	on your website are woefully lacking detail about the road. It's hard to know
	what I should be asking about when you haven't provided adequate detail
	about significant aspects of this part of the project.
Norm S	There have been several accidents at the entrance of Bonner Peak Ranch .
12/18/2019 04:57 PM	Would it be possible to put in a turn lane off of 287 at the entrance ? Thank
	you

Optional question (3 responses, 1 skipped)

Certain tools on the NISPtalk.com website do not allow for public response via the platform, so NISPtalk.com managers crated email replies directly to the participant.

Response to ftcav:

Thank you for your feedback! We've added an interactive map of the Highway 287 project to our website. Please go to the following web address to see the limits of the 287 highway realignment, including the frontage road and proposed round about location: https://www.nisptalk.com/us-highway-287-relocation/maps/highway-287-map

Thanks and have a great day,

Stephanie Cecil, P.E. | Water Resources Project Engineer

Response to Norm S.

Hello,

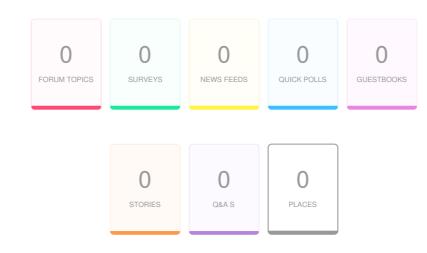
Thank you for your feedback on our project. In response, the US 287/Bonner Springs Ranch Road intersection is outside the limits of the NISP US 287 relocation and the scope of that relocation project. We have been in contact with CDOT sharing the neighborhood's concerns with that intersection, the Owl Canyon intersection, and the overall safety of US 287. We will continue to talk with CDOT during design regarding opportunities to address these concerns outside of this project.

Thanks, Christie Coleman Project Manager



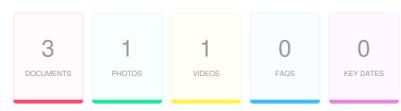
Aware Participants	351	Engaged Participants		0	
Aware Actions Performed	Participants	Engaged Actions Performed	Registered	Unverified	Anonymous
Visited a Project or Tool Page	351		riegistereu	Onvennied	Anonymous
Informed Participants	210	Contributed on Forums	0	0	0
Informed Actions Performed	Participants	Participated in Surveys	0	0	0
Viewed a video	0	Contributed to Newsfeeds	0	0	0
Viewed a photo	146	Participated in Quick Polls	0	0	0
Downloaded a document	105	Posted on Guestbooks	0	0	0
Visited the Key Dates page	0	Contributed to Stories	0	0	0
Visited an FAQ list Page	0	Asked Questions	0	0	0
Visited Instagram Page	0	Placed Pins on Places	0	0	0
Visited Multiple Project Pages	179	Contributed to Ideas	0	0	0
Contributed to a tool (engaged)	0				

ENGAGEMENT TOOLS SUMMARY



Tool Type	Engagement Tool Name	Tool Status	Visitors		Contributors	
		1001014140	VIOLOIO	Registered	Unverified	Anonymous

INFORMATION WIDGET SUMMARY



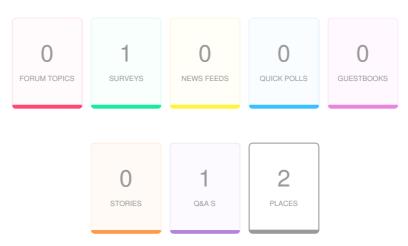
Widget Type	Engagement Tool Name	Visitors	Views/Downloads
Photo	NISP general map with logo (June 2019)	146	166
Photo	deleted photo from	1	1
Document	Description of the Glade Reservoir Complex	95	120
Document	NISP Final Environmental Impact Statement	19	20
Document	Description of the South Platte Water Conservation Project	16	18
Video	NISP: Purpose & Need	0	0

Project Report Of June 2019 - 20 January 2020 NISP Talk Water Pipelines in Larimer County						
		2				
Visitors Summary	Visitors1 Jan '20			AWARE VISITORS 350		
Aware Participants 350	Engaged Participan	ts	8			
Aware Actions Performed Participants	Engaged Actions Perform	ned Registered	Unverified	Anonymous		
Visited a Project or Tool Page 350	Contributed on Forums	0	0	0		
Informed Participants 208	Participated in Surveys	1	0	0		
Informed Actions Performed Participants	Contributed to Newsfeeds	0	0	0		
Viewed a video 1	Participated in Quick Polls	0	0	0		
Viewed a photo 0 Downloaded a document 80	Posted on Guestbooks	0	0	0		
Visited the Key Dates page 0	Contributed to Stories	0	0	0		
Visited an FAQ list Page 0	Asked Questions	4	0	0		
Visited Instagram Page 0	Placed Pins on Places	3	0	0		
Visited Multiple Project Pages 185	Contributed to Ideas	0	0	0		
Contributed to a tool (engaged) 8						

BCC 08/17/20

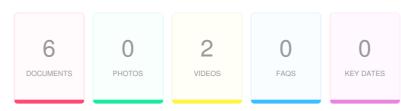
401

ENGAGEMENT TOOLS SUMMARY



Tool Type	Engagement Tool Name	Tool Status Visitors				Contributors	ors	
		1001014140	tione	Registered	Unverified	Anonymous		
Qanda	What is your question regarding the NISP Pipelines?	Published	16	4	0	0		
Place	Pipeline Map	Published	236	3	0	0		
Place	New map	Draft	0	0	0	0		
Survey Tool	Request Follow Up	Published	4	1	0	0		

INFORMATION WIDGET SUMMARY



Widget Type	Engagement Tool Name	Visitors	Views/Downloads
Document	Conveyance Refinement Map	53	58
Document	Technical Memo - Conveyance Routing	32	34
Document	Pipeline Construction and Restoration Overview	32	34
Document	Pipeline FAQs	30	32
Document	NISP Mitigation	4	5
Document	General Pipeline Construction Practices	2	2
Video	NISP: Enhancing Flows on the Poudre River	1	1
Video	NISP and Recreational Opportunities	0	0

QANDA

What is your question regarding the NISP Pipelines?

VISITORS 16	CONTRIBUTORS 4	CONTRIBUTIONS 5
Q Prospectortom		
I have adjudicated water gathering I g the groundwater reticulation. How	ines that your proposed pipe will sever are you dealing with those issues?	on CR44, probably negatively affectin
A Publicly Answered		
ater levels and movement in the are control and limit groundwater mover	a. Depending on what is found, a varie nent - low strength concrete material s	done to determine the existing groundw ety of mitigation options are available to urrounding the pipe, clay collars to pre ow groundwater to move through the pi
Q Sandy Helzer		
	pipeline that the City of Thornton is pr	oposing? The route looks the same in
A Publicly Answered		
d by a different entity – Northern Wa		ne City of Thornton and being organize but the project at www.nisptalk.com/wh

QANDA

What is your question regarding the NISP Pipelines?



Csondrup

Hello, we just heard from a neighbor you are planning on putting a pipeline on our property. We live at 34310 County Road 13. We would like to discuss this with a representative. The location appears to follow our irrigation ditc h, which if torn up for a pipeline would destroy our ability to get water to our fields. Also this rout is the exact location on the City of Thornton is planning on placing their pipeline. ~Carole



Privately Answered

Thank you for your question! We would be happy to discuss the project in more detail with you in person or by ph one. Please contact me at 970-622-2231 or scecil@northernwater.org. We are aware of the irrigation ditch in the area. We typically try to cross or parallel ditches during non-irrigation time to avoid negatively impacting your prop erty during irrigation season. If the pipeline was constructed during irrigation season, the construction requirement s would include provisions to provide for temporary piping in order to maintain irrigation flows. At the completion of the pipeline construction, it is anticipated that all surface features and irrigation facilities would be returned to th eir pre-construction conditions. Regarding Thornton's proposed pipeline, we are aware that the proposed City of Thornton pipeline is indicated at a similar location/alignment as the NISP pipeline. We are continuing to coordinat e with the City of Thornton as the NISP pipeline project moves forward, although the City of Thornton's project ha s been delayed due to permitting issues with Larimer County.

406

QANDA

What is your question regarding the NISP Pipelines?



Α

Csondrup

Are you aware there is a rather large electrical line following the same rout on our property? We live at 34310 County Road 13, Windsor

Privately Answered

We are aware of and have received general information from Poudre Valley Rural Electric Association (PVREA) in n regards to their buried electric lines along the east side of County Road 13. As the design of the NISP project p rogresses, more detailed location and easement information will be obtained for the PVREA facilities and appropri ate pipeline alignment adjustments implemented to avoid conflicts with these facilities.

A question from Donna Braginetz:

Q: It's not on the maps right now, but what guarantee do we have that, in a few years, there won't be a pipeline "needed" to run through Bellvue to connect Glade to Horsetooth?

Hello,

Thank you for your question! There is no planned pipeline between the proposed Glade Reservoir and the existing Horsetooth Reservoir. This pipeline was part of previous iterations of the project but is no longer included in any current or future plans. The federal, state, and Larimer County permitting processes do not include this pipeline. In the future, If it were determined that any other pipelines were needed in the project, applicants would have to go through all required permitting processes separately

Thanks, Stephanie Cecil Project Engineer

ENGAGEMENT TOOL: PLACE

Pipeline Map

VISITORS 236	CONTRIBUTORS 3	CONTRIBUTIONS 3
2019-07-17 10:08:38 -0700	I own Fort Collins Nursery, and this map shows the pipeline going directly through the center of my property. I have not been contacted by anyone requesting permission for this. Is this route accurate, or should it be revised? What will I be compensated for allowing this to pass through my property? Address: 2007 East Mulberry Street, Fort Collins, Colorado 80524, United States http://www.nisptalk.com/water-pipelines-in-larimer-county/maps/Pipeline-Map?reportin g=true#marker-15595	
j.eastman		
CATEGORY		
Comment		
Pin		

2019-07-18 07:12:17 -0700 maxx1313	i live at 5118 west County road 56 and run my cattle in front of my house lease from t he state, just need to know if you will be impacting my pasture land since you say you need 100 feet to dig in the pipe you will be paralleling the pasture Address: Us Route 287, Laporte, Colorado 80535, United States
CATEGORY	
Comment	http://www.nisptalk.com/water-pipelines-in-larimer-county/maps/Pipeline-Map?reportin g=true#marker-15671
Pin	

2019-07-20 08:12:23 -0700	Just a question. We've received information from the City of Thornton about their wate
John Jay	r supply pipeline accessing the road in front of our home. Is this the same project, or i s this an additional pipeline? Thanks. Address: 3993 North County Road 1, Windsor, Colorado 80550, United States http://www.nisptalk.com/water-pipelines-in-larimer-county/maps/Pipeline-Map?reportin g=true#marker-15735
CATEGORY	
Comment	
Pin	3

Certain tools on the NISPtalk.com website do not allow for public response via the platform, so NISPtalk.com managers crated email replies directly to the participant.

Response to j.eastman:

Hello,

Thank you for your question: I own Fort Collins Nursery, and this map shows the pipeline going directly through the center of my property. I have not been contacted by anyone requesting permission for this. Is this route accurate, or should it be revised? What will I be compensated for allowing this to pass through my property?

The map does correctly show our preferred alignment, which is through your property. Our typical process would be to request an easement from you after the project is permitted by the federal government, and the Larimer County permitting that is ongoing. Neither of these processes is currently complete. We do negotiate with landowners, pay fair market value for easements, and try to better understand the current site usage to minimize impacts. We would be happy to meet with you to discuss the alignment, your concerns, what the typical process for acquiring easements is, etc. We'd also be happy to answer any additional questions you have.

Thanks! Stephanie Cecil Project Engineer

In response to maxx1313:

Hello, thank you for your question. At this time, we are currently working with the state to investigate the opportunity of using state ROW in this area. If this isn't feasible, the pipeline location would likely be into your pastureland. If we did request an easement from you, we would provide any sort of livestock fencing preference that you have during construction and work to minimize impacts to your pasture. We also pay for the easement and loss of pasture use while we are constructing the pipeline. Construction for this project is expected to begin in 2023 and we do not yet have final permitting approvals, so we are not yet to the point where we would be officially requesting an easement. If you'd like to discuss this in more detail or have any additional questions, feel free to call or email me to setup a meeting.

Thank you, Stephanie Cecil Project Engineer

In response to John Jay:

Hello, thank you for your question. This is a completely separate project from the City of Thornton and being organized by a different entity – Northern Water. You can find more information about the project at www.nisptalk.com/what-is-the-northern-integrated-supply-project and www.gladereservoir.org. The current plan for the alignment through this area is locating the pipeline on the east side of the county line. If you have any additional questions, please feel free to call or email me.

Thanks, Stephanie Cecil Project Engineer

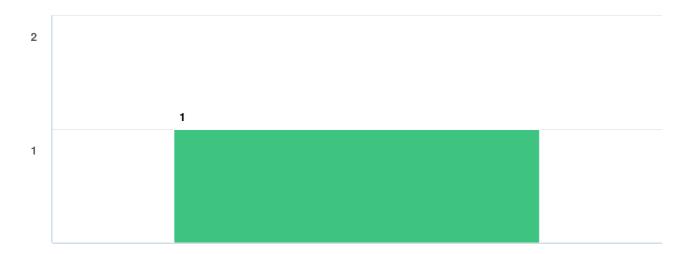
409

ENGAGEMENT TOOL: SURVEY TOOL

Request Follow Up



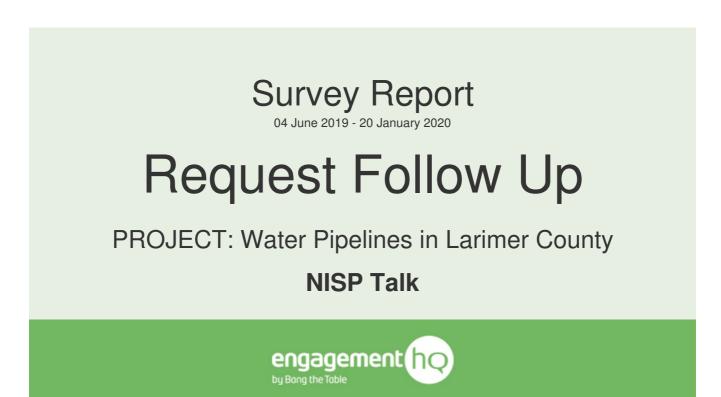
How far away is your property from the proposed pipeline route?



Question options

Less than 500 feet

(1 responses, 0 skipped)



Q1 Name:

Construction noise 7/14/2019 10:42 AM Michael Lindsay

(1 responses, 0 skipped)

Construction noise	Truck and traffic noise on Weld county Rd 13 (Larimer county Rd 1) during
7/14/2019 10:42 AM	construction. Ensure that all contractors performing work comply with
	Colorado revised statute CRS42-4-225 which requires trucks to have working
	muffler systems and working effective engine brake mufflers.

(1 responses, 0 skipped)

Certain tools on the NISPtalk.com website do not allow for public response via the platform, so NISPtalk.cm managers crafted email replies directly to the participant.

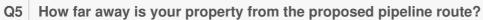
Response to Michael Lindsay from NISPtalk.com

Hello Michael,

Thank you for your request for feedback. There will be periodic increased traffic along Weld County Road 13/ Larimer County Road 1 during construction with delivery trucks bringing equipment and materials into the jobsite as well as construction equipment operating at the jobsite. All contractors performing work will be required to comply with Colorado statute CRS42-4-225 and any other revisions and requirements that could occur prior to work starting in 2023. Please let me know if you'd like to meet to discuss this concern further. Thanks and have a great day,

Stephanie Cecil, P.E. Water Resources Project Engineer 970-622-2231





					410
		Dject Rep			
Comp		SP Ta	-	ermit	
			•		
Visitors Summ	ary		Highlights		
200			VISITS 1 275 1 NEW REGISTRATION 5	MAX VISITORS DAY 2 NS	
Pa	ep '19 geviews w Registrations	1 Jan '20 Visitors Visits	visitors 4	VISITORS	VISITORS
Aware Participants	210	Engaged Participan	ts	4	
Aware Actions Performed Visited a Project or Tool Page	Participants 210	Engaged Actions Perform	ned Registered	Unverified	Anonymous
Informed Participants	48	Contributed on Forums	0	0	0
Informed Actions Performed Viewed a video	Participants 0	Participated in Surveys Contributed to Newsfeeds	0	0 0	0 0
Viewed a photo	0	Participated in Quick Polls	0	0	0
Downloaded a document	46	Posted on Guestbooks	0	0	0
Visited the Key Dates page	0	Contributed to Stories Asked Questions	0	0	0
Visited an FAQ list Page	0	Placed Pins on Places	4	0	0
Visited Instagram Page	0	Contributed to Ideas	0	0	ů O

Contributed to Ideas

36

4

BCC 08/17/20

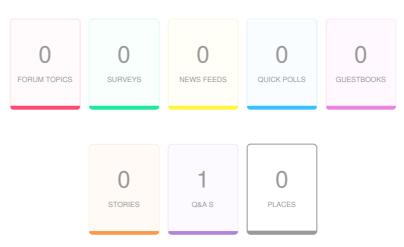
Visited Multiple Project Pages

Contributed to a tool (engaged)

0

0 0

ENGAGEMENT TOOLS SUMMARY



Tool Type	Engagement Tool Name	Tool Status	Visitors		Contributors	
		1001014140	VIBILOTO	Registered	Unverified	Anonymous
Qanda	Do you have a question regarding the 1041 permit with Lar	Published	6	4	0	0

INFORMATION WIDGET SUMMARY



Widget Type	Engagement Tool Name	Visitors	Views/Downloads
Document	NISP Public Engagement History Memo	27	32
Document	Permitting Process Overview	15	16
Document	NISP Final Environmental Impact Statement	10	13
Document	Fish and Wildlife Mitigation and Enhancement Plan	4	14
Document	deleted document from	1	1

QANDA

Do you have a question regarding the 1041 permit with Larimer County?

VISITORS 6 CONT	TRIBUTORS 4 CC	ONTRIBUTIONS 4
-----------------	----------------	----------------

ipachip

I must be the first person to log into this site. I don't see any other comments. No discussion? Seems like one of those black holes that meet legal requirements but prevent anyone else from seeing the feedback. "Why must I r egister?" That's a good question too. All that's actually required is a functioning email address. That doesn't really enforce accountability. I'm somewhat skeptical of this site. It looks like it's put here as self-service and not an actu al community forum. LOL! Like we don't all know that. Anyway, I stand to make a ton of extra money when the sit e completes, so carry on.



Publicly Answered

Thank you for your question! This project site was just launched on June 28, 2019, so we appreciate you registeri ng and being one of the first to ask questions. All feedback received on this site will be reviewed by Northern Wat er and Larimer County as part of the public record on the project. Please visit https://www.nisptalk.com/about-the-nisptalk-site to learn more about why we ask you to register to provide feedback.



Α

Joseybonner

what is the planned start date for this project and is there any possibility it can be moved to an earlier date?

Publicly Answered

Thank you for your question! The planned start date for the construction of the project is in approximately 2023. N orthern Water has been going through an extensive permitting process with federal, state, and local entities. After the permitting processes are complete, final land acquisition and design will be done to get ready for construction in 2023. Learn more about the overall NISP project at www.gladereservoir.org.

QANDA

Do you have a question regarding the 1041 permit with Larimer County?

Q

poudre1

My biggest question would be, Why? Why do these communities need this amount of water in the future? Why ca n't water conservation be enough to supply these demands? Why do these communities need to grow their popul ations to this level? Why is growth prioritized over environmental needs? There are certainly easier, less costly, I ess controversial ways to supply water to these growing communities. Why aren't those other options being looke d at?



Publicly Answered

Thanks for reaching out to us. To answer your questions, the NISP project participants anticipate that their com munities will grow in the future, which will require the development of additional water supplies. The NISP project will supply a portion of those future water needs. The NISP participants are motivated to implement and have imp lemented water conservation measures. The Participants have reduced use by nearly 30% by implementing wate r-saving measures such as public education, watering restrictions, low-flow fixture requirements, and landscaping regulations for new construction. All of the NISP participants have water conservation plans. These conservation efforts, however, will not supply enough water to meet all future needs. A Draft, Supplemental Draft, and Final En vironmental Impact Statement have been developed for the project over the past 15 years of study, which analyz e the environmental impacts of the NISP project and alternatives to that project. The details and conclusions of t hose analyses can be found at the following link: NISP Environmental Impact Statement



Memorandum

Date:July 13, 2017To:Mr. Rob Helmick – Larimer County Development PlanningFrom:Carl Brouwer, Stephanie Cecil – Northern WaterSubject:Northern Integrated Supply Project (NISP)
Larimer County Pipelines Open House

Northern Colorado Water Conservancy District (Northern Water) held an open house at the Larimer County Courthouse on June 29, 2017 from 4:30 p.m. to 7:30 p.m. Notifications for this open house were sent to all property owners within 500-feet of the proposed pipeline routes. A total of approximately 850 notifications regarding NISP and the Open House were sent out on June 8. Names, addresses, and property information was received directly from Larimer County for all pipeline routes within unincorporated Larimer County.

Prior to the open house, approximately 25 landowners contacted Northern Water personnel with questions regarding the pipeline location and impact. The primary question received was whether a person's individual property was being impacted by the project.

A total of 144 people signed in at the NISP Pipeline Open House. Most included some form of contact information. Others could have attended who did not sign in. Northern Water and Larimer County personnel were both in attendance at the open house to answer questions. Multiple handouts, posters, and large-scale maps of the pipeline areas were displayed at the open house. Northern Water received 27 comment cards from landowners at the open house. A breakdown of major areas of concern is included below:

Issue	No. of Comments*
Douglas Road Pipeline Concerns (Use Northern Route, not Douglas Road)	11
Douglas Road Traffic and Roadway Concerns	6
Northern Route Concerns (Use Douglas Road, not Northern Route)	5
Easement Width Issues	3
Safety Concerns	2
Opposed to NISP Entirely	2
Thanks for hosting open house	2
Terry Lake wetlands issues	1
Highway 14 impacts	1
Request additional NEPA Review	1

Issue	No. of Comments*
Water Quality Issues	1
Request more Public Meetings	1
Notify others, including all Terry Point residents	1
*Some cards contained multiple comments/ issues.	

Overall, the comment cards generally reflected the views of the property owners at the open house. Most property owners were worried about either the impacts to their personal property or the impacts to roadways near them. The biggest point of contention for most property owners was the discussion of the Douglas Road and northern route. Since both routes were shown as options, anyone who was directly impacted by one route preferred the alternative option. A full sign-in list and comments received can be found in the attached **Exhibit A**.

No				•				
	Last Name	First	Phone	Address	City	State	Zip Code	Email
-	Albers	Gary						
2	Albers	Allyson						
с	Allen	Richard						
4	Anderson	Jim						
S	Armstead	Sue						
9	Armstead	Steve						
7	Asbrella	Lance						
∞	Asbrella	Kimberley						
6	Bartlett	Don						
10	Baumgartner	Beth						
11	Becker	Alan						
12	Bent	Peggy						
13	Clegern	Nancy						
		_	has one entrance	e. Many of us who live the	re are getting up	o in years.	We need access	Our subdivision has one entrance. Many of us who live there are getting up in years. We need access for emergency vehicles at all times.
	רסווווופוורי		as way too much	Douglas Road has way too much traffic on it, especially big trucks, already.	g trucks, already.			
14	Conant	Martha						
		Thank you for ha	aving this open h	ouse. We strongly encour	age the northern	n route, no	ot Douglas Road	Thank you for having this open house. We strongly encourage the northern route, not Douglas Road. We would like to see Douglas Road
	Commont.		anes, etc. And we	seriously want a weight	limit on Douglas	Road. Th	ere's way too mi	improved-bike lanes, etc. And we seriously want a weight limit on Douglas Road. There's way too much truck traffic, especially with
	COMMENT:		287. All this noise	e & traffic impacts our pr	operty values as	well as or	ir enjoyment of i	construction on 287. All this noise & traffic impacts our property values as well as our enjoyment of the area- and we've been living there
		for 40 plus years.	s. Please consider	for 40 plus years. Please consider alternate truck routes. Thank you!	hank you!			
15	Conant	Dale						
16	Contino	Erin						
17	Cos	Jesse						
18	Cos	Carol						
19	Cox	Betty						
		Safety and noise (truck traffic) is	truck traffic) is	excessive. A traffic light n	eeds to be instal	lled a HW	Y 1 and Douglas	excessive. A traffic light needs to be installed a HWY 1 and Douglas Rd. The combination of heavy trucks
	Comment:		5 mph speed limi	t between Shields and HV	VY 1 is a major pı	roblem. T	hat stretch of ro	exceeding the 35 mph speed limit between Shields and HWY 1 is a major problem. That stretch of road passes through neighborhoods and
			ated as a speedw	shouldn't be treated as a speedway. There should be weight restrictions in place to stop that kind of traffic.	ht restrictions in	place to s	top that kind of	traffic.
20	Croswell	Teresa						
21	Curtis	Doug						
22	Day	Vic						
23	Day	Christine						
24	Dye	Terence					-	
25	Eastman	Gary						

26Eastman27Ed ??28Feyen28Feyen29Feyen30Fluegge31Fluegge33Gerek33Gerek34Giere35Glick36Gorder37Goswick38Hambler39Hamton41Hardy42Hebbeln43Heinrich44Higgins45Howes		Jesse Jesse I would like to know the timeline Comment: March-June would have a signific Comment: March-June would have a signific Zones/water levels, as my proper Ed ?? John J. John J. John J. John R. Chris Meg Patricia Molly Im Comment: revised route (along Douglas Rd) warrants a Suppl. EIS. What is yo HDD? Scott		for construction along the Hwy 14 frontag for construction along the Hwy 14 frontag cant impact. I also need help understandin ty is significantly impacted by flood zones. Glade Res. east to beyond I-25. Go farther new Greeley Pipeline route (south of Pour as well as any other alts. considered. This ur construction plan through 2 large wetlo	14 frontage. Junderstanding h by flood zones. 25. Go farther nc (south of Pourdrunsidered. This ne h 2 large wetlana	. My busine how the pu how the pu north-north re River thro eeds to be r ds on north	Jesse Jesse Iwould like to know the timeline for construction along the Hwy 14 frontage. My business is very seasonal, and a major disruption from Comment: March-June would have a significant impact. I also need help understanding how the pump station by Mulberry/Lemay will affect flood Zones/water levels, as my property is significantly impacted by flood zones. Impact flood Ed ?? Impact I also need help understanding how the pump station by Mulberry/Lemay will affect flood John N. Impact I also need help understanding how the pump station by Mulberry/Lemay will affect flood John R. Impact I also need help understanding how the pump station by Mulberry/Lemay will affect flood John R. Impact I also need help understanding how the pump station by Mulberry/Lemay will affect flood John R. Import I Impact I also need help understanding how the pump station by Mulberry/Lemay will affect flood John R. John R. Impact I also need help understanding how the pump station by Mulberry/Lemay will affect flood John R. John R. Impact I also need help understanding how the pump station of a full RFPA and/sis on Molly Molly Molly Impact I also not hourd I also not hourd I also not hourd of a full NEPA and/sis on Consider alternative routes from flood South of Pourder River through Laport) Need to do a full NEPA and/sis on Impact I also not hourd I also not hourd I al
Ed ?? Ed ?? Feyen Feyen Forlenza Gerek Giere Giere Hambler Hardy Heinrich Heinrich		would like to kn March-June wou enes/water leve ed ?? lohn J. Chris Meg Melly Molly Go farther south revised route (alk warrants a Suppi HDD? Scott		for construction along the <i>H</i> ant impact. I also need helt y is significantly impacted I Slade Res. east to beyond I new Greeley Pipeline route as well as any other alts. co ir construction plan throug	Hwy 14 frontage. Dunderstanding h Dyflood zones. 25. Go farther nc (south of Pourdry nsidered. This ne n 2 large wetlana	My busine iow the pu busine iow the pu busine or thruch eds to be r ths on north	ss is very seasonal, and a major disruption from mp station by Mulberry/Lemay will affect flood by ALL 4 Thornton Reservoirs (north of WSSC#3) angh Laport) Need to do a full NEPA analysis on nade available for public comment (i.e.) this end of Terry lake (southside of Douglas Rd)?
Ed ?? Feyen Feyen Feyen Forlenza Gerek Gerek Giere Giere Hamiltoi Hardy Heinrich Heinrich		March-June wou enes/water leve ed ?? lohn J. Chris Chris atricia ^a atricia lim Molly Molly Consider alterna Go farther south revised route (alt warrants a Suppi HDD? Scott	ld have a signific els, as my propert tive routes from C and parallel the i ong Douglas Rd) (I. ElS. What is you	ant impact. I also need help y is significantly impacted I alade Res. east to beyond I new Greeley Pipeline route as well as any other alts. co ur construction plan throug	by flood zones.	iow the pu	mp station by Mulberry/Lemay will affect flood affect flood affect flood by ALL 4 Thornton Reservoirs (north of WSSC#3) and Laport) Need to do a full NEPA analysis on nade available for public comment (i.e.) this end of Terry lake (southside of Douglas Rd)?
Ed ?? Feyen Feyen Fluegge Forlenza Gerek Gerek Giere Giere Hamilton Hamilton Hardy Heinrich Hewes	Comment:	id ?? Iohn J. Iohn R. Chris Chris Arricia Patricia im Molly Molly Consider alternai Go farther south revised route (alt warrants a Suppi HDD? Scott	tive routes from Canadian the I	y a cost of the second of the	25. Go farther no (south of Pourdrund) h 2 large wetlana	e River thru	of Terry lake (southside of Douglas Rd)?
Feyen Feyen Fluegge Fluegge Gerek Gerek Giere Giere Goswick Hambler Hardy Heinrich Heinrich	Comment:	ohn J. ohn J. Chris Chris Meg atricia im Molly Molly Consider alterna Go farther south revised route (alt warrants a Suppu HDD? Scott Scott	tive routes from (and parallel the bug Douglas Rd) (. EIS. What is you	Slade Res. east to beyond I new Greeley Pipeline route as well as any other alts. co ur construction plan throug		orth-north e River thru is on north	of ALL 4 Thornton Reservoirs (north of WSSC#3) of ALL 4 Thornton Reservoirs (north of WSSC#3) ugh Laport) Need to do a full NEPA analysis on nade available for public comment (i.e.) this end of Terry lake (southside of Douglas Rd)?
Feyen Fluegge Forlenza Gerek Gerek Giere Giere Goswick Hambler Hambler Hardy Heinrich Howes	Comment:	lohn R. Chris Chris Vleg Patricia lim Molly Consider alternai Go farther south revised route (alk warrants a Suppi HDD? Scott Scott	tive routes from (and parallel the Douglas Rd) (I. EIS. What is you	Slade Res. east to beyond I new Greeley Pipeline route as well as any other alts. co ur construction plan throug	-25. Go farther nc (south of Pourdr nsidered. This ne h 2 large wetlana	e River thrace	of Terry lake (southside of Douglas Rd)?
Fluegge Fluegge Forlenza Gerek Giere Giere Giere Glick Glick Glick Glick Hambler Hardy Heinrich Heinrich Howes	Comment:	Chris Meg Datricia Iim Molly Consider alternan Go farther south revised route (alt warrants a Suppi HDD? Scott Scott	tive routes from (and parallel the <i>i</i> ong Douglas Rd) (. EIS. What is you	Slade Res. east to beyond I new Greeley Pipeline route as well as any other alts. co ur construction plan throug	-25. Go farther nc (south of Pourdr nsidered. This ne h 2 large wetlana	orth-north e River thru ds on north	of ALL 4 Thornton Reservoirs (north of WSSC#3) of ALL 4 Thornton Reservoirs (north of WSSC#3) ugh Laport) Need to do a full NEPA analysis on nade available for public comment (i.e.) this end of Terry lake (southside of Douglas Rd)?
Fluegge Forlenza Gerek Giere Giere Giere Hambler Hambler Hardy Herdy Heinrich Heinrich Howes	Comment:	vieg Patricia Patricia Ilim Volly Consider alterna Consider alterna Consider alterna Consider alterna Scott Scott Rosemary	tive routes from (and parallel the ong Douglas Rd) (I. EIS. What is you	Slade Res. east to beyond l new Greeley Pipeline route as well as any other alts. co ir construction plan throug		arriver thrapped and arriver thrapped arriver thrapped arriver thrapped arriver thrapped arriver arriv	of Terry lake (southside of Douglas Rd)?
Forlenza Gerek Giere Giere Giere Glick Glick Gorder Hambler Hardy Hebbeln Heinrich Howes	Comment:	² atricia lim Molly Consider alternai 50 farther south revised route (alt warrants a Suppi HDD? Scott Scott	tive routes from (and parallel the i ong Douglas Rd) (I. EIS. What is you	Slade Res. east to beyond I new Greeley Pipeline route as well as any other alts. co ur construction plan throug	25. Go farther nc (south of Pourdrunsidered. This ne h 2 large wetlana	e River thract	of Terry lake (south of WSSC#3) by ALL 4 Thornton Reservoirs (north of WSSC#3) ugh Laport) Need to do a full NEPA analysis on nade available for public comment (i.e.) this end of Terry lake (southside of Douglas Rd)?
Gerek Giere Glick Glick Glick Hambler Hambler Hardy Hebbeln Heinrich Howes	Comment:	iim Molly Consider alternai Go farther south revised route (alt warrants a Suppl HDD? Scott Scott	tive routes from (and parallel the i ong Douglas Rd) (. EIS. What is you	Slade Res. east to beyond I new Greeley Pipeline route as well as any other alts. co ir construction plan throug	-25. Go farther nc (south of Pourdr insidered. This ne h 2 large wetlana	orth-north e River thro eds to be r ds on north	of ALL 4 Thornton Reservoirs (north of WSSC#3) angh Laport) Need to do a full NEPA analysis on nade available for public comment (i.e.) this end of Terry lake (southside of Douglas Rd)?
Giere Glick Gorder Hambler Hardy Heinrich Heinrich Howes	Comment:	Violly Consider alternat So farther south evised route (alc warrants a Suppl HDD? Scott Rosemary	tive routes from (and parallel the i ong Douglas Rd) (! EIS. What is you	Glade Res. east to beyond I new Greeley Pipeline route as well as any other alts. co ir construction plan throug	25. Go farther no (south of Pourdra nsidered. This ne h 2 large wetlana	rth-north prth-north e River thrc eds to be r fs on north	of ALL 4 Thornton Reservoirs (north of WSSC#3) ough Laport) Need to do a full NEPA analysis on nade available for public comment (i.e.) this end of Terry lake (southside of Douglas Rd)?
Glick Glick Gorder Hambler Hardy Hebbeln Heinrich Howes	Comment:	Consider alternat Go farther south evised route (alc warrants a Suppl HDD? Scott Rosemary	tive routes from C and parallel the I ang Douglas Rd) c I. EIS. What is you	slade Res. east to beyond I new Greeley Pipeline route as well as any other alts. co ar construction plan throug ar construction plan throug	-25. Go farther no (south of Pourdru nsidered. This ne h 2 large wetlana	e River thro e River thro eds to be r s on north	of ALL 4 Thornton Reservoirs (north of WSSC#3) ugh Laport) Need to do a full NEPA analysis on nade available for public comment (i.e.) this end of Terry lake (southside of Douglas Rd)?
Glick Glick Gorder Hambler Hambler Hardy Hebbeln Heinrich Howes	Comment:	30 farther south evised route (alc warrants a Suppl HDD? Scott Rosemary		new Greeley Pipeline route as well as any other alts. co ır construction plan throug	(south of Pourdre nsidered. This ne h 2 large wetlana	eds to be r s on north	ugh Laport) Need to do a full NEPA analysis on nade available for public comment (i.e.) this end of Terry lake (southside of Douglas Rd)?
Glick Gorder Goswick Hambler Hardy Hebbeln Heinrich Howes	Comment:	evised route (alc warrants a Suppl 4DD? Scott Rosemary	ong Douglas Rd) (I. EIS. What is you	as well as any other alts. co ir construction plan throug	nsidered. This ne h 2 large wetlana	eds to be n ls on north	ade available for public comment (i.e.) this end of Terry lake (southside of Douglas Rd)?
		<i>warrants a Suppl</i> 4DD? Scott Rosemary	l. EIS. What is you	ır construction plan throug	h 2 large wetlana	ls on north	end of Terry lake (southside of Douglas Rd)?
		<i>HDD?</i> Scott Rosemary					
	× 5 5	Scott Rosemary					
	× -: 5	Rosemary					
					-		
		Judy					
		Sam					
		Doug					
	1	Pat					
		Chris					
		Jim					
		John					
		We live one hous	e north of the pro	oposed Northern Pipeline r	oute through Eag	le Lake. I c	We live one house north of the proposed Northern Pipeline route through Eagle Lake. I certainly hope that the county, Thornton and NISP
	Comment.	can align their in	terests and choos	se the southern route along	ו Douglas Rd. If t	he northeri	can align their interests and choose the southern route along Douglas Rd. If the northern route is chosen it will be over the violent
		objections and pi	robable legal acti	ion from the residents of Ec	igle Lake who do	not want t	objections and probable legal action from the residents of Eagle Lake who do not want to have their neighborhood disrupted to serve the
	'	interests of other cities.	r cities.				
		Kathyrn					
		Mark					
_	Comment:	Thank you for pri	oviding much nee	eded info! Our home will be	within 200' of lir	ne, not real	Thank you for providing much needed info! Our home will be within 200' of line, not really opposed to said pipeline just want to know just
		what to look jorwara to.	vara to.				
		Linda					
47 Hulls	-	Ed	_			_	

Page 2 of 7

McCluskey Messana Mohr Morgan	Caroline						
lessana Iohr Iorgan							
lohr lorgan	Robert						
lorgan	Scott						
	Roger						
	The proposed no	The proposed northern alignmen	t through the Lockland Par	k Subdivision is	absolute.	ly unaccepto	t through the Lockland Park Subdivision is absolutely unacceptable. Why involve a residential
Comment.		hen the City of T	hornton has undeveloped l	and within 600	feet and	the pipeline	neighborhood when the City of Thornton has undeveloped land within 600 feet and the pipeline would impact none of the Lockland Park
		emely short sight	ed proposal and alienates c	ounty folks tha	t general	'ly support tl	residences. Extremely short sighted proposal and alienates county folks that generally support the NISP project. Thanks for your consideration
Morris	Cyndi						
Morrison	Judy						
Nichols	Dave						
	Douglas Rd will t	be developed ove	er the next 10 years into a c	lense residentia	l corridoi	. The Eagle	Douglas Rd will be developed over the next 10 years into a dense residential corridor. The Eagle Lake northern routing will both effect far
Comment.		now and in the f	uture. Once created this co	ridor could be i	ısed agaı	in for additio	fewer residence now and in the future. Once created this corridor could be used again for additional projects. Saving the county and few
		vement dollars a	t the price to so many curre	nt property ow	ners is no	t a good dei	unknown improvement dollars at the price to so many current property owners is not a good deal. The truck traffic issue will be pulled into
	this process by some (us).	ome (us).					
Nicol	Elisabeth						
Nicol	Mazgaret						
Nooman	John						
Nooman	Roberta						
Norby	Ron						
Oberg	Paul						
Oberle	Matt						
Ownby	Carol						
Pault	Jerry						
Comment:		Cobb Lake - Hom	eowners will be impacted t	y pipeline and	'equest a	meeting wi	The Hill HOA @ Cobb Lake - Homeowners will be impacted by pipeline and request a meeting with our HOA (60 homes) + 23 future.
Poulster	David						
Pennington	Susan						
Price	Hugh						
Comment:		e Douglas Rd rou Point and other	l hope that if the Douglas Rd route is used that Northern Water, Larimer County Thornton can coordin impact on Terry Point and other neighborhoods which are totally dependent on Douglas Rd for access.	iter, Larimer Co otally dependen	unty Tho t on Dou	rnton can cc glas Rd for c	l hope that if the Douglas Rd route is used that Northern Water, Larimer County Thornton can coordinate these projects to minimize impact on Terry Point and other neighborhoods which are totally dependent on Douglas Rd for access.
Price	Lilly						
Rock	Charlie						
Rock	Sara						
Schafer	Jim						
Schafer	Allyson						

Exhi	Exhibit A		Dhone	, , , , , , , , , , , , , , , , , , ,		Ctato	7:- 0,040	[[]
				Auuress	CILY	סומופ	zip coue	CIIIdII
44		Nate						
100	Schroyer	Steve						
101	Sheaman	Kerry						
		Talking to repres	entatives here th	ieir concern is water qualit	y east of the int	erstate a	ifter it runs t	Talking to representatives here their concern is water quality east of the interstate after it runs through town. The interruption of people
	Comment:		construction will	be very high for a pipeline	compaired to p	utting a	water treatn	lives and cost of construction will be very high for a pipeline compaired to putting a water treatment plant in on the east side of I-25. The
			o be treated any	ways before human consui	mption. Compar	e this to	what other 3	water will have to be treated anyways before human consumption. Compare this to what other states do to water and where they acquire
		it. It cannot be a	ll that polluted aj	it. It cannot be all that polluted after it runs through Fort Collins, consider this please.	illins, consider th	nis pleas	0	
102	Shelley	Sean						
103	Sherwood	Grant						
104	Sherwood	Pat						
105	Shoette	Missy						
106	Siano	Pricilla						
107	Simonetti	Robert						
108	Simonetti	Deb						
109	Sjoberg	An						
110	110 Skurich	Darrell						
111	Smith	Jim						
112	Spauling	Dian						
	Commont.	Although I live o	utside of the pipe	line route, I feel the impac	t (potential) on	the prop	erty of many	Although I live outside of the pipeline route, I feel the impact (potential) on the property of many of my friends up north. I believe in the
		scientific studies	which discuss th	scientific studies which discuss the large impact on our whole community in a negative way.	le community in	a negat	ive way.	
113	Stampfli	Wendell						
		Safety is a major	concern for Dou	glas Rd. between Shields a	nd Highway One	e. Truck	and general	Safety is a major concern for Douglas Rd. between Shields and Highway One. Truck and general traffic is excessive! Noise is a major
	Comment:	Comment: concern as is safety. Traffic light	ety. Traffic light r	needs to be installed at Dou	uglas Rd and Hig	ghway O	ne. Numerou	needs to be installed at Douglas Rd and Highway One. Numerous accidents occur. Very Dangerous for
111	Ctamofli	Dicycle (1 u))/c 110ge graver (1 ucks	קב קומעבו נומראז					
115		Rod						
116		Charmaine						
117	Steadman	Richard						
118	Stuntz	Chip						
119	Stuntz	Patti						
120	120 Sullivan	Brian						
121	Sullivan	Muniqre						
122	Sunness	Eric						
123	Swenson	Karl						
124	Tate	Cynthia						
	Comment:	Comment: Douglas Dr route is preferable-it	e is preferable-it o	appears this route would impact less residential land. Thank you for your consideration.	npact less reside	ential lar	id. Thank yoi	ı for your consideration.

Exhibit A No. 125 Tate	Last Name	First Scott Drefer Douglas R	Phone	Address	City	State	Zip Code	Email
126	Terry comment.	Prejer Douglus Nu piun. Nancy	ia pian.					
127	Terry	Kristofer T						
128	Terry Terry	George Tarry						
130	Tetter	Phil						
131	Utzman-Nichols	Lynn						
		I strongly encou	rage you to choo	se an alternate route rather	r than Douglas	Rd. Dou	glas road is h	l strongly encourage you to choose an alternate route rather than Douglas Rd. Douglas road is higher population density and with
		proposed housin	ig projects at Dou	uglas and Turnberry and els	ewhere, it will	be even	more heavily	proposed housing projects at Douglas and Turnberry and elsewhere, it will be even more heavily traveled. Putting the pipeline there will
	Comment.		onvenience for tri on on Douglas an	lousanas of residents. we u d we feel that it is very shor	naerstana tne rt sighted. Dou	aavanta glas is al	ges of the cou ready carryin	cause major inconvenience for thousanas of residents. We understand the advantages of the county saving > to piggy back road repairs/expansion on Douglas and we feel that it is very short sighted. Douglas is already carrying the load of unnecessary truck traffic and
			ding it is basicall nd should not be	y co directly if CDOT funds c used as one or uparaded to	are involved inv o me! It is not t	viting a l. he soluti	ot more traffi on to heavier	car traffic expanding it is basically co directly if CDOT funds are involved inviting a lot more traffic to use the road. It is a country road and not a hiahwav and should not be used as one or uparaded to me! It is not the solution to heavier traffic up north. Cars. fine. out of state 18
		wheelers and se	veral dozen Mart	in Marietta trucks a day is i	not appropriat	e and hi <u>ç</u>	thly undesira	wheelers and several dozen Martin Marietta trucks a day is not appropriate and highly undesirable. NO to Douglas all around!!
132	Verstraeten	George						
133	Verstraeten	Cathy						
134	134 Wagie	Dave						
		We need to have	e a public meetin	g (multiple) as this process	progresses, so	we can t	informed a	We need to have a public meeting (multiple) as this process progresses, so we can be informed and ask questions. We thought this "open bound" multiple committee and 0 of the most states of Control of the most states of the most states of the most
	Comment:	they are only 10	ciuae a presentat 0'- 400' from Dou	נוסח מחם ע & א. ואומחץ סן my ualas Rd. All the folks living	/ neignbors on on Terry Point	Laptain Dry, Swc	ut ana Point I In Lane, and (nouse would include a presentation and Q & A. Many of my neignbors on captain Ct and Point Dry aid not receive the NISP letter and Comment: they are only 100'- 400' from Douglas Rd. All the folks living on Terry Point Dry, Swan Lane, and Canadian Parkway will be affected (even if
		more than 1000	' from Douglas) b	more than 1000' from Douglas) because there is only ONE entrance to Douglas Rd. Send them a mailer please.	ntrance to Dou	glas Rd.	Send them a	mailer please.
135	Wagie							
		We thought this		eting. It was not organized	and no one mc	ide a sta	tement. We r	We thought this was a public meeting. It was not organized and no one made a statement. We need a public meeting to discuss this and
		be able to express our concerns.	ss our concerns. I	We have many senior citize	n in our comm	unity and	l only one acc	We have many senior citizen in our community and only one access to Douglas Rd. This needs to be put in
	comment:	Jurtner nortn wr	iere it won't ejjed	ct so many people for such o	a long time. NC	JIE: PIEG	se adaress W	comment: further north where it won't effect so many people for such a long time. NULE: Please agaress why many people (18 that we know of)
		were not notified of this of	d of this open hou alas Boad	use and they were located v	within the 1,00	o ft. Whi	at about all th	were not notified of this open house and they were located within the 1,000 ft. What about all the people who's only access is a road that
136	Weiner	Daniel						
137	Weiner	Jesse						
138	Wensman	Pat						
139	Wittreid	Ken						
	Comment:		Keep the pipeline north of Douglas Rd. Th have such an impact in our neighborhood	as Rd. There is less developri borhood.	nent in that ar	ea and lƙ	sss people wo	Keep the pipeline north of Douglas Rd. There is less development in that area and less people would be affected. We would be worried to have such an impact in our neighborhood.

Exh	Exhibit A							
No.	Last Name	First	Phone	Address	City	State	Zip Code	Email
140	140 Wittreid	Yvonne						
		The pipe should	be placed as far r	orth away from Douglas F	Rd. as possible.	There is l	ess density and	The pipe should be placed as far north away from Douglas Rd. as possible. There is less density and not as many homes further north.
	Comment:	We're afraid of i	't! Evertyime a dis	scussion comes up-you aim	at Douglas Rd.	. (leave it	alone!) Please	Comment: We're afraid of it! Evertyime a discussion comes up-you aim at Douglas Rd. (leave it alone!) Please do not put such a dangerous situation
		so close to people! Thank You!	le! Thank You!					
141	141 Womack	Lucinda						
		Please continue	to hold sessions t	to keep the public and land	owners in the	now. I hu	ave concerns a	Please continue to hold sessions to keep the public and landowners in the know. I have concerns about the Poudre River level continuing to
	Commont.		her this will have i	impact on wildlife that dep	end on the ??	Corridor.	I also have cor	lower and whether this will have impact on wildlife that depend on the ?? Corridor. I also have concerns on how much this will effect the
			erbend Ponds", pa	irticular the migratory pop	ulation. Please	continue	the work with	wetland of "Riverbend Ponds", particular the migratory population. Please continue the work with county, city and State Wildlife officials
		in consideration.	in considerations of these concerns. Thank you.	ns. Thank you.				
142	142 Zaloudek							
		Our property bo	rders Douglas Rd.	. Please keep us up to date	on decisions a	s I expect	it will seriousl	Our property borders Douglas Rd. Please keep us up to date on decisions as I expect it will seriously effect our home value and quality of
	Comment:	life. We built ou	r house 40 years ι	ago but fear we will be forc	sed to move to	maintain	the peace and	Comment: life. We built our house 40 years ago but fear we will be forced to move to maintain the peace and quiet we chose this location for.
143	143 Zapert	Jim						
144	144 Zigray	Ryan						



MEMORANDUM

To:Mr. Rob Helmick: Larimer County Development PlanningFrom:Carl Brouwer, Stephanie Cecil, Christie Coleman: Northern WaterDate:October 25, 2019Subject:Northern Integrated Supply Project (NISP)Larimer County Intergovernmental Agreement October 9 Open House Feedback

The Northern Colorado Water Conservancy District (Northern Water) held an open house at the Drake Center in Fort Collins on October 9, 2019 from 6:00 p.m. to 9:00 p.m. Notifications for this open house were sent to:

- Properties and property owners within 500-feet of the proposed pipeline routes
- Properties and property owners within 500-feet of the proposed U.S. Highway 287 relocation
- Properties and property owners in the Bonner Peak Neighborhood
- Properties and property owners within 1 mile of either Glade Reservoir or the associated recreation area

A total of approximately 1,233 notifications regarding NISP and the Open House were sent out on September 19. Names, addresses, and property information for these notifications was taken from the Larimer County Accessor's Parcel Database. The Loveland Reporter Herald, Longmont Times Call, The Fence Post, and KUNC also had articles or segments advertising the open house. The Open House was also advertised on the project's on-line public engagement platform (NISPTalk.com), Northern Water social medial channels, and Northern Water's electronic newsletters.

A total of 95 people signed in at the NISP Open House. Most provided some form of contact information. It is believed that for most couples or families, only one person signed in, and others could have attended who choose not to sign in. Northern Water personnel staffed the open house to answer questions, and some Larimer County personnel attended as well. Multiple handouts, posters, and large-scale maps of the pipeline areas were displayed at the open house. Information explaining the NISP Project, the U.S. Highway 287 relocation, proposed pipeline alignments in Larimer County, proposed recreation options at Glade Reservoir, and the content and scope of the proposed Intergovernmental Agreement with Larimer County were presented.

430

lssue		No. of Comments*
U.S. Highway	Requests for information on road alignment	2
287 Relocation	Suggested alternative U.S. Highway 287 configurations	3
Pipelines	Damage or impact to property from construction	2
	Opposition to pipelines entirely	1
	Suggested alternative pipeline alignments	3
Recreation	Support for camping	7
	Support for fishing	10
	Support for recreation plan	2
	Support for trails	15
	Support for picnic pavilion	3
	Support for boating	8
	Concerns regarding noise and impacts from motorized boating	10
	Suggested boat ramp locations and configuration	3
	Suggested trial and trail-head configurations	3

Northern Water received 32 comment cards from the open house. A breakdown of major comment themes is included below:

*Some cards contained multiple comments/ issues.

Overall, the comment cards generally reflected the views of the public at the open house. There was support for all proposed types of recreation at Glade Reservoir. However, multiple people expressed concern over noise associated with motorized boating and the desire to allow only wakeless or electric watercraft on the reservoir. U.S. Highway 287 relocation comments tended to be focused on the desire for more information on the location and extent of that portion of the project. The project's on-line public engagement platform (NISPTalk.com) will be updated to provide an interactive map showing that information. Finally, most pipeline comments reflected concern about impacts to personal property or impacts to nearby roadways.

The complete sign-in list and the comment cards from the open house can be found in attachments to this memo.

Public Comments NISP Open House Larimer County, October 9, 2019

287 Realignment

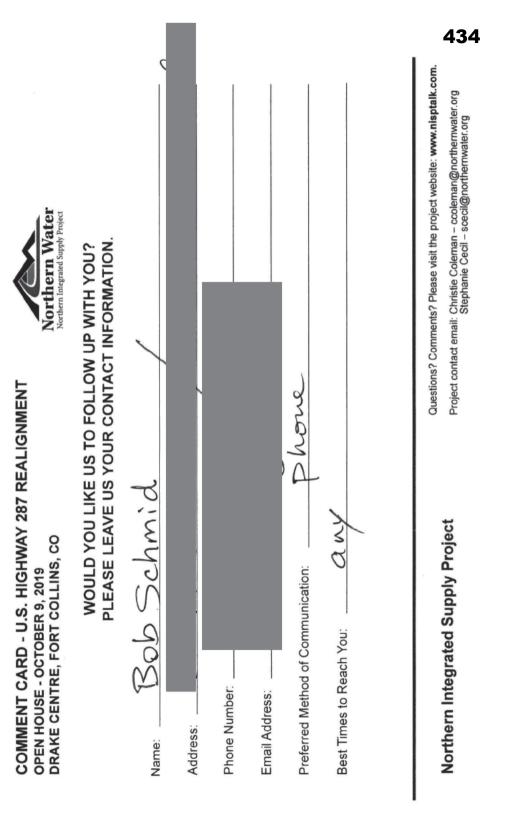
S. HIGHWAY 287 REALIGNMENT R9, 2019 COLLINS, CO WOULD YOU LIKE US TO FOLLOW UP WITH YOU? PLEASE LEAVE US YOUR CONTACT INFORMATION.							Questions? Comments? Please visit the project website: www.nisptalk.com. Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org
COMMENT CARD - U.S. HIGHWAY 287 REALIGNMENT OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTRE, FORT COLLINS, CO WOULD YOU LIKE US TO FOLLC PLEASE LEAVE US YOUR CONTA	Name: Matt Oberle	Address:	Phone Number:	Email Address:	Preferred Method of Communication:	Best Times to Reach You:	Northern Integrated Supply Project

VT Northern Water Northern Integrated Supply Project	DOMMENTS Novel Lice to have	or Km2/KmL Files provided to public, proposed route of Hwy 237 reacismont.	topography of the area. Concerned about	. of have road.	Questions? Comments? Please visit the project website: www.nisptalk.com Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org
COMMENT CARD - U.S. HIGHWAY 287 REALIGNMENT OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTRE, FORT COLLINS, CO	Hwy 28-	Arc (015 or Km2/KmL File. Showing pruposed rove of	in the	NOISE and light pollution to of have road.	Oue Proj Proj Proj Proj Proj Proj Proj Proj

BCC 08/17/20

433

ï



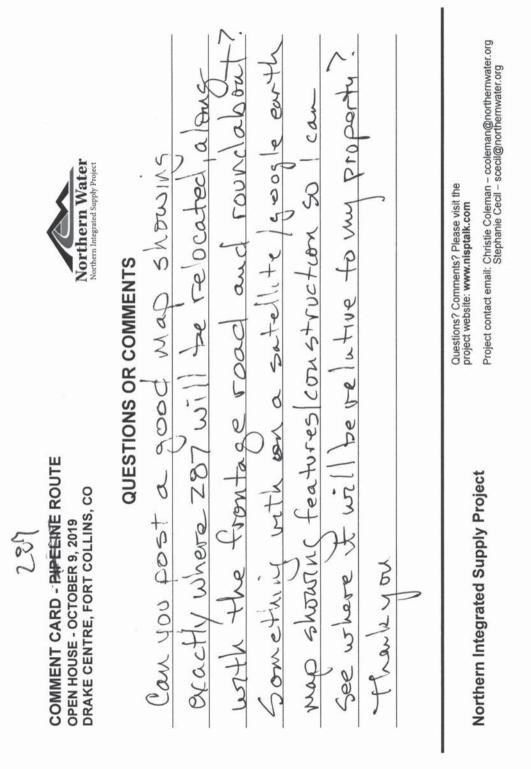
Northern Mater Northern Integrated Supply Project	NTS	th regard to Ils subdivision	Questions? Comments? Please visit the project website: www.nisptalk.com Project contact email: Christie Coleman – ccoleman@northerrwater.org Stephanie Cecil – scecil@northerrwater.org
COMMENT CARD - U.S. HIGHWAY 287 REALIGNMENT OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTRE, FORT COLLINS, CO	QUESTIONS OR COMMENTS	Would like to talk all 387 realignment with Kremers Indian Hills (Kremers Lave)	Questions? Con Northern Integrated Supply Project

NISP

435

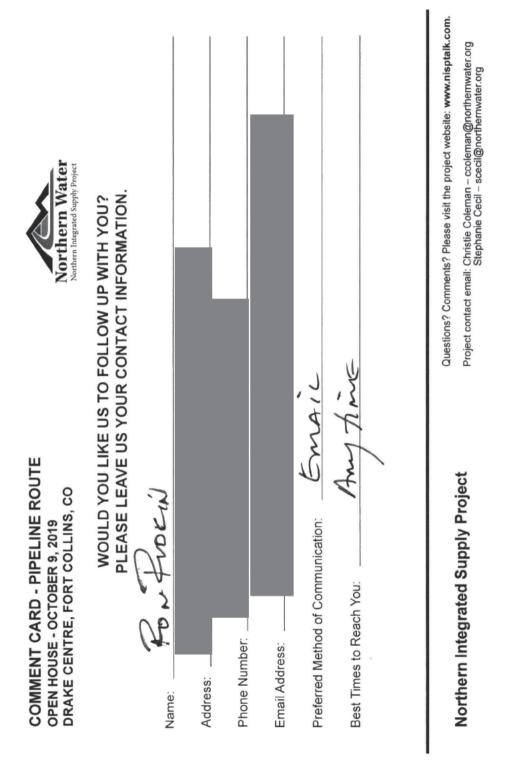
.

ï.



BCC 08/17/20

NISP



NISP

Northern Mater Northern Integrated Supply Project		thospert No.			Questions? Comments? Please visit the project website: www.nisptalk.com Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org
COMMENT CARD - PIPELINE ROUTE OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTRE, FORT COLLINS, CO		1042 ALIGHTICAT ON			Question project v Project o
BCC 08/17	/20				NISP

Lon Boehmer

Phone:

Attended open house on 10/9 but did not get a chance to fill out comment card.

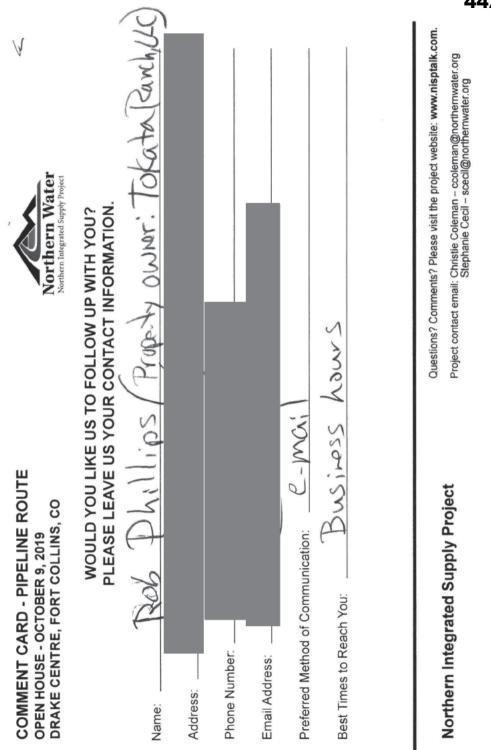
Comments taken by Stephanie Cecil by phone on 10/11/2019.

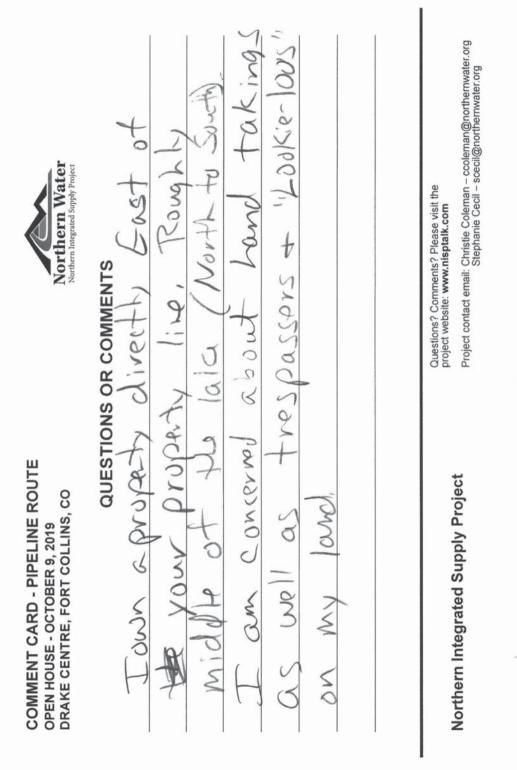
Comments on Roundabout 287 – Location of roundabout should be shifted southeast to Overland Trail area intersection. Benefits:

- 1) Tie-in Overland Trail Transition instead of having to do another project to reconfigure the Overland Trail intersection. This intersection is not safe and has had many accidents and deaths over the years.
- 2) Not as much change in topography easier to design if located at the flatter location.

Public Comments NISP Open House Larimer County, October 9, 2019

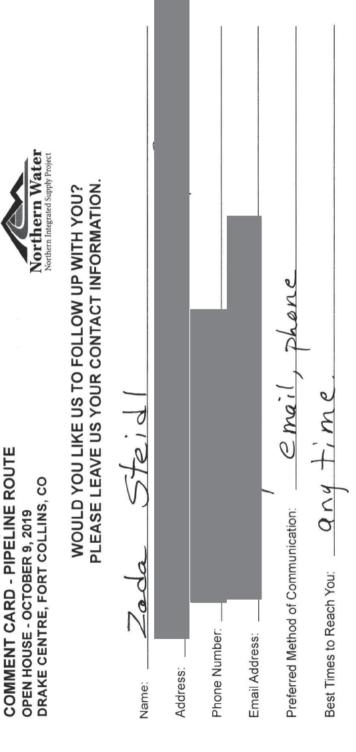
Pipeline Route





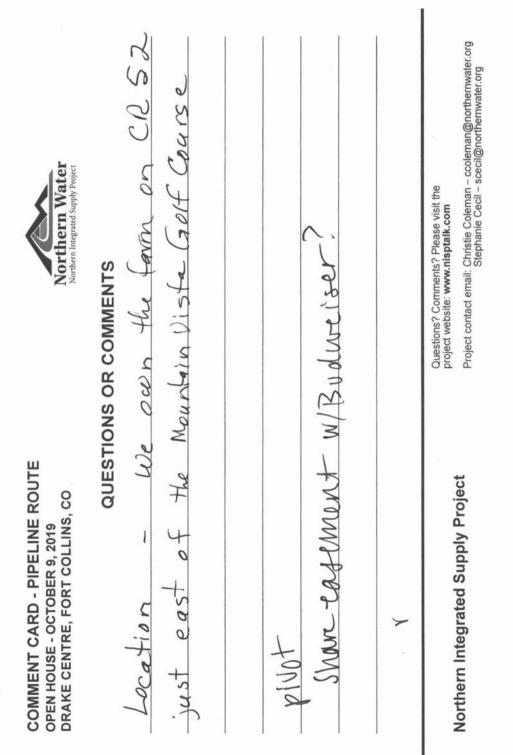
BCC 08/17/20

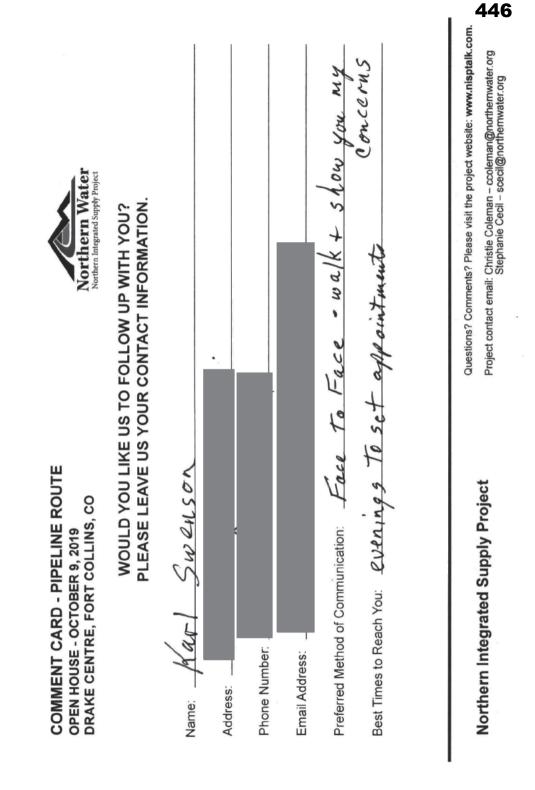
NISP





NISP

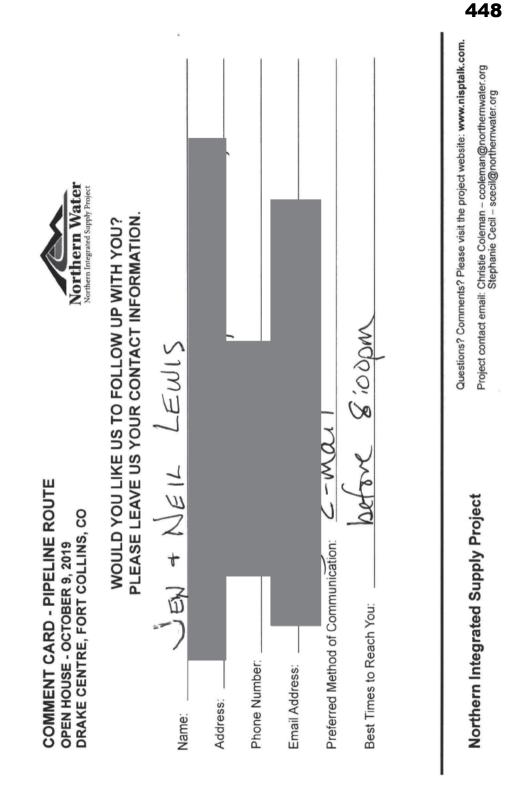


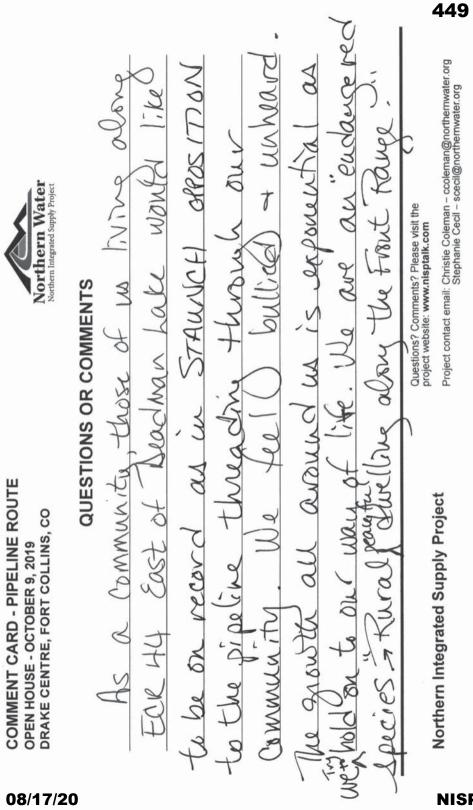


447 property damaged by pipe instalation Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org Oropenty 101 Tru t wind break that would change water \$ 1000 under my Hidden irrigation Dipe that was put in Northern Water Northern Integrated Supply Project + provideing water To make grad growwater flow - cutting Questions? Comments? Please visit the project website: www.nisptalk.com Property recorded on lariner Co utility pland QUESTIONS OR COMMENTS concrete deter my road, utilities **COMMENT CARD - PIPELINE ROUTE** Northern Integrated Supply Project ground 6 DRAKE CENTRE, FORT COLLINS, CO Re vegestation OPEN HOUSE - OCTOBER 9, 2019 to Bonege Concerns Affed

BCC 08/17/20

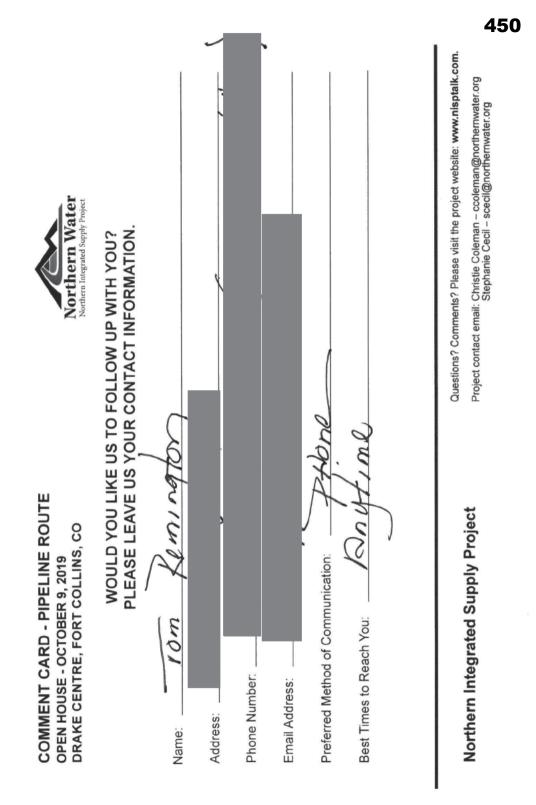
NISP





BCC 08/17/20

NISP

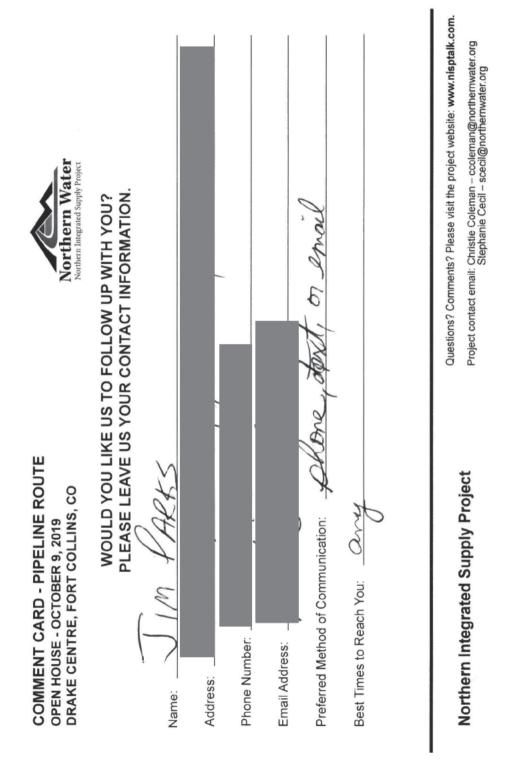


	6	451
Northern Water Northern Integrated Supply Project	R COMMENTS Lie alignment between Minio Road, Bord in Polyn	Questions? Comments? Please visit the project website: www.nisptalk.com Project contact email: Christie Coleman - ccoleman@northernwater.org Stephanie Cecil - scecil@northernwater.org
COMMENT CARD - PIPELINE ROUTE OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTRE, FORT COLLINS, CO	Recommendations of country into the second s	Northern Integrated Supply Project

BCC 08/17/20

Northern Water Northern Integrated Supply Project	WOULD YOU LIKE US TO FOLLOW UP WITH YOU? PLEASE LEAVE US YOUR CONTACT INFORMATION.	E					Questions? Comments? Please visit the project website: www.nisptalk.com. Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org
COMMENT CARD - PIPELINE ROUTE OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTRE, FORT COLLINS, CO	WOULD YOU LIKE US TO PLEASE LEAVE US YOUF	Name: MIKE LONGMORE	Address:	Email Address:	Preferred Method of Communication:	Best Times to Reach You:	Northern Integrated Supply Project

2				- PRODUCTION		1	45
Northern Integrated Supply Project		PIPELINE - SKIP	PERTRIC FSMENIC	THAT PRO			Questions? Comments? Please visit the project website: www.nisptalk.com Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org
Northe	QUESTIONS OR COMMENTS	OF PIPE	H4DRO	COMPANY USE	NECT		Questions? Comments? Please visit the project website: www.nisptalk.com Project contact email: Christie Coleman Stephanie Cecil -
PIPELINE ROUTE ER 9, 2019 T COLLINS, CO	QUESTIO	DIA METER	OR EVER	L K	OR PRO		Supply Project
COMMENT CARD - PI OPEN HOUSE - OCTOBEI DRAKE CENTRE, FORT		TRIPLE D	RESERVO	NEW POW	TO PAY F		Northern Integrated Supply Project



Northern Water Northern Integrated Supply Project				Questions? Comments? Please visit the project website: www.nisptalk.com Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org
Northern	QUESTIONS OR COMMENTS			Questions? Comments? Please visit the project website: www.nisptalk.com Project contact email: Christie Coleman Stephanie Cecil –
COMMENT CARD - PIPELINE ROUTE OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTRE, FORT COLLINS, CO	QUESTIONS			Northern Integrated Supply Project

NISP

NISP Open House Public Comments

2019 6 October -arimer County,

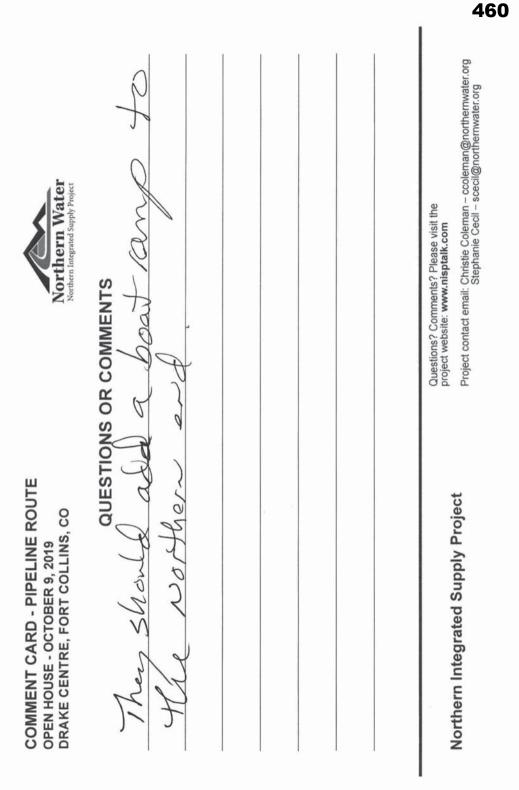
Recreation Area

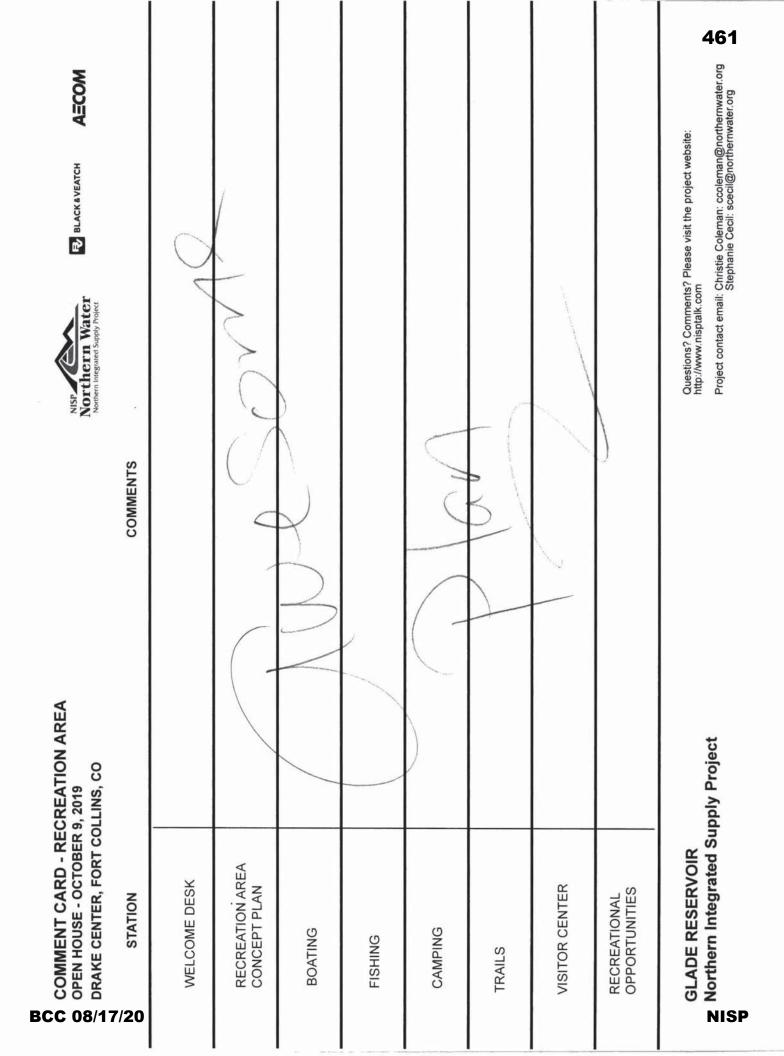
Northern Water Northern Integrated Supply Project	0₩ UP WITH YOU? \CT INFORMATION.							Questions? Comments? Please visit the project website: www.nisptalk.com. Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org
COMMENT CARD - U.S. HIGHWAY 207 REALIGNMENT OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTRE, FORT COLLINS, CO	WOULD YOU LIKE US TO FOLLOW UP WITH YOU? PLEASE LEAVE US YOUR CONTACT INFORMATION.	Name: Vanessa Stalla	Address:	Phone Number:	Email Address:	Preferred Method of Communication:	Best Times to Reach You:	Question Outhern Integrated Supply Project Project

Northern Water Northern Integrated Supply Project	ENTS	(Reservent) . Beautren)	cprided.		Questions? Comments? Please visit the project website: www.nisptalk.com Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org
COMMENT CARD - U.S. HIGHWAY 287 REALIGNMENT OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTRE, FORT COLLINS, CO	QUESTIONS OR COMMENTS		Whith Moundain Views For computed.		Questions? Project webs Project cont

.

Northern Water Northern Integrated Supply Project	WOULD YOU LIKE US TO FOLLOW UP WITH YOU? PLEASE LEAVE US YOUR CONTACT INFORMATION.						Questions? Comments? Please visit the project website: www.nisptalk.com. Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org
COMMENT CARD - PUPELINE ROUTE OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTRE, FORT COLLINS, CO	Name:	Address:	Phone Number:	Email Address:	Preferred Method of Communication:	Best Times to Reach You:	Northern Integrated Supply Project





COMMENT CARD - RECREATION AREA OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTER, FORT COLLINS, CO	Northern Water Northern Water
RECREATION AREA PLANNING QUESTIONS	PLEASE SCORE WITH 1 BEING LOW AND 10 BEING HIGH
HOW IMPORTANT IS BOATING AT GLADE RESERVOIR TO YOU?	1 2 3 4 5 6 7 8 9 10
HOW IMPORTANT IS CAMPING AT GLADE RESERVOIR TO YOU?	1 2 3 4 5 6 7 8 9 10
HOW IMPORTANT IS A GROUP PICNIC AREA AT GLADE RESERVOIR TO YOU?	1 2 3 4 (5) 6 7 8 9 10
HOW IMPORTANT IS BOAT FISHING AT GLADE RESERVOIR TO YOU?	1 2 3 4 5 6 7 8 9 10
HOW IMPORTANT IS SHORELINE FISHING AT GLADE RESERVOIR TO YOU?	1 2 3 4 (5) 6 7 8 9 10
HOW IMPORTANT ARE TRAILS AT GLADE RESERVOIR TO YOU?	1234 (5)678910
HOW IMPORTANT IS A VISITOR CENTER AT GLADE RESERVOIR TO YOU?	1 2 3 4 5 6 7 8 9 10
GLADE RESERVOIR Northern Integrated Supply Project	Questions? Comments? Please visit the project website: http://www.nisptalk.com Project contact email: Christie Coleman: ccoleman@northernwater.org Stephanie Cecil: scecil@northernwater.org

COMMENT CARD - RECREATION AREA OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTER, FORT COLLINS, CO	N AREA
STATION 20	COMMENTS
WELCOME DESK	
RECREATION AREA CONCEPT PLAN	
BOATING	North Trailhead as fair as possible from private puperty
FISHING	/ and a clear entrang/route for visitors of reservoir Versus private landownews / residents
CAMPING	
TRAILS	
VISITOR CENTER	
RECREATIONAL OPPORTUNITIES	
GLADE RESERVOIR Northern Integrated Supply Project	pply Project Questions? Comments? Please visit the project website: http://www.nisptalk.com Project contact email: Christie Coleman: ccoleman@northernwater.org Project contact email: Christie Coleman: ccoleman@northernwater.org B

NISP Northern Water Northern Integrated Supply Project	PLEASE SCORE WITH 1 BEING LOW AND 10 BEING HIGH	12345678910	000 1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	Questions? Comments? Please visit the project website: http://www.nisptalk.com Project contact email: Christie Coleman: ccoleman@northernwater.org Stephanie Cecil: scecil@northernwater.org
COMMENT CARD - RECREATION AREA OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTER, FORT COLLINS, CO	RECREATION AREA PLANNING QUESTIONS	HOW IMPORTANT IS BOATING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS CAMPING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS A GROUP PICNIC AREA AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS BOAT FISHING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS SHORELINE FISHING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT ARE TRAILS AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS A VISITOR CENTER AT GLADE RESERVOIR TO YOU?	GLADE RESERVOIR Northern Integrated Supply Project

D D COMMENT CARD - RECREATION AREA 0 OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTER, FORT COLLINS, CO	CREATION AREA 9, 2019 DLLINS, CO
STATION	COMMENTS
WELCOME DESK	interpreture center - tell about Northern, history of water
RECREATION AREA CONCEPT PLAN	have a cool plaggound area!
BOATING	how to accomode to protect non-metanized? Havgetade has cover that make it easierts have no-wake areas. want to be able
FISHING	
CAMPING	add boot-in cumping - would be cool along the central ridge
TRAILS	event more trails than just a shore line trail - trails that go up aloy nodge, and add loops! NUMERS + bikens like loops
VISITOR CENTER	will this be reservable Bor events? (e.g. weddings)
RECREATIONAL OPPORTUNITIES	paddle boardiry, open swimmirit,
GLADE RESERVOIR Northern Integrated Supply Project	pply Project Questions? Comments? Please visit the project website: http://www.nisptalk.com Project contact email: Christie Coleman: ccoleman@northernwater.org Froject contact email: Christie Coleman: ccoleman@northernwater.org 59

COMMENT CARD - RECREATION AREA OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTER, FORT COLLINS, CO	NISP Northern Water Nontern Integrated Supply Project	BLACK&VEATCH	ACK&V	/ЕАТСН		AE	AECOM
RECREATION AREA PLANNING QUESTIONS	PLEASE SCORE WITH 1 BEING LOW AND 10 BEING HIGH	EASE SCORE WITH 1 BEII LOW AND 10 BEING HIGH		NG TH	HGF	- NG	
HOW IMPORTANT IS BOATING AT GLADE RESERVOIR TO YOU?	1 2 3	4 5	9	~	œ	с б	10
HOW IMPORTANT IS CAMPING AT GLADE RESERVOIR TO YOU?	1 2 3	4 5	9	~	8	6	10
HOW IMPORTANT IS A GROUP PICNIC AREA AT GLADE RESERVOIR TO YOU?	1 2 3	4 5	9	2	œ	6	10
HOW IMPORTANT IS BOAT FISHING AT GLADE RESERVOIR TO YOU?	1 2 3	4 5	9	7	œ	6	10
HOW IMPORTANT IS SHORELINE FISHING AT GLADE RESERVOIR TO YOU?	1 2 3	4 5	9	7	œ	б	10
HOW IMPORTANT ARE TRAILS AT GLADE RESERVOIR TO YOU?	1 2 3	4 5	9	7	ø	ъ	10
HOW IMPORTANT IS A VISITOR CENTER AT GLADE RESERVOIR TO YOU?	1 2 3	4 5	9	2	œ	6	10
GLADE RESERVOIR Northern Integrated Supply Project	Questions? Comments? Please visit the project website: http://www.nisptalk.com Project contact email: Christie Coleman: ccoleman@northernwater.org Stephanie Cecil: scecil@northernwater.org	Please visi ristie Coler	t the p man: c scil: sce	roject v colema ecil@n	website an@no orthern	: thern water.	vater.org org

REATION AREA 2019 INS, CO	COMMENTS			INTERESTED IN NON-NOTOR ONLY OR O LEASS NO PERSONAL WASER CRAFT	rease	PESpersed options would be nice, AS well AS TSOAT FN	yes Can you create some loops the Appetrow to SHORELTNE TRAFL			Jy Project Project contact email: Christie Coleman@northernwater.org Rephanie Cecil: sceci@northernwater.org
COMMENT CARD - RECREATION AREA OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTER, FORT COLLINS, CO	STATION	WELCOME DESK	RECREATION AREA CONCEPT PLAN	BOATING	FISHING	CAMPING	TRAILS	VISITOR CENTER	RECREATIONAL OPPORTUNITIES	GLADE RESERVOIR Northern Integrated Supply Project

COMMENT CARD - RECREATION AREA OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTER, FORT COLLINS, CO DRAKE CENTER, FORT COLLINS, CO	NISP Northern Water Nomen inegrated Supply Project
	LOW AND 10 BEING HIGH
HOW IMPORTANT IS BOATING AT GLADE RESERVOIR TO YOU?	1 2 3 4 5 6 7 8 9 10
HOW IMPORTANT IS CAMPING AT GLADE RESERVOIR TO YOU?	1 2 3 4 5 6 7 8 9 10
HOW IMPORTANT IS A GROUP PICNIC AREA AT GLADE RESERVOIR TO YOU?	1 2 3 4 5 6 7 8 9 10
HOW IMPORTANT IS BOAT FISHING AT GLADE RESERVOIR TO YOU?	1 2 3 4 5 6 7 8 9 🚳
HOW IMPORTANT IS SHORELINE FISHING AT GLADE RESERVOIR TO YOU?	1 2 3 4 5 6 7 8 9 10
HOW IMPORTANT ARE TRAILS AT GLADE RESERVOIR TO YOU?	1 2 3 4 5 6 7 8 9 10
HOW IMPORTANT IS A VISITOR CENTER AT GLADE RESERVOIR TO YOU?	1 2 3 4 5 6 7 8 9 10
SLADE RESERVOIR Vorthern Integrated Supply Project	Questions? Comments? Please visit the project website: http://www.nisptalk.com Project contact email: Christie Coleman: ccoleman@northernwater.org Stephanie Cecil: scecil@northernwater.org

BCC 08/17/20

BLACK&VEATCH										Questions? Comments? Please visit the project website: http://www.nisptalk.com Project contact email: Christie Coleman. ccoleman@northernwater.org Stephanie Cecil: scecil@northernwater.org
NISP Northern Water Northern Integrated Supply Project										Questions? Comment http://www.nisptalk.co Project contact email:
CREATION AREA 9, 2019 ALLINS, CO	COMMENTS			Sixs to set on on						pply Project
COMMENT CARD - RECREATION AREA OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTER, FORT COLLINS, CO	STATION	WELCOME DESK	RECREATION AREA CONCEPT PLAN	BOATING	FISHING	CAMPING	TRAILS	VISITOR CENTER	RECREATIONAL OPPORTUNITIES	GLADE RESERVOIR Northern Integrated Supply Project

NISP Northern Water Northern Integrated Supply Project	PLEASE SCORE WITH 1 BEING LOW AND 10 BEING HIGH	(1) 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 🔊 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	Questions? Comments? Please visit the project website: http://www.nisptalk.com Project contact email: Christie Coleman: ccoleman@northernwater.org Stephanie Cecil: scecil@northernwater.org
COMMENT CARD - RECREATION AREA OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTER, FORT COLLINS, CO	RECREATION AREA PLANNING QUESTIONS	HOW IMPORTANT IS BOATING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS CAMPING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS A GROUP PICNIC AREA AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS BOAT FISHING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS SHORELINE FISHING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT ARE TRAILS AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS A VISITOR CENTER AT GLADE RESERVOIR TO YOU?	GLADE RESERVOIR Northern Integrated Supply Project

J

NISP Northern Water Nothern Integrated Supply Project	COMMENTS			than one bout ramp. At I was the different location are neede		a with vicus of reserviner + mountains. ace some camping sites where you can enjoy being close fo				Questions? Comments? Please visit the project website: http://www.nisptalk.com Project contact email: Christie Coleman: ccoleman@northernwater.org Stephanie Cecil: scecil@northernwater.org
CREATION AREA 9, 2019 LLINS, CO				Those than		Caupsitu ul Mase place				pply Project
D COMMENT CARD - RECREATION AREA O OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTER, FORT COLLINS, CO	STATION	WELCOME DESK	RECREATION AREA CONCEPT PLAN	BOATING	FISHING	CAMPING	TRAILS	VISITOR CENTER	RECREATIONAL OPPORTUNITIES	GLADE RESERVOIR Northern Integrated Supply Project

COMMENT CARD - RECREATION AREA OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTER, FORT COLLINS, CO	NISP Northern Water Nontern Integrated Suppy Project	È	BLACK&VEATCH	& VEATC	I	AE	A≣COM	
RECREATION AREA PLANNING QUESTIONS	PLEASE SCORE WITH 1 BEING LOW AND 10 BEING HIGH	SCOF AND 1	NE NO BE		1 BE HIG	H		
HOW IMPORTANT IS BOATING AT GLADE RESERVOIR TO YOU?	1 2 3	4 5	9	7	œ	6	10	
HOW IMPORTANT IS CAMPING AT GLADE RESERVOIR TO YOU?	1 2 3	4 5	9	7	8	6	10	
HOW IMPORTANT IS A GROUP PICNIC AREA AT GLADE RESERVOIR TO YOU?	1 2 3	4 5	9	7	ø	6	0	
HOW IMPORTANT IS BOAT FISHING AT GLADE RESERVOIR TO YOU?	1 2 3	4 5	9	4	œ	6	10	
HOW IMPORTANT IS SHORELINE FISHING AT GLADE RESERVOIR TO YOU?	1 2 3	4 5	9	4	œ	6	10	
HOW IMPORTANT ARE TRAILS AT GLADE RESERVOIR TO YOU?	1 2 3	4 5	9	4	8	6	10	
HOW IMPORTANT IS A VISITOR CENTER AT GLADE RESERVOIR TO YOU?	1 2 3	4 5	9	~	8	6	10	
GLADE RESERVOIR Northern Integrated Supply Project	Questions? Comments? Please visit the project website: http://www.nisptalk.com Project contact email: Christie Coleman: ccoleman@northernwater.org Stephanie Cecil: scecil@northernwater.org	Please vi rristie Col	sit the eman: cecil: so	project ccolerr cecil@	websi an@n norther	te: ortherr nwate	water.o	D

D COMMENT CARD - RECREATION AREA O OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTER, FORT COLLINS, CO	NISP Northern Water Northern Integrated Supply Project	
STATION	COMMENTS	
WELCOME DESK		
RECREATION AREA CONCEPT PLAN		
BOATING	I am a property conner on East Hagback Ridge. We are in supportionation of the property we have a support of the technology of technol	t of a hiking & would prefed that a horsepower
FISHING		
CAMPING	iver	
TRAILS	્રાત્રમ !	
VISITOR CENTER		
RECREATIONAL OPPORTUNITIES		
GLADE RESERVOIR Northern Integrated Supply Project		Questions? Comments? Please visit the project website: http://www.nisptalk.com Project contact email: Christie Coleman: ccoleman@northernwater.org Stephanie Cecil: scecil@northernwater.org

NISP Northern Water Northern Integrated Supply Project	PLEASE SCORE WITH 1 BEING LOW AND 10 BEING HIGH	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	Questions? Comments? Please visit the project website: http://www.nisptalk.com Project contact email: Christie Coleman: ccoleman@northernwater.org Stephanie Cecil: scecil@northernwater.org
COMMENT CARD - RECREATION AREA OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTER, FORT COLLINS, CO	RECREATION AREA PLANNING QUESTIONS	HOW IMPORTANT IS BOATING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS CAMPING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS A GROUP PICNIC AREA AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS BOAT FISHING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS SHORELINE FISHING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT ARE TRAILS AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS A VISITOR CENTER AT GLADE RESERVOIR TO YOU?	GLADE RESERVOIR Northern Integrated Supply Project

Mater AECK&VEATCH AECOM				t A REGERENCE PERSEGATE 43 BENATTY & QUIET OF THE AREAD						Questions? Comments? Please visit the project website: http://www.nisptalk.com Project contact email: Christie Coleman: ccoleman@northernwater.org Stephanie Cecil: scecil@northernwater.org
REATION AREA 2019 LINS, CO	COMMENTS			PLETATE ALD MOTOR ZED BUATS! HOW APOUT A REFERENCE PERVENCE TO FISHING, KAYALING, SAL BUTTING TO ENSIGY THE BEAMITY & QUIET OF THE AREAD						
COMMENT CARD - RECREATION AREA OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTER, FORT COLLINS, CO	STATION	WELCOME DESK	RECREATION AREA CONCEPT PLAN	BOATING	FISHING	CAMPING	TRAILS	VISITOR CENTER	RECREATIONAL OPPORTUNITIES	GLADE RESERVOIR Northern Integrated Supply Project

COMMENT CARD - RECREATION AREA OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTER, FORT COLLINS, CO	NIST Northern Water Northern Water Northern Integrated Supply Project
RECREATION AREA PLANNING QUESTIONS	PLEASE SCORE WITH 1 BEING LOW AND 10 BEING HIGH
HOW IMPORTANT IS BOATING AT GLADE RESERVOIR TO YOU?	1 2 3 4 5 6 7 8 9 10
HOW IMPORTANT IS CAMPING AT GLADE RESERVOIR TO YOU?	1 2 3 4 6 6 7 8 9 10
HOW IMPORTANT IS A GROUP PICNIC AREA AT GLADE RESERVOIR TO YOU?	1 23 4 5 6 7 8 9 10
HOW IMPORTANT IS BOAT FISHING AT GLADE RESERVOIR TO YOU?	1 2 3 4 5 6 7 8 9 (10
HOW IMPORTANT IS SHORELINE FISHING AT GLADE RESERVOIR TO YOU?	1 2 3 4 5 6 7 8 9 (10)
HOW IMPORTANT ARE TRAILS AT GLADE RESERVOIR TO YOU?	1 2 3 4 5 6 7 8 9 40
HOW IMPORTANT IS A VISITOR CENTER AT GLADE RESERVOIR TO YOU?	123456708910
GLADE RESERVOIR Northern Integrated Supply Project	Questions? Comments? Please visit the project website: http://www.nisptalk.com Project contact email: Christie Coleman: ccoleman@northernwater.org Stephanie Cecil: scecil@northernwater.org

REATION AREA NEP 2019 Image: Suppy Project LINS, CO Image: Suppy Project	COMMENTS	DANSENOUT SITUATION ALPENDY BXFT AT PERMER PERK & OWLODNYON. NO YOU ARE CRAATING A 3RD MAGGRAVE CINDITION W/ MAT N. TRAILHOND TRAFFIC . HOW DON'T A SALVIDON BY CODT. LARMON OO + NIST 3		NO MOTOR DUATS						ply Project Project contact email: Christie Coleman: ccoleman@northernwater.org Stephanie Cecil: scecil@northernwater.org
COMMENT CARD - RECREATION AREA OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTER, FORT COLLINS, CO	STATION	HIGHWAY ZOT & D. WENCOME DESK NO 1 POWTING	RECREATION AREA CONCEPT PLAN	BOATING	FISHING	CAMPING	TRAILS	VISITOR CENTER	RECREATIONAL OPPORTUNITIES	GLADE RESERVOIR Northern Integrated Supply Project

NISP Northern Water Northern Integrated Supply Project	PLEASE SCORE WITH 1 BEING LOW AND 10 BEING HIGH	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 🕜 8 9 10	123 0 5678910	1 2 3 4 5 6 7 8 9 🐠	1 2 3 4 5 6 7 🔞 9 10	1 2 3 4 5 6 7 🖉 9 10	1 2 3 4 5 6 7 8 9 10	Questions? Comments? Please visit the project website: http://www.nisptalk.com Project contact email: Christie Coleman: ccoleman@northernwater.org Stephanie Cecil: scecil@northernwater.org
COMMENT CARD - RECREATION AREA OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTER, FORT COLLINS, CO	RECREATION AREA PLANNING QUESTIONS	HOW IMPORTANT IS BOATING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS CAMPING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS A GROUP PICNIC AREA AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS BOAT FISHING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS SHORELINE FISHING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT ARE TRAILS AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS A VISITOR CENTER AT GLADE RESERVOIR TO YOU?	GLADE RESERVOIR Northern Integrated Supply Project

BLACK & VEATCH										Questions? Comments? Please visit the project website: http://www.nisptalk.com Project contact email: Christie Coleman: ccoleman@northernwater.org Stephanie Cecil: scecil@northernwater.org
NISP Northern Water Northern Integrated Supply Project										Questions? Comments' http://www.nisptalk.com Project contact email: C S
	COMMENTS									
ECREATION AREA R 9, 2019 COLLINS, CO			NJCR							pply Project
COMMENT CARD - RECREATION AREA OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTER, FORT COLLINS, CO	STATION	WELCOME DESK	RECREATION AREA CONCEPT PLAN	BOATING	FISHING	CAMPING	TRAILS	VISITOR CENTER	RECREATIONAL OPPORTUNITIES	GLADE RESERVOIR Northern Integrated Supply Project

NISP Northern Water Northern Integrated Supply Project	PLEASE SCORE WITH 1 BEING LOW AND 10 BEING HIGH	1 2 3 4 (5) 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 🛞 9 10	1 2 3 4 5 6 7 8 9 10	Questions? Comments? Please visit the project website: http://www.nisptalk.com Project contact email: Christie Coleman: ccoleman@northernwater.org Stephanie Cecil: scecil@northernwater.org
COMMENT CARD - RECREATION AREA OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTER, FORT COLLINS, CO	RECREATION AREA PLANNING QUESTIONS	HOW IMPORTANT IS BOATING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS CAMPING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS A GROUP PICNIC AREA AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS BOAT FISHING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS SHORELINE FISHING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT ARE TRAILS AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS A VISITOR CENTER AT GLADE RESERVOIR TO YOU?	GLADE RESERVOIR Northern Integrated Supply Project

DCOMMENT CARD - RECREATION AREA OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTER, FORT COLLINS, CO	CREATION AREA 9, 2019 JLLINS, CO	Northern Water Nonthern Water
STATION	COMMENTS	
WELCOME DESK		
RECREATION AREA CONCEPT PLAN		
BOATING	! Know the steepness of the rawing count to minimize steepness. There and need this extra challense.	p is a concern. Please do what you lare pleuty of not good drivers who don't
FISHING		
CAMPING		
TRAILS	Having a new set of trails close	to town would be great
VISITOR CENTER	This would be a fin a menity	
RECREATIONAL OPPORTUNITIES		
GLADE RESERVOIR Northern Integrated Supply Project	pply Project	Questions? Comments? Please visit the project website: http://www.nisptalk.com Project contact email: Christie Coleman: ccoleman@northernwater.org Stephanie Cecil: scecil@northernwater.org

NISP Northern Water Northern Integrated Supply Project	PLEASE SCORE WITH 1 BEING LOW AND 10 BEING HIGH	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 🕖 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 (10)	1 2 3 4 5 6 7 (8) 9 10	Questions? Comments? Please visit the project website: http://www.nisptalk.com Project contact email: Christie Coleman: ccoleman@northernwater.org Stephanie Cecil: scecil@northernwater.org
COMMENT CARD - RECREATION AREA OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTER, FORT COLLINS, CO	RECREATION AREA PLANNING QUESTIONS	HOW IMPORTANT IS BOATING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS CAMPING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS A GROUP PICNIC AREA AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS BOAT FISHING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS SHORELINE FISHING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT ARE TRAILS AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS A VISITOR CENTER AT GLADE RESERVOIR TO YOU?	GLADE RESERVOIR Northern Integrated Supply Project

3, 2019 Substantion AREA Nonthern Water Nonthern Mater	COMMENTS			I DO NOT WANT POWER BOATS (SPEED BOATS ON THE RESERVED . I LIVE BOUNDER PEAK NAMOR & THE MOTSE WOULD BE WAECEPTABLE. PEOPLE CAN ALEANON USE THEST POWER SPEED BOATS @ NAME OTHER FRONT	KANGE LUCATIDUS. WITH IS THERE TOO MUCH DEVELOPMENT & NOT ENDUCH OUTET RACES?					pply Project Questions? Comments? Please visit the project website: http://www.nisptalk.com Project contact email: Christie Coleman@northernwater.org Broject contact email: Christie Coleman: ccoleman@northernwater.org B
DCOMMENT CARD - RECREATION AREA OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTER, FORT COLLINS, CO	STATION	WELCOME DESK	RECREATION AREA CONCEPT PLAN	BOATING	FISHING	CAMPING	TRAILS	VISITOR CENTER	RECREATIONAL OPPORTUNITIES	GLADE RESERVOIR Northern Integrated Supply Project

COMMENT CARD - RECREATION AREA OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTER, FORT COLLINS, CO RECREATION AREA PLANNING OLIESTIONS	NISP Northern Water Nomen inegrated Supply Project
HOW IMPORTANT IS BOATING AT GLADE RESERVOIR TO YOU?	1 2 3 4 5 6 7 8 9 10
HOW IMPORTANT IS CAMPING AT GLADE RESERVOIR TO YOU?	1 2 3 4 5 6 7 8 9 10
HOW IMPORTANT IS A GROUP PICNIC AREA AT GLADE RESERVOIR TO YOU?	123 🕜 5678910
HOW IMPORTANT IS BOAT FISHING AT GLADE RESERVOIR TO YOU?	1 2 3 (4) 5 6 7 8 9 10
HOW IMPORTANT IS SHORELINE FISHING AT GLADE RESERVOIR TO YOU?	1 2 3 (4) 5 6 7 8 9 10
HOW IMPORTANT ARE TRAILS AT GLADE RESERVOIR TO YOU?	1 2 3 (4) 5 6 7 8 9 10
HOW IMPORTANT IS A VISITOR CENTER AT GLADE RESERVOIR TO YOU?	1 2 3 4 5 6 7 8 9 10
GLADE RESERVOIR Vorthern Integrated Supply Project	Questions? Comments? Please visit the project website: http://www.nisptalk.com Project contact email: Christie Coleman: ccoleman@northernwater.org Stephanie Cecil: scecil@northernwater.org

BLACK&VEATCH		×					WATKING RES			Questions? Comments? Please visit the project website: http://www.nisptalk.com Project contact email: Christie Coleman: ccoleman@northernwater.org Stephanie Cecil: scecil@northernwater.org
NIST Northern Water Nothern Integrated Supply Project	COMMENTS						FTC BIVE TZOILS AT WATK	þ		Questions? Comments? P http://www.nisptalk.com Project contact email: Chri Ster
CREATION AREA 9, 2019 1LLINS, CO							La of the File (who File			pply Project
DCOMMENT CARD - RECREATION AREA OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTER, FORT COLLINS, CO	STATION	WELCOME DESK	RECREATION AREA CONCEPT PLAN	BOATING	FISHING	CAMPING	TRAILS	VISITOR CENTER	RECREATIONAL OPPORTUNITIES	GLADE RESERVOIR Northern Integrated Supply Project

NISP Northern Water Northern Mater Northern Integrated Supply Project	PLEASE SCORE WITH 1 BEING LOW AND 10 BEING HIGH	(1) 2 3 4 5 6 7 8 9 10	1) 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	(1) 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	Questions? Comments? Please visit the project website: http://www.nisptalk.com Project contact email: Christie Coleman: ccoleman@northernwater.org Stephanie Cecil: scecil@northernwater.org
COMMENT CARD - RECREATION AREA OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTER, FORT COLLINS, CO	RECREATION AREA PLANNING QUESTIONS	HOW IMPORTANT IS BOATING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS CAMPING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS A GROUP PICNIC AREA AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS BOAT FISHING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS SHORELINE FISHING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT ARE TRAILS AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS A VISITOR CENTER AT GLADE RESERVOIR TO YOU?	GLADE RESERVOIR Northern Integrated Supply Project

NISP Northern Water Northern Integrated Supply Project	PLEASE SCORE WITH 1 BEING LOW AND 10 BEING HIGH	1 2 3 4 5 6 7 🔞 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 (8) 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 (8) 9 10	1 2 3 4 5 6 7 8 9 10	Questions? Comments? Please visit the project website: http://www.nisptalk.com Project contact email: Christie Coleman: ccoleman@northernwater.org Stephanie Cecil: scecil@northernwater.org
COMMENT CARD - RECREATION AREA OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTER, FORT COLLINS, CO	RECREATION AREA PLANNING QUESTIONS	HOW IMPORTANT IS BOATING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS CAMPING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS A GROUP PICNIC AREA AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS BOAT FISHING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS SHORELINE FISHING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT ARE TRAILS AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS A VISITOR CENTER AT GLADE RESERVOIR TO YOU?	GLADE RESERVOIR Northern Integrated Supply Project

NISP Northern Water Nonteen Integrated Supply Project	PLEASE SCORE WITH 1 BEING LOW AND 10 BEING HIGH	1 2 3 4 5 6 7 8 9 10	1234567 (20910	1 2 3 4 5 6 7 8 9 10	1 2 (3) 4 5 6 7 8 9 10	123456078910	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 (8) 9 10	Questions? Comments? Please visit the project website: http://www.nisptalk.com Project contact email: Christie Coleman: ccoleman@northernwater.org Stephanie Cecil: scecil@northernwater.org
COMMENT CARD - RECREATION AREA OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTER, FORT COLLINS, CO	RECREATION AREA PLANNING QUESTIONS	HOW IMPORTANT IS BOATING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS CAMPING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS A GROUP PICNIC AREA AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS BOAT FISHING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS SHORELINE FISHING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT ARE TRAILS AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS A VISITOR CENTER AT GLADE RESERVOIR TO YOU?	GLADE RESERVOIR Vorthern Integrated Supply Project

NISP Northern Water Northern Inegrated Supply Project	PLEASE SCORE WITH 1 BEING LOW AND 10 BEING HIGH	1 2 3 A3 5 6 7 8 9 10	1 22 3 4 5 6 7 8 9 10	1 2 3 4 🚯 6 7 8 9 10	123456 (38910	123456078910	1 2 3 4 5 6 🕜 8 9 10	1 2 3 (4) 5 6 7 8 9 10	Questions? Comments? Please visit the project website: http://www.nisptalk.com Project contact email: Christie Coleman: ccoleman@northernwater.org Stephanie Cecil: scecil@northernwater.org
COMMENT CARD - RECREATION AREA OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTER, FORT COLLINS, CO	RECREATION AREA PLANNING QUESTIONS	HOW IMPORTANT IS BOATING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS CAMPING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS A GROUP PICNIC AREA AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS BOAT FISHING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS SHORELINE FISHING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT ARE TRAILS AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS A VISITOR CENTER AT GLADE RESERVOIR TO YOU?	GLADE RESERVOIR Northern Integrated Supply Project

NISP Northern Water Northern Integrated Supply Project	PLEASE SCORE WITH 1 BEING LOW AND 10 BEING HIGH	1 2 3 4 5 6 7 8 9 (10)	62345678910	1 2 3 4 5 6 7 8 9 10	12 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	$1 \ 2 \ 3 \ 4 \ 5 \ 6 \left(\overrightarrow{v} \right) \ 8 \ 9 \ 10$	Questions? Comments? Please visit the project website: http://www.nisptalk.com Project contact email: Christie Coleman: ccoleman@northernwater.org Stephanie Cecil: scecil@northernwater.org
COMMENT CARD - RECREATION AREA OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTER, FORT COLLINS, CO	RECREATION AREA PLANNING QUESTIONS	HOW IMPORTANT IS BOATING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS CAMPING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS A GROUP PICNIC AREA AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS BOAT FISHING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS SHORELINE FISHING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT ARE TRAILS AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS A VISITOR CENTER AT GLADE RESERVOIR TO YOU?	GLADE RESERVOIR Northern Integrated Supply Project

NISP Northern Water Northern Integrated Supply Project	PLEASE SCORE WITH 1 BEING LOW AND 10 BEING HIGH	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 60	1 2 3 4 5 6 7 (3) 9 10	1 2 3 4 5 6 7 8 9 (10)	1 2 3 4 5 6 7 8 🕲 10	1 2 3 4 5 6 7 (8) 9 10	1 2 3 4 (5) 6 7 8 9 10	Questions? Comments? Please visit the project website: http://www.nisptalk.com Project contact email: Christie Coleman: ccoleman@northernwater.org Stephanie Cecil: scecil@northernwater.org
COMMENT CARD - RECREATION AREA OPEN HOUSE - OCTOBER 9, 2019 DRAKE CENTER, FORT COLLINS, CO	RECREATION AREA PLANNING QUESTIONS	HOW IMPORTANT IS BOATING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS CAMPING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS A GROUP PICNIC AREA AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS BOAT FISHING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS SHORELINE FISHING AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT ARE TRAILS AT GLADE RESERVOIR TO YOU?	HOW IMPORTANT IS A VISITOR CENTER AT GLADE RESERVOIR TO YOU?	GLADE RESERVOIR Northern Integrated Supply Project

		NISP Open Ho	NISP Open House Sign In Sheet
Northern Water	Water pply Project	Octob	October 9, 2019
First Name	Last Name	Phone Number*	Email Address*
Melvin + Judy	TERREL		None
Address. Citv. Zip Code	Code		What topics are you most interested in? (Check all that apply)
			In Nish in General Recreation Pipeline Routes Highway 287 Planmar County IGA Process
First Name	Last Name	Phone Number*	
- art	Letter		
Address, City, Zip Code	L		What topics are you most interested in? (Check all that apply)
			Image: Nisplace in Secretion Image: Pipeline Routes Image: Nisplace in Secretion Image: Pipeline Routes
First Name	Last Name	Phone Number* /	
LINDA	6-161590		
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			ANISP in General Accreation Propeline Routes
First Name	Last Name	Phone Number*	Email Address*
JAC' &	SULITH		
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
•			NISP in General E Recreation D Pipeline Routes Highway 287 D Larimer County IGA Process
First Name	Last Name	Phone Number*	
Parl	Yendra		
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			KNISP in General Kecreation Dipeline Routes

Page 1

493

* Providing email address and phone number is optional. Data will be used to document open house attendance, interest, and geographical representation.

	Northern Water	ter	NISP Open Ho Octob	NISP Open House Sign In Sheet October 9. 2019
-	First Name La	Last Name	Phone Number*	Email Address*
	Brien	Sharer		
4	Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
				文でSP in General コ Recreation 」 Pipeline Routes ロ Highway 287 ロ Larimer County IGA Process
_	First Name	Last Name	Phone Number*	Email Address*
	ryo to	Crowder		
	Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
				KNISP in General r'Recreation Kipeline Routes RHighway 287 🗆 Larimer County IGA Process
	First Mame	Last Name	Phone Number*	
	Theresa	Rippschul	holl -	
	Address, City, Zip Code	code / / /	4	What topics are you most interested in? (Check all that apply)
				NISP in General
	First Name	Last Name	Phone Number*	Email Address*
	Helmut	Non		
	Address, City, Zip Code	Code / //		What topics are you most interested in? (Check all that apply)
		2		NISP in General Recreation Pipeline Routes Highway 287 D Larimer County IGA Process
	First Name	Last Name	Phone Number*	Email Address*
	Arthornfathan	Cottan		
	Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			0	C NISP in General C Recreation C Pipeline Routes C Highway 287 C Larimer County IGA Process

BCC 08/17/20

NISP

Northern Water Northern Integrated Supply Project		NISP Upen Ho Octob	NISP Open House Sign in Sneet October 9, 2019
First Name	Last Name	Phone Number*	Email Address*
Day	SPLED		
Address, City, Zip Code	code		What topics are you most interested in? (Check all that apply)
			WISP in General Recreation Pipeline Routes
First Name	Last Name	Phone Number*	Email Address*
John	HUYLER		
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			VISP in General Recreation Pipeline Routes
First Name	Last Name,	Phone Number*	Email Address*
leri	Morbun		
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			LevisP in General
First Name	Last Name	Phone Number*	Email Address*
Linda	Roselius		
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			□ NISP in General □ Recreation wPipeline Routes
First Name	Last Name	Phone Number*	Email Address*
TOAN	TRALMAN-		
Address, City, Zip Code			What topics are you most interested in? (Check all that apply)
			□ NISP in General □ Recreation

495

Page 3

BCC 08/17/20

.

Northern Water		NISP Open Hol Octobe	NISP Open House Sign In Sheet October 9, 2019
First Name	Last Name	Phone Number*	Email Address*
Pat	Wensmen		
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			HISP in General Recreation Dipeline Routes Highway 287 L Larimer County IGA Process
First Name	Last Name	Phone Number*	Émail Address*
BILL	ROBERTS		
Address. Citv. Zip Code	Code		What topics are you most interested in? (Check all that apply)
			□ NISP in General □ Recreation □ Pipeline Routes □ Highway 287 □ Larimer County IGA Process
First Name	Last Name	Phone Number*	
Ardy	Pineda		
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			XISP in General Recreation Pipeline Routes Highway 287 Klarimer County IGA Process
First Name	Last Name	Phone Number*	Email Address*
Partin	APPAWSRY		
Address, City, Zip Code	Code	1.	What topics are you most interested in? (Check all that apply)
			NISP in General 文化ecreation コ Pipeline Routes 人相関的地域 287 ロ Larimer County IGA Process
First Name	Last Name	Phone Number*	Email Address*
Jedy	(notwoy)		
Address, City, Zip Code	Code /		What topics are you most interested in? (Check all that apply)
			NISP in General Recreation Pipeline Routes Highway 287 D Larimer County IGA Process

496

BCC 08/17/20

NISP

Northern Water	Water	NISP Open Ho Octok	NISP Open House Sign In Sheet October 9, 2019
First Name	Last Name / 1	Phone Number*	Email Address*
JANES	# WHICH		
Address, City, Zip Code	o Code		What topics are you most interested in? (Check all that apply)
			K NISP in General & Recreation Dipeline Routes X Highway 287 D Larimer County IGA Process
First Name	Last Name	Phone Number*	fEmail Address*
300	124 march 1/2/		
Address, City, Zip Code	o Code		What topics are you most interested in? (Check all that apply)
			NISP in General Recreation Pripeline Routes Highway 287 Larimer County IGA Process
First Name	Last Name	Phone Number*	Email Address*
Anu lis	TUML		
Address, City, Zip Code	o Code		What topics are you most interested in? (Check all that apply)
			NISP in General Affecteation Affipeline Routes PHighway 287 In Larimer County IGA Process
First Name	Last Name	Phone Number*	Email Address*
Tom	Atming by		
Address, City, Zip Code	Code 1		What topics are you most interested in? (Check all that apply)
			Highway 287
First Name	Last Name	Phone Number*	Email Address*
Pet	Crotier		
Address, City, Zip Code) Code		What topics are you most interested in? (Check all that apply)
			NISP in General Recreation Pipeline Routes
			In Highway 287 In Larimer County IGA Process

Page 5

NISP

Northern Water	later w Project	NISP Open Ho Octob	ISP Open House Sign In Sheet October 9, 2019
First Name	Last Name	Phone Number*	Email Address*
Exarda	Hall's		
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
		10110	□ NISP in General ¬ Recreation X Pipeline Routes
First Name	Last Name	Phone Number*	
PAUGRAS	67285		
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			Kinisp in General Kecreation In Pipeline Routes
First Name	Last Name	Phone Number*	
JENT NEL	TENTARL LEWIS		
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			□ NISP in General □ Recreation ★ Pipeline Routes
First Name	Last Name	Phone Number*	Email Address*
N° X	Puerci		,
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			□ NISP in General □ Recreation
First Name	Last Name	Phone Number*	Email Address*
hun	Sterms		
Address, City, Zip Code	Code	/	What topics are you most interested in? (Check all that apply)
			NISP in General Highway 287 J Larimer County IGA Process

NISP

1	(2	
Northern Water Northern Integrated Supply Project	Water uply Project	Octob	October 9, 2019
First Name	Last Name	Phone Number*	Email Address*
:	14 + 2		
Address, City, Zip Code	Code 7	-	What topics are you most interested in? (Check all that apply)
			NISP in General Recreation Pipeline Routes XHighway 287 XLarimer County IGA Process
First Name	Last Name	Phone Number*	
tim	Szidon		
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			NISP in General Recreation Pipeline Routes Highway 287 Larimer County IGA Process
First Name	/ Last Name	Phone Number*	
Jary	Magon		
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			NISP in General Recreation Pipeline Routes Highway 287 Larimer County IGA Process
First Name	Last Name	Phone Number*	Email Address*
2 huch	Seest		
Address, City, Zip Code	Code		What topics are you most interested Vn? (Check all that apply)
			NISP in General Recreation Pipeline Routes Highway 287 Larimer County IGA Process
First Name	Last Name	Phone Number*	Email Address*
SULLA)	DERRIVISTON		
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			NISP in General Recreation Pipeline Routes Highway 287 D Larimer County IGA Process

Northern Water	Water	NISP Open Ho Octob	NISP Open House Sign In Sheet October 9, 2019
First Name	Last Name	Phone Number*	Email Address*
Diàne	Schultz		
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			NISP in General XRecreation Dipeline Routes Mighway 287 Larimer County IGA Process
First Name	Last Name	Phone Number*	Email Address*
Reb	Phillips		
Address, City, Zip Code	Code ' '		What topics are you most interested in? (Check all that apply)
			Highway 287 Derimer County IGA Process
First Name	Last Name	Phone Number*	Email Address*
Zade	Steidl		
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			 NISP in General Recreation Ripeline Routes Highway 287 Larimer County IGA Process
First Name	Last Name	Phone Number*	Email Address* ,
Shere	Woulton		
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			NISP in General Recreation Pipeline Routes Highway 287 Larimer County IGA Process
First Name	Last Name	Phone Number*	Email Address*
Ryan	Nelson		
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			NISP in General Secreation Pipeline Routes Highway 287 I Larimer County IGA Process

ŕ

Page 10

500

* Providing email address and phone number is optional. Data will be used to document open house attendance, interest, and geographical representation.

Northern W	Water	NISP Open Ho	ISP Open House Sign In Sheet
00	Project	Octob	October 9, 2019
First Name	Last Name	Phone Number*	Email Address*
CAPA le	Swider		
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			A VISP in General A Recreation Pipeline Routes A Highway 287 D Larimer County IGA Process
First Name	Last Name	Phone Number*	Email Address*
Saft	Elles		
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			NISP in General Recreation Refine Routes Highway 287 Highway 287
First Name	Last Name	Phone Number*	
Mike	Rushing	6	
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			NISP in General Recreation Repelline Routes Alighman 287 Larimor County ICA Discose
First Name	Last Name	Phone Number*	*
Al Ceigan	Swith		
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			ANISP in General Recreation Pipeline Routes Carimer County IGA Process
First Name	Last Name	Phone Number*	
Gory	Albers		
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			NISP in General Recreation Pipeline Routes Highway 287 Larimer County IGA Process

Page 23

501

* Providing email address and phone number is optional. Data will be used to document open house attendance, interest, and geographical representation.

Northern Water	Water Supply Project	NISP Open H	NISP Open House Sign In Sheet October 9, 2019
First Name	Last Name	. Phone Number*	Email Address*
Youne of	Jitheid Witheid	iel.	
Address, City, Zip Code	y, Zip Code		What topics are you most interested in? (Check all that apply)
			NISP in General Recreation Pipeline Routes Highway 287 D Larimer County IGA Process
First Name	Last Name	Phone Number*	Email Address*
Juistic	c Klinznann		
Address, City, Zip Code			What topics are you most interested in? (Check all that apply)
			□ NISP in General □ Recreation ➡Pipeline Routes
First Name	Last Name	Phone Number*	Email Address*
Della	i Garelle		
Address, City, Zip Code	y, Zip Code		What topics are you most interested in? (Check all that apply)
			XONISP in General Recreation Pipeline Routes Chighway 287 Larimer County IGA Process
First Name	Last Name	Phone Number*	Email Address*
lerr	Franc)		
Address, City, Zip Code	y, Zip Code		What topics are you most interested in? (Check all that apply)
			NISP in General Recreation Pipeline Routes Highway 287 Determine County IGA Process
First Name	Last Name	Phone Number*	Email Address*
1 Pre	X RANG		
Address, City, Zip Code	y, Zip Code		What topics are you most interested in? (Check all that apply)
			NISP in General Recreation Pipeline Routes

Northern	Northern Water	Octok	October 9, 2019
First Name	e Last Name	Phone Number*	Email Address*
Math	when		
	Address, City, Zip Code		What topics are you most interested in? (Check all that apply)
		İ	NISP in General Recreation Pipeline Routes Highway 287 D Larimer County IGA Process
First Name	E Last Name	Phone Number*	Email Address*
Tony	WILLOWM		
Address, C	Address, City, Zip Code		What topics are you most interested in? (Check all that apply)
			AMISP in General Recreation Pipeline Routes
First Name	Last Name	Phone Number*	Email Address*
Chevi	Kaseche		
Address, C	Address, City, Zip Code		What topics are you most interested in? (Check all that apply)
			NISP in General Recreation Pipeline Routes Highway 287 Larimer County IGA Process
First Name	E Last Name	Phone Number*	Email Address*
JORDAU	r CAZLE		
Address, C	Address, City, Zip Code		What topics are you most interested in? (Check all that apply)
			本 NISP in General ひ Recreation からipeline Routes & Highway 287
First Name	Last Name	Phone Number*	Email Address*
CHARCIE	üe Rock		
Address, C	Address, City, Zip Code		What topics are you most interested in? (Check all that apply)
			XNISP in General Recreation Pipeline Routes A Highway 287

BCC 08/17/20

Northern Water	Water univ Project	NISP Open He Octob	NISP Open House Sign In Sheet October 9, 2019
First Name	Last Name	Phone Number*	Email Address*
Christina	Fallgren		
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			□ NISP in General □ Recreation □ Pipeline Routes
First Name	Last Name	Phone Number*	Email Address*
Kerli	Meyer		
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			XNISP in General Recreation Pipeline Routes Highway 287
First Name	Last Name	Phone Number*	Email Address*
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			NISP in General Becreation Pipeline Routes Highway 287 Larimer County IGA Process
First Name	Last Name	Phone Number*	Email Address*
Brent	Nation		
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			XNISP in General Recreation Pipeline Routes Highway 287 Recreation Recre
First Name	Last Name	Phone Number*	Email Address*
Keely	Allbrandt		
Address, Citv, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			□ NISP in General □ Recreation DVPipeline Routes

NISP

Northern Water Northern Integrated Supply Project	Water	NISP Open Hi Octob	NISP Open House Sign in Sneet October 9, 2019
First Name	Last Name	Phone Number*	Email Address*
Nade	Referan		
Address, City, Zip Code) Code	-	What topics are you most interested in? (Check all that apply)
Lawer Con	- could		NISP in General Recreation Pipeline Routes Highway 287 Larimer County IGA Process
First Name	Last Name	Phone Number*	Email Address*
Karl	Surroy		
Address, City, Zip Code	o Code		What topics are you most interested in: (check all that apply)
			MNISP in General Recreation KPipeline Routes Highway 287 Larimer County IGA Process
First Name	Last Name	Phone Number*	Email Address*
Matt	oberle		
Address, City, Zip Code) Code		What topics are you most interested in? (Check all that apply)
			NISP in General Recreation X Pipeline Routes Highway 287 X Larimer County IGA Process
First Name	Last Name	Phone Number*	
TIAL	-1274		
Address, City, Zip Code) Code		What topics are you most interested in? (Check all that apply)
			ANISP in General Recreation Pipeline Routes Highway 287 Process
First Name	Last Name	Phone Number*	Email Address*
Nick	Hays		
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			A NISP in General

Page 35

505

* Providing email address and phone number is optional. Data will be used to document open house attendance, interest, and geographical representation-

ł

Northern Water	Water pph Project	NISP Open Ho Octob	NISP Open House Sign In Sheet October 9, 2019
First Name	Last Name	Phone Number*	Email Address*
Brenden	Foster		
Address, City, Zip Code	o Code		What topics are you most interested in? (Check all that apply)
			K NISP in General C Recreation Profession Reline Routes
First Name	Last Name	Phone Number*	Email Address*, ,
Genzel	LATON		
Address, City, Zip Code) Code		What topics are you most interested in? (Check all that apply)
			NISP in General Recreation Pipeline Routes Highway 287 - Larimer County IGA Process
First Name	Last Name	Phone Number*	
Rex	stable		
Address, City, Zip Code	Code .		What topics are you most interested in? (Check all that apply)
			다세ISP in General 다代GCreation 나 Pipeline Routes IarHighway 287 랴스Tarimer County IGA Process
First Name	Last Name	Phone Number*	Email Address*
Vane SCa Address, City, Zip Code	Stable		What topics are you most interested in? (Check all that apply)
			교제SP in General 전Recreation 고 Pipeline Routes 호Highway 287 글 보arimer County IGA Process
First Name	Last Name	Phone Number*	Email Address*
DAAC	GENRITSEN		
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			NISP in General Cecreation Pipeline Routes Highway 287 Description Larimer County IGA Process

Northern Interrated Sumbly Project	ter	NISP Open Ho Octob	ISP Open House Sign In Sheet October 9, 2019
First Name	Last Name	Phone Number*	Email Address*
Re	Walker		
Address, City, Zip Code	ode		What topics are you most interested in? (Check all that apply)
			MISP in General Recreation Pipeline Routes Purighway 287 Larimer County IGA Process
First Name	Last Name	Phone Number*	Email Address*
Sheridyn	Randolph		
Address, City, Zip Code	ode		What topics are you most interested in? (Check all that apply)
			XNISP in General Recreation Pipeline Routes Recreation Recreatio Recreatio Recreatio Recreatio Recreatio Recreatio Recreati Recreatio Recreatio Recreatio Recreati Recreatio Re
First Name	Last Name	Phone Number*	Email Address*
Elisch Tou	Hitle		-
Address, City, Zip Code	ode		What topics are you most interested in? (Check all that apply)
			LinksP in General Define Routes Highway 287 Define County IGA Process
First Name	Last Name	Phone Number*	Email Address*
LARRY	FIMITH		
Address, City, Zip Code	ode	1	What topics are you most interested in? (Check all that apply)
			XNISP in General XRecreation Dipeline Routes
First Name	Last Name	Phone Number*	Email Address*
ACH	KENDRA		
Address, City, Zip Code	ode		What topics are you most interested in? (Check all that apply)
			🖎 NISP in General 🛛 🔊 Recreation 🔊 Pipeline Routes

orthern Wa	Water	NISP Open Ho	NISP Open House Sign In Sheet
Su	roject	OCTOD	OCTODEL 9, ZULY
First Name	Last Name	Phone Number*	Email Address*
PANIERA	HONEGGER		
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			NISP in General 🛛 Recreation Pipeline Routes
First Name	Last Name	Phone Number*	Email Address*
Jean	dibertan.		
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			□ NISP in General □ Recreation □ Pipeline Routes
First Name	Last Name	Phone Number*	Email Address*
11:51	Ashloy		
Address, City, Zip Code	Code /		What topics are you most interested in? (Check all that apply)
			 NISP in General Recreation Pipeline Routes Highway 287 Larimer County IGA Process
First Name	Last Name	Phone Number*	Email Address*
TAUL	NAHM/45		
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			NISP in General & Recreation & Pipeline Routes Highway 287 A arimer County IGA Process
First Name	Last Name	Phone Number*	Email Address*
ARMUR	ABPLANARP		
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			MISP in General Recreation Pipeline Routes

NISP

BCC 08/17/20

Northern Integrated Supply Project	ater Iv Project	NISP Open Ho Octob	SP Open House Sign In Sheet October 9, 2019
First Name	Last Name	Phone Number*	Email Address*
John	Hage		
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			KNISP in General Recreation Pipeline Routes
First Name	Last Name	Phone Number*	Email Address*
Dugre	Pond		
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			미 NISP in General 기 Recreation 다 Pipeline Routes 미 Highway 287 니 Larimer County IGA Process
First Name	Last Name	Phone Number*	Email Address*
Kin	Nelson		
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			×NISP in General n Recreation ひをipeline Routes たHighway 287 、 としarimer County IGA Process
First Name	Last Name	Phone Number*	Email Address*
SIEPHAN	MENNETH		
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			KNISP in General Kecreation Kepipeline Routes
First Name	Last Name	Phone Number*	Email Address*
larel	AdaCM		•
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			Image: NISP in General Recreation Pipeline Routes Image: Highway 287 Larimer County IGA Process

Northern Vater	Water	NISP Open He Octob	NISP Open House Sign In Sheet October 9, 2019
First Name	Last Name	Phone Number*	Email Address*
Janna	Alexander		
Address, City, Zip Code	p Code	ł	What topics are you most interested in? (Check all that apply)
			AVISP in General AVISP in General AVISP in Larimer County IGA Process
First Name	Last Name	Phone Number*	Email Address*
Elizabeth	herbach		
Address, City, Zip Code	ip Code	-	What topics are you most interested in? (Check all that apply)
			XISP in General Recreation XPipeline Routes
First Name	Last Name	Phone Number*	Email Address*
DONNA	BRAGINETZ		
Address, City, Zip Code	p Code		What topics are you most interested in? (Check all that apply)
			X NISP in General IRecreation X Pipeline Routes
First Name	Last Name	Phone Number*	Email Address*
LARRY	LECHNER		
Address, City, Zip Code	p Code		What topics are you most interested in? (Check all that apply)
			X NISP in General T Recreation X Pipeline Routes
First Name	Last Name	Phone Number*	Email Address*
Jim	HEBBELD		
Address, City, Zip Code	p Code		What topics are you most interested in? (Check all that apply)
			Durits in General Recreation Durits Routes

V O S	Northern Mater	ter	NISP Open Ho Octob	NISP Open House Sign In Sheet October 9, 2019
-	First Name	Last Name	Phone Number*	Email Address*
100	MIM	Whitin		
	Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
				NISP in General Recreation Pipeline Routes Highway 287 Larimer County IGA Process
-	First Name	Last Name	Phone Number*	Email Address*
LCC	Dubarah	nomling		
	Address, City, Zip Code	1.1.1.1.1		What topics are you most interested in? (Check all that apply)
				XNISP in General 🛛 Recreation XPipeline Routes XHighway 287 ALarimer County IGA Process
-	First Name	Last Name	Phone Number*	Email Address*
	<i>tenete:</i> Traci	Mellos		
	Address, City, Zip Code	ode		What topics are you most interested in? (Check all that apply)
				VISP in General Recreation Pipeline Routes
	First Name	Last Name	Phone Number*	Email Address*
	Mark	Loader		
1.00	Address, City, Zip Code	ode	1	What topics are you most interested in? (Check all that apply)
				NISP in General Recreation Pipeline Routes Aflighway 287 Larimer County IGA Process
a maine	First Name	Last Name	Phone Number*	Email Address*
CONTRACTOR OF STREET	Town	NESSIT		
-	Address, City, Zip Code	ode		What topics are you most interested in? (Check all that apply)
				AVISP in General Largecreation & Pipeline Routes

>

* Providing email address and phone number is optional. Data will be used to document open house attendance, interest, and geographical representation.



MEMORANDUM

To:Mr. Rob Helmick: Larimer County Development PlanningFrom:Carl Brouwer, Stephanie Cecil, Christie Coleman: Northern WaterDate:January 13, 2020Subject:Northern Integrated Supply Project (NISP)Dec. 18 Bonner Peaks and LCR 29C Neighborhood Open House

The Northern Colorado Water Conservancy District (Northern Water) held an open house at the Livermore Community Hall in Larimer County on December 18, 2019 from 3:00 p.m. to 7:00 p.m. Notifications for this open house were sent to:

- Properties and property owners in the LCR 29C Neighborhood
- Properties and property owners in the Bonner Peak Neighborhood

A total of approximately 158 notifications regarding NISP and the Open House were sent out on December 3. Names, addresses, and property information for these notifications was taken from the Larimer County Accessor's Parcel Database. Emails were also sent to the limited number of property owners in these neighborhoods that we had email addresses for with invitations to the open house and the request that they share that invitation with their neighbors.

A total of 34 people signed in at the NISP Open House. Most provided some form of contact information. It is believed that for most couples or families, only one person signed in, and others could have attended who choose not to sign in. Northern Water personnel staffed the open house to answer questions, and some Larimer County personnel attended as well. Multiple handouts, posters, and large-scale maps of the proposed Glade Reservoir recreation plan and recreation areas, U.S. Highway. 287 Relocation, and pipeline areas were displayed at the open house. Information explaining the NISP Project and the content and scope of the proposed 1041 Permit with Larimer County were also presented.

Northern Water received 22 comment cards from the open house. A breakdown of major comment themes is included below:

Issue	No. of Comments	In Support or Neutral	In Opposition
Position on project in general	4	2	2
Boating on reservoir	14	11	3
Request for non-motorized boating	9	-	-
Night-time boating on reservoir	18	1	17
Camping at recreation area	19	13	6
Fishing on reservoir	19	12	7
Trails in recreation area	19	14	5
Call for turn lanes at Bonner Peaks or other 287 safety issues	8	-	-

*Some cards contained multiple comments/ issues.

Overall, the comment cards generally reflected the views of the public at the open house. There was support for all proposed types of recreation at Glade Reservoir. Reservoir neighbors generally were neutral or in support of boating on Glade Reservoir. However, multiple people expressed concern over noise associated with motorized boating and the desire to allow only wakeless or electric watercraft on the reservoir and most were not in support of night-time boating. U.S. Highway 287 (U.S. 287) relocation comments focused on perceived safety issues associated with the existing U.S. 287 alignment and a desire for turn lanes at the entrance to the Bonner Peak Neighborhood. While that entrance (the Bonner Springs Ranch Road and U.S. Highway 287 Intersection) is outside of the limits of the U.S. 287 Relocation and the scope of the relocation project. We have been in contact with CDOT sharing the neighborhood's concerns with the intersection, the Owl Canyon intersection, and the overall safety of U.S. 287. Finally, there were no submitted comments on the pipeline routes.

The complete sign-in list and the comment cards from the open house can be found in attachments to this memo.

Public Comments and Sign-in Sheet NISP Open House Larimer County December 18, 2019

	3 4 5 6 7 8 9
What other types of recreation should be considered?	rou like to see at Glade Reservoir? <i>HPRC SE</i>) you? (1 = not and 10 = very important) 1 2 ation should be considered?

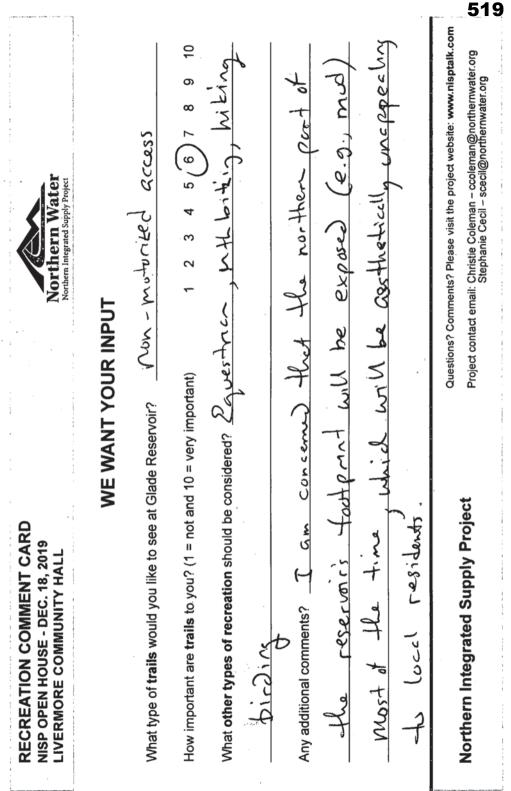
NISP

BCC 08/17/20

Northern Water Northern Integrated Supply Project	WE WANT YOUR INPUT	t Glade Reservoir? Maran BATS KAYRKING	d 10 = very important) 1 2 3 4 5 6 7 8 9 10	boating to you? (1 = not and 10 = very important) 2 3 4 5 6 7 8 9 10	Glade Reservoir?	to you? (1 = not and 10 = very important) 1 2 3 4 5 3 7 8 9 10	Glade Reservoir?	you? (1 = not and 10 = very important) 1 2 3 4 5 6 7 $\overline{(8)}$ 9 10	Questions? Comments? Please visit the project website: www.nisptalk.com Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org
RECREATION COMMENT CARD NISP OPEN HOUSE - DEC. 18, 2019 LIVERMORE COMMUNITY HALL	WE	What type of boating would you like to see at Glade Reservoir?	How important is boating to you? (1 = not and 10 = very important)	How important is nighttime boating to you? (1	What type camping would you like to see at Glade Reservoir?	How important is camping to you? (1 = not and	What type of fishing would you like to see at Glade Reservoir?	How important is fishing to you? (1 = not and 1	Northern Integrated Supply Project

	new canfor	6	tai b	isptalk.com ater.org
Water Supply Project) - paved only canf	2 3 4 5 6 7 8 mantain belain	a south of a	sit the project website: www eman – ccoleman@northerm ecil – scecil@northermwater
Northern Integrated Supply Project	R INPUT	- 5	vilsonent to contrened area south y dan	Questions? Comments? Please visit the project website: www.nisptalk.com Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org
	WE WANT YOUR INPUT	l 10 = very important) onsidered? <u> </u>	lagrent to	
RECREATION COMMENT CARD NISP OPEN HOUSE - DEC. 18, 2019 LIVERMORE COMMUNITY HALL	WE WANT YOUR INPUT المعلمة المعالمة المحافظة المحافظة المحافظة What type of trails would you like to see at Glade Reservoir? "سميلاسط" المحافظة ا	How important are trails to you? (1 = not and 10 = very important) What other types of recreation should be considered? 선전(WnAt Arry	ents? lece de	Northern Integrated Supply Project
RECREATION COMMENT CA NISP OPEN HOUSE - DEC. 18, 201 LIVERMORE COMMUNITY HALL	What type of trails	How important are What other types	Any additional comments?	Northern Integ

KECKEATION COMMENT CARD NISP OPEN HOUSE - DEC. 18, 2019 LIVERMORE COMMUNITY HALL	Northern Water Northern Integrated Supply Project
WE WANT YOUR INPUT	IPUT
What type of boating would you like to see at Glade Reservoir?	refer slow no weeke area
How important is boating to you? $(1 = not and 10 = very important)$	1 2 3 4 5 6 7 8 9 10
How important is nighttime boating to you? (1 = not and 10 = very important) \bigcirc 2	ortant) 🕖 2 3 4 5 6 7 8 9 10
What type camping would you like to see at Glade Reservoir?	X a NU
How important is camping to you? (1 = not and 10 = very important)	1 2 3 4 5 6 7 (8) 9 10
What type of fishing would you like to see at Glade Reservoir?	
How important is fishing to you? (1 = not and 10 = very important)	1 2 3 40 5 6 7 8 9 10
Question Northern Integrated Supply Project	Questions? Comments? Please visit the project website: www.nisptalk.com Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org



	Northern Water Northern Integrated Supply Project
WE WANT YOUR INPUT	UR INPUT
What type of boating would you like to see at Glade Reservoir?	non-mutarized
How important is boating to you? (1 = not and 10 = very important)	nt) 1 2 3 4 5 6 7 8 9 10
How important is nighttime boating to you? (1 = not and 10 = very important	ery important (1) 2 3 4 5 6 7 8 9 10
What type camping would you like to see at Glade Reservoir?	tent only
How important is camping to you? (1 = not and 10 = very important)	ant) 1 2 3 4 5 6 7 8 9 10
What type of fishing would you like to see at Glade Reservoir?	non-motorized
How important is fishing to you? (1 = not and 10 = very important)	11) 1 2 3 4 5 6 7 8 9 10
Northern Integrated Supply Project	Questions? Comments? Please visit the project website: www.nisptalk.com Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org

Northern Water Northern Integrated Supply Project	OUR INPUT		ant) 1 2 3 4 5 6 7 8 9 10		TLEASE ADDRESS THE 287 INFRSECTION	TURN 2 AMES 4 YOU SHOULD EXTEND	To CORRECT & Helly	Questions? Comments? Please visit the project website: www.nisptalk.com Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org
RECREATION COMMENT CARD NISP OPEN HOUSE - DEC. 18, 2019 LIVERMORE COMMUNITY HALL	WE WANT YOUR INPUT	What type of trails would you like to see at Glade Reservoir?	How important are trails to you? (1 = not and 10 = very important)	What other types of recreation should be considered?	Any additional comments? TLEASE ADORAS	WE HAVE NO TURN I AND	287 Inprements To	1

RECREATION COMMENT CARD NISP OPEN HOUSE - DEC. 18, 2019 LIVERMORE COMMUNITY HALL	N ^v	or them	Northern Northern Integrated 5		Northern Water					
WE WANT YOUR INPUT	OUR INPUT									-
What type of boating would you like to see at Glade Reservoir?	6									
How important is boating to you? (1 = not and 10 = very important)	tant) 1	2	ŝ	4	5	9	7	õ	6	10
How important is nighttime boating to you? (1 = not and 10 = very important) 1	very important) 1	2	e	4	5	9	7	œ	6	10
What type camping would you like to see at Glade Reservoir?							· .			
How important is camping to you? (1 = not and 10 = very important)	ortant) 1	~	ŝ	4	5	9	7	80	S	10
What type of fishing would you like to see at Glade Reservoir?										
How important is fishing to you? (1 = not and 10 = very important)	ant) [.] 1	5	e	4	5	9	7	ø	0	10
										I
Northern Integrated Supply Project	Questions? Comments? Please visit the project website: www.nisptalk.com Project contact email: Christie Coleman – ccoleman@northernwater.org Stenhanie Cecil – sceci@northernwater.org	its? P Chrii Step	lease stie C	visit t olema Cecil	he pro an - cc	ject w colema cil@n	ebsite in@no	: www orther	v.nispt nwater r.org	corg

Northern Integrated Supply Project	WE WANT YOUR, IMPUT Glade Reservoir? for a bar flort f ast Sidf and 10 = very important) 1 2 3 4 5 6 7 8 9 10 considered?	Questions? Comments? Please visit the project website: www.nisptalk.com Project contact email: Christie Coleman - ccoleman@northernwater.org Stephanie Cecil - scecil@northernwater.org
RECREATION COMMENT CARD NISP OPEN HOUSE - DEC. 18, 2019 LIVERMORE COMMUNITY HALL	What type of trails would you like to see at Glade Reservoir? What type of trails to you? (1 = not and 10 = very important) What other types of recreation should be considered? Any additional comments?	Northern Integrated Supply Project

WE WANT YOUR INPUT What type of boating would you like to see at Glade Reservoir? Aishing Acceleration How important is boating to you? (1 = not and 10 = very important) 1 2 3 4 5 6 7 8 9 10 How important is nighttime boating to you? (1 = not and 10 = very important) 1 2 3 4 5 6 7 8 9 10 What type camping would you like to see at Glade Reservoir? Outhold for the follor Outhold for the follor 6 7 8 9 10 What type of fishing would you like to see at Glade Reservoir? Outhold for the follor 1 2 3 4 5 6 7 8 9 10 How important is camping to you? (1 = not and 10 = very important) 1 2 3 4 5 6 7 8 9 10 What type of fishing would you like to see at Glade Reservoir? Multion 1 2 3 4 5 6 7 8 7 How important is fishing to you? (1 = not and 10 = very important) 1 2 3 <t< th=""><th>NISP OPEN HOUSE - DEC. 18, 2019 LIVERMORE COMMUNITY HALL</th><th>Northern Water Northern Integrated Supply Project</th></t<>	NISP OPEN HOUSE - DEC. 18, 2019 LIVERMORE COMMUNITY HALL	Northern Water Northern Integrated Supply Project
I you like to see at Glade Reservoir? $fishing$ fi	WE WANT YOUR IN	UT A A
by you? (1 = not and 10 = very important)123456789boating to you? (1 = not and 10 = very important)12 3 456789you like to see at Glade Reservoir? 0 0 1 2 3 456789you like to see at Glade Reservoir? 0 1 2 3 456789you like to see at Glade Reservoir? 1 2 3 456789you like to see at Glade Reservoir? 1 2 3 456789you like to see at Glade Reservoir? 1 2 3 456789you? (1 = not and 10 = very important)12 3 456789	What type of boating would you like to see at Glade Reservoir?	Fishing Lecception
boating to you? (1 = not and 10 = very important)12 3 456789you like to see at Glade Reservoir? $autrollol$ $autrollol<$	How important is boating to you? (1 = not and 10 = very important)	3 4 5 6 🖑 8 9
to you? (1 = not and 10 = very important) $1 2 \oplus 4 5 \oplus 7 \oplus 9$ you like to see at Glade Reservoir? you? (1 = not and 10 = very important) $1 2 \oplus 3 \oplus 5 \oplus 7 \oplus 9$		1 2 3 4 5 6 7 8 9 Utrolled
you like to see at Glade Reservoir? $\int bu h y h u h f h u h h h h h h h h h h h h h h$		G
you? (1 = not and 10 = very important) 1 2 3 4 5 6 7 8 9 (What type of fishing would you like to see at Glade Reservoir?	Hourgant
	How important is fishing to you? (1 = not and 10 = very important)	6 7 8 9 (

Northern Integrated Supply Project	WE WANT YOUR INPUT	Ervoirs NOVE ON NORTH END ORWER	/ important) (1) 2 3 4 5 6 7 8 9 10		Orty			Questions? Comments? Please visit the project website: www.nisptalk.com Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org
RECREATION COMMENT CARD NISP OPEN HOUSE - DEC. 18, 2019 LIVERMORE COMMUNITY HALL	WE WA	What type of trails would you like to see at Glade Reservoir?	How important are trails to you? (1 = not and 10 = very important)	What other types of recreation should be considered?	Nove MOTORIZED	Any additional comments?		Northern Integrated Supply Project

	1 8 8 10 10 10 10 10 10 10 10 10 10 10 10 10								1	520	
			2	10	10	10	1	10		Questions? Comments? Please visit the project website: www.nisptalk.com Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org	5 4 K 4 2 4
			2420	თ	თ	6		, o		Questions? Comments? Please visit the project website: www.nisptalk. Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org	
			0	ω	Ø	œ		œ		www rthern water	and the second
			\neg	7	7	7		7		tbsite: n@no	
			Motorizel	9	9	9		9		ect we ofemal	
	Water upply Project		17	5	5	5		5		a proje ccc - scec	
			2 C	4	4	4		4		isit the leman Cecil -	
	her		1-0	ო	б	e		ო		ase v tie Col	
	Northern Water			\bigcirc 2) 2	1)2		2		s? Ple Christ Steph	
	Zž	F	Z	Θ				(\Box)		ment email:	-
		ΠDΠ	101		ortan V			/		? Con	
		R IN	Nove		impe A	a				stions'	
		WE WANT YOUR INPUT		to you? (1 = not and 10 = very important)	How important is nighttime boating to you? (1 = not and 10 = very important) (1) 2 What type camping would you like to see at Glade Reservoir?	How important is camping to you? (1 = not and 10 = very important)		ant)		Ques Proje	- - -
	ارد	×	What type of boating would you like to see at Glade Reservoir?	Iodu	10 = voir?	impo	What type of fishing would you like to see at Glade Reservoir?	How important is fishing to you? (1 = not and 10 = very important)			;
		IN	Rese	ery i	and > eser	very	leser	in Ti			
		Ň	ade I	> = 0	de R	= 0	de R	= V6			-
		۲ ۲	at Gl	10 10	to you? (1 = ng	and	t Gla	d 10			
	0	>	see	iot ai	you? %e.L	not	ee a	ot an		Supply Project	-
	IENT CARD C. 18, 2019 TY HALL		e to	1		(1 =	tos	= 00		Pro	1
	T C, 1, 20		u lik	.) ¿n	ating like ∕	;no	ı like	1) (1		ply	1
			ld yo	to yo	e bo	to y	d you	o you		gup	
	UNI DEC		non		ittim ould	ping	vould	ng ta		eq	
	RECREATION COMMENT CAN NISP OPEN HOUSE - DEC. 18, 2019 LIVERMORE COMMUNITY HALL		ting	How important is boating	How important is nighttim What type camping would	cam	ing v	lishi		Northern Integrated	2
			boa	nt is	nt is moi	nt is	fish	nt is 1		ntei	
			e of	ortal	ortai	ortai	e of	ortar		· E	1
			at typ	/ imp	/ imp	, imp	at typ	imp		the	
	RE NISI		Whe	Ном	How	Мом	Whe	How		Nor	يد المولد الم
_											_

Northern Water Northern Integrated Supply Project	WE WANT YOUR INPUT Glade Reservoir? Prim. 7. 2- Lolle Red Munt Open Pro	important) $1 \underbrace{2}{3} 4 5 6 7 8 9 10$	interaction of BonnerSpringe w 287. reservoir but watergoes out of	Questions? Comments? Please visit the project website: www.nisptalk.com Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org
RECREATION COMMENT CARD NISP OPEN HOUSE - DEC. 18, 2019 LIVERMORE COMMUNITY HALL	What type of trails would you like to see at Glade Reservoir?	How important are trails to you? (1 = not and 10 = very important) What other types of recreation should be considered? $\sqrt{\delta}$	Any additional comments? Improve interva Most i mpact will be at reserve county they recerve the p	Northern Integrated Supply Project

NISP OPEN HOUSE - DEC. 18, 2019 LIVERMORE COMMUNITY HALL	Northern Water Northern Integrated Supphy Project
WÉ WANT YOUR INPUT	NPUT
What type of boating would you like to see at Glade Reservoir?	cause they to No Motor
How important is boating to you? (1 = not and 10 = very important)	1 2 3 4 5 6 7 8 9 10
How important is nighttime boating to you? (1 = not and 10 = very important) $\frac{1}{1}$	bortan(1)2 3 4 5 6 7 8 9 10
What type camping would you like to see at Glade Reservoir?	Primi7-se
How important is camping to you? (1 = not and 10 = very important)	2 3 4 5 6 7 8 9 10
What type of fishing would you like to see at Glade Reservoir?	Not meterestad
How important is fishing to you? (1 = not and 10 = very important)	1 3 4 5 6 7 8 9 10
°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°	Questions? Comments? Please visit the project website: www.nisptalk.com
Northern Integrated Supply Project Project	Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org

1						5	5	529
Northern Integrated Supply Project	NPUT		(1)2 3 4 5 6 7 8 9 10		bout the buck 28>	ins ? Very hazandou	in laves @ R's Sering Form	Q Questions? Comments? Please visit the project website: www.nisptalk.com Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org
RECREATION COMMENT CARD NISP OPEN HOUSE - DEC. 18, 2019 LIVERMORE COMMUNITY HALL	WE WANT YOUR INPUT	What type of trails would you like to see at Glade Reservoir?	How important are trails to you? (1 = not and 10 = very important)	What other types of recreation should be considered?	Any additional comments? HAS NISP Con File / Regime departments a	Malignment + Safey Conclin	conditions exist for no hu	Questions Northern Integrated Supply Project Project ∞
BCC 08/17	7/20						1	NIS

RECREATION COMMENT CARD NISP OPEN HOUSE - DEC. 18, 2019 LIVERMORE COMMUNITY HALL	Northern Water Northern Integrated Supply Project	
WE WANT YOUR INPUT	ŬŢ	
What type of boating would you like to see at Glade Reservoir?		
How important is boating to you? (1 = not and 10 = very important)	(1) 2 3 4 5 6 7 8 9 10	
How important is nighttime boating to you? (1 = not and 10 = very important) $\cancel{1}$ 2	ant) 1 2 3 4 5 6 7 8 9 10	
What type camping would you like to see at Glade Reservoir?		
How important is camping to you? (1 = not and 10 = very important)	(1) 2 3 4 5 6 7 8 9 10	
What type of fishing would you like to see at Glade Reservoir?		
How important is fishing to you? (1 = not and 10 = very important)	(1) 2 3 4 5 6 7 8 9 10	
 Questions? C Northern Integrated Supply Project Project conta	Questions? Comments? Please visit the project website: www.nisptalk.com Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org	53(
		,

531 Questions? Comments? Please visit the project website: www.nisptalk.com 9 9 Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org თ ω WADDINEY MUL ഗ Northern Integrated Supply Project Vater ŝ Northern ĉ 2 Û WE WANT YOUR INPUT Perup SP How important are trails to you? (1 = not and 10 = very important) What type of trails would you like to see at Glade Reservoir? What other types of recreation should be considered? NO DO Northern Integrated Supply Project **RECREATION COMMENT CARD NISP OPEN HOUSE - DEC. 18, 2019** LIVERMORE COMMUNITY HALL g Any additional comments? across -Capago ,001 NISP

			0		±1	532
	1		226	C	-	COM
	202	10	No.	10	10	ptalk. er.org
4	Za	თ თ	je i	6	6	w.nis nwate er.org
	JBA	α α	, d	8	8	e: ww orther nwate
1 1	mer renu	7	.n	4	7	ebsite an@n orther
	22	y a	, E	.9	9	ect w olema cil@n
y Project	Monues	r v	gunden	5	5	e pro
	° 1	4 4	T T	4 8	4	visit th temai Cecil
itegrate	Ŷ	` ຕ _່ ເ	, M	3	n	ease v tie Co nanie
Northern Water Northern Integrad Supply Project	9	Sé C	1 -12	V 5) 2	Questions? Comments? Please visit the project website: www.nisptalk.com Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org
No.	⊢ X		20	D.A	Ð	ment mail:
1	WE WANT YOUR INPUT	you? (1 = not and 10 = very important) $\int_{1}^{1} \int_{1}^{1} \int_{1}$	and a	à		2 Con
	N 2		Z	A B	17	tions, ct cor
	UR (ant)	P 5	rtant	ant)	Ques
	Voir?	iport 0 = 0	oir,	npol oir?	porta	
	NT	ny in	Serv	ery i	y im	1
	de R	= ve	e Re) = v le Ré	= ver	đ.
÷.	WE WANT YO	/ you? (1 = not and 10 = very important)	Glade	nd 1(Glad	you? (1 = not and 10 = very important)	•
	ee at	t and	e at (ot ar e at	and	ect
° s	to se	= no	o see	l = n o se	= not	loi
CA 201	like	? (1	ke to	u? (1 like t	(1 =	L L L L L L L L L L L L L L L L L L L
ENT 7 HJ		you	il no	o yo you l	you?	ddn
NIT	ould	ng to	nld y	ing t	g to	o p
	.» D	oatir	owle	d we	shin	ate
ON CON CON	oatii	is b	e juid	is că shin	is fi	fegi
ATIC	of b	rtant tant	carr	tant of fi	tant	E E
RE/ OPE	type	Iodu	type	hpor	Iodu	Jer
RECREATION COMMENT CARD NISP OPEN HOUSE - DEC. 18, 2019 LIVERMORE COMMUNITY HALL	What type of boating would	How important is boating to	What type camping would you like to see at Glade Reservoir?	How important is camping to you? (1 = not and 10 = very important) What type of fishing would you like to see at Glade Reservoir?	How important is fishing to	Northern Integrated Supply Project
E Z J	S	тэ	5	I S	I	Z
L			j.(.)	*		

RECREATION COMMENT CARD NISP OPEN HOUSE - DEC. 18, 2019 LIVERMORE COMMUNITY HALL Northern Integrated Supply Project	What type of trails would you like to see at Glade Reservoir? Now, We have beauthful places to	How important are trails to you? (1 = not and 10 = very important) 1 2 3 4 5 6 7 8 9 10 The Mr This is a trick question. Trails are very up to 1 What other types of recreation should be considered? build the reservate for the hold in the trails of Golde!	Any additional comments? We are apposed to the duct that one beatthed they additional communities will bear all the impacts from a	project that builds progu tak away. Drase fied alteratives that but the impacts near the end works.	Northern Integrated Supply Project Project contact email: Christie Coleman – coleman@northernwater.org Stephanie Cecil@northernwater.org Steph
œ z ⊐ BCC 08/17		IS		I	Z

		43	-6						534
Northern Water Northern Integrated Supply Project		you like to see at Glade Reservoir? Zeward Hus a nut of a receive in	iortant) 1 2 3 4 5 6 7 8 9 10 i-boatingis very wigt in that we do not	How important is nightime boating to you? (1 = not and 10 = very important) 1 2 3 4 5 6 7 8 9 10-1	NANG	How important is camping to you? (1 = not and 10 = very important) 1 2 3 4 5 6 7 8 9 10 Territorial the question - compired is very in portant, don't	Nove	1? (1 = not and 10 = very important) 1 2 3 4 5 6 7 8 9 10 function - Sishing is in pt - don't allowing.	Questions? Comments? Please visit the project website: www.nisptalk.com Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org
RECREATION COMMENT CARD NISP OPEN HOUSE - DEC. 18, 2019 LIVERMORE COMMUNITY HALL	WE WANT YOUR INPUT	What type of boating would you like to see at Glade Reservo	How important is boating to you? (1 = not and 10 = very important is boating to you?)	How important is nighttime boating to you? (1 = not and 10 =	What type camping would you like to see at Glade Reservoir? NMA	How important is camping to you? (1 = not and 10 = very imp Townered the question	What type of fishing would you like to see at Glade Reservoir	How important is fishing to you? (1 = not and 10 = very important) Thurord function - SSNing i	Northern Integrated Supply Project

at the sequence frequencies of the term						535
Northern Integrated Supply Project	OUR INPUT	rtant) 1 2 3 4 (5) 6 7 8 9 10	Inter is CONTAINT - /CIV THE CONDUCTION	SAFETY AT BONNER SPRINGS RANCH ROMD	Our CANYON'S CDOT - WARD UPS	Questions? Comments? Please visit the project website: www.nisptalk.com Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org
RECREATION COMMENT CARD NISP OPEN HOUSE - DEC. 18, 2019 LIVERMORE COMMUNITY HALL	WE WANT YOUR INPUT	How important are trails to you? (1 = not and 10 = very important) What other types of recreation should be considered?		- ba	(BONNER PENTY) AND OWN CANY	Northern Integrated Supply Project

			-	_	1	~	1	-		536 E
			10	10		10		10		Questions? Comments? Please visit the project website: www.nisptalk.com Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org
			6	б		6	*	6		Questions? Comments? Please visit the project website: www.nisptalk. Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org
			0	80		6		80		inorthe ernwa
	-	~ o	6 7	6 7		9	20	6		webs nan@
ofer t		180	5	2		5		5 6 7		roject ccoler cecil@
Wat Wat		17	4	4		4		4		t the p nan - cil - s
Northern Water		NON-MOTORIZE	ŝ	ŝ		e	055	ŝ		se visi Coler nie Ce
en Inte		10	2	5		2	400	2		Pleas hristie tephar
North	L	Ŵ	-		ha	~	h	-		nents? nail: C
	5	31		tant	nd		1			Comn act en
	Z	A.		Iodu	X		A			ions? t cont
-	WE WANT YOUR INPUT		ant)	/ery i		to you? (1 = not and 10 = very important)		nt)		Quest Projec
1	20	voir?	port	-= 0	oir?	mpor	'oir?	porta		
	Ł	eser	in Ti	1 June	serv	ery i	sen	y im		-
	M	de R	= 46	not	e Re	> = 0	de Re	= vei	4	
1	м́н	t Gla	ld 10	(1 =	you like to see at Glade Reservoir?	nd 1	Glac	110		
•	5	see a	ot an	¿no/	e at	not a	ee at	ot and		ject
ARI 19		e to s	u = 1	g to)	to se		to se	· 9	1	Pro
T C 3, 20		u like		atinç	like	ino	ı like	13 (1		ply
TY IS		ld yo	to yo	e bo			d you	o you		Sup
		now	MOTO	ittim	/ould	ping	vould	ing to		pa
I CC DMN		ting	boal	nigh	v Bu	cam	ing /	fishi		grat
NOL HOL		í boa	nt is	int is	ampi	int is	fish	nt is		nte
RECREATION COMMENT CARD NISP OPEN HOUSE - DEC. 18, 2019 LIVERMORE COMMUNITY HALL		What type of boating would you like to see at Glade Reservoir?	Wow important is boating to you? (1 = not and 10 = very important)	How important is nighttime boating to you? ($1 = not$ and $10 = very$ important (1)	What type camping would	How important is camping	What type of fishing would you like to see at Glade Reservoir?	How important is fishing to you? (1 = not and 10 = very important)		Northern Integrated Supply Project
SP O		at ty	w im	w im	at ty	w in	at ty	w imj		rthe
R SIN		Ą	Ho	Ho	Ą	Hov	Å	Ho		No

	ार्खे			537 ह
Northern Integrated Supply Project	WE WANT YOUR INPUT Absolute (Newine an west side Glade Reservoir? Sand Side Reservoir? Sand Side Reservoir?	ortant) 1 2 (3) 4 5 6 7 8 9 10		Questions? Comments? Please visit the project website: www.nisptalk.com Project contact email: Christie Coleman - ccoleman@northernwater.org Stephanie Cecil - scecil@northernwater.org
RECREATION COMMENT CARD NISP OPEN HOUSE - DEC. 18, 2019 LIVERMORE COMMUNITY HALL	WE WANT YOUR INPUT Absolute Nervinus of What type of trails would you like to see at Glade Reservoir? 232 524 05 Reservoir	How important are trails to you? (1 = not and 10 = very important) What other types of recreation should be considered?	Any additional comments?	Northern Integrated Supply Project

Northern Water Northern Integrated Supply Project	10/21/er, Quiet notans 11233 4 5 6 7 8 9 10	e boating to you? (1 = not and 10 = very important) $\bigcirc 2$ 3 4 5 6 7 8 9 10	00	(\mathcal{O})	Questions? Comments? Please visit the project website: www.njsptalk.com Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org
RECREATION COMMENT CARD NISP OPEN HOUSE - DEC. 18, 2019 LIVERMORE COMMUNITY HALL WE WANT YOUR INPUT	What type of boating would you like to see at Glade Reservoir? <u>かりん (こ 、 つ う ず) わわい</u> How important is boating to you? (1 = not and 10 = very important) 1(2)345678	How important is nighttime boating to you? (1 = not and 10 = very important) \bigcirc 2	What type of fishing would you like to see at Glade Reservoir?	How important is fishing to you? (1 = not and 10 = very important)	On Northern Integrated Supply Project

}							539
Northern Integrated Supply Project	WE WANT YOUR INPUT	tant) 1 2	ed?	CONSIDER INPROVEMENTS (TURN RAMES)	SPRINGS RANCH ROAD.		Questions? Comments? Please visit the project website: www.nisptalk.com Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org
RECREATION COMMENT CARD NISP OPEN HOUSE - DEC. 18, 2019 LIVERMORE COMMUNITY HALL		while type of trails would you like to see at Glade Reservoir?	What other types of recreation should be considered?	Any additional comments?	TO ZER ANTO BONNEY		Northern Integrated Supply Project

RECREATION COMMENT CARD NISP OPEN HOUSE - DEC. 18, 2019 LIVERMORE COMMUNITY HALL	Northern Water Northern Integrated Supply Project
WE WANT YOUR INPUT	R INPUT
What type of boating would you like to see at Glade Reservoir?<	NON MOTORIZED
How important is boating to you? (1 = not and 10 = very important)	0 2 3 4 5 6 7 8 9 10
How important is nighttime boating to you? (1 = not and 10 = very important) \bigcirc 2	rimportant) 🖉 2 3 4 5 6 7 8 9 10
What type camping would you like to see at Glade Reservoir?	ANT TYPE
How important is camping to you? (1 = not and 10 = very important)	t) . 🌮 2 3 4 5 6 7 8 9 10
What type of fishing would you like to see at Glade Reservoir?	4~T
How important is fishing to you? (1 = not and 10 = very important)	1234 6 6 7 8 9 10
•	
Que Northern Integrated Supply Project Proj	Questions? Comments? Please visit the project website: www.nisptalk.com Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org

I NISP

				1			541
Northern Water Northern Integrated Supply Project	OUR INPUT	mainly walking	tant) 1 2 3 4 5 6 7 8 9 (10)		would like to see left and right turn laws k neighborhood off HW 287.		Questions? Comments? Please visit the project website: www.nisptalk.com Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org
RECREATION COMMENT CARD NISP OPEN HOUSE - DEC. 18, 2019 LIVERMORE COMMUNITY HALL	WE WANT YOUR INPUT	What type of trails would you like to see at Glade Reservoir? Main y wal king	How important are trails to you? (1 = not and 10 = very important)	What other types of recreation should be considered?	iy additional comments?	1 1	Northern Integrated Supply Project

RECREATION COMMENT CARD NISP OPEN HOUSE - DEC. 18, 2019 LIVERMORE COMMUNITY HALL	Northern Integrated Supply Project	LTI Tated St	Na Vidqu	nject		-		· · · ·	*	
WE WANT YOUR INPUT										
What type of boating would you like to see at Glade Reservoir? <u>no no hori</u> zud	notorize	9				*			1	
How important is boating to you? (1 = not and 10 = very important)	1 2 ③		4	5	9	2	80	6	10	
How important is nighttime boating to you? (1 = not and 10 = very important) (1)	3	e	4	5	9	2	80	თ	10	
What type camping would you like to see at Glade Reservoir?										
How important is camping to you? (1 = not and 10 = very important)	1 2	e	4	2	9	2	æ	o	10	
What type of fishing would you like to see at Glade Reservoir?		<i></i>								
How important is fishing to you? (1 = not and 10 = very important)	1 2	ŝ	4	5	. 9	7	7 (8) 9	6	10	
Questions? Comments? Please visit the project website: www.nisptalk.com Northern Integrated Supply Project Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil@northernwater.org	ients? Pleas iail: Christie Stephan	e visi Coler ie Ce	t the I nan - cil - s	orojec ccole cccil(t web: man(site: v Ønort	hernw	nispta vater.o	alk.co	54, E
			-	-			1	1	-	

Bicycle to Fur Collers. And ggoorwity to connect contact email: Christie Coleman-cooleman@northernwater.org Bricycle to Fur Collers. And ggoorwity to connect with or Stephanie Cecil-scecil@northernwater.org Briten the County's Ander Pleasant Valley Trait Stor at its terraines A work on Latte. Thunks NC1 296. Questions? Comments? Please visit the project website: www.nisptalk.com Lar 0+ burd (10 40 6 accoss it's the ONIY way 287's rectignment presents duriner country and CDOT W/ a fantachi apparturity ω Any additional comments? I dive or 294 . The would be disapportating to Me What type of trails would you like to see at Glade Reservoir? <u>Koulk Jick Fronks Trechor</u> Unpoved there is Mithe for greet running How important are trails to you? (1 = not and 10 = very important) 1 2 3 4 5 6 7 LAPA invour bringere U accessibility on what is presenting US-287 from Ted's Mued) ese from CH. 14 to 5460. It's search to rile and right now, And it's the O the Court Northern Water Northern Integrated Supply Project Including fishing access trail were not accessible from WE WANT YOUR INPUT What other types of recreation should be considered? $\overline{B_{it}A_{U}M_{M_{v}}}$ How important are trails to you? (1 = not and 10 = very important) Northern Integrated Supply Project **RECREATION COMMENT CARD NISP OPEN HOUSE - DEC. 18, 2019** SUFFORMING COMMUNITIED. LIVERMORE COMMUNITY HALL Shorein BCC 08/17/20

RECREATION COMMENT CARD NISP OPEN HOUSE - DEC. 18, 2019 LIVERMORE COMMUNITY HALL	Northern Water Northern Integrated Supply Project
WE WANT YOUR INPUT	JR INPUT
What type of boating would you like to see at Glade Reservoir?	Maybe book rentaris? I don't own a book (yes)
How important is boating to you? (1 = not and 10 = very important)	nt) 1 (2) 3 4 5 6 7 8 9 10
How important is nighttime boating to you? (1 = not and 10 = very important) 1	ery important) 1 (2) 3 4 5 6 7 8 9 10
What type camping would you like to see at Glade Reservoir?	
How important is camping to you? (1 = not and 10 = very important)	ant) 1 2 3 4 5 6 7 8 9 10
What type of fishing would you like to see at Glade Reservoir?	Mch.
How important is fishing to you? (1 = not and 10 = very important)	t) 1 2 3 4 5 6 7 8 9 10
Orthern Integrated Supply Project	Questions? Comments? Please visit the project website: www.nisptalk.com Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org

7/20	LIVERMORE COMMUNITY HALL Northern Integrated Supply Project
	WE WANT YOUR INPUT
-	What type of traits would you like to see at Glade Reservoir? HORSE HIKING CHCLINT
-	How important are trails to you? (1 = not and 10 = very important) 1 2 3 4 5 6 7 8 9 10
*	What other types of recreation should be considered?
	Any additional comments? 6 000 PRHUNTION
1	
- NISI	Northern Integrated Supply Project Questions? Comments? Please visit the project www.nisptalk.com Rest Project contact email: Christie Coleman – ccoleman@northernwater.org Rest Rephanie Cecil Stephanie Cecil@northernwater.org

RECREATION COMMENT CARD NISP OPEN HOUSE - DEC. 18, 2019 LIVERMORE COMMUNITY HALL	
WE WANT YOUR INPUT	
What type of boating would you like to see at Glade Reservoir?	
How important is boating to you? (1 = not and 10 = very important) 1 2 3 (4) 5 6 7 8 9	9 10
How important is nighttime boating to you? (1 = not and 10 = very important) (1) 2 3 4 5 6 7 8 9	9 10
What type camping would you like to see at Glade Reservoir? CANVAS, CABINS, RVS	
How important is camping to you? (1 = not and 10 = very important) 1 2 3 4 5 6 7 8 9	9 10
What type of fishing would you like to see at Glade Reservoir? WELL STOCKED TO RETIACT VISITION	VISTRACC
How important is fishing to you? (1 = not and 10 = very important) 1 2 (3) 4 5 6 7 8 9	9 10
Ouestions? Comments? Please visit the project website: www.nisptalk.com Northern Integrated Supply Project Project contact email: Christie Coleman@northernwater.org Stephanie Cecil – scecil@northernwater.org	isptalk.com ater.org

			7 8 9 10		stury		ebsite: www.nisptalk.com an@northernwater.org orthernwater.org
Northern Water Northern Integrated Supply Project	PUT	nove	(1) 2 3 4 5 6	,	to have a 20 to 21st cent	. Sw	Questions? Comments? Please visit the project website: www.nisptalk.com Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org
CARD 019 -L	WE WANT YOUR INPUT	to see at Glade Reservoir?	1 = not and 10 = very important)	should be considered?	when solution	problems	
RECREATION COMMENT CARD NISP OPEN HOUSE - DEC. 18, 2019 LIVERMORE COMMUNITY HALL		What type of trails would you like to see at Glade Reservoir?	How important are trails to you? (1 = not and 10 = very important)	What other types of recreation should be considered?	Any additional comments?		Northern Integrated Supply Project

1 .				549
RECREATION COMMENT CARD NISP OPEN HOUSE - DEC. 18, 2019 LIVERMORE COMMUNITY HALL Northern integrated Supply Project	WE WANT YOUR INPUT What type of trails would you like to see at Glade Reservoir?	How important are trails to you? (1 = not and 10 = very important) 1 2 3 4 5 6 7 8 9 10 What other types of recreation should be considered?	Any additional comments? Please improve the safety of 287. It is a negletimese. Need a median du separet northes southbould tactive. Nord reflectors. Car't see the white aveillow striper wo	Northern Integrated Supply Project Questions? Comments? Please visit the project website: www.nisptalk.com Review of the project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil@northernwater.org

550 Questions? Comments? Please visit the project website: www.nisptalk.com 10 10 10 9 Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org σ σ σ σ α œ 8 œ 2 9 ø G g Northern Water Northern Integrated Supply Project S S S S 4 đ 4 4 3 ŝ c c 2 2 2 N How important is **nighttime boating** to you? (1 = not and 10 = very important) WE WANT YOUR INPUT How important is **camping** to you? (1 = not and 10 = very important) How important is **boating** to you? (1 = not and 10 = very important) How important is **fishing** to you? (1 = not and 10 = very important) What type of **boating** would you like to see at Glade Reservoir? What type of fishing would you like to see at Glade Reservoir? What type camping would you like to see at Glade Reservoir? Northern Integrated Supply Project **RECREATION COMMENT CARD** NISP OPEN HOUSE - DEC. 18, 2019 LIVERMORE COMMUNITY HALL BCC 08/17/20 NISP

				551
Northern Integrated Supply Project	WE WANT YOUR INPUT Glade Reservoir?	portant) 1 2 3 4 5 6 7 8 9 10	Ranch needs a turning is added Aurust harder Energing bedy)	Questions? Comments? Please visit the project website: www.nisptalk.com Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org
RECREATION COMMENT CARD NISP OPEN HOUSE - DEC. 18, 2019 LIVERMORE COMMUNITY HALL	What type of trails would you like to see at Glade Reservoir?	How important are trails to you? (1 = not and 10 = very important) What other types of recreation should be considered?	Any additional comments? BONNER Reck And additional comments? BONNER Reck And and additional construction of the additional additionadditional additional additional additional additional additional	Northern Integrated Supply Project

We want YOUR INPUT What type of boating would you like to see at Glade Reservoir? How important is boating to you? (1 = not and 10 = very important) 1 2 3 4 5 6 7 8 9 10 How important is ingliftime boating to you? (1 = not and 10 = very important) 1 2 3 4 5 6 7 8 9 10 What type camping would you like to see at Glade Reservoir? $\sqrt{n-1}$ </th <th>DUR INPUT fant) 1 2 3 4 5 very important) 1 2 3 4 5 $\sqrt{e_n + 5}$ $6_n + \sqrt{b_n + 5}$</th> <th>6 7 6</th> <th>ωω</th> <th>ගග</th> <th>9 9 9 (</th>	DUR INPUT fant) 1 2 3 4 5 very important) 1 2 3 4 5 $\sqrt{e_n + 5}$ $6_n + \sqrt{b_n + 5}$	6 7 6	ωω	ගග	9 9 9 (
$\begin{cases} 1 \\ 1 \\ 2 \\ 3 \\ 4 \\ 1 \\ 1 \\ 2 \\ 3 \\ 4 \\ 1 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 1 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 1 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 1 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 1 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 1 \\ 1 \\ 2 \\ 2$	tant) 1 2 3 4 5 very important) 1 2 3 4 5 $\int e^{n+5} 6^{-1} \sqrt{6 -1} \sqrt{6 -1}$	6 7	ωω	തത	9 9 9 (
) 1 2 3 4 5 6 7 8 9 vimportant) 1 2 3 4 5 6 7 8 9 fonts 6 7 8 9 fonts 6 7 8 9 fonts 1 2 3 4 5 6 7 8 9 fonts 1 2 3 4 5 6 7 8 9 1 2 3 4 5 6 7 8 9	tant) 1 2 3 4 5 very important) 1 2 3 4 5 $\int e^{n+5} 6^{-n+5}$	6 7	ထထ	ത ത	9 9 9
v important) 1 2 3 4 5 6 7 8 9 fents 6 1 t t) 1 2 3 4 5 6 7 8 9 An - f 1 2 3 4 5 6 7 8 9 An - f 1 2 3 4 5 6 7 8 9	very important) 1 2 3 4 5 $\int_{0}^{1} \int_{0}^{1} \int_{0}^{1$	6 7	œ	ດ	e (
$\frac{40.45}{41.7}$ $\frac{41}{123}$ $\frac{41}{123}$ $\frac{41}{123}$ $\frac{41}{123}$ $\frac{41}{5678}$	tents 62				16
$\frac{11}{A_{1-1}}$ $\frac{1}{2}$ $\frac{2}{3}$ $\frac{2}{4}$ $\frac{2}{1}$ $\frac{1}{2}$ $\frac{2}{3}$ $\frac{2}{5}$ $\frac{2}{6}$ $\frac{8}{7}$	•				f
An-1 1234567	1 2 3 4 5		8	6	è)
1 2 3 4 5 6 7	What type of fishing would you like to see at Glade Reservoir? $\sqrt{4\sigma_{-}}$				
	1 2 3 4 5	6 7	æ	6	(P)

Northern Integrated Supply Project	WE WANT YOUR INPUT	noir Turnerld Love to have no ethern trailed montant) 1 2 3 4 5 6 7 8 9 (10)	O live at northern	a the mesting to be able		Questions? Comments? Please visit the project website: www.nisptalk.com Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecil – scecil@northernwater.org
RECREATION COMMENT CARD NISP OPEN HOUSE - DEC. 18, 2019 LIVERMORE COMMUNITY HALL	WE WAN	What type of trails would you like to see at Glade Reservoir?	What other types of recreation should be considered? \geq	Arp of DEDONEDOIR & Any additional comments? I alce from		Northern Integrated Supply Project

LIVERMORE COMMUNITY HALL	Northern Integrated Supply Project
WE WANT YOUR INPUT	JR INPUT
What type of boating would you like to see at Glade Reservoir?	All Undo
How important is boating to you? (1 = not and 10 = very important)	nt) 1 2 3 4 5 6 7 8 9 10
How important is nighttime boating to you? (1 = not and 10 = very important) (1)	ery important) (1) 2 3 4 5 6 7 8 9 10
What type camping would you like to see at Glade Reservoir?	On the South End
How important is camping to you? (1 = not and 10 = very important)	ant) 123456789 (10)
What type of fishing would you like to see at Glade Reservoir?	All Kundo
How important is fishing to you? (1 = not and 10 = very important)	t) 1 2 3 4 5 6 7 8 9 10
o Northern Integrated Supply Project	Questions? Comments? Please visit the project website: www.nisptalk.com Project contact email: Christie Coleman – ccoleman@northernwater.org Stephanie Cecii – scecii@northernwater.org

RECREATION COMMENT CARD NISP OPEN HOUSE INFORMENT TAL NISP OPEN HOUSE A 2019 INFORMENT ALL What type of trails would you like to see at Glade Reservoir? Note that Note that Not type of trails would you like to see at Glade Reservoir? Note that Note type of trails would you like to see at Glade Reservoir? Note that Note type of trails would you like to see at Glade Reservoir? Note that Note type of trails would you like to see at Glade Reservoir? Note that Note type of trails would you like to see at Glade Reservoir? Note that Note that Note that the trails to you? (1 = not and 10 = very important) Note that the trails to you? Note that the project webes to the project webester. Note the trails to you? Note that the project webester. Note the trails to you? Note that the project webester. Note the trails to you?		÷	8 9		, , , , , , , , , , , , , , , , , , ,	www.nisptalk.com
ATION COMMENT CARD IN HOUSE - DEC. 18, 2019 IN HOUSE - DEC. 18, 2016 IN HULL IN HUL			4 5	34	a truls	se visit the project website:
ATION COMMENT CARD IN HOUSE - DEC. 18, 2019 OF WANT YOU WE WANT YOU OF WANT YOU ME WANT YOU WE WANT YOU WE WANT YOU WE WANT YOU WE WANT YOU ME WANT YOU WE WANT YOU WANT YOU WAN	Northe	R INPUT	hiles erly	~	Dif biker	stions? Comments? Pleas
ATION COMMENT CARD IN HOUSE - DEC. 18, 2019 IN HOUSE - DEC. 18, 2019 IN MUNITY HALL of trails would you like to see at G trant are trails to you? (1 = not and trant are trails to you? (1 = not and or types of recreation should be d onal comments? $d_{0,h}(f)$		VE WANT YOU	ar	onsidered? <u>Wo</u>	i VTA Jala	
	RECREATION COMMENT CARD NISP OPEN HOUSE - DEC. 18, 2019 LIVERMORE COMMUNITY HALL	8	of trails would you like to see at G	er types of recreation should be co	Any additional comments? $d_{a,l}H_{a}$	

NISP OPEN HOUSE - DEC. 18, 2019 LIVERMORE COMMUNITY HALL	Northern Water Northern Integrated Supply Project
WE WANT YOUR INPUT	
What type of boating would you like to see at Glade Reservoir?	ومدالمك
How important is boating to you? (1 = not and 10 = very important)	t) 123456789
How important is nighttime boating to you? (1 = not and 10 = very important)	y important) 1 2 3 4 5 6 7 8 9 (10)
What type camping would you like to see at Glade Reservoir?	altel (ampige 1 a trat or lest) (Grapits a must)
How important is camping to you? (1 = not and 10 = very important)	
What type of fishing would you like to see at Glade Reservoir?	slaced 1/2
How important is fishing to you? (1 = not and 10 = very important)) 123456789
On Northern Integrated Supply Project	Questions? Comments? Please visit the project website: www.nisptalk.com Project contact email: Christie Coleman – ccoleman@northernwater.org Stenhanie Cecii – scecil@northernwater.ord

P				NISP Open House Sign In Sheet
42	Northern Water Northern Integrated Supply Project	er	October	: 18, 2019
L	First Name	Last Name	Phone Number*	Email Address*
	herether	Aline bey		
	Address, City, Zip Code	de C		What topics are you most interested in? (Check all that apply)
				NISP in General Recreation Pipeline Routes
				🖌 Highway 287 🛛 🗆 Larimer County 1041 Permit
	First Name	Last Name	Phone Number*	Email Address*
	moi	Rescol	-	
	Address, City, Zip Code	de		What topics are you most interested in? (Check all that apply)
				<u>e</u>
			•	pr:Highway 287 🛛 🗆 Larimer County 1041 Permit
	First Name	Last Name	Phone Number*	Email Address*
	mo/	Sale		•
	Address, City, Zip Code	de		What topics are you most interested in? (Check all that apply)
-				AVISP in General Recreation Pipeline Routes Aviant 2001 Bermit
	First Manage	Lask Name	Phone Minuchauk	
	HIRST Name	Last Name	Phone Number*	Email Address*
	10			
	Address, City, Zip Code	de		What topics are you most interested in? (Check all that apply)
				le Le
		-		Highway 287 Larimer County 1041 Permit
	First Name	Last Name	Phone Number*	Email Address*
	Address, City, Zip Code	de		What topics are you most interested in? (Check all that apply)
				<u>a</u>
				Highway 287

* Providing email address and phone number is optional. Data will be used to document open house attendance, interest, and geographical representation.

NISP Onen House Sign In Sheet	r October 18, 2019	ast Name Phone Number* Email Address*	STIEFEL	e What topics are you most interested in? (Check all that apply)	K NISP in General Recreation Pipeline Routes ReHighway 287	Phone Number* Email Address*	Wollam	e What topics are you most interested in? (Check all that apply)	NISP in General Recreation Pipeline Routes Highway 287 I arimer County 1041 Permit	Phone Number* Email Address*	G.W.	e What topics are you most interested in? (Check all that apply)	Overal Recreation Pipeline Routes Odighway 287 Larimer County 1041 Permit	ast Name Phone Number* Email Address*	MORDE (S	e What topics are you most interested in? (Check all that apply)	函NISP in General 家Recreation 台Pipeline Routes 应利ighway 287 日本arimer County 1041 Permit	Phone Number* Email Address*	e What topics are you most interested in? (Check all that apply)	NISP in General Recreation Pipeline Routes Highway 287 Larimer County 1041 Permit
	let	Last Name	STIEFEL	ode		Last Name	Wollam	ode		Last Name	C.M	ode		Last Name		ode		Last Name	ode	
	Northern Water	First Name	Norm	Address, City, Zip Code		First Name	RL	⁴ Address, City, Zip Code		First Name	Jant	Addr		First Name	JOHNY BETH	4 Address, City, Zip Code		First Name	Address, City, Zip Code	

* Providing email address and phone number is optional. Data will be used to document open house attendance, interest, and geographical representation.

Page 1

NISP

.

-

SP Open House Sign In Sheet DS(2MBER October 18, 2019	er* Email Address*		What tapics are you most interested in? (Check all that apply)	Arish in General Argecreation Pipeline Routes	Email Address*		What topics are you most interested in? (Check all that apply)	la	er* Email Address*		What topics are you most interested in? (Check all that apply)	KNISP in General □ Recreation □ Pipeline Routes Mighway 287 ertarimer County 1041 Permit	Email Address*		What topics are you most interested in? (Check all that apply)	NISP in General Recreation PPppeline Routes Aflighway 287 & Afrimer County 1041 Permit	Email Address*		What topics are you most interested in? (Check all that apply)	 NISP in General Recreation Pipeline Routes Highway 287 Larimer County 1041 Permit 	
NISP Ope	Phone Number*			•	Phone Number*				Phone Number*			1	Phone Number*			51. 1	Phone Number*				
Water upply Project	Last Name	Bright	Code)	ŧ	Last Name	Green-	Code	-	Last Name	Gartield	Code		Last Name	Gos du m	Code		Last Name	Tschirhat	Code		
Northern Water Northern Legrated Supply Project	First Name	Jan	Address, City, Zip Code		First Name	RONMU	⁰⁴ Address, City, Zip Code		First Name	Aler	⁰³ Address, City, Zip Code		First Name	Ed	Address, City, Zip Code		First Name	John	⁰³ Address, City, Zip Code		

Page 13

Northern Water	23071 54	NISP Open Ho	NISP Open House Sign In Sheet
First Name	Last Name	Phone Number*	Email Address*
w	WHELLEN		
Address, City, Zip Code	o Code		What topics are you most interested in? (Check all that apply)
			, ው러ighway 287 🛛 🗆 Larimer County 1041 Permit
First Name	Last Name	Phone Number*	Email Address*
Backy	Hawley	ſ	
Address, City, Zip Code	o Code		What topics are you most interested in? (Check all that apply)
			KVISP in General Kecreation Schipeline Routes Highway 287 Scharimer County 1041 Permit
First Name	Last Name	Phone Number*	Email Address*
Comeron	Morris		
Address, City, Zip Code) Code		What topics are you most interested in? (Check all that apply)
			对NISP in General 又Recreation 口Pipeline Routes 文Highway 287 口 Larimer County 1041 Permit
First Name	Last Name	Phone Number*	Email Address*
JOHN	DET TEN WARE		
Address, City, Zip Code) Code		What topics are you most interested in? (Check all that apply)
	,		D NISP in General Derection Public Routes Der Highway 287 Derection 1041 Permit
First Name	Last Name	Phone Number*	
Address, City, Zip Code	Code		What topics are you most interested in? (Check all that apply)
			NISP in General Recreation Pipeline Routes

BCC 08/17/20

NISP

Page 2

560

* Providing email address and phone number is optional. Data will be used to document open house attendance, interest, and geographical representation.

			NISP Open Hot	ise Sign In Sheet
12			DELEMBER	
No	Northern Integrated Supply Project	oject	October	October 18, 2019
	First Name	Last Name	Phone Number*	Email Address*
	Scott	SIJA		
99	Address, City, Zip Code	ode		What topics are you most interested in? (Check all that apply)
				NISP in General Recreation Pipeline Routes
				Highway 287 Larimer County 1041 Permit
	First Name	Last Name	Phone Number*	Email Address*
5	Vernon	Desdipy		e
ò	Address, City, Zip Code	ode		What topics are you most interested in? (Check all that apply)
				ANISP in General
				tz Highway 287 🛛 Larimer County 1041 Permit
	First Name	Last Name	Phone Number*	Email Address*
0.7		Buider		
8	Address, City, Zip Code	ode		What topics are you most interested in? (Check all that apply)
			2.	-
				Highway 287 Larimer County 1041 Permit
	First Name	Last Name	Phone Number*	Email Address*
03	Larry	fetersa		
6	Address, City, Zip Code	ode		What topics are you most interested in? (Check all that apply)
				NISP in General Recreation Pipeline Routes
				Highway 287 Larimer County 1041 Permit
	First Name	Last Name	Phone Number*	Email Address*
ſ				
2	Address, City, Zip Code	ode		What topics are you most interested in? (Check all that apply)
15	1.00			<u>re</u>
				Highway 287 Description Larimer County 1041 Permit

Page 14

561

* Providing email address and phone number is optional. Data will be used to document open house attendance, interest, and geographical representation.

			NISP Open Hou	SP Open House Sign In Sheet
Nort	Northern Water Northern Integrated Supply Project	ect	OCTODER'	18, 2019
	First Name	Last Name	Phone Number*	Email Address*
EC	Cirdy	Adam		
2	Address, City, Zip Code	de (~	What topics are you most interested in? (Check all that apply)
	:		-	DyHighway 287 🛛 Larimer County 1041 Permit
-	First Name	Last Name	Phone Number*	Email Address*
3	Brent	HAWley		
ò	Address, City, Zip Code	de		What topics are you most interested in? (Check all that apply)
				<u>ra</u>
-				Highway 287 Larimer County 1041 Permit
- 2	First Name	Last Name	Phone Number*	Email Address*
ŝ	KAY + AUAN	MIKEBKY		
6	Address, City, Zip Code	de		What topics are you most interested in? (Check all that apply)
				のNISP in General
	First Name	Last Name	Phone Number*	`L
C L	LINDA	GR1EGO		
λ	Address, City, Zip Code	de		What topics are you most interested in? (Check all that apply)
			21. 27.	 NISP in General Recreation Pipeline Routes Highway 287 Larimer County 1041 Permit
	First Name	Last Name	Phone Number*	
ŝ				
00	Address, City, Zip Code	de		What topics are you most interested in? (Check all that apply)
				 NISP in General Recreation Pipeline Routes Highway 287 Larimer County 1041 Permit

* Providing email address and phone number is optional. Data will be used to document open house attendance, interest, and geographical representation. Page 12

BCC 08/17/20

NISP

			NISP Open Hot	use Sign In Sheet
Nort	Northern Water Northern Integrated Supply Project	er	DECEMBER OCTODE	DECEMBER OCTODER 18, 2019
	First Name	Last Name	Phone Number*	Email Address*
4	Joe	Meeter		
7	Address, City, Zip Code	de		What topics are you most interested in? (Check all that apply)
				<u>la</u>
	Eirst Name	l act Name	Dhone Number*	Highway 287 D Larimer County 1041 Permit Email Address.*
	_	Ceppinger		
72	Address, City, Zip Code	de		What topics are you most interested in? (Check all that apply)
		2 5 7)		
	Eirct Name	l act Name	Dhone Number*	Highway 287 D Larimer County 1041 Permit Email Addaces*
	FIRST Name	Last Name	Phone Number	Email Address*
52	CRailey	King		
ç	Address, City, Zip Code	de		What topics are you most interested in? (Check all that apply)
				NISP in General Recreation Pipeline Routes
	First Name	Last Name	Phone Number*	
F	Tenniter	Lang		
ŧ	Address, City, Zip Code	de		What topics are you most interested in? (Check all that apply)
				NISP in General Recreation Pipeline Routes Arighway 287 Determer County 1041 Permit
	First Name	Last Name	Phone Number* /	Email Address*
¥	Roder	Ames		
2	Address, City, Zip Code	de		What topics are you most interested in? (Check all that apply)
				 NISP in General Recreation Pipeline Routes Highway 287 Larimer County 1041 Permit

NISP Open House Sign In Sheet	Last Name Phone Number* Email Address*	in Cruse .	p Code What topics are you most interested in? (Check all that apply)	La La	العدادة المعدمة العدادة المعدادة الم معدادة المعدادة br>معدادة المعدادة المع معدادة المعدادة المعدا المعدادة المعدادة المعدادة المعدادة المعدادة المعدادة المعدادة المعدالمعدادة المعدادة المعدادة المعدادة المعدادة المعدادة		p Code What topics are you most interested in? (Check all that apply)	□ NISP in General □ Recreation □ Pipeline Routes		Grant	p Code What topics are you most interested in? (Check all that apply)	□ NISP in General □ Recreation □ Pipeline Routes			p Code [What topics are you most interested in? (Check all that apply)	C-MISP in General		Schott	p Code What topics are you most interested in? (Check all that apply)	 NISP in General Recreation Pipeline Routes Pipeline Routes NHighway 287 Larimer County 1041 Permit
ater	Last Name		o Code		Last Name	Beak	Code		Last Name	Gran	Code		Last Name	T). Wk	Code		Last Name	Schott	Code	
Northern Water	First Name	Pam Erec	Address, City, Zip Code		First Name		Address, City, Zip Code		First Name	Brandon	Address, City, Zip Code		First Name	HAREN	Addre		First Name	Thold	Address, City, Zip Code	

* Providing email address and phone number is optional. Data will be used to document open house attendance, interest, and geographical representation.

.

Page 3



Larimer County Analysis – Technical Memorandum No. 2 Larimer County 1041 Review Criteria

Prepared for: Larimer County

Prepared by: Northern Integrated Supply Project Water Activity Enterprise

February 2020

Technical Memo No. 2

NISP: Larimer County 1041 Review Criteria (LUC Section 14.10(D))

Summary

The purpose of this Technical Memo is twofold:

1. To direct Larimer County's Board of County Commissioners (BOCC) to the exchange of information between staff for the Northern Integrated Supply Project Water Activity Enterprise (NISP WAE) and Larimer County staff (County) over the course of many years pertaining to the Northern Integrated Supply Project (NISP or Project), and specifically, to the County's 1041 Permit and other land use criteria (Section I of this document); and

2. To reference those documents, and the information provided therein, to provide examples of how each of the BOCC's 1041 Permit review criteria are addressed for each activity associated with NISP regulated under 1041 (Section II of this document).

For purposes of the latter, the information within this document is by way of example and is not inclusive of all the information pertaining to NISP that has been documented, shared, reviewed, and commented on during the federal and state permitting efforts. As a cooperating agency, the County participated in the review and development of many of those documents.

Therefore, in addition to the information included by way of example herein, the Enterprise requests that the BOCC also consider relevant documentation associated with the environmental analysis led by the U.S. Army Corps of Engineers (Corps) during the NEPA and Clean Water Act section 404 permitting process for NISP; the Corps' consultation with the Colorado State Historic Preservation Officer (SHPO) and the Advisory Council on Historic Preservation pursuant to the National Historic Preservation Act (NHPA); and the Corps' consultation with the U.S. Fish and Wildlife Service pursuant to the Endangered Species Act. Review of those documents should include all relevant analysis, approvals, permit conditions, and the mitigation and enhancements offered by the NISP WAE in this federal permitting process.

Additionally, the NISP WAE requests that the Board of County Commissioners also refer to all relevant documentation associated with water quality analysis and the effects, including beneficial effects, to fish and wildlife resources analyzed through the separate state water quality and fish and wildlife approval processes for NISP. Those documents should include all analyses,

terms and conditions, implementation agreements, and mitigation and enhancement commitments under the 401 Water Quality Certification from the Colorado Department of Public Health and Environment, and the Fish and Wildlife Mitigation and Enhancement Plan entered into between the NISP WAE and the Colorado Department of Natural Resources (and approved by Colorado Parks and Wildlife Commission and the Colorado Water Conservation Board), pursuant to C.R.S. section 37-60-122.2.

Background

Larimer County Land Use Code, Section 14.10(D), sets forth 12 criteria ("12 Review Criteria") by which the BOCC will review a 1041 Permit application. It provides,

A 1041 permit application may be approved only when the applicant has satisfactorily demonstrated that the proposal, including all mitigation measures proposed by the applicant, complies with all the applicable criteria set forth in section 14. If the proposal does not comply with all the applicable criteria, the permit shall be denied, unless the county commissioners determine that reasonable conditions can be imposed on the permit which will enable the permit to comply with the criteria.

This document is the NISP WAE's demonstration to the BOCC that the NISP WAE has worked cooperatively with the County over many years to provide information, consider County comments, and conduct additional outreach with the local community regarding NISP. It also demonstrates, through the exchange of information, how evaluations and considerations, specific to the County's Land Use Code and relevant to the 12 Review Criteria, have been made by both parties over the course of many years, leading up to this 1041 permit application.

Section I. Informational Documents Exchanged Between the NISP WAE and the County in Consideration of the County's Land Use Code

Concurrent with the federal and state permitting processes for NISP, in which the County participated and coordinated directly with federal and state agencies, the NISP WAE coordinated with the County to satisfy information needs relative to the County's Land Use Code, as applicable to NISP.

Beginning in 2017, the NISP WAE provided project information to the County to specifically address Land Use Code requirements. The NISP WAE provided the County technical memoranda and updates to those memoranda from 2017 through 2019, each followed by comments and responses from both entities' staffs. The parties met numerous times and participated in public meetings, workshops, and open houses.

The following documents demonstrate the cooperative exchange of information between the NISP WAE and the County as the parties began contemplating the 1041 permit application submittal:

• Technical Memorandum No. 1 – Project Summary ("Project Summary Memo")

May 2018 June 2019

> Technical Memorandum No. 2 – Larimer County 1041 Evaluation Criteria ("1041 Evaluation Memo")

May 2018 June 2019

• Technical Memorandum No. 3 – Conveyance Pipeline Route Study & Analysis ("Pipeline Memo")

May 2018 June 2019 July 2019

• Technical Memorandum No. 4 – U.S. Highway 287 Relocation ("Hwy 287 Memo")

May 2018 June 2019 May 2018 June 2019

• Larimer County comments to the NISP WAE

January 23, 2018 June 29, 2018 August 26, 2019 November 12, 2019

• Larimer County Engineering Department Comments on NISP IGA, File #19-ZONE2551 ("County Engineering Department Comments")

July 22, 2019 (This document includes comments from Larimer County Plans Examiner, the Town of Timnath, the Windsor Reservoir and Canal Company, Colorado Parks and Wildlife, City of Fort Collins, Poudre Fire Authority) July 30, 2019 November 8, 2019

• The NISP WAE's Response to Larimer County and Referral Agency Comments

March 20, 2018 October 7, 2019

These documents are referenced in Section II of this document to provide examples of how NISP satisfies each of the 12 Review Criteria.

Section II. Application of Information to the BOCCs 12 Review Criteria

Under Section 14 of the Land Use Code ("Areas and Activities of State Interest"), i.e. 1041 regulations, NISP involves two activities separately regulated by the County as activities of State interest: siting and development of new or extended domestic water transmission lines, and site selection and construction of a new water storage reservoir. Therefore, this document applies each of the 12 Review Criteria to each activity in Sections II.A ("Pipeline Siting and Development") and II.B ("Reservoir Siting and Construction"). Nevertheless, it is important to acknowledge that the federal and state reviews of the Project analyzed and evaluated the Project components as a whole. As suggested above, those documents should also be considered for purposes of demonstrating satisfaction of the 12 Review Criteria.

As technical memoranda were revised and/or updated by the NISP WAE after receiving comments and questions from the County, the revised technical memoranda supplanted earlier versions. Thus, referenced below is to the latest version of the technical memoranda listed in Section I, above.

Review Criteria 1: The proposal is consistent with the master plan and applicable Intergovernmental agreements affecting land use and developments

When developing the pipeline, the NISP WAE will implement applicable measures of good public stewardship described by the County in its Reservoir Parks Master Plan. For example, native vegetation will remain at the site, and landscaping will be replaced following construction. See Reservoir Parks Master Plan at 44. During development, if work is conducted after sundown, the NISP WAE will agree to use downcast lighting. See Reservoir Parks Master Plan at 45.

Relevant to the siting and development of the water pipeline component of the Project, the NISP WAE reviewed and considered the County's 1997 Master Plan, and the 2015 Open Lands Master Plan.

a. 1997 Larimer County Master Plan

"The Master Plan uses the term 'Growth Management Area'(GMA) to refer to what current IGAs with the cities of Fort Collins and Loveland refer to as Urban Growth Areas. In addition, the Master Plan calls for the establishment of two additional geographical boundaries that could be established beyond a municipality's growth management area: the 'Cooperative Planning Area' (CPA) and the 'Community Influence Area (CIA). See County Master Plan at 2-6. NISP pipeline routing information has been shared with and evaluated by the County, as reflected by the documents described in Section I, above. The pipeline crosses through multiple GMAs. Since the 1997 Master Plan, more towns have grown within Larimer County. The pipeline crosses through GMAs for Timnath, Windsor, Johnstown, and Fort Collins. The NISP WAE is actively coordinating with these entities.

Within the urban and agricultural area, the development of the pipeline will not change existing land uses and will continue to further the protection of agricultural land and water. For individual landowners affected by the construction, the NISP WAE will acquire easements for the pipeline. The easement agreement will provide that the NISP WAE will return the land to pre-construction condition and compensate for crop damages and/or losses incurred during construction or maintenance. Through its practice, the NISP WAE will follow goals and strategies under the Master Plan, such as GM-9 (Permanent and ongoing communication between agriculture and the County is essential); and GM-12 (Respect for private property is essential to the maintenance of agriculture). See Master Plan at 2-14. Similarly, as demonstrated in the following responses, the NISP WAE has adhered to Master Plan strategies that apply to all development activities, such as "all new development shall be located and designed for

compatibility with sensitive natural areas; compatibility with adjacent land use shall be considered in the design of all new development." See Master Plan at 3-9.

b. 2015 Open Lands Master Plan

The pipeline will pass through the City of Fort Collins natural areas and may pass through Larimer County conservation easements. The NISP WAE is committed to restoring all lands to pre-existing condition following construction.

Review Criteria 2: The applicant has presented reasonable siting and design alternatives or explained why no reasonable alternatives are available

The Corps' EIS analyzed the impacts associated with pipeline development. The NISP WAE provided the County with numerous documents, described in Section I above, providing information about the selection of the pipeline route. Through dialogue between the NISP WAE and the County, the NISP WAE refined the information regarding the corridor location and construction. Site selection will avoid sensitive resources and will be compatible with existing land uses. The NISP WAE provided the County with its site analysis process and specific review criteria. After further discussion with the County, the pipeline routing identified in the latest Technical Memorandum No. 3 is the final alignment, recognizing that minor adjustments may be necessary in specific locations.

Discussions related to alternatives considered and evaluated by the NISP WAE for pipeline routing and the criteria used to determine the most reasonable siting and design can be found in the Project Summary Memo, the 1041 Evaluation Memo, and the Conveyance Pipeline Memo. In sum, constraints and criteria were determined in conjunction with the County. A two-phase approach was used to develop and evaluate alternative alignments. The first phase is an initial screen to determine and map alternatives. The second phase analyzes the routes developed by the first phase using the detailed conveyance routing evaluation criteria. Screen criteria include major corridors, land use and residential impacts, environmental impacts and county facilities. Detailed screen criteria included overall impact, land use and residential impacts, environmental and historic impacts, and county facilities.

Review Criteria 3: The proposal conforms with adopted county standards, review criteria and mitigation requirements concerning environmental impacts, including but not limited to those contained in this Code

As described above in Review Criteria 2, the County reviewed and provided comments on pipeline routing alternatives to help conform the proposal to county standards and evaluate impact avoidance and minimization. Additionally, the NISP WAE will follow applicable Land Use Code requirements and standards during construction. Information can be found in the 1041 Evaluation Memo.

Review Criteria 4: The proposal will not have a significant adverse effect on or will adequately mitigate significant adverse effects on the land or its natural resources, on which the proposal is situated and on lands adjacent to the proposal

Please refer to the federal and state permits and the NISP WAE's mitigation and enhancement measures under each. Specific to the delivery of water to Glade Reservoir, the NISP WAE revised the Project design prior to the Final EIS to avoid, minimize and mitigate impacts by proposing to deliver water within the Poudre River. This will keep flows in the Poudre River year-round. In sum, the pipeline impacts on land and natural resources are generally temporary in nature. All lands will be restored to original condition to be used in its original capacity or other capacities as dictated by easement language. Moreover, the NISP WAE will work with each landowner to develop a property-specific restoration and reclamation plan for each parcel.

Review Criteria 5: The proposal will not adversely affect any sites and structures listed on the State or National Registers of Historic Places

The Corps' analysis evaluated impacts of NISP to cultural resources. Compliance with the NHPA requires that steps be taken by the NISP WAE in the event of future discoveries on Project lands through a Programmatic Agreement.

Review Criteria 6: The proposal will not negatively impact public health and safety

Impacts associated with construction of the pipeline are primarily temporary and will not result in public health effects. Construction areas will not be open to or accessible by the public, and the NISP WAE, its employees, agents and contractors will follow applicable federal, state and local health and safety standards.

Review Criteria 7: The proposal will not be subject to significant risk from natural hazards including floods, wildfire or geologic hazards

Upon review of County maps, there are no geologic hazard areas within the pipeline route. The pipelines will cross the Poudre, Big Thompson, and Little Thompson rivers and associated floodplains. Consultants (Dewberry/HDR) have prepared a floodplain report, included in the 1041 application materials, to demonstrate compliance with floodplain regulations. Glade Reservoir release pipeline and the western edge of the Northern Tier pipeline are in a designated wildfire area. However, buried pipelines will not contribute to or be impacted by wildfire risks. Pipelines will be constructed to meet applicable local, state and federal floodplain regulations, fire and wildfire standards.

Review Criteria 8: Adequate public facilities and services are available for the proposal or will be provided by the applicant, and the proposal will not have a significant adverse effect on the capability of local governmental to provide services or exceed the capacity of service delivery systems

The pipeline design and construction will include both temporary and permanent storm water facilities as required. There will be no significant adverse effects to the capability of local governments to provide services. Northern Water and its enterprises have operated pipeline, pump station and dam facilities in Colorado for decades. Carter Lake and Horsetooth Reservoir are operated and maintained jointly by Northern Water and the U.S. Bureau of Reclamation while partnering with Larimer County for recreation and security requirements. Through this long partnership the knowledge, history, and skills to successfully construct and operate NISP have been developed.

Review Criteria 9: The applicant will mitigate any construction impacts to county roads, bridges and related facilities. Construction access will be re-graded and re-vegetated to minimize environmental impacts

As set forth in the 1041 Evaluation Memo, NISP construction will temporarily impact county roadways and rights of way. Impact to public rights of way is one of the evaluation criteria in the pipeline routing analysis. Also see Pipeline Memo. As part of the final design process, the NISP WAE will complete a pre-construction inventory to identify those county roads that may be used for construction traffic. During construction, the NISP WAE will conduct periodic inspections, and post-construction replacement will be completed to return any damaged roads to pre-construction conditions. Construction and access areas will be re-graded and re-vegetated to minimize environmental impacts.

Review Criteria 10: The benefits of the proposed development outweigh the losses of any natural resources or reduction of productivity of agricultural land as a result of the proposed development

NISP represents a shift away from the "buy-and-dry" approach of water development that has stressed agricultural communities. As part of a long-term strategy that is consistent with the goals and principles established in the Colorado Water Plan, NISP will eventually provide additional water to approximately 500,000 residents in Northern Colorado while also preserving thousands of acres of irrigated farmland.

The 1041 Evaluation Memo explains that the pipeline construction may involve temporary agricultural losses during construction. However, the NISP WAE will pay crop loss damages to easement holders for these temporary impacts and restore the agricultural lands to productivity after construction.

NISP preserves agriculture in Northern Colorado as it is likely that the Participants would rely primarily on the conversion of agricultural water rights to municipal and industrial use to provide the firm yield needed. It is estimated that the No Action alternative would result in the removal of irrigation from up to 64,200 acres of agricultural lands and the conversion of the irrigated agricultural lands to dry land uses. The reduction of productivity of agricultural land for the proposed Project is minimal compared to what would happen if NISP is not constructed.

Review Criteria 11: The proposal demonstrates a reasonable balance between the costs to the applicant to mitigate significant adverse effects and the benefits achieved by such mitigation

The pipeline will have only temporary impacts. Please refer to the mitigation proposed by the NISP WAE in the federal and state permitting efforts. Additionally, easement agreements between the NISP WAE and landowners commit the NISP WAE to return the land to preconstruction condition and compensate affected landowners for any damages resulting to crops during construction and future maintenance activities.

Review Criteria 12: The recommendations of staff and referral agencies have been addressed to the satisfaction of the county commissioners

As demonstrated by the exchange of informational documents listed in Section I, above, the NISP WAE conducted a series of reviews of its Pipeline Memo with the County. Each time, the County provided comments back after its review of the memorandum, and it also acquired comments from referral agencies, which were sent to the NISP WAE. From the first version of the Pipeline Memo, for example, the County sought more information for county rights of way crossings, how the alignment would avoid significant impacts on land and resources, and descriptions of the criteria used to evaluate the alignment options, among others. After receiving County comments, each time the NISP WAE would provide responses back to the County to provide further description or answers to the information sought by the County, and it would also revise or refine its Pipeline Memo. Prior to submitting this 1041 application, the NISP WAE submitted the latest version of the Pipeline Memo, which responded to the most-recent informational items requested by the County.

Review Criteria 1: The proposal is consistent with the master plan and applicable Intergovernmental agreements affecting land use and developments

As a cooperating agency during the Corps' NEPA process, the following statements reflect that the County considered the consistency of NISP with the County's land use directives and Master Plan during its review of Project information. In the agreement to participate as a Cooperating Agency between the County and the Corps, the County committed to:

- "provide timely reviews and comments on preliminary documents, reports, analyses and sections of the Draft and Final EISs that address information needs and requirements associated with the Location and Extent Review to be conducted by the County Planning Commission;" and
- "The County will provide information on possible conflicts between the alternatives in the draft EIS and the objectives of the Larimer County Master Plan and other applicable County policy or regulation."

[Northern Integrated Supply Project Environmental Impact Statement Cooperating Agency Agreement Between the U.S. Army Corps of Engineers, the lead federal agency, and Larimer County Board of County Commissioners, a cooperating agency, July 2005]

Throughout its exchange of information with the County, as described in Section I above, the NISP WAE shared its conclusions regarding the Project's consistency with the 1997 Master Plan, the 2015 Open Lands Master Plan, and the Larimer County Reservoir Parks Master Plan. Its conclusions with regard to the Project's consistency with each master plan follows.

a. 1997 Larimer County Master Plan

The County's role as a cooperating agency in the NEPA process and the recent discussions between the County and the NISP WAE to offer public recreation at Glade Reservoir are both illustrative of one of the County's goals under the Master Plan - to engage in "cooperative planning." Moreover, NISP will meet demands of a growing population, preserve agriculture in Northern Colorado, protect and preserve the natural environment, promote economic development within Larimer County through recreation at Glade Reservoir, and enhance the community's access to and use of new public recreation areas and opportunities. All of these are goals under the Master Plan. In particular, NISP is consistent with the following Master Plan goals and strategies:

- GM-10 The protection of agricultural land and water in Larimer County shall be based on a combination of incentives, voluntary participation and measures to strengthen the viability of agriculture;
- GM-13 Larimer County supports the development of a local economy which is increasingly self-reliant and that meets the needs of the present without compromising the needs of future generations;
- LU-10 All new development shall be located and designed for compatibility with sensitive natural areas;
- LU-11 Compatibility with adjacent land use shall be considered in the design of all new development;
- ER-1 Resources and environmental conditions potentially impacted by proposed development shall be identified in the initial stages of the project, to best design a development that protects the environment;
- ER-16 Larimer County will explore options to protect and provide adequate water resources for present and future uses in the County, in partnership with other affected interests.

In the 1041 Evaluation Memo, the NISP WAE identified that Glade Reservoir is in open zoning and included maps of the Project's components. This memorandum also explains that the Project will provide protection to environmental resources, including protection of fish and wildlife, and calls the County's attention to the Fish and Wildlife Mitigation and Enhancement Plan (FWMEP). This plan commits over \$53 million to mitigation and enhancement projects. The plan was adopted by the State of Colorado and represents the state's official position on the mitigation actions required for the project. Additionally, wetlands impacts are addressed through the development of a U.S. Army Corps of Engineers-approved wetland mitigation plan, and cultural resources will be protected through a Programmatic Agreement, which will spell out the project's Historic Preservation Act compliance measures and process. The Project's FWMEP is included in Appendix A to the 1041 Evaluation Memo.

The NISP WAE shares the County's desire to maintain irrigated agricultural lands and promote agriculture. NISP uses Cache la Poudre River water rights that do not require dry-up of agricultural land. The NISP WAE is also engaging with willing shareholders in the New Cache La

Poudre Irrigating Company and the Larimer & Weld Irrigation Company to preserve approximately 20,000 acres of irrigated agriculture by perpetually supplying water to those farms. This program, known as "Water Secure," is being put into place in order to protect the exchanges associated with the Galeton Reservoir portion of NISP.

The Recreation Memo also describes how the Project is consistent with goals of the Master Plan. Of the 32 activities listed in the Master Plan as "desired activities at the reservoirs," Glade Reservoir could provide 26, or 81%. These recreational activities could include: mountain biking, hiking, educational programming, kayaking and canoeing, rock climbing, road biking, stand up paddle boarding, wildlife viewing, fishing, jogging/running, sailing, large group picnicking, power boating, snowshoeing and cross-county skiing, youth programs, horseback riding, backcountry and boat-in camping, tent camping, picnicking, guided tours, boat ramps, festivals or events, developed/RV camping, scuba diving, water skiing, and jet skiing.

b. 2015 Open Lands Master Plan

The County's Open Lands Master Plan provides that "a growing population will also increase the demand for land and water. New development requires additional sources of water and energy," and "the Colorado Water Conservation Board estimates that Colorado will need between 600,000 and 1 million acre-feet/year of additional water for municipal and industrial uses to serve the state's population by 2050, adjusted to reflect modest amounts of conservation." [Open Lands Master Plan at 18.]

The development of Glade Reservoir within Larimer County serves to accomplish goals and strategies identified in the Open Lands Master Plan at a fraction of the cost that the County might otherwise incur if it purchased lands open to public and preservation. In this cooperative and collaborative way to bring to fruition a need for public lands and recreation within the County by partnering with the NISP WAE, the following guiding principles of the Open Lands Master Plan are met: "working with willing landowners to develop land-use alternatives and conservation strategies that meet the landowner's financial needs and the County's goal to preserve significant open lands;" and "collaboration with partners is important to leverage available resources." [Open Lands Master Plan at 6.]

Similar to existing land uses within the County, NISP falls in the category of the following statement under the Open Lands Master Plan: "In addition to the resources the Open Lands Program provides, Larimer County is fortunate to have large amounts of land conserved or protected by other governmental agencies and non-governmental organizations." [Id. at 15.] Similarly, through the robust mitigation and enhancement commitments of the NISP WAE, the

County's Open Lands Master Plan philosophies of conservation of natural resources and wildlife habitat are met.

In its Recreation Memo, the NISP WAE states that Glade Reservoir aligns with the objectives of the County's 2015 Open Lands Master Plan in the following ways:

- increases amount of open space to meet projected population demands;
- protects lakes, rivers, streams and preserves water quality;
- protects natural resources, wildlife habitat and rare species;
- provides more outdoor recreation opportunities;
- creates greenways or trail corridors that connect communities and parks;
- conserves regional lands;
- invests in management and maintenance of current natural surface trails, trailheads, parking, shelters and facilities;
- restores and rehabilitates rivers and open lands; and
- acquires water rights for in-stream flows and wildlife habitat; secures water rights for agricultural lands; and conserves land with proximity to open space.

c. Larimer County Reservoir Parks Master Plan

Glade Reservoir will be constructed in an environmentally and economically sound manner, meeting the key objectives identified in the County's Reservoir Parks Master Plan. These key objectives include:

- protecting wildlife and biodiversity;
- preserving environmental resources and the cultural values of historical places;
- providing for outdoor recreation; and
- protecting the health and safety of visitors.

[Larimer County Reservoir Parks Master Plan, December 2017, at 1.] NISP's protection of wildlife and biodiversity, and the preservation of environmental and cultural resources are addressed in the EIS, the Biological Opinion, NHPA consultation between the Corps and SHPO, and in the FWMEP. Under the FWMEP, in particular, the NISP WAE has committed to both the protection and enhancement of fish and wildlife resources, as well as the concept of allowing public use for recreation at Glade Reservoir.

The recreation components included in the Project, per the requirements of the FWMEP, will retain the basic level of recreation, which, according to the Reservoir Parks Master Plan, is consistent with "the trend toward fewer services" that many residents desire. [Reservoir Parks

Master Plan at 21.] The NISP WAE will be working with Colorado Parks and Wildlife to cooperatively manage reservoir lands for fish and wildlife services. [Id at 45.]

Consistent with the Reservoir Parks Master Plan, native vegetation will remain at the site, and management of the lands will include eradication of invasive species, as much as practicable. Per requirements from state and federal agencies under the various permits for NISP, preservation of cultural, geological and paleontological resources will occur. [See Reservoir Parks Master Plan at 43.] The NISP WAE will manage shoreline erosion and will have a water quality program, pursuant to its 401 certification. Per the FWMEP, NISP will improve and avoid fragmentation of key wildlife habitat and will protect important resources, as well as create trails. [See Reservoir Parks Master Plan at 47.]

The NISP WAE describes in the Recreation Memo the numerous benefits and ways in which the Project aligns with the Reservoir Parks Master Plan:

- provides outdoor recreational opportunities;
- promotes visitor health and safety;
- supports the County's vision;
- anticipates the future;
- provides a diversity of recreational experiences;
- celebrates the natural environment;
- integrates with a larger recreational network;
- manages resources in an economically and environmentally sustainable manner; and
- reduces pressure on existing recreation areas.

In fact, the Reservoir Park Master Plan recognizes Glade Reservoir as a "future park strategy."

Review Criteria 2: The applicant has presented reasonable siting and design alternatives or explained why no reasonable alternatives are available

As discussed in the 1041 Evaluation Memo, overall Project alternatives, including a No Action alternative, are evaluated as part of the Corps' NEPA and Section 404 permitting processes. A summary of the proposed Project alternative is included in Technical Memo No. 1 – Project Description, with much more detailed evaluation of Project alternatives presented in the EIS.

Review Criteria 3: The proposal conforms with adopted county standards, review criteria and mitigation requirements concerning environmental impacts, including but not limited to those contained in this Code

The County's role as a cooperating agency with the Corps during the NEPA process included a review by the County of the Project information alongside County plans, policies and regulations (See information above under Review Criteria 1) to help identify any inconsistencies.

The NISP WAE's review of the County's Land Use Code concluded that most of the development standards pertain to private developments. Nevertheless, the NISP WAE will follow County standards where applicable.

Technical Memo No. 1 – Project Description provides information on environmental permitting and mitigation associated with the Project. Additionally, the NISP WAE addresses how sections of the Land Use Code would be satisfied during Project construction within the 1041 Evaluation Memo.

Additionally, within the Recreation Concept Master Plan, the NISP WAE identifies potential design and management measures that it could implement to reduce visual, light and noise impacts. These include:

- addition of native vegetative buffers and/or stands of native trees along beneficial edges and/or within camping areas
- restricting recreational vehicles to less visible campground areas located in lower areas of the Recreation Area, and/or behind vegetative buffers
- use of downcast, full cutoff light fixtures meeting Dark Sky criteria

Review Criteria 4: The proposal will not have a significant adverse effect on or will adequately mitigate significant adverse effects on the land or its natural resources, on which the proposal is situated and on lands adjacent to the proposal

Please refer to the federal and state permits and the NISP WAE's mitigation and enhancement measures for NISP. As the NISP WAE describes in its 1041 Evaluation Memo, NISP includes a variety of avoidance and minimization measures, compensatory mitigation, and enhancements to the environment. The mitigation plans include a variety of improvements including, but not limited to:

- Best management practices, such as using straw bales to minimize erosion and using vehicle tracking control pads to keep roads clean during construction
- Commitments to send additional water down the Cache la Poudre River
- Peak flow operations programs to maintain critical spring flushing flows
- Wetland construction projects
- Over 80 acres of Prebles Meadow Jumping Mouse habitat construction to protect this endangered species
- Fish habitat improvements in approximately 2.4 miles of stream
- Big game habitat conservation on 1,080 acres
- Recreation features as outlined in the Recreation Memo

Additional detail on these and many other commitments are included in Appendix A to the Project Summary Memo and Appendix B of the Final EIS. Through these plans, any significant adverse effects from the Project on natural resources will be mitigated.

Review Criteria 5: The proposal will not adversely affect any sites and structures listed on the State or National Registers of Historic Places

The Corps' analysis evaluated potential impacts of NISP to cultural resources, and a Programmatic Agreement for continuing National Historic Preservation Act compliance requires steps to be taken by the NISP WAE in the event of future discoveries on Project lands. Historic Larimer County is a signatory to the Programmatic Agreement. With this Programmatic Agreement, no adverse effect will occur to any sites and structures listed on the State or National Registers of Historic Places.

Review Criteria 6: The proposal will not negatively impact public health and safety

Once the Project is operational, it will have an overall net benefit to public health as a result of its addition to needed water supply. The addition of public recreation at Glade Reservoir will alleviate recreation pressure at existing reservoirs including Carter Lake and Horsetooth Reservoir.

Any effects to water quality have been addressed and mitigated through the Corps' 404 permit and the NISP WAE mitigation, as well as the 401 Water Quality Certification. BMPs to protect safety and health will be implemented during Project construction. Following development of recreation facilities at Glade Reservoir, public health and safety will be enforced through a designated recreation manager and patrolled by enforcement officers.

During its participation as a cooperating agency in the Corps' NEPA process, Larimer County identified a concern regarding health and safety associated with the Atlas Missile Silo area. Following review by the Corps, the County, through its Environmental and Science Advisory Board, stated, "We appreciate the Corps taking another look at hazardous materials contamination at the Atlas Missile Site. We believe that the impact assessment is sound and the proposed project changes are appropriate to address potential impacts." [August 18, 2015 Larimer County "Environmental and Science Advisory Board" comments on the Supplemental Draft EIS].

The NISP WAE describes in its 1041 Evaluation Memo how public safety during construction is of the utmost importance to the NISP WAE. During any work in or near a roadway, emergency services access will be maintained. Construction managers and inspectors will be present onsite during construction activities to monitor construction safety and ensure contractors stay within the work areas.

And, specific to Glade Reservoir, the Recreation Concept Master Plan explains how public health was considered when areas were evaluated for conceptual recreation facilities by considering minimization of visual light and noise impacts to neighbors throughout the day and evening. The construction of Glade Reservoir recreation facilities, including camping, trails, boating, fishing, and other recreation options, will provide opportunities for the public to exercise, recreate, and maintain healthy lifestyles.

Review Criteria 7: The proposal will not be subject to significant risk from natural hazards including floods, wildfire or geologic hazards

The 1041 Evaluation Memo describes that the Project will conform with County standards for hazard areas such as floodplains and geologic hazards, and recreation infrastructure will be restricted to areas outside geologic hazard areas and designated floodplains.

The design of the dam, spillway, and associated infrastructure will be done in accordance with applicable Colorado dam safety criteria, including current seismic stability standards. A Dam Safety Permit from the Dam Safety Branch of the Colorado Division of Water Resources will be required prior to construction and operation of the dam. The dam will be regularly inspected by the Dam Safety Branch as well as maintained and operated by the NISP WAE.

And, as explained in the Recreation Memo, slopes were evaluated for purposes of evaluating conceptual recreation facilities. Rockfall hazard areas were also evaluated and avoided for purposes of evaluating conceptual recreation facilities.

Water Storage Reservoir Siting and Construction

Review Criteria 8: Adequate public facilities and services are available for the proposal or will be provided by the applicant, and the proposal will not have a significant adverse effect on the capability of local governmental to provide services or exceed the capacity of service delivery systems

NISP will comply with Section 8.1 (Adequate Public Facilities) of the County's Land Use Code, which provides:

- "The purpose of this section is to ensure all development is served by utilities and other facilities needed for a development are in place or will be installed by the applicant before they are needed."
- "Adequate public facilities requirements apply to all applications for conservation development, planned land division, subdivision, minor special review, special review, site plan review, public site plan review, special exception and minor land division submitted under this code. APF requirements also apply to rural land plans as specified in section 8.1."

To the extent this section of the LUC is applicable to the construction of the water supply reservoir, the NISP WAE provided the following information with regard to public facilities in its 1041 Evaluation Memo:

- Sewage Disposal on site sewage treatment systems will be utilized for restrooms associated with the Project. Facilities may include a private restroom at the Glade pump station and sewer collection and treatment associated with the recreation plan.
- Domestic water the Glade pump station will likely utilize nonpotable raw water for pump cooling water. Potable water will be used for the pump station restroom facilities and drinking water. Potable water may be considered for the recreation facilities and would be from a public community water system.
- Drainage A drainage design will be completed as part of the final design of recreation facilities and will include the sizing and design of drainage features including swales, culverts, and stormwater detention ponds if needed. Dedicated stormwater design and facilities will be included as part of the Project.
- Fire Protection Fire protection services will be determined as part of the recreation.
- Road Capacity the roads that will be constructed at Glade Reservoir will be appropriately sized and constructed for necessary and anticipated capacities.

Public facilities and services will not be utilized for the Project, other than as discussed in Criteria 9, below. As described in the Recreation Concept Master Plan, it is anticipated that Larimer County will manage recreation facilities and activities at and surrounding Glade Reservoir for public access. The Recreation Memo expresses how the NISP WAE committed to multiple recreation and public access mitigation and enhancement items as part of the FWMEP, including a visitor center, left abutment paved road and guardrail, foothills recreation area, boat ramp, rough grading of campgrounds, an upper parking lot, north trailhead parking lot, and a lower parking lot. Additionally, a cool water fishery will be established and managed in Glade Reservoir.

As to the future development of recreation at Glade Reservoir, a consultant hired by the NISP WAE developed a recreation plan for recreation at Glade Reservoir, and the County will continue to be involved in these studies and discussions. Site visits, additional studies and future public input processes will be utilized to inform the final planning and design of the recreational areas. Glade Reservoir provides an opportunity to develop water-based recreation on up to 1,600 surface acres of reservoir and additional land-based recreation on an adjacent 170-acre recreation area.

To the extent NISP will have public facilities associated with recreation at Glade Reservoir, per a voluntary condition offered by the NISP WAE in this 1041 Permit application, those facilities will be added at a later date upon the joint development of a recreation management plan between the NISP WAE and the County. Services associated with recreation development at Glade Reservoir may include sewage, drinking water, drainage, and fire protection.

Water Storage Reservoir Siting and Construction

Review Criteria 9: The applicant will mitigate any construction impacts to county roads, bridges and related facilities. Construction access will be re-graded and re-vegetated to minimize environmental impacts

The NISP WAE is offering a voluntary enhancement commitment under the 1041 Permit to create an access road for properties adjacent to the new U.S. Highway 287 location during the highway relocation project. Additionally, the NISP WAE will also coordinate with the Colorado Department of Transportation (CDOT), the Colorado Division of Water Resources and Larimer County to maintain certain benefits of 35-acre parcels, which are exempt from subdivision regulations and can typically receive less restrictive permitting for a well.

As described in the U.S. Highway 287 Memo, the route and alternatives were reviewed as part of the Project's EIS, which incorporated an open house, three rounds of public review, and two sets of public hearings. Construction by CDOT must be completed prior to the construction of Glade Reservoir.

The NISP WAE has consistently expressed an interest in addressing landowner impacts associated with this relocation. As described in the U.S. Highway 287 Memo, a portion of the parcels crossed for highway realignment are subdivided into 35-acre parcels. A 35-acre plot is exempt from subdivision regulations and can typically receive less restrictive permitting for a well. To maintain the full 35-acres, the NISP WAE discussed the potential of utilizing easements instead of a full land purchase for the 35-acre parcels. Additionally, the 35-acre parcels are all primarily undeveloped with limited access from an old haul road. Access along the new highway for all parcels will be coordinated with the property landowners, CDOT and the designers. The preliminary approach for the access road will be a frontage road that would provide a single point of access to the highway for multiple landowners.

598

Water Storage Reservoir Siting and Construction

Review Criteria 10: The benefits of the proposed development outweigh the losses of any natural resources or reduction of productivity of agricultural land as a result of the proposed development

For further discussion on the loss of natural resource, please refer to Criteria 4, above.

In its comment letter to the Corps on the Supplementary Draft EIS, the County provided the following comments acknowledging the benefits of the Project:

- "[NISP] touches on many values of key importance to our region, including the critical riparian habitat of the Poudre River, the preservation of irrigated farmland in Northern Colorado, and the availability of adequate water supply for the future growth we know will occur in our area."
- "Irrigated agriculture is also of great importance to our region, as some of the nation's richest and most productive farmland is located here. Without additional water supplies, more and more of this irrigated farmland will certainly be dried up as municipal demands increase as our population grows."
- "Those of us who have lived in our region for many years realize the wisdom and foresight of our forefathers who planned ahead for the future we enjoy be ensuring adequate water supply for agricultural, municipal, and industrial uses by constructing the Colorado Big Thompson Project. It's impossible to imagine a healthy and prosperous Northern Colorado without it."
- "[W]e believe NISP to be very important to the future of Northern Colorado...."

[Larimer County letter, dated September 1, 2015, to the Corps of Engineers re comments on SDEIS]

A comment from the County's Environmental and Science Advisory Board also acknowledges the benefit of the Project when it provided, "While conservation measures have helped to manage existing developed water supplies, the Participants have demonstrated that they have a need for additional water in the future." [August 18, 2015 Larimer County "Environmental and Science Advisory Board" comments on the SDEIS].

In the 1041 Evaluation Memo, the NISP WAE explains that construction of Glade Reservoir and the Glade Forebay Reservoir would result in the permanent loss of approximately 150 acres of farmland. However, this loss is outweighed by the potential loss of 64,200 acres of farmland if

NISP were not constructed. As part of the NEPA and Section 404 processes, a No Action alternative was evaluated. This alternative considers what the Project participants would do to meet their water supply without NISP. In the absence of NISP, obtaining new water supplies in the region likely would become more challenging because the demand for a finite supply of water sources would increase. It is not possible to determine the specific mix of future water development approaches that would be pursued by the individual participants because the process of acquiring water supplies would be driven by complex social, economic, environmental, and political factors. Therefore, the No Action alternative is conceptual, and is intended to represent the possible water supplies that each participant could obtain. In this case, it is likely that participants would rely primarily on the conversion of agricultural water rights to municipal and industrial (M&I) use to provide the firm yield needed. It is estimated that the No Action alternative would result in the removal of irrigation from up to 64,200 acres of agricultural lands and the conversion of the irrigated agricultural lands to dry land uses. The reduction of productivity of agricultural land for the proposed NISP Project is minimal compared to what would happen if the Project is not constructed.

Water conservation is an important consideration and has been raised as a solution to the Participants' critical water shortages. All of the NISP WAE participants have ongoing water conservation programs to educate users about water supply and discourage unnecessary use of water on a long-term basis. All participants have conservation plans, which include the following:

- Profile of existing water supply system
- Profile of water demands and historical demand management
- Integrated planning and water efficiency activities
- Implementation and monitoring plans

Water efficiency measures have been factored into the amount of water that NISP needs by reducing the participants' demands to reflect their conservation programs. Water conservation is an important part of each participant's water management system. However, it is not enough, and the new water, as supplied by NISP, is needed to meet future water needs.

As described in its Recreation Memo, Glade Reservoir provides an opportunity to develop a brand new, outdoor, water-based recreation facility in Larimer County. The recreation commitments included in the FWMEP provide millions of dollars to develop recreation infrastructure and an associated cool-water fishery. Reservoir recreation will bring tourism and economic opportunities to businesses in Larimer County along with additional sales tax revenues. Development of Glade Reservoir recreation is estimated to provide \$13 million to \$30 million per year in total economic effects as described in the Project's Final EIS.

Water Storage Reservoir Siting and Construction

Review Criteria 11: The proposal demonstrates a reasonable balance between the costs to the applicant to mitigate significant adverse effects and the benefits achieved by such mitigation

In its 1041 Evaluation Memo, the NISP WAE explains that the FWMEP commits more than \$53 million to the 54 mitigation and enhancement commitments identified in the plan. Forty-three of those commitments, 80% of the identified improvements, will occur totally or partially in Larimer County. Those commitments are expected to cost more than \$49 million, indicating that approximately 90% of the plan's funding will provide benefit to Larimer County.

Additionally, the NISP WAE prepared a Conceptual Mitigation Plan as part of the Clean Water Act Section 404 Permit and associated NEPA regulations, and water quality mitigation will be addressed through the Colorado Department of Public Health and Environment's 401 Water Quality Certification.

601

Water Storage Reservoir Siting and Construction

Review Criteria 12: The recommendations of staff and referral agencies have been addressed to the satisfaction of the county commissioners

From its participation as a cooperating agency, and through the exchange of information between the NISP WAE and the County described in Section I, there was thorough and frequent coordination with the County and its referral agencies to review materials and provide comments on Project information documents during the many years leading up to this 1041 Permit application submittal.

In addition, and as described in its 1041 Evaluation Memo, the NISP WAE has and will continue to utilize an online public engagement tool to gather input and address concerns from the public.

Conclusion

Throughout the federal, state, and this local permitting effort, the NISP WAE engaged the public in many open-house meetings, workshops, tours, and one-on-one meetings, as well as through social media, NISPTalk.com and other outreach efforts. The NISP WAE listened to and considered public concerns, ideas, and comments, and continues to minimize project impacts, propose applicable best management practices, and refine project designs and construction concepts. The NISP WAE committed to voluntary project enhancements above and beyond mitigation of Project impacts to result in a critical water supply project that offers a net benefit to NISP Participants, the State, Larimer County, the public and affected landowners.





Larimer County Analysis – Technical Memorandum No. 3 Conveyance Pipeline Route Study & Analysis

Prepared for: Larimer County

Prepared by: Northern Integrated Supply Project Water Activity Enterprise

February 2020

CONTENTS

1.0	NISI	P Conveyance	. 3
		/orking Area & Corridor	
		oute Alternatives Analysis	
	1.2.1	Northern Tier Pipeline Alternatives Analysis	
	1.2.2	County Line Pipeline Alternatives Analysis	
	1.2.3	Poudre Intake Pipeline Alternatives Analysis	
~ ~	c		~
2.0	Con	clusions	.6

LIST OF FIGURES

Figure 1: Preliminary Pipeline Easement	.4
Figure 2: Preferred Pipeline Alignment	.6

APPENDICES

Appendix A – Route Alternatives Analysis

1.0 NISP Conveyance

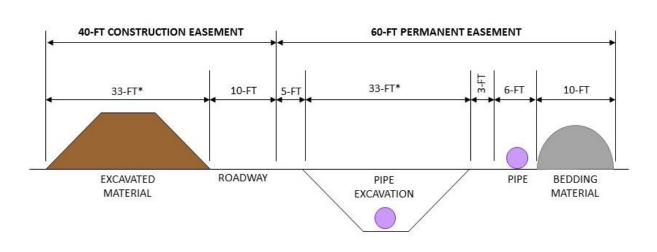
This section provides information on the NISP conveyance system and documentation of the routing evaluation study performed through Larimer County. The main conveyance pipeline will begin at the proposed Glade Reservoir facilities and bring water both east and south to the project Participants. An additional Poudre Release Pipeline (also known as the Glade Release Pipeline) will bring water from the Glade facilities directly to the Poudre River. The main delivery pipeline is the County Line Pipeline, which generally follows the Larimer County-Weld County border south to the existing Southern Water Supply Pipeline just north of State Highway 66 in Weld County. The County Line Pipeline would receive water from the Northern Tier Pipeline and the Poudre Intake Pipeline and deliver water directly to the Participants or to existing Northern Water infrastructure (Southern Water Supply Project). The approximate size of the pipeline will be 48inches in diameter. The final pipeline sizing will be determined following additional analyses during final design. Additional pumping will be required on the existing Southern Water Supply Pipeline to provide for additional delivery capacity within the system to the participants. Water would be delivered from Glade Reservoir to the County Line Pipeline using two different mechanisms:

- Poudre/Glade Release and Poudre Intake Pipelines Water from Glade Reservoir would be conveyed directly to the Poudre River via the Poudre/Glade Release Pipeline. The water would travel down 13 miles of the Poudre River before being pumped into the participant conveyance system. The intake for that water is the Poudre River Intake and Pump Station, which would be located upstream of the Mulberry Reclamation Plant discharge location and constructed to allow for 18 to 25 cfs, or 14,350 acre-feet annually, of NISP delivery. The Poudre River Intake would have a diversion structure, sedimentation basin, and pump station (1,000 to 1,300 horsepower). Water would be delivered from the intake to the County Line Pipeline via the approximately 32-inch diameter Poudre Intake Pipeline.
- Northern Tier Pipeline The Northern Tier Pipeline would deliver water directly from Glade Reservoir to the County Line Pipeline via a closed pipeline. The Northern Tier Pipeline would be a 45-inch to 54-inch diameter pipeline capable of conveying 81 to 106 cfs of water to the NISP Participants, depending upon the need for redundancy between the pipeline and river conveyance options. The need for redundancy and final pipeline sizing will be determined following additional analyses during final design.

1.1. Working Area & Corridor

To construct pipelines in the 32-inch to 60-inch diameter range, a large construction area is advantageous to facilitate quicker and more efficient construction. However, a smaller area is

acceptable in certain areas where existing constraints and utilities may limit the working area. In the preliminary stage of the Project, Northern Water is anticipating an approximately 100-footwide work area. Approximately 60 feet of this would be utilized as a permanent easement to access the pipeline in the future, while 40 feet would be acquired temporarily and used only for the initial construction of the pipeline. This 100-foot-wide corridor will be modified as needed in tight construction areas and where existing constraints and utilities limit the construction space. See Figure 1 below for a schematic of the working area.



Northern Integrated Supply Project PRELIMINARY 100-ft Easement for Single 48-inch Pipeline

*= Exact width of trench excavation will vary depending on the depth of the pipeline and types of soils encountered from approximately 20-ft to 35-ft. The width and height of the excavated material pile will vary with the amount and types of soils from the excavation trench.

Figure 1: Preliminary Pipeline Easement

For this stage in the routing analysis, final survey, title and deed search, and final design is not completed. Northern Water will follow the route selected as part of this technical memorandum to the extent feasible, recognizing that the final route designed and constructed may deviate from the presented route as more information is gathered and final design is completed. The corridor developed from this study will be the baseline route as final design is initiated and Larimer County may review each additional deliverable as design progresses.

1.2. Route Alternatives Analysis

See Appendix A to this TM No. 3 for the complete Route Alternatives Analysis for pipeline routes within Larimer County for NISP. This analysis includes the following overall sections that describe various criteria and procedures that are applied to all pipeline routes in Larimer County:

- Decision Model and Criteria A discussion of the criteria used to evaluate different alternative routes against each other. The identified performance metrics and requirements for various criteria are also explained.
- Development of Alignment Alternatives This section includes resources utilized to develop various alignments and a discussion of the use of private easement instead of public right-of-way.
- Impacts Minimization Plan A description of the various steps taken to minimize negative impacts on public and private resources such as public streets and traffic, wetland areas, and future development among others.

Three different sections detail the route analysis for each pipeline alignment. These sections include detailed information on how each route was evaluated with the various criteria.

1.2.1 Northern Tier Pipeline Alternatives Analysis

The route analysis for the Northern Tier Pipeline included over 10 different alignments evaluated against the criteria and decision model. Information and input from various public and stakeholder meetings that were held in 2017 and 2019 were incorporated into the development of the alignments, as well as information from multiple site visits. Fact sheets were developed for each route alternative explaining how the route was evaluated against the criteria. A quantitative summary of the scoring and preferred alignment is presented at the end of the analysis. Figure N.19 exhibits the Northern Tier Preferred Alignment.

1.2.2 County Line Pipeline Alternatives Analysis

The route analysis for the County Line Pipeline included multiple different alignments evaluated against the criteria and decision model. Due to existing and future development along this alignment, fewer route alternatives are available. Information and input from Timnath, Windsor, and Johnstown were incorporated into the creation of the alignments along with available development information. Fact sheets were developed for each route alternative explaining how the route was evaluated against the criteria. A quantitative summary of the scoring and preferred alignment is presented at the end of the analysis. Figure C.20 exhibits the County Line Preferred Alignment.

1.2.3 Poudre Intake Pipeline Alternatives Analysis

The route analysis for the Poudre Intake Pipeline was broken into two segments, the Main Section and the West Section. Information and input from various site visits and data gathering were incorporated into the development of the alignments. Fact sheets were developed for each route alternative explaining how the route was evaluated against the criteria. A quantitative summary of the scoring and preferred alignment is presented at the end of the analysis. Figures PW.4 and P.8 demonstrate the Poudre Intake Preferred Alignment.

2.0 Conclusions

The pipeline routes analyzed as part of this technical memorandum are preliminary routes that focus on evaluation criteria reviewed and discussed with Larimer County, as well as environmental concerns discussed with state and federal agencies. For this stage in the routing analysis, final survey, title and deed search, and final design are not completed. While Northern Water will follow the route selected as part of this technical memorandum as feasible, the final route designed and constructed may deviate from the presented route as more information is gathered and final design is completed.

See Figure 2 below with the preferred pipeline routes in Larimer County (also found as Figure 1 in Appendix A to this memorandum).

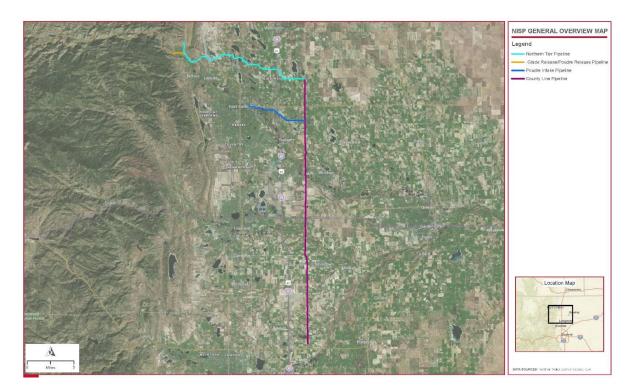


Figure 2: Preferred Pipeline Alignment



Northern Integrated Supply Project

Route Alternatives Analysis Introduction

for

Pipelines within Larimer County

February 2020

Prepared by:

Dewberry Engineers Inc. 990 South Broadway, Suite 400 Denver, CO 80209 303.825.1802

HDR Engineering, Inc. 1670 Broadway, Suite 3400 Denver, CO 80202 303.764.1520

DECISION MODEL AND CRITERIA

Dewberry/HDR and Northern Integrated Supply Project Water Activity Enterprise (NISP WAE) developed a decision model to evaluate alternative pipeline routes for all of the alignments within Larimer County that will comprise the Northern Integrated Supply Project. These pipelines include: Northern Tier, Poudre Release/Glade Release, Poudre Intake and County Line Pipelines. The general location of these four alignments can be seen in **Figure 1**.

The decision model considers multiple criteria including cost and non-cost criteria to determine a preferred alignment. The non-cost criteria considered include the following:

- Conduit Length
- Easement Difficulty
- Right-of-Way Impact
- Landowner Impact
- Proximity to Occupied Dwellings
- Environmental Impacts
- Existing Utilities
- Hazardous/Permitted Crossings
- Surface and Street Impacts
- Traffic Impacts
- Water Storage Reservoirs Impacts
- Construction Durations and Relative Constructability
- Required Trenchless Crossings
- Development Pressure
- Operation and Maintenance (O&M) Access
- O&M Requirements
- Natural Resources Impacts

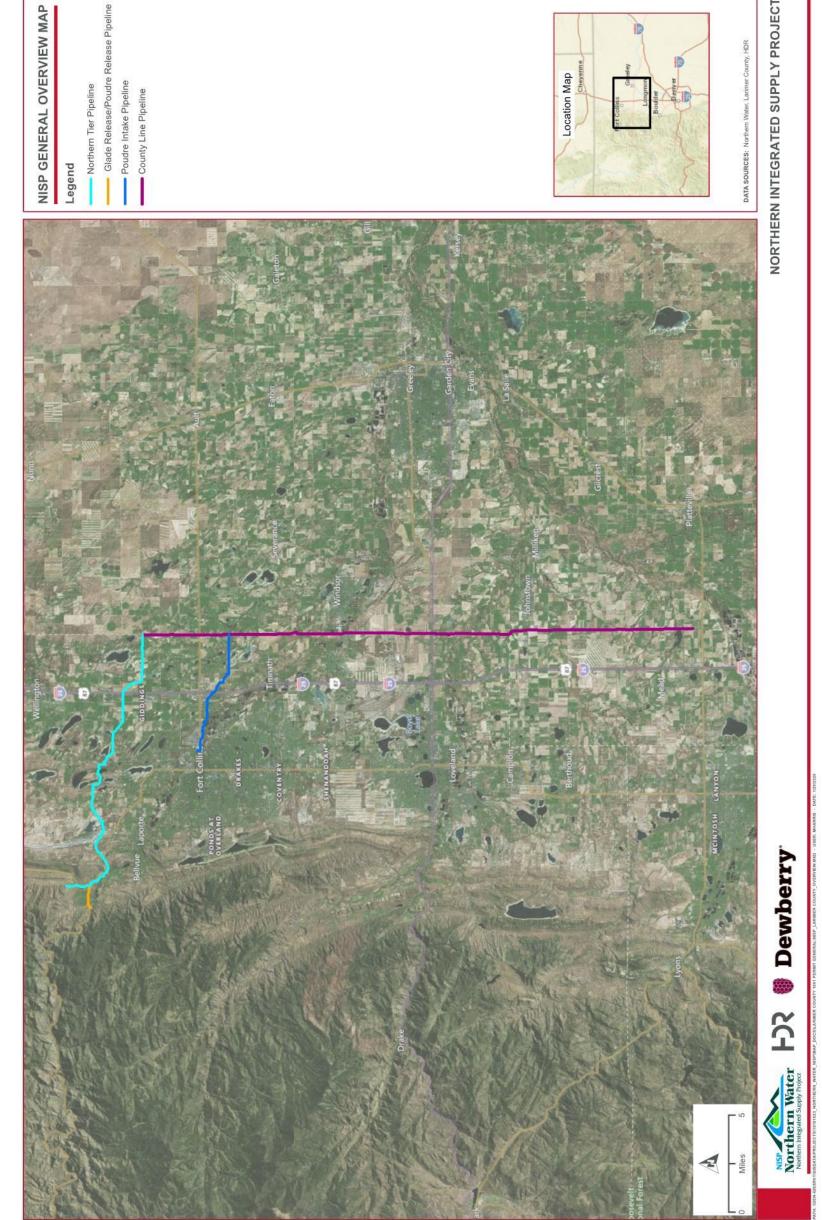
Dewberry/HDR and NISP WAE established the criteria based on the project scope, key differentiators, Larimer County concerns, and relative importance to NISP WAE. After identifying and defining criteria, a relative performance system was established where alternative alignments were evaluated against the criteria and given a rating of "Green" for good performance, "Yellow" for moderate performance and "Red" for poor performance under the criteria. A detailed description of the evaluation criteria, performance metrics, and scoring is provided in the evaluation criteria section below.







Location Map





DEVELOPMENT OF ALIGNMENT ALTERNATIVES FOR ANALYSIS

Dewberry/HDR utilized multiple resources to develop GIS based mapping to begin identifying potential pipeline routes for the project. Resources used included:

- Publicly available aerial imagery
- Property boundary information available from Larimer County
- National databases for wetland and riparian areas
- Publicly available topography information
- Local databases for existing underground utilities

Alternative routes for each alignment were developed following detailed review of aerial mapping and multiple site visits. The following paragraphs provide additional information regarding key issues impacting development of routes for analysis.

Pre-Evaluation Screening

After the development of preliminary alignment alternatives, an initial screening was performed to determine the viability of the potential route segments for further analysis. In a few isolated cases, route segments were eliminated because they did not meet the project need or were not reasonable to construct. For the preliminary alternative segment where this pre-evaluation elimination occurred, it is noted and the reasoning for elimination is provided.

Reconciliation of End Points

It was also determined that an approach would need to be developed to reconcile differences in alignment alternative end points. This applies to alignments within multiple project areas. An initial alignment evaluation was performed within the specific project areas, and if the selected alternatives in adjacent project areas required reconciliation in order to provide a continuous pipeline alignment, then the evaluation criteria were applied to the combined alternatives in the adjacent project areas which provided a continuous route and then compared against the other combined alternative alignments within the adjacent project areas.

IMPACTS MINIMIZATION PLAN

A comprehensive Impacts Minimization Plan was utilized for this analysis. This plan included steps to decrease impacts on public, private, and environmental resources. When developing the criteria in **Table 1**, emphasis was placed on mitigating negative impacts and enhancing the area if possible throughout the construction process. The specific steps taken were as follows:

- 1. Identifying pipeline alignment alternatives within private Right-of-Way as much as possible to minimize general public impact (road closures and access impacts)
- 2. Developing pipeline alignments that are adjacent to property lines and avoid splitting a property
- 3. Routing alignment options to avoid occupied dwellings/homes
- 4. Assessing environmental impacts to wetlands and adjusting routes to cause as little disturbance as possible
- 5. Routing alignment options to minimize number of street crossings, potential utility conflicts, and traffic disturbances
- 6. Routing alignment options to minimize impacts to water storage reservoirs by avoiding dam toes
- 7. Configuring pipeline alignments to avoid or minimize conflicts with future developments

8. Routing alignment options to minimize construction impact on trees and other natural resources .

EVALUATION CRITERIA

The route alternatives were evaluated against multiple criteria identified to reflect both quantitative (measurable) and qualitative (subjective) factors. Many of these criteria have both quantitative and qualitative components. Where possible, the project team identified numeric scoring parameters to assist in evaluating criteria that is mostly qualitative in nature.

Scoring

The route scoring methodology that best accommodates this blend of qualitative and quantitative evaluation criteria is a "green, yellow, red" assignment; where green is more favorable and red is least favorable. Where quantitative scoring is possible and appropriate, the routes will be assigned scores based upon a poor ¼ (red), middle ¼ (yellow), and good ¼ (green) methodology. There are instances where either the small number (2 or 3) of route alternatives and/or a poorly distributed scoring pattern does not lend itself to assigning all three scores. In these instances, the scoring will be based on the judgement of the evaluation team. These instances are noted in the evaluation.

Capital Cost

This is a purely quantitative criterion. An AACE Level 5 construction cost opinion was developed for each of the proposed routes that passed the initial screening process. These cost opinions included; pipe materials and installation, basic tunneling, pipeline appurtenances, surface improvement impacts and restoration, and roadway restoration. The construction cost opinions were based on cost curves developed by the project team from past similar constructed projects. The cost curve results were supplemented to account for route specific construction elements such as major dewatering, tunnels, and major crossings. The construction cost of the pipelines is to be paid by the NISP Participants, including Fort Collins-Loveland Water District that serves residents within Larimer County. The construction cost for each route was ranked against the other alternative routes within each project area. The greater the construction cost, the lower the route ranking.

Conduit Length

This criterion is scored numerically, but has both quantitative and qualitative factors. The length of a pipeline typically has a strong correlation to cost, however longer pipelines in unconstrained/open-county areas can be constructed at lower per foot cost than shorter pipelines located in constrained areas. Pipeline length is also utilized as a criterion due to its impact on hydraulic capacity in the gravity NISP delivery system. Pipelines with a greater length reduce hydraulic capacity due to additional friction losses, which directly impacts the project's function and could potentially require the installation of larger diameter pipelines. Larger diameter pipeline installation results in higher costs, potentially increased easement requirements, and increased impacts for multiple other criteria. In addition, greater length and/or diameter also increases the carbon footprint of the project due to increase construction duration, increased material requirements, and greater land disturbance. A longer pipeline also tends to increase impacts to the majority of the criteria listed below. Therefore, longer route length is ranked lower than shorter routes.

Easement Difficulty

This criterion is scored both numerically and subjectively as it has both quantitative and qualitative factors.

This criterion assesses the relative difficulty of acquiring a 60-foot wide permanent easement and an adjacent 40-foot wide temporary easement for a total 100 foot wide work area. At this phase of the project, the qualitative component of the assessment is based upon:

• The ability to route along the perimeter of the property adjacent to property lines,

- The relative percentage of non-perimeter property crossings, and
- The relative impacts of the easement and subsequent pipeline construction on property owners (surface improvements, proximity to buildings, etc)

Numerically, the number of total easements required for each route is determined (based upon the number of parcels crossed) and ranked against the other routes within that specific area. Routes with a higher number of easements required are ranked lower than those with fewer required easements. The routes judged to have the greater overall easement procurement difficulty are ranked lower than those judged to be less difficult.

Right-of-Way Impact

This criterion is scored numerically. As presented in further detail under the 'Right of Way Acquisition Process' section of this memorandum, NISP WAE's standard is to route as much of the conveyance system as possible in private easement rather than in public right-of-way. Numerically, the length of each route in public right-of-way was determined and ranked against the other routes within that specific area. Routes with more lineal footage within public right-of-way are ranked lower than those with less footage in public right-of-way due to the many construction impacts on the public ROW including traffic impacts and decreased space for local utilities.

Land Owner Impact

This criterion is scored both numerically and subjectively as it has both quantitative and qualitative factors. Impacts to residential properties can be one of the more sensitive issues relative to pipeline routing, making them highly subjective. Subjective factors include:

- Impact of construction disturbance on the use of the property
- Impact to and restoration of surface improvements
- Impacts to future uses of the property
- Impacts of temporary access requirements during construction activity

The routes judged to have the greater overall land owner impacts are ranked lower than those judged to have fewer land owner impacts.

Numerically, the number of access points crossed and therefore the number of locations requiring temporary access provisions for each property are determined and ranked against the other routes within that specific area. Routes with a greater number of access issues are ranked lower. It is important to note that all accesses will remain open during construction, not blocked. In any situations requiring the traversing of an existing access point by the pipeline construction, the contractor will be required to provide temporary access provisions.

Proximity to Occupied Dwellings/Businesses

This criterion is scored numerically. It is important to note that during the identification of alternative routes, specific attention was given to minimize the proximity to existing residences, or businesses in commercial areas, where possible. The number of locations where the pipeline alignment passes within 100 feet of an occupied dwelling, or businesses in commercial areas, was determined for each route and ranked against the other alternative routes within that specific area. Pipeline routes with a greater number of dwellings/businesses within 100 feet are ranked lower.

Environmental Impacts

The length of pipeline within identified wetland/riparian areas are determined for each route. National databases were used for determination of wetland and riparian area boundaries. These databases provide a consistent source of information from which to evaluate all alternatives. However, detailed wetlands information for the preferred pipeline routes and Glade Reservoir can be found in the 1041 Permit wetlands report. Pipeline routes with a greater overall number of stream crossings and greater length of wetland/riparian crossings are ranked lower. The length of pipeline within identified floodplains (using the FEMA national floodplain mapping) are determined for each route.

Since wetlands and floodplains frequently occur in the same areas but rarely have identical boundaries, the lineal footage for each was added together for a total numeric score and ranked against the other alternative routes within that specific area. Pipeline routes with a greater overall length of wetland/riparian plus floodplain crossings are ranked lower.

While floodplains can pose risks to any conveyance system (pipelines, roadways, conduits and even supports for aerial systems) they are frequently unavoidable and must be a major consideration in design. Floodplains are not considered a significant risk to this pipeline due to the following practices:

- Use of double-lap-welded steel pipelines
- Performance of a scour analysis for each major crossing to ensure that pipeline burial depth is adequate
- Siting of critical appurtenances outside of floodplains
- Restoring to existing grades after pipeline construction to avoid any changes to the floodplain to obtain a "no rise" finding

It is important to note that NISP WAE's welded-steel Southern Water Supply Pipeline (SWSP) remained operational throughout and after the September 2013 floods even though it traversed four of the major affected floodplains (Big Thompson, St. Vrain, Left Hand Creek, and Boulder Creek). Additionally, of the City of Longmont's 5 raw water delivery systems (3 pipelines and 2 canals), the SWSP was their only operational supply following the September 2013 floods.

Existing Utilities

This criterion is scored subjectively. The relative density of anticipated existing utility corridors and level of coordination required with adjacent and crossing utilities are assessed for each route and ranked against the other alternative routes within that specific area. This determination is based on existing utility information obtained from Colorado 811/SUE requests submitted for each route considered. Field utility locating was not performed. The existing utility information obtained through the Colorado 811/SUE system is highly variable in accuracy and level of detail and can range from hand-drawn sketches to GIS based mapping, but generally consists only of a line on a map with minimal information on size, type, and exact location of the facility. As such, the scoring of the existing utilities criteria is based on the relative number of existing utilities identified to be within close proximity to or crossed by a particular pipeline route. In general, a higher number of existing utilities are found along road rights-of-way and in highly developed areas. However, even in areas considered to be more unconstrained, existing utilities such as oil and gas pipelines, larger water transmission pipelines, and overhead and buried electrical transmission lines are still relatively common.

It is important to note that existing utility conflict avoidance is a fundamental practice in pipeline routing and design, but existing utility corridors can also provide the potential for parallel routing alternatives. The vast majority of the existing utilities identified as being in the vicinity of the NISP project will be avoided by route adjustments within the proposed easements or by crossing over or under the existing utility while maintaining proper clearance. We anticipate a limited number of existing utility relocations.

Any utility relocations that are deemed to be unavoidable will be thoroughly coordinated with the utility owner during the final design phase of the project. NISP will be responsible for all costs, permits, and planning for any relocations of existing utilities.

Hazardous/Permitted Crossings

This criterion is scored numerically. The project mapping includes boundaries for known potentially hazardous groundwater or soil conditions which could require remediation or mitigation during pipeline construction. Those boundaries were developed from the following publicly available databases regarding potentially hazardous sites:

https://ops.colorado.gov/Petroleum/maps https://www.colorado.gov/pacific/cdphe/superfund-sites https://www.colorado.gov/pacific/cdphe/voluntary-cleanup https://www.colorado.gov/pacific/cdphe/hmcovenants https://www.epa.gov/cleanups/cleanups-my-community https://www.colorado.gov/pacific/cdphe/brownfields

Pipeline routes with the greater number of crossings of potentially hazardous sites are ranked lower than those determined to have less.

Surface and Street Impacts

This criterion is scored numerically. Each alternative pipeline route was evaluated for the level of impact to public infrastructure by determining the lineal feet of pipeline in paved and gravel roads. An open-cut length of pipeline in paved roads is weighted as 2 versus a length of pipe in gravel roads weighted as 1. Crossings of paved roads utilizing trenchless methods are not counted in this criteria. The length of pipeline within roads was determined for each route and ranked against the other alternative routes within that specific project area. Pipeline routes with a greater lineal footage in roads are ranked lower.

Traffic Impacts

This criterion is scored numerically. The traffic impacts from pipeline construction are determined as follows:

- Trenchless pipe construction below paved roadways is considered to have "low" traffic impacts since it will remain completely open during the crossing
- Pipe construction in paved roadways is considered to have "high" traffic impacts since there will be at least partial lane closures and paved roadways typically have higher traffic volumes
- Pipe construction in gravel roadways is considered to have "medium" traffic impacts since there will be at least partial lane closures and gravel roadways typically have lower traffic volumes than paved roadways
- Open-cut crossings of gravel roads is considered to have "medium" traffic impacts due to an expected phased lane closures and gravel roadways typically have lower traffic volumes than paved roadways

The lineal footage of high, medium, and low traffic impacts is determined for each route and ranked against the other alternative routes within that specific area. High impacts receive a multiplier of 4, medium impacts receive a multiplier of 2, and low impacts receive a multiplier of 1. A Traffic Impact Scope is then calculated for each pipeline route by multiplying each length of low, medium, and high times the respective length.

Water Storage Reservoirs Impacts

This criterion is scored numerically. The number of locations where the pipeline alignment passes within 100 feet of the toe of a dam, other critical dam-safety facilities, or reservoir inlet/outlet infrastructure was determined for each route and ranked against the other alternative routes within that specific area.

Construction Duration and Relative Constructability

This criterion is scored numerically. Duration of pipeline construction has both quantitative and qualitative factors. Duration of construction tends to correlate significantly with pipeline length and construction cost. Longer construction durations also tend to magnify qualitative factors such as public inconvenience, landowner impacts, and carbon footprint.

Pipeline production rates are estimated using factors including pipe diameter, route complexity, route length, available construction corridor area and access, utility density, and terrain challenges. An approximate total construction duration for each route was estimated and ranked against the other alternative routes within a specific project area. Routes with a greater construction duration are ranked lower.

Required Trenchless Crossings

This criterion is scored numerically. The impact of trenchless crossing construction has both quantitative and qualitative factors. Quantitatively, trenchless crossings can add significantly to the overall project cost. Qualitatively, trenchless crossings add elements of construction risk and high localized impacts at the tunnel portals. It has been assumed that all railroads, highways and all paved roads will be trenchless crossing.

Both the number of trenchless crossings and the total length of trenchless crossings are determined for each route and ranked against the other alternative routes within each specific area. Pipeline routes with greater length of trenchless construction are ranked lower.

Development Pressure

This criterion is scored numerically. The presence of known current or near term (within 2 years) development within each route alternative was investigated by conducting field visits, researching county, city, and town websites/databases, as well as attending in-person discussions with these entities. The lineal feet of pipeline traversing these known developments is determined for each route and ranked against the other alternative routes within each specific area. Pipeline routes with a greater length traversing near-term developments are ranked lower.

Operation and Maintenance (O & M) Access

This criterion is scored subjectively. Accessibility to the pipeline for the maintenance of pipeline appurtenances and to make repairs was evaluated for each pipeline route and ranked against the other alternative routes within each specific area. Adequate access is key to proper maintenance and prevention of leaks and or appurtenance failures which would adversely impact residents near the pipeline. Pipelines that have greater length adjacent to (but not within) public roadways are ranked higher. Pipeline routes with reduced or limited access for pipeline operation and maintenance are ranked lower.

O & M Requirements

This criterion is scored numerically. The anticipated number of air vacuum/release (AV/AR) and blowoff (BO) facilities based upon the traversed topography (high and low points) are estimated for each alternative route. Additionally, apparent locations where additional cathodic (corrosion) protection may be required due to foreign utility crossings (principally oil and gas) are also identified for each alternative route. These anticipated facilities are then totaled for each route and ranked against the other alternative routes within the specific area. Pipeline routes with greater combined O & M requirements are ranked lower.

Natural Resources

This criterion is scored numerically. Natural areas (natural tree areas, riparian areas, designated wildlife areas) are identified along each route. The lineal footage of pipeline traversing these areas is determined for each route and ranked against the other alternative routes within the specific area. Pipeline routes with a greater length traversing natural areas are ranked lower.

Grassland areas, farmed areas, and improved areas are considered to be temporarily impacted and more readily restorable over a shorter period of time than the above-mentioned natural areas and have not been included in this category.

Table 1 – Matrix Evaluation	Table 1 – Matrix Evaluation Criteria, Description, and Metrics		
Evaluation Criteria	Performance Metrics - Green	Performance Metrics - Yellow	Performance Metrics - Red
Capital Cost	Lower \mathcal{Y} of comparative alternatives	Middle ½ of comparative alternatives	Upper ¼ of comparative alternatives
Conduit Length	Lower ${\cal Y}$ of comparative alternatives	Middle ½ of comparative alternatives	Upper 1⁄4 of comparative alternatives
Easement Difficulty	Lower ¼ of comparative alternatives & subjective factors	Middle ½ of comparative alternatives & subjective factors	Upper ${\cal M}$ of comparative alternatives & subjective factors
Right-of-Way Impact	Lower $\mathcal V$ of comparative alternatives	Middle ½ of comparative alternatives	Upper ${\cal H}$ of comparative alternatives
Land Owner Impact	Lower ${\mathcal V}$ of comparative alternatives & subjective factors	Middle $\%$ of comparative alternatives & subjective factors	Upper ${\mathcal U}$ of comparative alternatives & subjective factors
Proximity to Occupied Dwellings	Lower ${\cal Y}$ of comparative alternatives	Middle ½ of comparative alternatives	Upper ${\cal H}$ of comparative alternatives
Environmental Impacts	Lower $\mathcal V$ of comparative alternatives	Middle ½ of comparative alternatives	Upper ¼ of comparative alternatives
Existing Utilities	Lower density of existing utilities (subjective)	Moderate density of existing utilities (subjective)	Higher density of existing utilities (subjective)
Hazardous/ Permitted Crossings	Lower ${\cal Y}$ of comparative alternatives	Middle ½ of comparative alternatives	Upper ${\cal H}$ of comparative alternatives
Surface and Street Impacts	Lower ${\cal Y}$ of comparative alternatives	Middle ½ of comparative alternatives	Upper ${\cal M}$ of comparative alternatives
Traffic Impacts	Lower ${\cal Y}$ of comparative alternatives	Middle ½ of comparative alternatives	Upper ${\cal M}$ of comparative alternatives
Water Storage Reservoirs Impacts	Lower ${\cal Y}$ of comparative alternatives	Middle ½ of comparative alternatives	Upper ${\cal M}$ of comparative alternatives
Construction Duration and Relative Constructability	Lower ${\cal Y}$ of comparative alternatives	Middle ½ of comparative alternatives	Upper ${\cal M}$ of comparative alternatives
Required Trenchless Crossings	Lower ${\cal V}$ of comparative alternatives	Middle ½ of comparative alternatives	Upper ${\cal M}$ of comparative alternatives

	Performance Metrics - Green	Performance Metrics - Yellow	Performance Metrics - Red
Development Pressure	Lower $\mathcal X$ of comparative alternatives	Middle ½ of comparative alternatives	Upper ¼ of comparative alternatives
Operation and Maintenance (O&M) Access	Better access (subjective)	Moderate access (subjective)	Poorer access (subjective)
O&M Requirements	Lower $\mathcal X$ of comparative alternatives	Middle ½ of comparative alternatives	Upper ¼ of comparative alternatives
Natural Resources Impacts	Natural Resources Impacts Lower ¼ of comparative alternatives	Middle ½ of comparative alternatives	Upper ¼ of comparative alternatives

Appendix 1: Responses to Larimer County Comments

The following appendix is a summary of comments received from Larimer County related to the previous memo submission. Comments and associated responses are included.

Route Evaluation Comments:

- 1. Routing through and around the Eagle Lake Subdivision Please see "Construction Approach for Eagle Lake" supplemental document for additional information. Document is currently in working draft status.
- 2. Routing Adjacent to Boxelder Floodplain Noted that disturbance to the floodplain that results from construction of the pipeline will be subject to floodplain regulations.
- 3. Routing Near the Budweiser Effluent Lines

We are aware of the presence of the Anheuser-Busch effluent lines in the County Road 52 corridor. We will coordinate with A-B as design progresses.

4. Impacts to Larimer County Right-of-Way (ROW)

It is preferable to have alignments remain on the same side of the road to avid the impacts and cost of crossings. We have crossed the roadway at locations where it was determined that impacts to existing surface improvements, impact to residences, or level of disturbance to occupied structures would be significantly mitigated by doing so. The goal of the routing study was to find a route with the overall least disturbance alignments and this has resulted in isolated locations that enter the public ROW.

5. Staging Locations

Staging locations have not yet been identified. These are typically identified during final design once the pipelines are divided into construction contracts. NISP WAE will work with Larimer County to ensure that staging and access requirements are delineated and coordinated in final design.



Northern Integrated Supply Project

Northern Tier Delivery Pipeline Alternatives Analysis

February 2020

Prepared by:

Dewberry Engineers Inc. 990 South Broadway, Suite 400 Denver, CO 80209 303.825.1802 HDR Engineering, Inc. 1670 Broadway, Suite 3400 Denver, CO 80202 303.764.1520

ROUTE COMPARISONS

Each of the alternatives developed was subjected to the evaluation criteria and metrics described in **Table 1** of the introduction section. The Northern Tier segment was broken into 4 Project Areas to facilitate comparison of alternatives of reasonable length. The Project Areas also enabled the project team to look at combinations of alternatives for each Project Area and facilitated a thorough analysis for the final preferred alignment.

An overview of all of the Project Areas and the identified alternative alignments is provided in **Figure N.1**. The overview page is followed by detailed fact sheets for each alternative alignment that describe the alignment and its performance against the evaluation criteria. Each fact sheet is accompanied by a figure illustrating the proposed routing and pertinent features in the area. The ranking column on the fact sheet provides the summary performance results of that alignment relative to other alternatives (green = good performance, yellow = fair performance, red = poor performance). In the end, the alternate with the best overall performance (least reds, most greens) was chosen to be the preferred alternate. This Preferred Northern Tier Alignment can be seen in **Figure N.19** at the end of this document.

In total, one (1) route was considered for Project Area 0, six (6) alternates were identified and assessed for Project Area 1, five (5) alignment alternates were identified and assessed for Project Area 2, and four (4) alignment alternates were identified and assessed for Project Area 3.

The pipeline segment identified in Project Area o can be seen on the individual alignment alternative maps (**see Figure N.2**), as well as on the overall maps. This segment is symbolized as a dashed grey and black line and is assessed in this document. This section of Northern Tier connects the Proposed Glade Reservoir with the alignment alternates in Project Area 1. Due to the short length and previous landowner coordination, a single route is assessed for this section of the pipeline.

Additionally there is a segment identified as the "Glade Release/Poudre Release Pipeline" which can be seen on the individual alternative maps (**see Figure N.3**), as well as on the overall maps. This segment is symbolized as black and white dashed and is assessed in this document. The Poudre Release Pipeline connects the Poudre River with the alignments in Project Area 1. Similar to the alignment in Project Area 0, a single route is assessed for this pipeline due to previous landowner coordination and direction. Neither of these pipelines were scored with color rankings, since there was only one alternative.

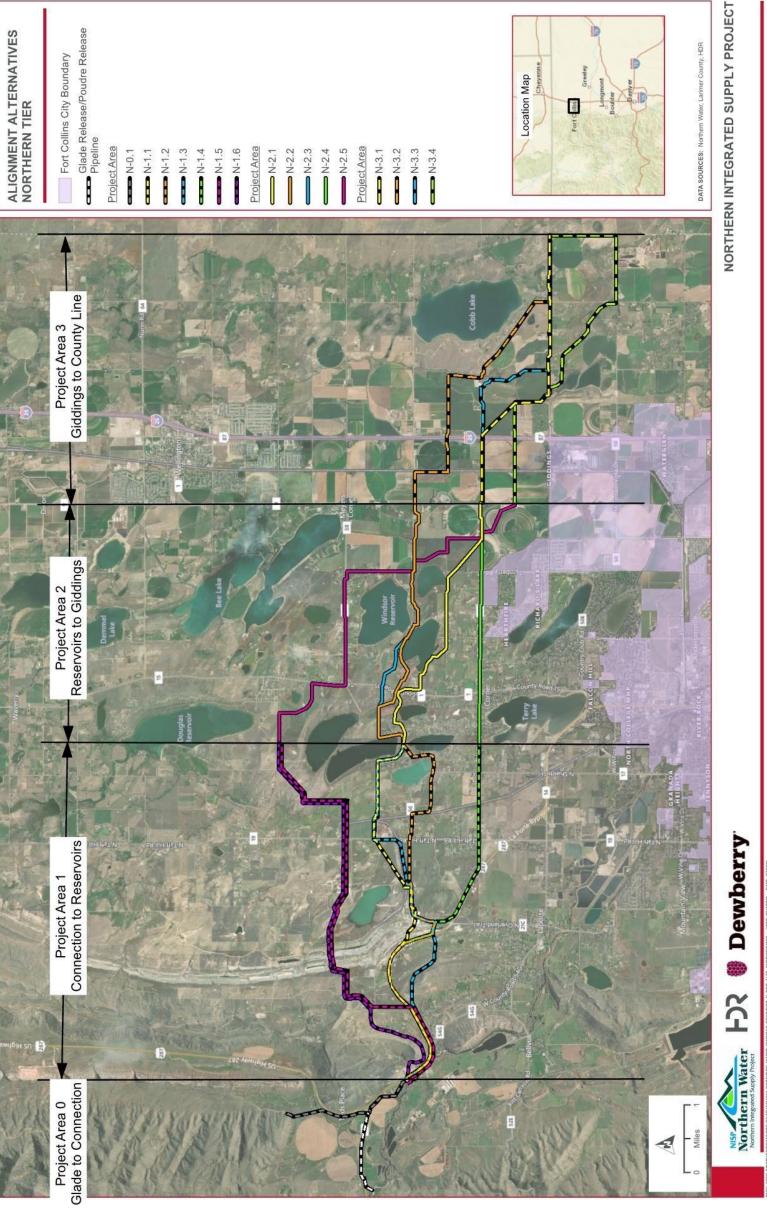
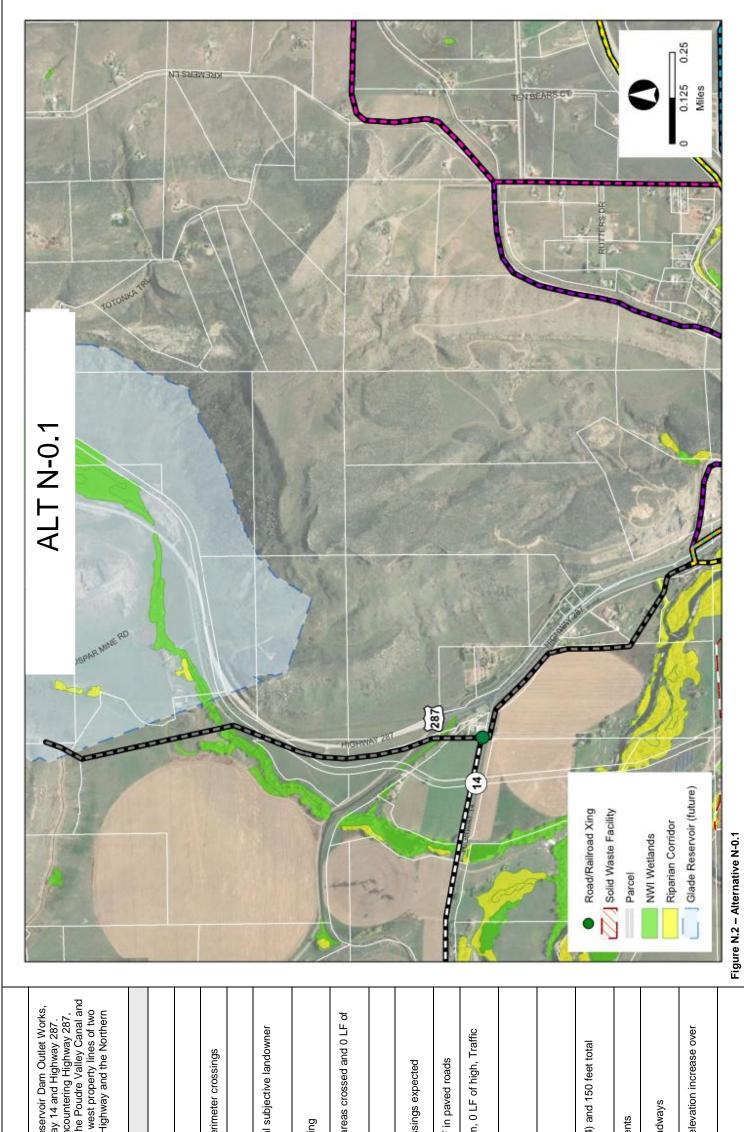




Figure N.1 Northern Tier Project Areas and Alternatives



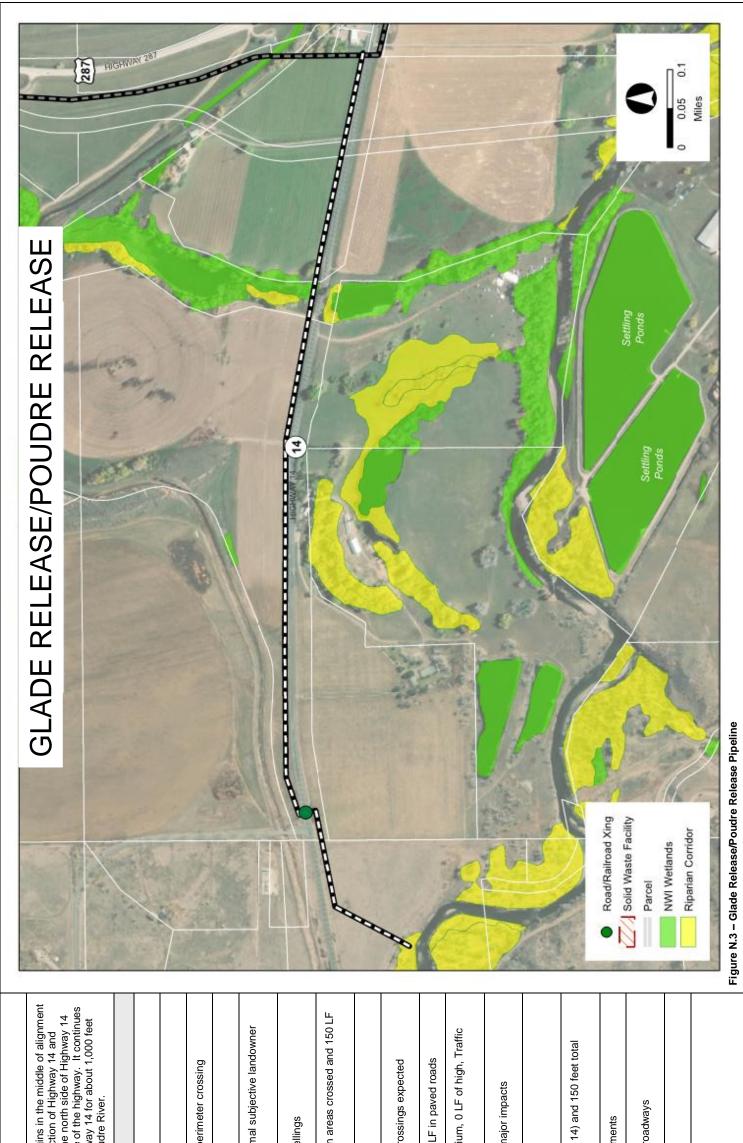
Alternative Name	Projec	Project Area 0- Alter	Alternative N-0.1
Alternative Location & Description	Alternati about 6, From th then foll across F parcels Tier PA	Alternative N-0.1 beg about 6,500 feet nor From the Dam, It tra then follows the High across Highway 14. parcels before conve Tier PA 1 alignment	Alternative N-0.1 begins at the proposed Glade Rese about 6,500 feet north of the intersection of Highway From the Dam, It traverses generally south until enco then follows the Highway 287 right-of-way across the across Highway 14. It then follows the south ROW of Hig parcels before converging with the south ROW of Hig Tier PA 1 alignment alternatives.
Criteria		Ranking*	Comments
Capital Cost			\$ 6,242,000
Conduit Length			2.1 miles; 11,100 feet
Easement Difficulty			10 parcels crossed. 2 non-perin
Right-of-Way Impact		ı	3,000 LF in parallel ROW
Land Owner Impact		ı	2 driveways crossed, minimal s impacts
Proximity to Occupied Dwellings	7		Within 100 feet from 1 dwelling
Environmental Impacts and Floodplain Crossings	ts and	1	200 LF of wetlands/riparian are floodplain crossed
Existing Utilities		1	Low utility density
Hazardous/Permitted Crossings			No hazardous/permitted crossir
Surface and Street Impacts	Ipacts	ı	0 LF in gravel road and 0 LF in
Traffic Impacts			150 LF of low,0 LF of medium, Impact Score of 150
Water Storage Reservoirs Impacts	voirs	ı	No impacts expected
Construction Duration and Relative Constructability	ו and lity		68 days of construction
Required Trenchless Crossing		ı	1 other crossing (Highway 14) a trenchless
Development Pressure	e.	I	0 LF of near-term development
Operation and Maintenance Access		·	Convenient access. Near roadw
O&M Requirements			1 ARV and BO pairs. Large elev alignment

* Rankings not provided since only one alignment is available

ī

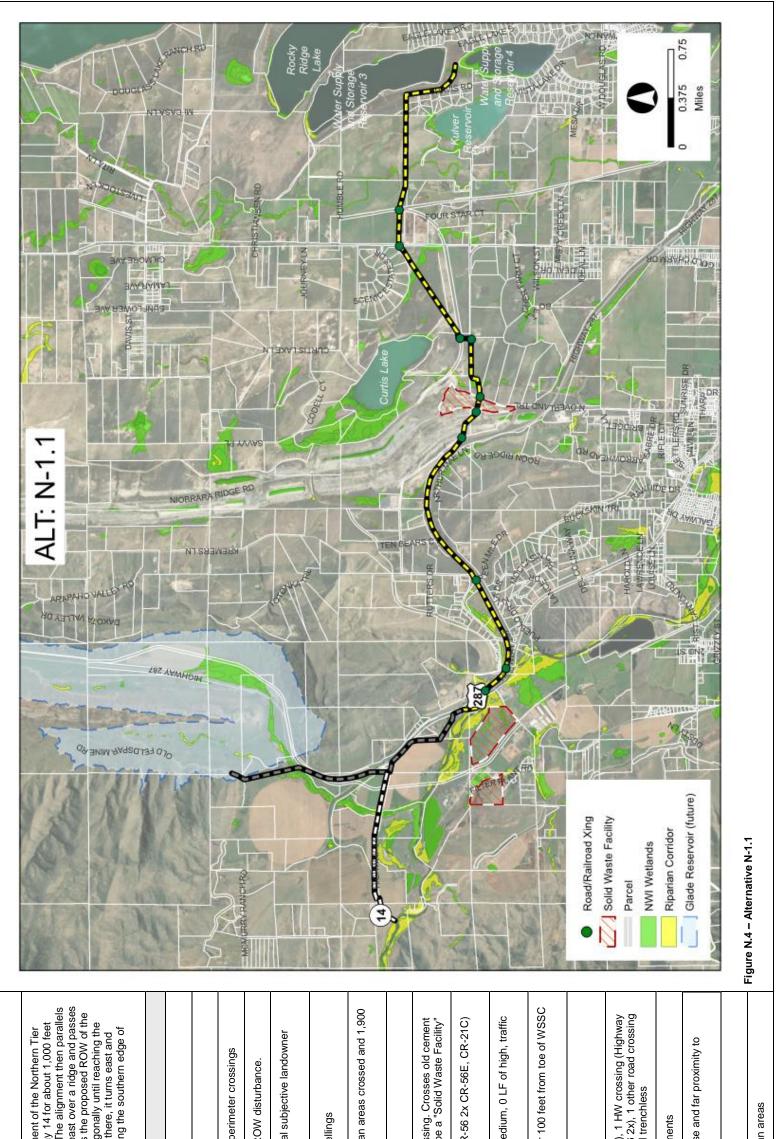
Natural Resources Impacts

50 LF in natural areas

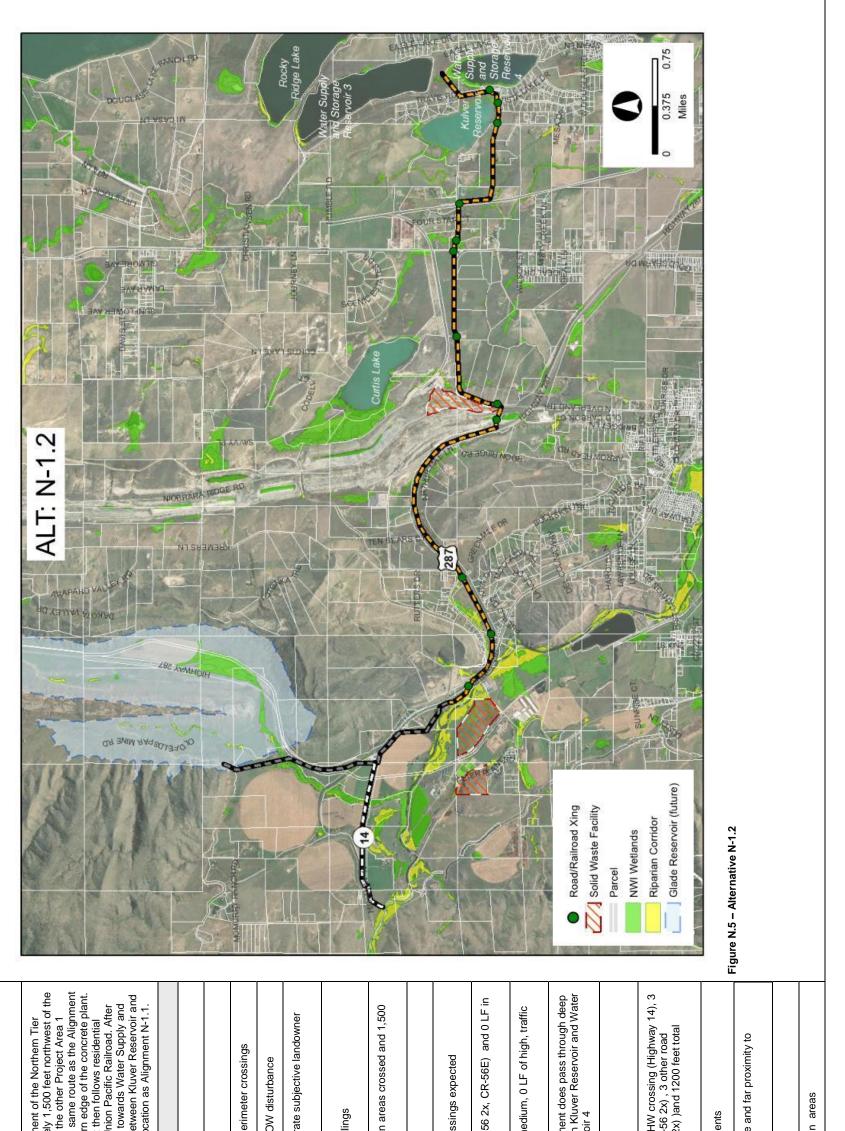


Alternative Name	Glade	Release/Poud	Glade Release/Pourdre Release Pineline
Alternative Location &	The G N-0.1 Highw for abo	lade Release/P (approximately ay 287). It gene out a mile. befo	The Glade Release/Poudre Release Pipeline begins N-0.1 (approximately 250 feet west of the intersection Highway 287). It generally goes west, following the n for about a mile. before crossing to the south side of t
Description	to trav until tu	erse westerly a irning southwes	to traverse westerly along the south side of Highway until turning southwest and terminating at the Poudre
Criteria		Ranking*	Comments
Capital Cost		-	\$ 3,978,000
Conduit Length			1.3 miles; 6,900 feet
Easement Difficulty		ı	7 parcels crossed. 1 non-perin
Right-of-Way Impact		ı	0 LF in parallel ROW
Land Owner Impact		ı	0 driveways crossed, minimal impacts
Proximity to Occupied Dwellings	P	ı	Within 100 feet from 0 dwelling
Environmental Impacts Floodplain Crossings	ts and	ı	150 LF of wetlands/riparian ar of floodplain crossed
Existing Utilities			Low utility density
Hazardous/Permitted Crossings		ı	No hazardous/permitted cross
Surface and Street Impacts	npacts	ı	0 LF in gravel road and 0 LF i
Traffic Impacts		ı	150 LF of low,0 LF of medium Impact Score of 150
Water Storage Reservoirs Impacts	voirs	ı	Crossing pond/canal. No majo
Construction Duration and Relative Constructability	n and ility	ı	49 days of construction
Required Trenchless Crossing			1 other crossing (Highway 14) trenchless
Development Pressure	le		0 LF of near-term developmer
Operation and Maintenance Access		ı	Convenient access. Near roac
O&M Requirements			4 ARV and BO pairs
Natural Resources Impacts	Ipacts		50 LF in natural areas

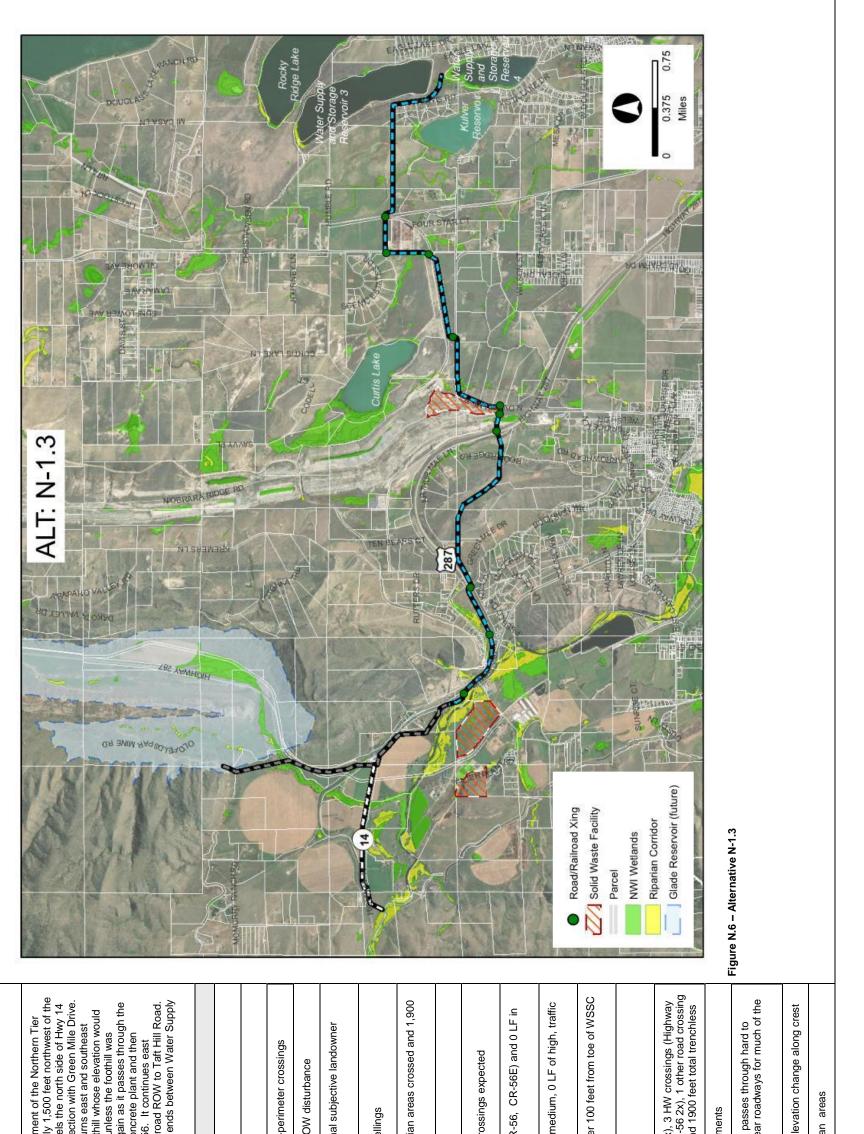
* Rankings not provided since only one alignment is available



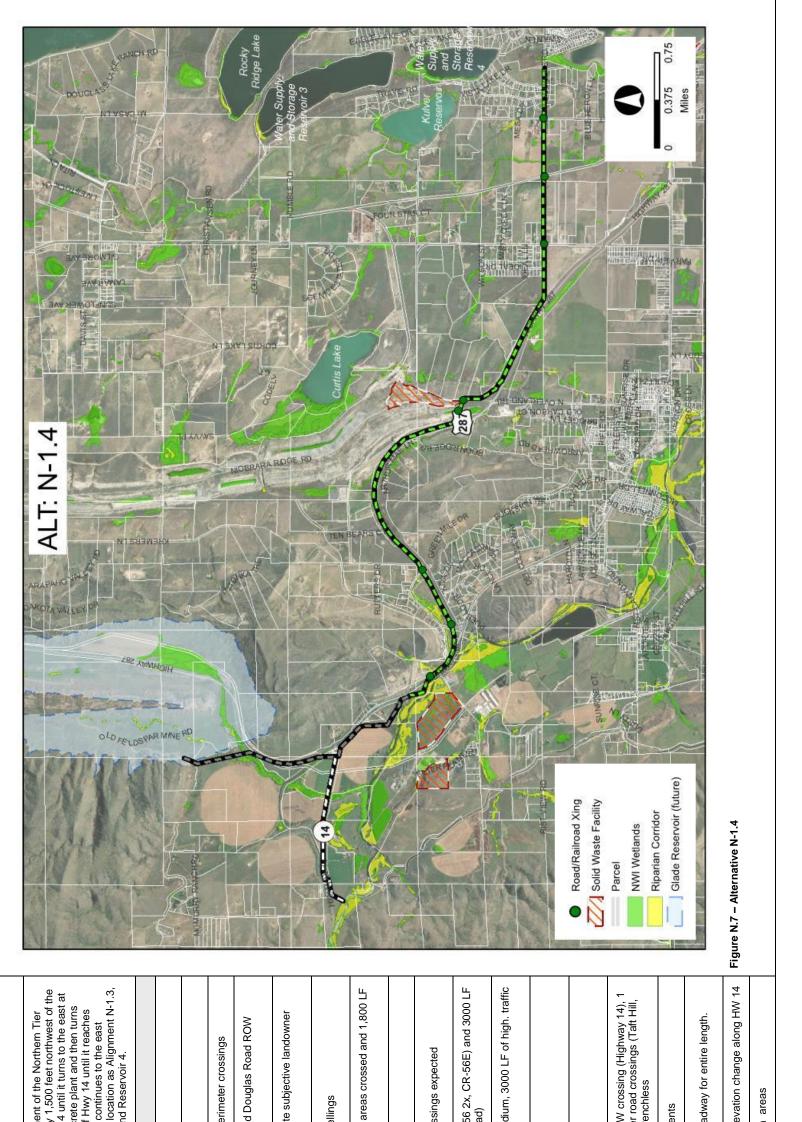
Alternative Name	Proiec	Proiect Area 1 - Aliar	Alignment N-1.1
Alternative Location & Description	Alignm Pipelir before the no throug Hwy 2 back c crosse Water	Alignment N-1.1begins at the Pipeline. It then follows the before crossing to the north the north side of Hwy 14 un through the concrete plant. Hwy 287 relocation. It cont back of Homes of Distinctio crosses the Union Pacific R Water Supply and Storage	Thi it fill it This no de la This no de Res
Criteria		Ranking	Comments
Capital Cost		Green	\$ 18,744,000
Conduit Length		Green	5.9 miles; 31,100 feet
Easement Difficulty		Yellow	18 parcels crossed, 8 non-per
Right-of-Way Impact		Yellow	12,000 LF of Highway 14 ROV
Land Owner Impact		Green	1 driveway crossed, minimal s impacts
Proximity to Occupied Dwellings	73	Green	Within 100 feet from 2 dwellir
Environmental Impacts Floodplain Crossings	ts and	Yellow	1,100 LF of wetlands/riparian LF of floodplain crossed
Existing Utilities		Yellow	Medium utility density
Hazardous/Permitted Crossings		Yellow	1 hazardous/permitted crossir plant which is indicated to be
Surface and Street Impacts	Ipacts	Yellow	400 LF in gravel roads (CR-5 and 0 LF in paved roads
Traffic Impacts		Green	900 LF of low, 400 LF of medi impact score of 1,700
Water Storage Reservoirs Impacts	voirs	Green	No impacts expected. Over 10 No. 3 dam.
Construction Duration and Relative Constructability	ו and lity	Yellow	253 days of construction
Required Trenchless Crossing		Yellow	2 RR crossings (UP RR 2x), 1 14) , 2 CR crossing (CR-56 2) (Taft Hill) and 900 feet total tre
Development Pressure	ſe	Green	0 LF of near-term developmer
Operation and Maintenance Access		Yellow	Moderate access, both close a roadways
O&M Requirements		Green	1 ARV/BO pair
Natural Resources Impacts	Ipacts	Yellow	700 LF in natural or riprarian a



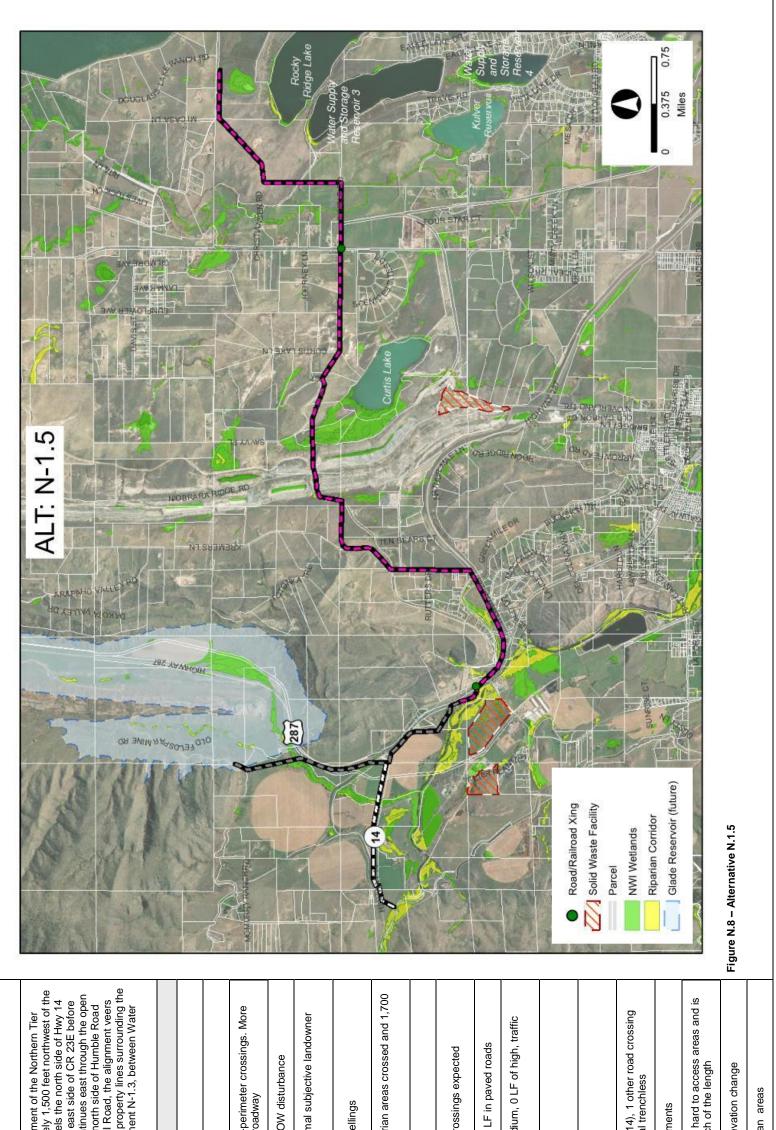
Alternative Name	Proje	Project Area 1 – Ali	Alignment N-1.2
Alternative Location & Description	Alignm Pipelir alignm N-1.1, It follo proper crossii Storag	nent N-1.2beg action with CR section with CR tents. Alighm but diverts sc ws up the eas ty lines, while ng the railroac pe Reservoir 4 ge Reservoir 4	Alignment N-1.2begins at the end of the first segmen Pipeline on the north side of Hwy 14 approximately intersection with CR 54E, at the same location as the alignments. Alignment N-1.2 begins following the so N-1.1, but diverts south before skirting the southern e It follows up the eastern side of the plant, where it the property lines, while heading east until crossing Unio crossing the railroad, it traverses south, then east tov Storage Reservoir 4, before ending in the same locat
Criteria		Ranking	Comments
Capital Cost		Red	\$ 21,043,000
Conduit Length		Yellow	6.5 miles; 34,400 feet
Easement Difficulty		Yellow	20 parcels crossed, 4 non-perir
Right-of-Way Impact		Yellow	14,000 LF of Highway 14 ROW
Land Owner Impact		Yellow	6 driveways crossed, moderate impacts
Proximity to Occupied Dwellings	73	Green	Within 100 feet from 2 dwelling
Environmental Impacts Floodplain Crossings	ts and	Yellow	1,000 LF of wetlands/riparian a LF of floodplain crossed
Existing Utilities		Yellow	Medium utility density
Hazardous/Permitted Crossings		Green	No hazardous/permitted crossi
Surface and Street Impacts	Ipacts	Yellow	300 LF in gravel roads (CR-56 paved roads
Traffic Impacts		Green	1200 LF of low, 300 LF of medi impact score of 1,800
Water Storage Reservoirs Impacts	voirs	уеllow	No impacts expected Alignmen connection channel between K Supply and Storage Reservoir
Construction Duration and Relative Constructability	ו and and	Red	310 days of construction
Required Trenchless Crossing		Red	1 RR crossings (UP RR), 1 HW CR crossings (CR-21C, CR-56 crossings (Shields, Travis (2x) trenchless
Development Pressure	ſe	Green	0 LF of near-term development
Operation and Maintenance Access		Yellow	Moderate access, both close al roadways
O&M Requirements		Yellow	2 ARV/BO pairs
Natural Resources Impacts	Ipacts	Yellow	700 LF in natural or riprarian



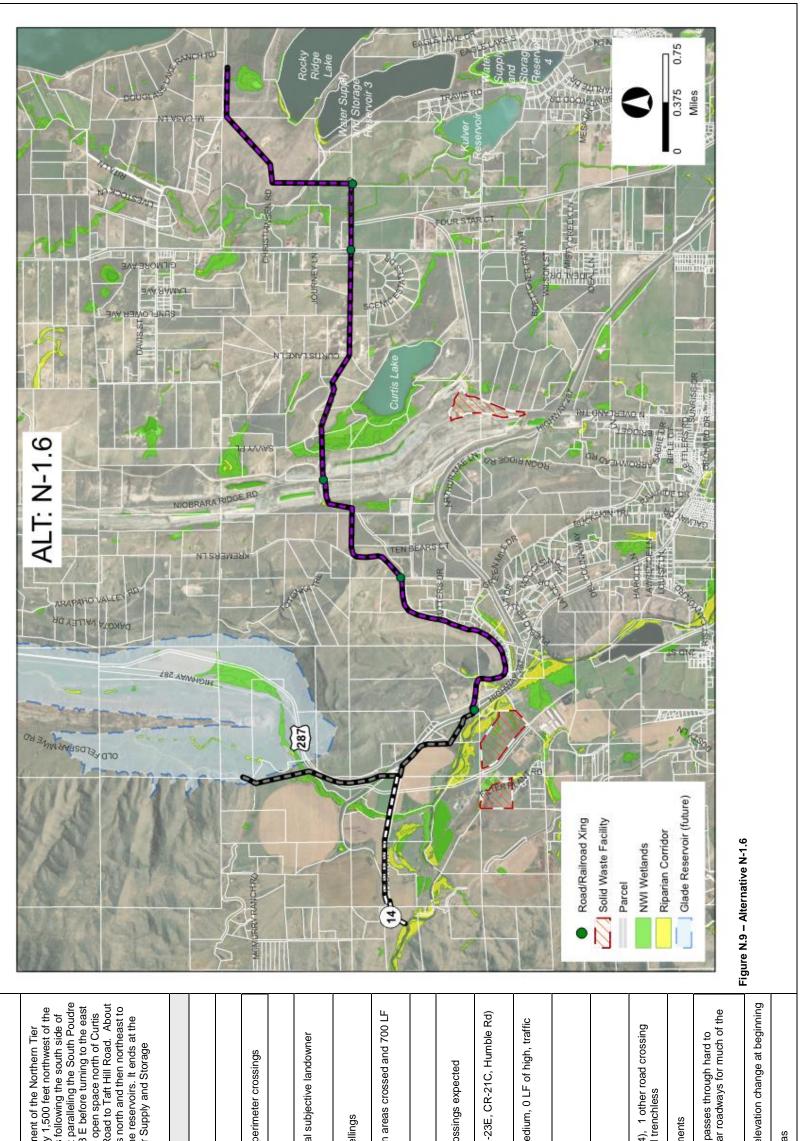
Alternative Name Pro	Project Area 1 - Alian	- Alianment N-1.3
Alicity Alternative Internative Through the Alternative It the Alternative It through the Alternative Endertion and the Alternative Enderties and the Altern	Alignment N-1.3begins at the end of Pipeline on the north side of Hwy 14 intersection with CR 54E. Alignment until it crosses the highway just west through rural residential parcels. It c hydraulically limit conveyance from th tunneled. The alignment then crosse steep ridge along current CR 56E, sc continues to the north along the east oaralleling the north side of the Unior From there, it heads north and then e and Storage Reservoir 3 and Reserv	Alignment N-1.3begins at the end of the first segmer Pipeline on the north side of Hwy 14 approximately 1 intersection with CR 54E. Alignment N-1.3 parallels until it crosses the highway just west of the intersectin it then parallels the south side of Hwy 14 until it turns through rural residential parcels. It crosses a foothill through rural residential parcels. It crosses a foothill through rural endowed to the order of the concr tunneled. The alignment then crosses Hwy 14 again steep ridge along current CR 56E, south of the concr continues to the north along the east side of CR 56. paralleling the north along the east side of CR 56. paralleling the north along the east side of the toncr continues to the north and then east where it end From there, it heads north and then east where it end and Storage Reservoir 3 and Reservoir 4.
Criteria	Ranking	Comments
Capital Cost	Red	\$ 21,958,000
Conduit Length	Yellow	6.3 miles; 33,300 feet
Easement Difficulty	Yellow	25 parcels crossed. 5 non-per
Right-of-Way Impact	Yellow	6,000 LF of Highway 14 ROW
Land Owner Impact	Green	1 driveway crossed, minimal s impacts
Proximity to Occupied Dwellings	Green	Within 100 feet from 2 dwellin
Environmental Impacts and Floodplain Crossings	d Red	2,000 LF of wetlands/riparian LF of floodplain crossed
Existing Utilities	Yellow	Medium utility density
Hazardous/Permitted Crossings	Green	No hazardous/permitted cross
Surface and Street Impacts	s Yellow	200 LF in gravel roads (CR-56 paved roads
Traffic Impacts	Green	1400 LF of low, 200 LF of mee impact score of 1,800
Water Storage Reservoirs Impacts	Green	No impacts expected. Over 1 No. 3 dam.
Construction Duration and Relative Constructability	Red	391 days of construction
Required Trenchless Crossing	Red	2 RR crossings (UP RR 2x), 3 14 3x), 2 CR crossing (CR-56 (Taft Hill) 1 hill crossing and 1
Development Pressure	Green	0 LF of near-term developmer
Operation and Maintenance Access	Red	Difficult access. Alignment paraccess areas and is not near length
O&M Requirements	Green	1 ARV/BO pair. Extreme eleva
Natural Resources Impacts	s Yellow	700 LF in natural or riprarian



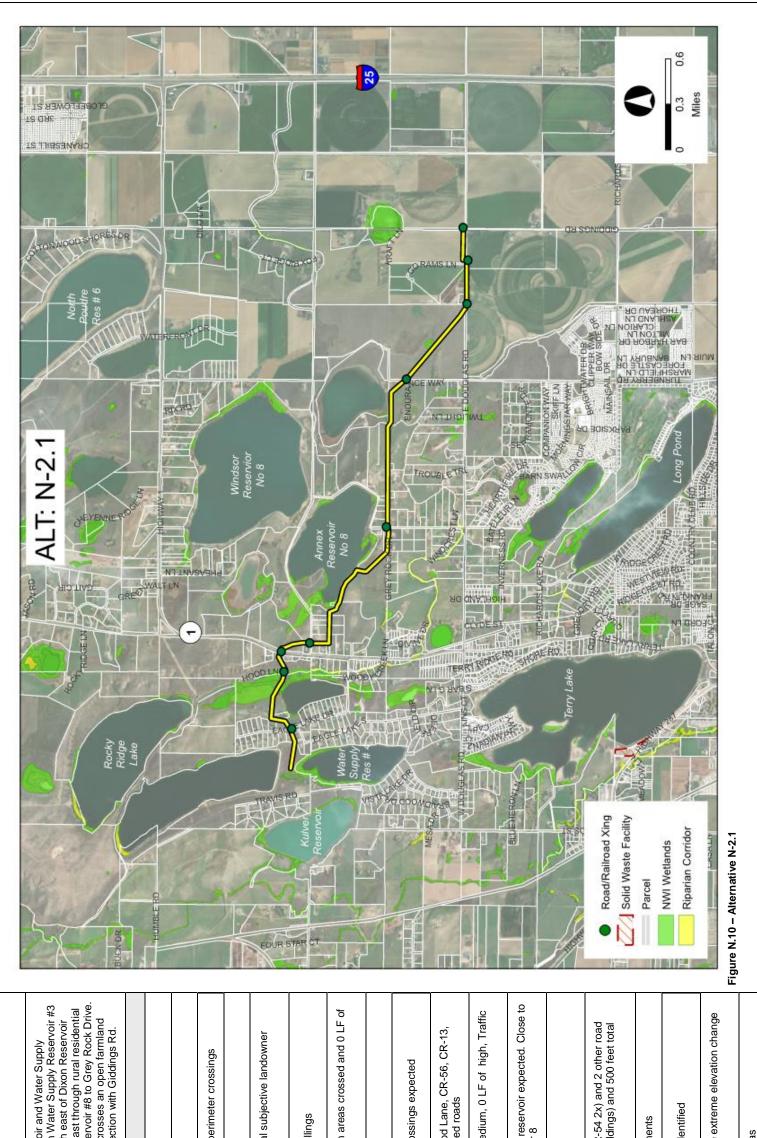
Alternative Name	Proiec	Proiect Area 1 – Alio	Alianment N-1.4
Alternative Location & Description	Alignm Pipelir interse CR 56 south what v paralle paralle	tent N-1.4begi le on the north sction with CR E through the back to Hwy 1 vould be an ex vould be an ex vater Supj	Alignment N-1.4begins at the end of the first segment Pipeline on the north side of Hwy 14 approximately 1 intersection with CR 54E. It runs parallel to Hwy 14 u CR 56E through the steep ridge, south of the concret south back to Hwy 14. It parallels the north side of H what would be an extension of Douglas Road and co paralleling Douglas Road until it ends at the same loc between Water Supply and Storage Reservoir 3 and
Criteria		Ranking	Comments
Capital Cost		Red	\$ 21,416,000
Conduit Length		Green	6.1 miles; 32,200 feet
Easement Difficulty		Green	15 parcels crossed, 2 non-perir
Right-of-Way Impact		Red	21,000 LF of Highway 14 and C disturbance
Land Owner Impact		Green	1 driveway crossed, moderate impacts
Proximity to Occupied Dwellings	B	Red	Within 100 feet from 12 dwellir
Environmental Impacts Floodplain Crossings	ts and	Yellow	900 LF of wetlands/riparian are of floodplain crossed
Existing Utilities		Red	High utility density
Hazardous/Permitted Crossings		Green	No hazardous/permitted crossi
Surface and Street Impacts	npacts	Red	800 LF in gravel roads (CR-56 in paved roads (Douglas Road)
Traffic Impacts		Red	800 LF of low, 800 LF of mediu impact score of 14,400
Water Storage Reservoirs Impacts	voirs	Green	No impacts expected
Construction Duration and Relative Constructability	n and ility	Yellow	275 days of construction
Required Trenchless Crossing		Yellow	1 RR crossing (UP RR), 1 HW CR crossing (CR-56), 2 other ru Shields) and 800 feet total tren
Development Pressure	re	Green	0 LF of near-term development
Operation and Maintenance Access		Yellow	Convenient access. Near road
O&M Requirements		Yellow	2 ARV/BO pairs. Extreme eleve
Natural Resources Impacts	Ipacts	Yellow	700 LF in natural or riprarian a



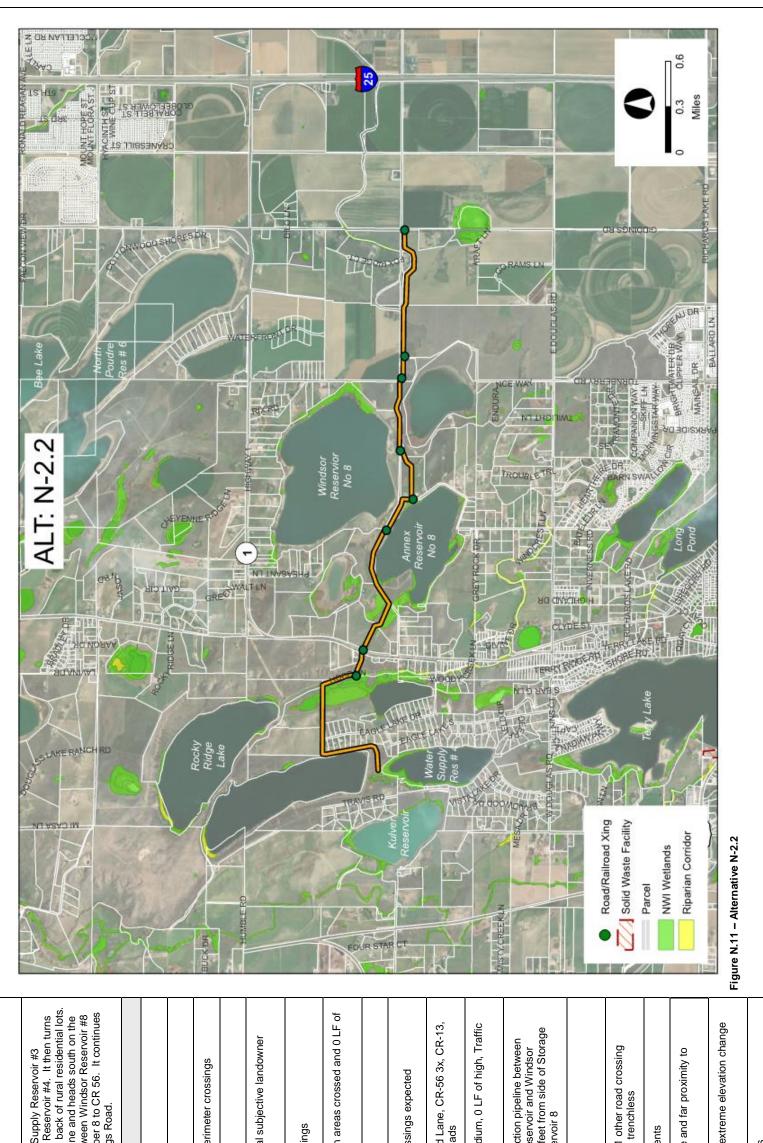
Alternative Name	Projec	Project Area 1 – Aligr	Alignment N-1.5
Alternative Location & Description	Alignment I Pipeline or intersection for a sectio turning to th space north past Taft H north and th north and th reservoirs. Supply and	ent N-1.5 begines on the north ection with CR 5 ection. It turns to the east thr north of Curtis aft Hill Road. A and then northe oirs. It ends at v and Storage F	Alignment N-1.5 begins at the end of the first segmen Pipeline on the north side of Hwy 14 approximately intersection with CR 54E. Alignment N-1.5 parallels for a section. It turns to the north and follows the ast turning to the east through the steep ridge. It continu- space north of Curtis Lake and follows along the nort past Taft Hill Road. About a half mile past Taft Hill Ro north and then northeast to skirt the edges of the pro reservoirs. It ends at the same location as Alignmen Supply and Storage Reservoir 3 and Reservoir 4.
Criteria		Ranking	Comments
Capital Cost		Red	\$ 20,636,200
Conduit Length		Red	7.1 miles; 37,400 feet
Easement Difficulty		Red	30 parcels crossed, 6 non-per exist, but follow two track road
Right-of-Way Impact		Yellow	7,000 LF of Highway 14 ROW
Land Owner Impact		Green	2 driveways crossed, minimal impacts
Proximity to Occupied Dwellings		Green	Within 100 feet from 3 dwellir
Environmental Impacts and Floodplain Crossings	s and	Yellow	1,300 LF of wetlands/riparian LF of floodplain crossed
Existing Utilities		Yellow	Medium utility density
Hazardous/Permitted Crossings		Green	No hazardous/permitted cross
Surface and Street Impacts	pacts	Green	0 LF in gravel roads and 0 LF
Traffic Impacts		Green	300 LF of low, 0 LF of mediun impact score of 300
Water Storage Reservoirs Impacts	oirs	Green	No impacts expected
Construction Duration and Relative Constructability	and ity	Green	203 days of construction
Required Trenchless Crossing		Green	1 HW crossing (Highway 14), (Taft Hill) and 300 feet total tr
Development Pressure	0	Green	0 LF of near-term developmer
Operation and Maintenance Access		Red	Alignment passes through hai not near roadways for much o
O&M Requirements		Red	5 ARV/BO pairs. Large elevat
Natural Resources Impacts	pacts	Yellow	700 LF in natural or riprarian



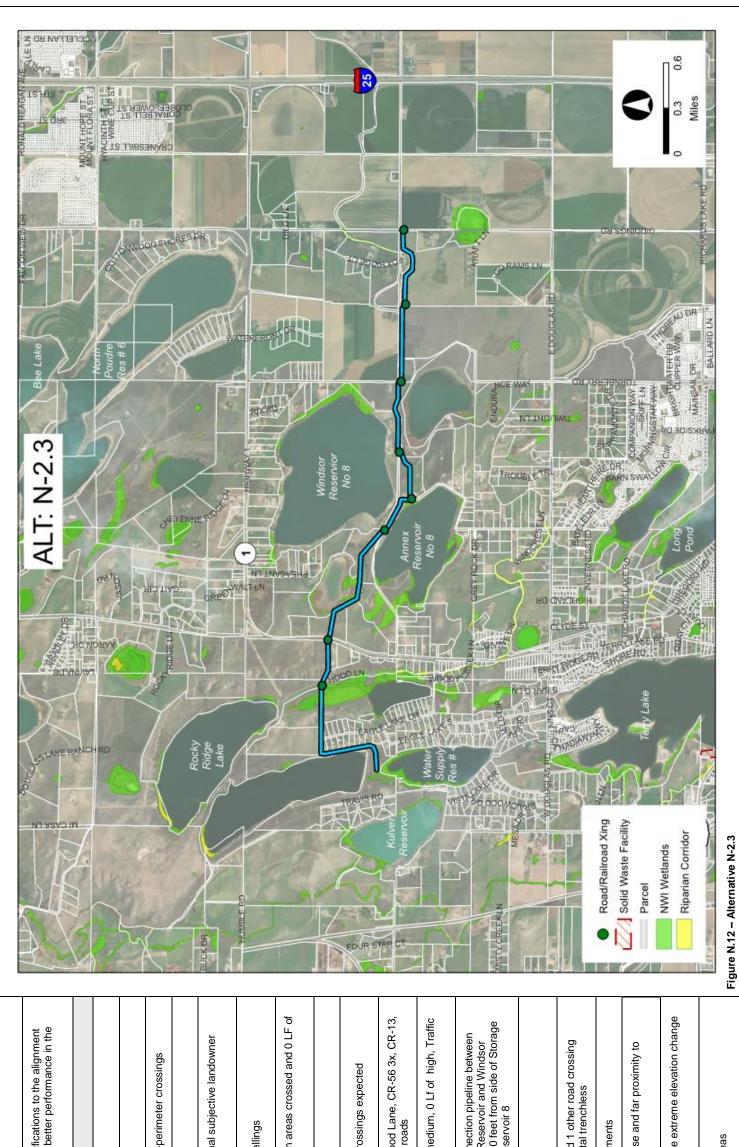
Alternative Name	Droion	Proiect Area 1 – Alion	Alicoment N-1 6
Alternative Location & Description	Alignment N Pipeline on t intersection Willow Nook Canal to CR through the Lake and fol a half mile p skirt the edg same locatic same locatic Reservoir 3	Alignment N-1.6 begins at th Pipeline on the north side of intersection with CR 54E. Al Willow Nook Road then cont Canal to CR 23E. It follows through the steep ridge. It co Lake and follows along the n a half mile past Tatt Hill Roa skirt the edges of the proper same location as Alignment Reservoir 3 and Reservoir 4.	Alignment N-1.6 begins at the end of the first segmer Pipeline on the north side of Hwy 14 approximately 1, intersection with CR 54E. Alignment N-1.6 begins fol Willow Nook Road then continues to the northeast pa Canal to CR 23E. It follows the east side of CR 23 E through the steep ridge. It continues east through op Lake and follows along the north side of Humble Roa a half mile past Taft Hill Road, the alignment veers no skirt the edges of the property lines surrounding the r same location as Alignment N-1.3, between Water St Reservoir 3 and Reservoir 4.
Criteria		Ranking	Comments
Capital Cost		Red	\$ 20,436,900
Conduit Length		Red	7.0 miles; 36,800 feet
Easement Difficulty		Red	30 parcels crossed, 4 non-per
Right-of-Way Impact		Green	0 LF in parallel ROW
Land Owner Impact		Green	1 driveway crossed, minimal s impacts
Proximity to Occupied Dwellings	_	Yellow	Within 100 feet from 5 dwellin
Environmental Impacts Floodplain Crossings	is and	Green	500 LF of wetlands/riparian al of floodplain crossed
Existing Utilities		Green	Low utility density
Hazardous/Permitted Crossings		Green	No hazardous/permitted cross
Surface and Street Impacts	Ipacts	Yellow	300 LF in gravel roads (CR-23 and 0 LF in paved roads
Traffic Impacts		Green	300 LF of low, 300 LF of medi impact score of 900
Water Storage Reservoirs Impacts	voirs	Green	No impacts expected
Construction Duration ar Relative Constructability	lity	Green	200 days of construction
Required Trenchless Crossing		Green	1 HW crossing (Highway 14), (Taft Hill) and 300 feet total tre
Development Pressure	e	Green	0 LF of near-term developmen
Operation and Maintenance Access		Red	Difficult access. Alignment pas access areas and is not near r length
O&M Requirements		Red	5 ARV/BO pairs. Extreme elev
Natural Resources Impacts	pacts	Green	100 LF through natural areas



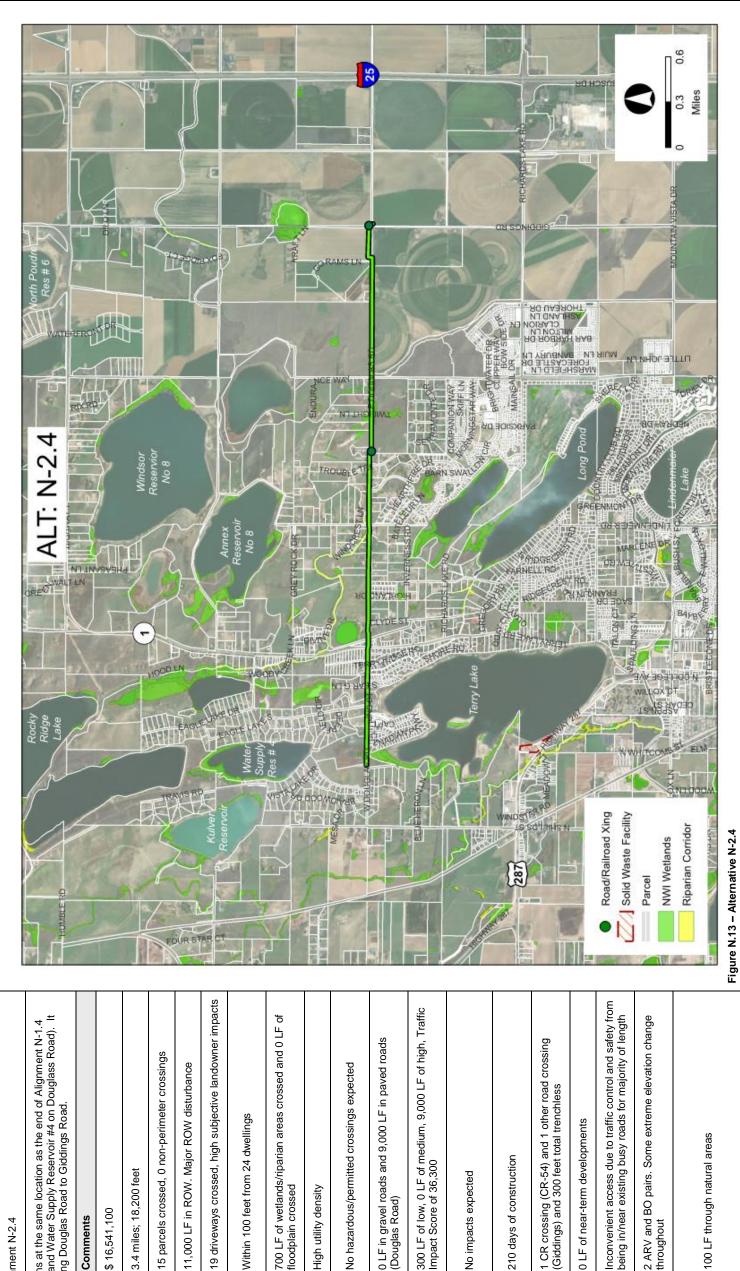
Alternative Name	Projec	Project Area 2 – Align	Alignment N-2.1
Alternative Location & Description	Alignn Reser and #4 before and aç diagor diagor	Alignment N-2.1 begin Reservoir #4 and ther and #4 and north of D before heading east a before heading east and paral tt turns east and paral diagonally, and then f	Alignment N-2.1 begins in-between Kulver Reservoir Reservoir #4 and then heads northeast in-between W and #4 and north of Dixon Reservoir. It turns south e before heading east at CR 56. It continues southeast and agricultural properties, adjacent to Annex Reserv It turns east and parallels Grey Rock Drive until it cros diagonally, and then follows CR 54 until the intersecti
Criteria		Ranking	Comments
Capital Cost		Green	\$ 13,533,000
Conduit Length		Green	4.4 miles; 23,000 feet
Easement Difficulty		Red	26 parcels crossed, 9 non-peri
Right-of-Way Impact		Green	0 LF in parallel ROW
Land Owner Impact		Green	1 driveway crossed, minimal si impacts
Proximity to Occupied Dwellings	75	Green	Within 100 feet from 6 dwellin
Environmental Impacts Floodplain Crossings	ts and	Yellow	500 LF of wetlands/riparian ar floodplain crossed
Existing Utilities		Yellow	Medium utility density
Hazardous/Permitted Crossings		Green	No hazardous/permitted crossi
Surface and Street Impacts	Ipacts	Green	400 LF in gravel roads (Hood I Turnberry) and 0 LF in paved
Traffic Impacts		Green	500 LF of low, 400 LF of medi Impact Score of 1300
Water Storage Reservoirs Impacts	voirs	Green	No impact to water storage res the side of Annex Reservoir 8
Construction Duration ar Relative Constructability	n and llity	Green	160 days of construction
Required Trenchless Crossing		Yellow	3 CR crossings (CR-15, CR-5/ crossings (Eagle Lake, Giddin trenchless
Development Pressure	e	Green	0 LF of near-term developmen
Operation and Maintenance Access		Green	Best access of alternates ident
O&M Requirements		Yellow	7 ARV and BO pairs. Some ex throughout.
Natural Resources Impacts	Ipacts	Green	100 LF through natural areas



Alternative Name	Projec	Project Area 2 – Alig	Alignment N-2.2
Alternative Location & Description	Alignm embar north a lt turns west s dam a east d	Alignment N-2.2 beg embankment and thi north along the east It turns east beyond west side of Hood Li dam and the north si east down CR 56 un	Alignment N-2.2 begins between the toe of Water Sup embankment and the north shore of Water Supply Re north along the east shore of Reservoir #3 and the ba It turns east beyond the residential lots to Hood Lane west side of Hood Lane. It turns to the east in betwee dam and the north shore of Annex Reservoir Number east down CR 56 until the intersection with Giddings
Criteria		Ranking	Comments
Capital Cost		Green	\$ 13,321,000
Conduit Length		Green	4.4 miles; 23,000 feet
Easement Difficulty		Yellow	18 parcels crossed, 5 non-perin
Right-of-Way Impact		Green	0 LF in parallel ROW
Land Owner Impact		Green	0 driveways crossed, minimal s impacts
Proximity to Occupied Dwellings	73	Green	Within 100 feet from 2 dwelling
Environmental Impacts Floodplain Crossings	ts and	Red	1,200 LF of wetlands/riparian al floodplain crossed
Existing Utilities		Yellow	Medium utility density
Hazardous/Permitted Crossings		Green	No hazardous/permitted crossir
Surface and Street Impacts	npacts	Green	600 LF in gravel roads (Hood L CR-11, and 0 LF in paved road
Traffic Impacts		Green	300 LF of low, 600 LF of mediu Impact Score of 1500
Water Storage Reservoirs Impacts	voirs	Red	Will be in conflict with connectic Annex Reservoir 8, Elder Resel Reservoir 8. Less than 100 fee Reservoir 3 and Annex Reservo
Construction Duration and Relative Constructability	ו and llity	Green	140 days of construction
Required Trenchless Crossing		Green	1 CR crossing (CR-15) and 1 of (Giddings) and 300 feet total tre
Development Pressure	e	Green	0 LF of near-term development:
Operation and Maintenance Access		Yellow	Moderate access, both close ar roadways
O&M Requirements		Yellow	6 ARV and BO pairs. Some ext throughout
Natural Resources Impacts	pacts	Green	100 LF through natural areas



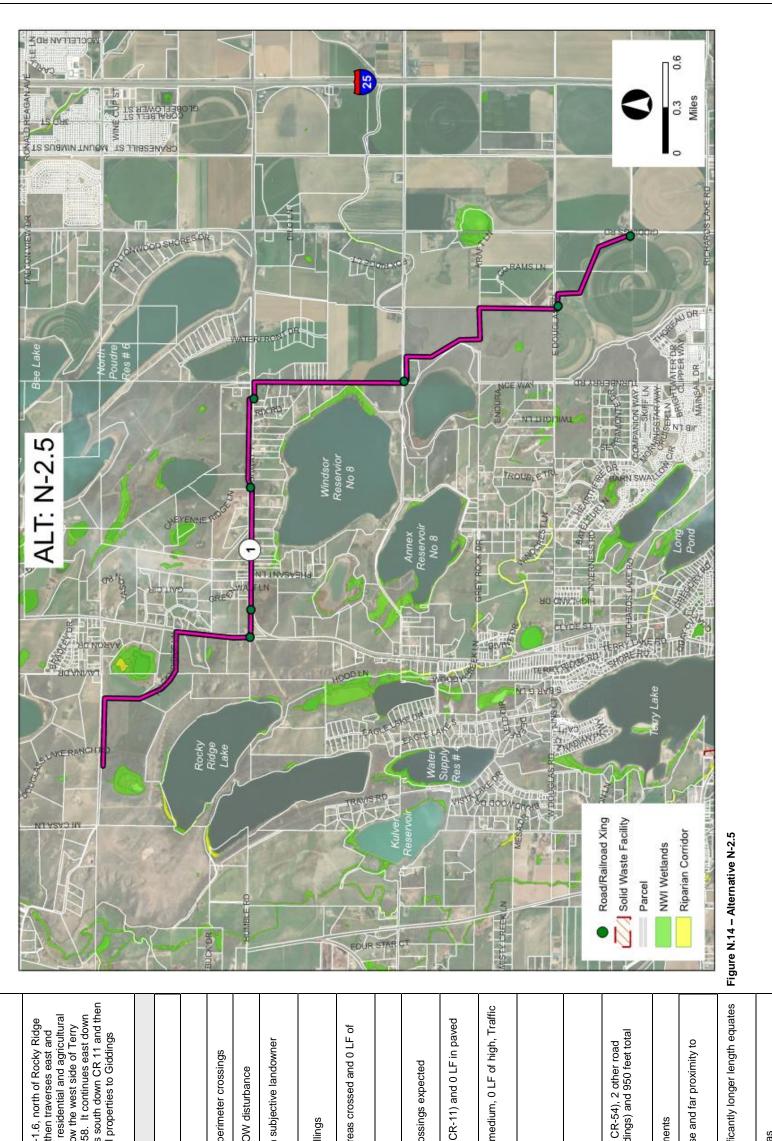
Alternative Name	Droior	Droioct Area 2 – Alian	Alianment N. 2.3
Alternative Location & Description	Alignm from H evalua	Alignment N-2.3 is verticed to W	Alignment N-2.3 is very similar to N-2.2 with modifics from Hood Lane to Windsor Reservoir to achieve bet evaluation criteria.
Criteria		Ranking	Comments
Capital Cost		Green	\$ 13,327,700
Conduit Length		Green	4.3 miles; 22,900 feet
Easement Difficulty		Yellow	18 parcels crossed, 4 non-pe
Right-of-Way Impact		Green	0 LF in parallel ROW
Land Owner Impact		Green	1 driveway crossed, minimal impacts
Proximity to Occupied Dwellings	T	Green	Within 100 feet from 2 dwellin
Environmental Impacts Floodplain Crossings	ts and	Yellow	700 LF of wetlands/riparian a floodplain crossed
Existing Utilities		Yellow	Medium utility density
Hazardous/Permitted Crossings		Green	No hazardous/permitted cross
Surface and Street Impacts	npacts	Green	600 LF in gravel roads (Hood CR-11) and 0 LF in paved roa
Traffic Impacts		Green	300 LF of low, 600 LF of med Impact Score of 1500
Water Storage Reservoirs Impacts	voirs	Red	Will be in conflict with connec Annex Reservoir 8, Elder Res Reservoir 8. Less than 100 f Reservoir 3 and Annex Reser
Construction Duration and Relative Constructability	and ו ility	Green	140 days of construction
Required Trenchless Crossing		Green	1 CR crossing (CR-15) and 1 (Giddings) and 300 feet total
Development Pressure	e	Green	0 LF of near-term developme
Operation and Maintenance Access		Yellow	Moderate access, both close roadways
O&M Requirements		Yellow	6 ARV and BO pairs. Some e throughout
Natural Resources Impacts	Ipacts	Green	100 LF through natural areas



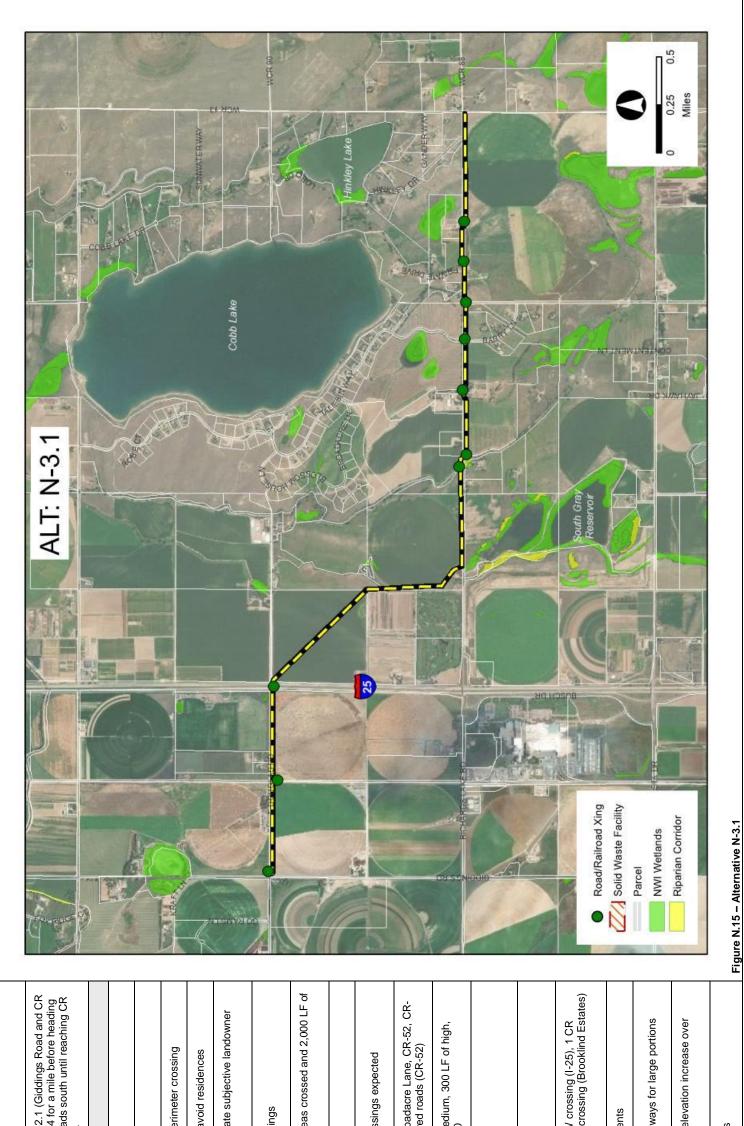
Alternative Name	Projec	Project Area 2 – Aliç	Alignment N-2.4
Alternative Location & Description	Alignn (betwe contin	nent N-2.4 bec ∋en Terry Lak∈ ues east follov	Alignment N-2.4 begins at the same location as the e (between Terry Lake and Water Supply Reservoir #4 continues east following Douglas Road to Giddings F
Criteria		Ranking	Comments
Capital Cost		Yellow	\$ 16,541,100
Conduit Length		Green	3.4 miles; 18,200 feet
Easement Difficulty		Green	15 parcels crossed, 0 non-peri
Right-of-Way Impact		Red	11,000 LF in ROW. Major ROV
Land Owner Impact		Red	19 driveways crossed, high sul
Proximity to Occupied Dwellings	ъ	Red	Within 100 feet from 24 dwellin
Environmental Impacts Floodplain Crossings	ts and	Yellow	700 LF of wetlands/riparian are floodplain crossed
Existing Utilities		Red	High utility density
Hazardous/Permitted Crossings		Green	No hazardous/permitted crossi
Surface and Street Impacts	npacts	Red	0 LF in gravel roads and 9,000 (Douglas Road)
Traffic Impacts		Red	300 LF of low, 0 LF of medium Impact Score of 36,300
Water Storage Reservoirs Impacts	voirs	Green	No impacts expected
Construction Duration and Relative Constructability	n and ility	Green	210 days of construction
Required Trenchless Crossing		Green	1 CR crossing (CR-54) and 1 c (Giddings) and 300 feet total tr
Development Pressure	re	Green	0 LF of near-term development
Operation and Maintenance Access		Red	Inconvenient access due to tra being in/near existing busy roa
O&M Requirements		Green	2 ARV and BO pairs. Some exitinoughout
		-	

Green

Natural Resources Impacts



Alternative Name	Projec	Project Area 2 – Aligr	Alignment N-2.5
Atternative Location & Description	Alignm Lake F southe proper Lake F Lake F CR 58 southe Road.	Alignment N-2.5 begins at the Lake Reservoir 1 along Weld C southeast around Rocky Ridge properties to Terry Lake Road. Lake Road to the south before CR 58 and then turns south at southeast through agricultural Road.	Alignment N-2.5 begins at the end of Alignment N-1. Lake Reservoir 1 along Weld County Road 60. It the southeast around Rocky Ridge Lake through rural re properties to Terry Lake Road. It continues to follow Lake Road to the south before turning east at CR 58 CR 58 and then turns south at CR 11. It continues s southeast through agricultural and rural residential pr Road.
Criteria		Ranking	Comments
Capital Cost		Red	\$ 23,705,000
Conduit Length		Red	6.5 miles; 34,500 feet
Easement Difficulty		Yellow	20 parcels crossed, 3 non-per
Right-of-Way Impact		Yellow	6,500 LF in ROW. Major ROW
Land Owner Impact		Red	13 driveways crossed, high su impacts
Proximity to Occupied Dwellings	T	Yellow	Within 100 feet from 8 dwellin
Environmental Impacts Floodplain Crossings	ts and	Green	0 LF of wetlands/riparian area floodplain crossed
Existing Utilities		Red	High utility density
Hazardous/Permitted Crossings		Green	No hazardous/permitted cross
Surface and Street Impacts	npacts	Yellow	5,000 LF in gravel roads (CF roads
Traffic Impacts		Yellow	950 LF of low, 5,000 LF of me Impact Score of 10,950
Water Storage Reservoirs Impacts	voirs	Green	No impacts expected
Construction Duration and Relative Constructability	n and ility	Red	284 days of construction
Required Trenchless Crossing		Red	4 CR crossings (CR-58 3x, Cl crossings (Terry Lake, Giddin trenchless
Development Pressure	re	Green	0 LF of near-term developmer
Operation and Maintenance Access		Yellow	Moderate access, both close a roadways
O&M Requirements		Green	2 ARV and BO pairs. Significe to more maintenance
Natural Resources Impacts	Ipacts	Green	100 LF through natural areas



Alternative Name	Projec	Proiect Area 3 – Alio	Alianment N-3.1
Alternative Location & Description	Alignm 54 inte southe 52, wh	nent N-3.1 beg ersection) and east through a nich it follows u	Alignment N-3.1 begins at the end of Alignment N-2. 54 intersection) and continues east following CR 54 southeast through agricultural property. It then head 52, which it follows until the intersection with CR 1.
Criteria		Ranking	Comments
Capital Cost		Green	\$ 15,406,000
Conduit Length		Green	4.6 miles; 24,500 feet
Easement Difficulty		Green	11 parcels crossed, 1 non-peri
Right-of-Way Impact		Yellow	1,500 LF in CR-52 ROW to av
Land Owner Impact		Green	3 driveways crossed, moderati impacts
Proximity to Occupied Dwellings	_	Yellow	Within 100 feet from 7 dwellin
Environmental Impacts Floodplain Crossings	is and	Yellow	0 LF of wetlands/riparian area floodplain crossed
Existing Utilities		Yellow	Medium utility density
Hazardous/Permitted Crossings		Green	No hazardous/permitted crossi
Surface and Street Impacts	Ipacts	Red	1,200 LF in gravel roads (Broa 54, CR-3) and 300 LF in pavec
Traffic Impacts		Red	800 LF of low,1,200 LF of med Traffic Impact Score of 4,400
Water Storage Reservoirs Impacts	voirs	Green	No impacts expected
Construction Duration and Relative Constructability	i and lity	Green	210 days of construction
Required Trenchless Crossing		Green	1 RR crossing (BNSF), 1 HW (crossings (CR-52), 1 other cr and 800 feet total trenchless
Development Pressure	e	Green	0 LF of near-term developmen
Operation and Maintenance Access		Yellow	Moderate access, Near roadw
O&M Requirements		Yellow	4 ARV and BO pairs. Large elt alignment
Natural Resources Impacts	pacts	Green	100 LF through natural areas



Alternative Name	Projec	Project Area 3 – Alignr	Alianment N-3.2
Alternative Location & Description	Alignm 56 inte headir It then curren it inter	nent N-3.2 begin ersection) and cc ng south and the heads south an tily expanding de sects with CR 1.	Alignment N-3.2 begins at the End of Alignment N-2 56 intersection) and continues east following CR 56 f heading south and then east through agricultural proj It then heads south and then southeast through rural currently expanding development to CR 52. It turns of it intersects with CR 1.
Criteria		Ranking	Comments
Capital Cost		Red	\$ 18,075,000
Conduit Length		Yellow	5.4 miles; 29,000 feet
Easement Difficulty		Yellow	15 parcels crossed, 2 non pe development
Right-of-Way Impact		Yellow	1,500 LF in CR-52 ROW to a
Land Owner Impact		Green	3 driveways crossed, modera impacts
Proximity to Occupied Dwellings	J	Green	Within 100 feet from 4 dwelli
Environmental Impacts Floodplain Crossings	ts and	Green	0 LF of wetlands/riparian are floodplain crossed
Existing Utilities		Yellow	Medium utility density
Hazardous/Permitted Crossings		Green	No hazardous/permitted cros
Surface and Street Impacts	Ipacts	Yellow	1,200 LF in gravel roads (CR paved roads
Traffic Impacts		Yellow	800 LF of low,1,200 LF of me Traffic Impact Score of 3,200
Water Storage Reservoirs Impacts	voirs	Green	No impacts expected
Construction Duration and Relative Constructability	ו and lity	Red	237 days of construction
Required Trenchless Crossing		Green	1 RR crossing (BNSF), 1 HW crossings (CR 54), 1 other cr 800 feet total trenchless
Development Pressure	e	Red	7000 LF near-term developm
Operation and Maintenance Access		Red	Difficult access.Not near maj portions
O&M Requirements		Yellow	4 ARV and BO pairs. Signific equates to more maintenanc increase over alignment
Natural Resources Impacts	Ipacts	Green	100 LF through natural areas



Alternative Name	Projec	Project Area 3 – Alignment N-3.3	ment N-3.3
Alternative Location & Description	Alignm Road Cobb proper CR 1.	nent N-3.3 begii and CR 54 inter Lake. It turns s tites to CR 52.	Alignment N-3.3 begins at the same location as Align Road and CR 54 intersection). It then heads east foll Cobb Lake. It turns south at Blossom House Lane th properties to CR 52. It then heads east following CR CR 1.
Criteria		Ranking	Comments
Capital Cost		Red	\$ 16,339,000
Conduit Length		Green	4.8 miles; 25,500 feet
Easement Difficulty		Green	12 parcels crossed, 0 non-peri
Right-of-Way Impact		Yellow	1,500 LF in CR-52 ROW to av
Land Owner Impact		Green	3 driveways crossed,moderate impacts
Proximity to Occupied Dwellings	P	Yellow	Within 100 feet from 7 dwellin
Environmental Impacts and Floodplain Crossings	ts and	Yellow	0 LF of wetlands/riparian area of floodplain crossed
Existing Utilities		Yellow	Medium utility density
Hazardous/Permitted Crossings		Green	No hazardous/permitted cross
Surface and Street Impacts	npacts	Red	1,200 LF in gravel roads (CR5 52, CR-3) and 300 LF in paved
Traffic Impacts		Red	1,000 LF of low,1,200 LF of m Traffic Impact Score of 4600
Water Storage Reservoirs Impacts	voirs	Green	No impacts expected
Construction Duration and Relative Constructability	n and ility	Red	239 days of construction
Required Trenchless Crossing		Red	1 RR crossing (BNSF), 1 HW (crossings (CR-54, CR-52), 1 o Estates) and 1,000 feet total tr
Development Pressure	re	Green	0 LF of near-term developmen
Operation and Maintenance Access		Yellow	Moderate access both close a roadways
O&M Requirements		Yellow	4 ARV and BO pairs. Large ele alignment
Natural Resources Impacts	Ipacts	Green	100 LF through natural areas



Alternative Name	Projec	Project Area 3 – Aliar	Alianment N-3.4
Alternative Location & Description	Alignn 54 inte Lake. agricu colora interse	nent N-3.4 begii ersection and co A half mile eas flurral properties do property to ection as the pre	Alignment N-3.4 begins at the Giddings Road a half of 54 intersection and continues east through agricultur. Lake. A half mile east of 1-25 it heads south and ther agricultural properties to CR 50. It turns east at CR 5 Colorado property to CR1. From there, it heads north intersection as the previous alignments, the intersect
Criteria		Ranking	Comments
Capital Cost		Red	\$ 18,176,000
Conduit Length		Red	5.9 miles; 31,100 feet
Easement Difficulty		Green	11 parcels crossed, 1 non-per
Right-of-Way Impact		Green	0 LF in parallel ROW
Land Owner Impact		Green	3 driveways crossed,moderate impacts
Proximity to Occupied Dwellings	7	Green	Within 100 feet from 3 dwellin
Environmental Impacts Floodplain Crossings	ts and	Red	300 LF of wetlands/riparian a LF of floodplain crossed
Existing Utilities		Yellow	Medium utility density
Hazardous/Permitted Crossings		Green	No hazardous/permitted cross
Surface and Street Impacts	pacts	Green	100 LF in gravel roads (CR 3)
Traffic Impacts		Green	800 LF of low,100 LF of mediu Impact Score of 1,000
Water Storage Reservoirs Impacts	voirs	Green	No impacts expected
Construction Duration and Relative Constructability	ו and lity	Yellow	235 days of construction
Required Trenchless Crossing		Green	1 RR crossing (BNSF), 1 HW crossings (CR-52) and 800 fe
Development Pressure	e	Green	0 LF of near-term developmer
Operation and Maintenance Access		Red	Difficult access. Not near majo
O&M Requirements		Yellow	4 ARV and BO pairs. Significa to more maintenance. Large e alignment
Natural Resources Impacts	pacts	Green	100 LF through natural areas

Table N.1 below provides a visual summary of the evaluation results and criteria ranking given to each alternative. Table N.2 tabulates the number of greens, yellows, and reds given to each alternative.

. ù . of Alte 2 Table N 1 – Vie

Table N.1 – Visual Summary of Alternative Scoring	Alternative	Scoring													
Evaluation Criteria	N-1.1	N-1.2	N-1.3	N-1.4	N-1.5	N-1.6	N-2.1	N-2.2	N-2.3	N-2.4	N-2.5	N-3.1	N-3.2	N-3.3	N-3.4
Capital Cost															
Conduit Length															
Easement Difficulty/Cost															
Use of Right-of-Way															
Land Owner Impact															
Proximity to Occupied Dwelling															
Environmental Impacts and Floodplain Crossings															
Existing Utilities															
Hazardous/Permitted Crossings															
Surface and Street Impacts															
Traffic Impacts															
Impacts to Water Storage Reservoirs															
Construction Duration and Relative Constructability															
Required Trenchless Crossings															
Development Pressure															
Operation and Maintenance (O&M) Access															
O&M Requirements															
Natural Area Impacts															

Table N.2 – Numeric Summary of Alternative Scoring	mmary of ∌	Alternative	Scoring												
Evaluation Criteria	N-1.1	N-1.2	N-1.3	N-1.4	N-1.5	N-1.6	N-2.1	N-2.2	N-2.3	N-2.4	N-2.5	N-3.1	N-3.2	N-3.3	N-3.4
Red	0	с	5	9	5	5	+	2	۲	7	9	2	4	5	4
Yellow	10	11	9	9	4	2	4	4	5	2	9	9	7	9	ю
Green	ω	4	7	9	ი	11	13	12	12	6	9	10	7	7	11
PREFERED ALIGNMENT As stated previously, the alternate with the best overall performance (least reds, most greens) is to be the preferred alternate. In the case of a tie, alternates were to have been reviewed and the preferred alignment selected based upon prioritization of factors, mainly conduit length, constructability and land-owner/environmental impacts. In the case of the Northern Tier evaluations tie breakers were not needed. The preferred alignment consists of a combination of Alternate N-0.1, N-1.1, N-2.1 and N-3.1 plus the Glade Release/Poudre Release Pipeline. The preferred alignment is depicted in Figure N.19 and generally described as follows: The preferred alignment for the Glade Release Pipeline begins at the south end of the first segment of the Northern Tier pipeline (approximately 250 feet west of the intersection of Highway 14 for about a mile, before crossing to the south side of the highway. It continues to traverse westerly along the south side of Highway 14 for about a mile, before crossing to the south side of the highway. It continues to traverse westerly along the south side of Highway 14 for about a mile, before crossing to the south side of the highway. It continues to traverse westerly along the south side of Highway 14 for about a mile, before crossing to the south side of the highway. It continues to traverse westerly along the south side of Highway 14 for about to for fine intersection of Highway 14 and Highway 14 for about to coo feet until turning southwest and terminating at the Poudre River.	ALIGI alternate rreferred a re Release of Highwa ss to trave	NMEN with the l lignment i ations tie ations tie Pipeline. y 14 and F rse wester rse wester	T best overal selected bs breakers v The prefe fighway 26 rly along th begins at th	l perform: ased upon were not r erred aligi erred aligi s7). It goe ie south si ae propose	ance (least reds, most greens) is to be the preferred alternate. In the case of a tie, alternates were to r prioritization of factors, mainly conduit length, constructability and land-owner/environmental im- needed. The preferred alignment consists of a combination of Alternate N-0.1, N-1.1, N-2.1 and N-3.1 mment is depicted in Figure N.19 and generally described as follows: Pipeline begins at the south end of the first segment of the Northern Tier pipeline (approximately 25 segmerally west, following the north side of Highway 14 for about a mile, before crossing to the sout ide of Highway 14 for about 1,000 feet until turning southwest and terminating at the Poudre River. ed Glade Reservoir Dam Outlet Works, about 6,500 feet north of the intersection of Highway 14 and	t reds, mos tion of fact he preferrs epicted in gins at th y west, foll nway 14 fo teservoir I	st greens) tors, mair ed alignm- Figure 1 e south er e south er lowing thé r about 1,(is to be th uly conduit ent consist uly and g ul of the fi on or the fi to feet u	e preferre L'length, cc Is of a con ;enerally d rst segme rst segme ntil turnin nbout 6,50	d alternat onstructak abination lescribed i mt of the N way 14 for ug southwe	e. In the c bility and l of Alternal is follows: forthern T about a m sst and ter	ase of a ti and-own te N-0.1, l ter pipelii ile, before minating ntersectio	e, alternat rr/environ N-1.1, N-2. ne (approx at the Pou at the Pou	es were to mental im 1 and N-3. imately 25 to the sout dre River. vav 14 and	have pacts. In 1 plus 50 feet h side of
Highway 287. From the dam, it traverses generally south until encountering Highway 287, then follows the Highway 287 right-of-way across the Poudre Valley Canal and across Highway 14. It then follows the south side west property lines of two parcels before converging with the south ROW of Highway 14.	dam, it tra hen follow	averses ge 's the sout	nerally sou	uth until e t property	ncounterin r lines of tv	ng Highwa vo parcels	ty 287, the before co	en follows nverging v	the Highv vith the sc	vay 287 ri _i outh ROW	ght-of-way of Highwa	/ across th ay 14.	ie Poudre	Valley Can	aland
From the end of the first segment in the Northern Tier Pipeline (N-0.1), the Northern Tier Pipeline follows the south ROW of Highway 14 for about 1,000 feet before crossing to the north side of the highway. The alignment then parallels the north side of Hwy 14 until diverging from the highway to turn to the southeast over a ridge and pass through the concrete plant. The alignment then follows the proposed ROW of the Hwy 287 relocation. It continues east, crossing Weld County Road 56, until reaching the back of Homes of Distinction development where it turns briefly to the north and then back to the east to parallel County Road 56. The alignment then parallels County Road 56 for approximately 1,500 feet before turning north to cross the road and the railroad spur, the line traverses northeasterly towards the feed lot at North Taft Hill Road. After crossing North Taft Hill Road, the lines traverses easterly to the west shore of Water Supply and Storage Reservoir 3 to intersect with Travis Road. At Travis Road, the line turns south for approximately 1,700 feet before turning east to pass between of Water Supply and Storage Reservoir 3 to intersect with Travis Road. At Travis Road, the line turns south for approximately 1,700 feet before turning east to pass between of Water Supply and Storage Reservoir 3 to intersect with Travis Road. At Travis Road, the line turns south for approximately 1,700 feet before turning east to pass between of Water Supply and Storage Reservoirs #3 and #4.	t segment le of the hi te plant. 1 stinction c ely 1,500 f orth Taft H th for appi	in the Noi ighway. T The alignn developme eet before fill Road, t roximately	thern Tier he alignme nent then f ant where i turning n the lines tr y 1,700 feel	- Pipeline ent then p follows the it turns br orth to crv averses ea t before tu	(N-o.1), th arallels th arallels th proposec iefly to the iefly to th usterly to th urning east	e Norther e north sid l ROW of 1 2 north and id and the he west sh	n Tier Piț le of Hwy 2 the Hwy 2 d then bac railroad s ore of Wa etween of	eline follo 14 until di 87 relocat 14 to the ec pur, the lii ter Suphy Water Sup	ws the sou iverging fi ion. It cou ast to para ne travers / and Stor: ?ply and S	uth ROW (com the hi ntinues ea ullel Count es northes age Reserv storage Re	of Highwa ghway to t st, crossin y Road 56 usterly tow voir 3 to in servoirs #	y 14 for al urn to th, g Weld C(. The alig 'ards the f 'ards the f tersect w 3 and #4.	oout 1,000 e southeast ounty Road ment the feed lot at ith Travis	feet befor : over a rid 1 56, until n parallels North Taff Road. At ^c	e ige and reaching s County Hill Iravis
After passing between the two Water Supply Reservoirs, the Northern Tier line then heads northeast in-between Water Supply Reservoir #3 and #4 and north of Dixon Reservoir. It then turns south east of Dixon Reservoir before heading east at CR 56. It continues southeast through rural residential and agricultural properties, adjacent to Annex Reservoir #8 to Grey Rock Drive. It turns east and parallels Grey Rock Drive until it crosses an open farmland diagonally, and then follows CR 54 until the intersection with Giddings Rd.	ne two Wa south eas Jrey Rock Igs Rd.	ter Supply t of Dixon Drive. It I	y Reservoir A Reservoir turns east a	rs, the Noi before he and parall	rthern Tie ading east lels Grey R	r line then t at CR 56. tock Drive	heads no It contin until it cr	rtheast in- ues south osses an o	-between ¹ east throu, pen farml	Water Sup gh rural r(land diago	ply Reserves sidential nally, and	/oir #3 an and agricı then foll¢	d #4 and 1 1ltural pro 1ws CR 54	north of Di perties, ad until the	xon jacent to

At the intersection of Giddings Road and County Road the line continues east following CR 54 for a mile before heading southeast through agricultural property. It then heads south until reaching CR 52, which it follows until the intersection with County Road 1 where it connects to the County Line Road Pipeline

Some of the benefits of this alignment combination include:

- Limited traffic impacts
- Comparatively low construction duration
- Comparatively low landowner impacts
- Lower capital cost

Table N.3 below summarizes the estimated features of the overall preferred alignment, broken down by Project Area segments.

Characteristic	N-0.1	Glade Release/Poudre Release	N-1.1	N-2.1	N-3.1	TOTAL
Pipe Diameter (inches)	54	54	54	54	54	54
Pipe Material	Mortar Lined Steel	Mortar Lined Steel	Mortar Lined Steel	Mortar Lined Steel	Mortar Lined Steel	Mortar Lined Steel
Total Distance (miles)	2.1	1.3	5.9	4.4	4.6	18.3
Approximate Pipe Cost	\$6,242,000	\$3,978,000	\$18,544,000	\$13,533,000	\$15,406,000	\$57,703,000
Length Tunnel (feet)	150	150	008	200	800	2400
Estimated Number of Landowners	10	7	18	92	11	72
LF of Wetland Crossings	200	150	1,100	200	0	1,950

Table N.3 – Preferred Alignment Characteristics





Y, HDR

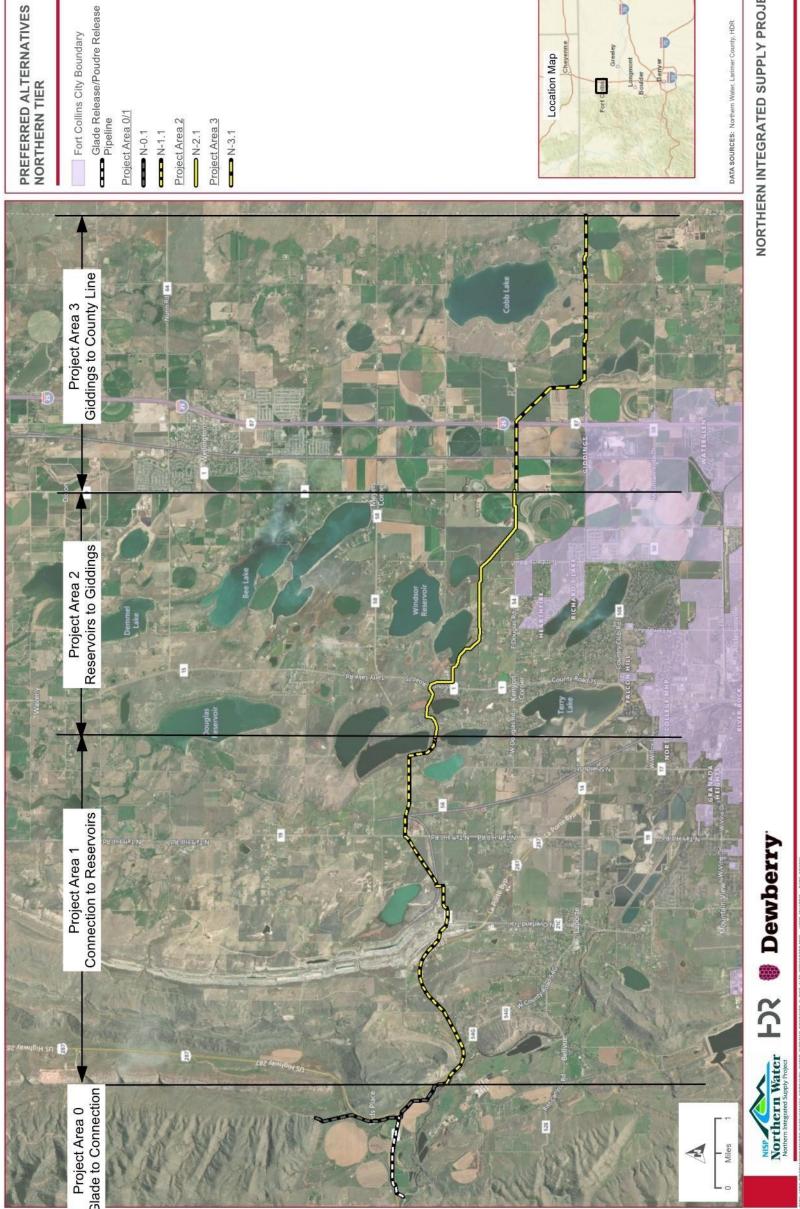


Figure N.19 – Northern Tier Preferred Alignment

Construction Approach for Pipeline Segment between Travis Road and Highway 1

In performing the route analysis the engineering team noted the gated entrances to the Eagle Lake Subdivision. The presence of these restricted entrances spurred the team to develop a preliminary approach to construction access and estimated construction duration so that the impacts to these gated entrances could be better understood. The limits of the preliminary plan are depicted in figure P-7 below.

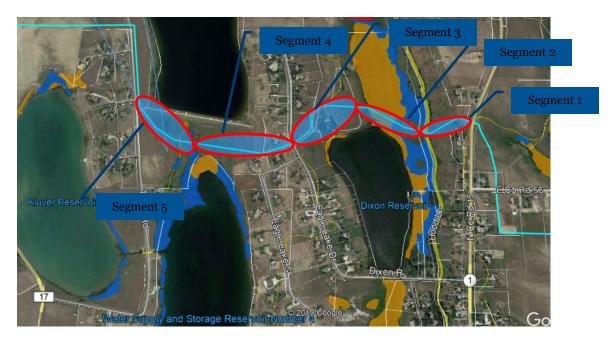


Figure P.9 Construction Access and Duration.

Segment 1 – Highway 1 to Hood Lane. Construction and material delivery vehicles will access the alignment via the alignment as it connects to Highway 1 and Hood Lane. In most cases entering via Highway one and exiting via Hood Lane. This segment is approximately 800 feet in length and is estimated to require approximately 5 to 8 work days for active excavation/pipe installation with activity beginning approximately 1 month prior for clearing, grubbing and site preparation. Following pipe installation, restoration of the disturbed area is anticipated to require approximately another 6 weeks. In total it is anticipated that this area will be impacted for approximately 12 weeks. The pipeline across Highway 1 will be crossed using trenchless methods so traffic on that roadway will not be restricted by construction activity.

Segment 2 – Wetlands North of Dixon Reservoir. Construction and material delivery vehicles will access the alignment via Hood Lane and Eagle Lake Drive. In most cases entering via Hood Lane and Exiting via Eagle Lake Drive. This will require access to the Eagle Lake Subdivision via the gated entrance at Eagle Lake Drive and Highway 1. This segment is approximately 1,100 feet in length and is estimated to require approximately 7 to 11 working days for active excavation/pipe installation with activity beginning approximately 1 month prior to that for clearing, grubbing and site preparation. Following pipe installation, restoration of the disturbed area is anticipated to require approximately another 6 weeks. In total it is anticipated that this area will be impacted for approximately 13 weeks. Because of the presence of wetlands in this segment, construction traffic will not access the alignment via Hood Lane once construction and restoration of this segment is completed. Unless otherwise requested by the County, it is proposed that the contractor not be allowed to use Eagle Lake Court for construction access.

Segment 3 – Private Property East of Eagle Lake Drive (TIPS COREY ALLEN/KAREN KRISTIN). Construction and material delivery vehicles will access the alignment via the Eagle Lake Drive both for construction traffic entering and exiting the site. This will require access to the Eagle Lake Subdivision via the gated entrance at Eagle Lake Drive and Highway 1. It is anticipated that sufficient temporary easement will be obtained from TIPS COREY ALLEN/KAREN KRISTIN to allow construction vehicles to turn around at the eastern end of this segment and exit the same way they came in. This segment is approximately 1,400 feet in length and is estimated to require approximately 9 to 14 working days for active excavation/pipe installation with activity beginning approximately six weeks prior for clearing, grubbing and site preparation. Following pipe installation, restoration of the disturbed area is anticipated to require approximately another 8 weeks. In total it is anticipated that this area will be impacted for approximately 17 weeks. Unless otherwise requested by the County, it is proposed that the contractor not be allowed to use Eagle Lake Court for construction access. The pipeline across Eagle Lake Drive will be crossed using trenchless methods so residential traffic using Eagle Lake Drive will not be restricted.

Segment 4 – Private Property west of Eagle Lake Drive to drainage between Water Supply and Storage Reservoirs 3 and 4. Construction and material delivery vehicles will access the alignment via the Eagle Lake Drive both for construction traffic entering and exiting the site. This will require access to the Eagle Lake Subdivision via the gated entrance at Eagle Lake Drive and Highway 1. It is anticipated that sufficient temporary easement will be obtained from the Water Supply and Storage Company to allow construction vehicles to turn around at the eastern end of the wetland that connects the two reservoirs. This segment is approximately 1,500 feet in length and is estimated to require approximately 9 to 14 working days for active excavation/pipe installation with activity beginning approximately six weeks prior for clearing, grubbing and site preparation. Following pipe installation, restoration of the disturbed area is anticipated to require approximately another 8 weeks. In total it is anticipated that this area will be impacted for approximately 17 weeks. Unless otherwise requested by the County, it is proposed that the contractor not be allowed to use Eagle Lake Court for construction access. Because of the presence of wetlands in this segment, construction traffic will not access the alignment via Eagle Lake Drive once construction and restoration of this segment is completed.

Segment 5 – Private Property east of Travis Road to drainage between Water Supply and Storage Reservoirs 3 and 4. Construction and material delivery vehicles will access the alignment via Travis Road both for construction traffic entering and exiting the site. It is anticipated that sufficient temporary easement will be obtained from the Water Supply and Storage Company to allow construction vehicles to turn around at the western end of the wetland that connects the two reservoirs. This segment is approximately 1,100 feet in length and is estimated to require approximately 8 to 12 working days for active excavation/pipe installation with activity beginning approximately six weeks prior for clearing, grubbing and site preparation. Following pipe installation, restoration of the disturbed area is anticipated to require approximately another 7 weeks. In total it is anticipated that this area will be impacted for approximately 16 weeks.

Space Availability for Other Pipeline in Preferred Corridor.

NISP WAE has not identified a need for an additional pipe in this corridor for its conveyance needs. Should another entity petition the County for a permit to construct a pipeline in parallel to NISP WAE's pipeline, adequate space exists to accommodate that pipeline. NISP WAE will acquire 40 feet of permanent easement plus an additional 60 feet of temporary easement for this project. If another pipeline were to be approved by the County, its permanent easement could abut NISP WAE's easement any they could use NISP WAE's permanent easement as their temporary easement.

BCC 08/17/20



Northern Integrated Supply Project

Northern Integrated Supply Project

Poudre Intake Pipeline Alternatives Analysis

February 2020

Prepared by:

Dewberry Engineers Inc. 990 South Broadway, Suite 400 Denver, CO 80209 303.825.1802 HDR Engineering, Inc. 1670 Broadway, Suite 3400 Denver, CO 80202 303.764.1520

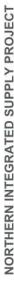
ROUTE COMPARISONS

Each of the alternatives developed for the Poudre Intake segment were subjected to the evaluation criteria and metrics described in **Table 1** in the Introduction Section. The Poudre Intake segment was assessed as a single project area. This was due to the shorter overall length of the pipeline combined with the limited availability of viable alignments on the eastern half of the segment. Breaking up the Poudre Intake Pipeline into project areas did not enhance the evaluation, so the pipeline alternatives were evaluated over the entirety of the alignment. However, the section of the Poudre Intake Pipeline that connects the Poudre River Diversion Structure with the rest of the Poudre Intake Pipeline at the Poudre Pump Station location was assessed in another memo titled Poudre Intake West Pipeline Alternatives Analysis.

An overview of all of the identified alternative alignments is provided in **Figure P.1**. The overview page is followed by detailed fact sheets for each alternative alignment that describe the alignment and its performance against the evaluation criteria. Each fact sheet is accompanied by a figure illustrating the proposed routing and pertinent features in the area. The ranking column on the fact sheet provides the summary performance results of that alignment relative to other alternatives (green = good performance, yellow = fair performance, red = poor performance). In the end, the alternate with the best overall performance (least reds, most greens) was chosen to be the Preferred Alternate. This Preferred Poudre Intake Alignment can be seen in **Figure P.7** at the end of this document.

In the original evaluation a total, five (5) alignment alternatives were fully assessed for the Poudre Delivery segment. Since this TM was originally issued in October of 2019, the design team became aware of a new School planned for construction near Prospect Road and McLaughlin Lane. The new school and associated development resulted in challenges to alignments in that area. The design team met with the Town of Timnath to better understand those challenges. As a result of the meeting with the town and the design team's research for alternative alignments that mitigated the challenges presented by the school, a new alternative alignment was developed. The new alternative alignment was evaluated against the previously evaluated alignments using the same criteria. Including the new alignment, a total of six (6) alignment alternatives were fully assessed for the Poudre Intake segment.





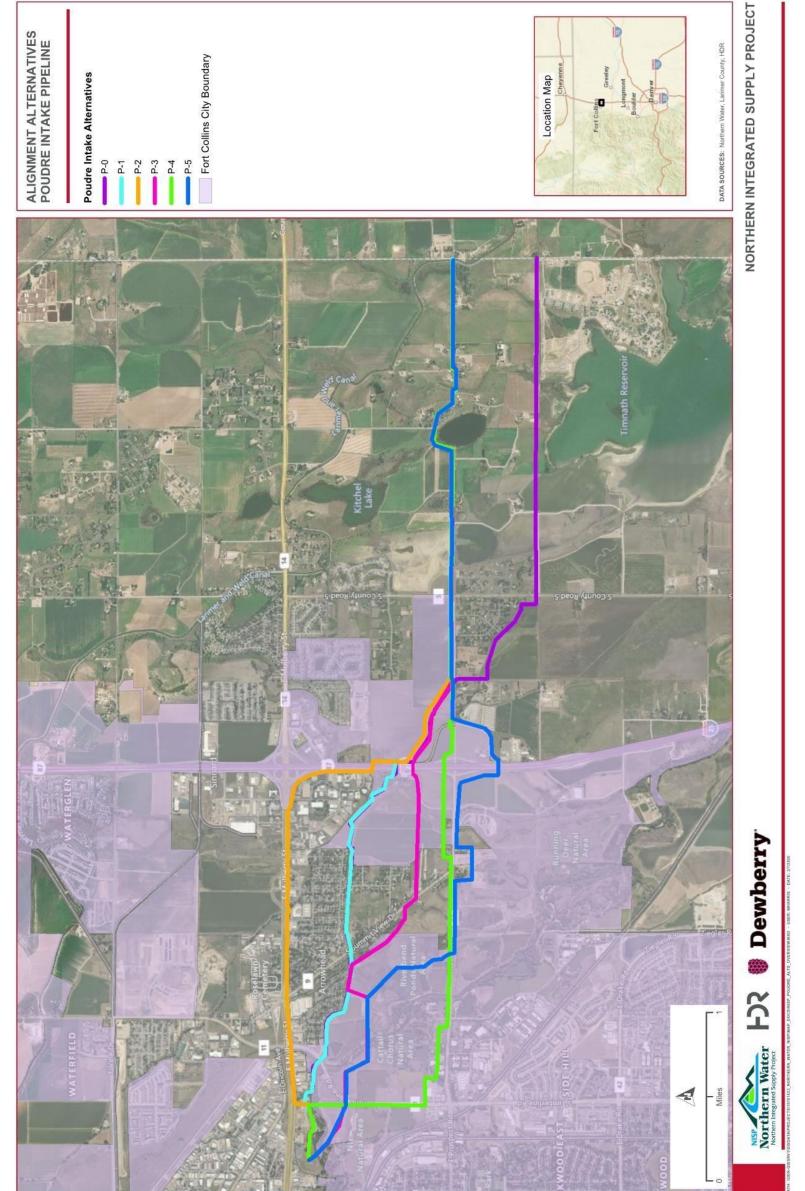
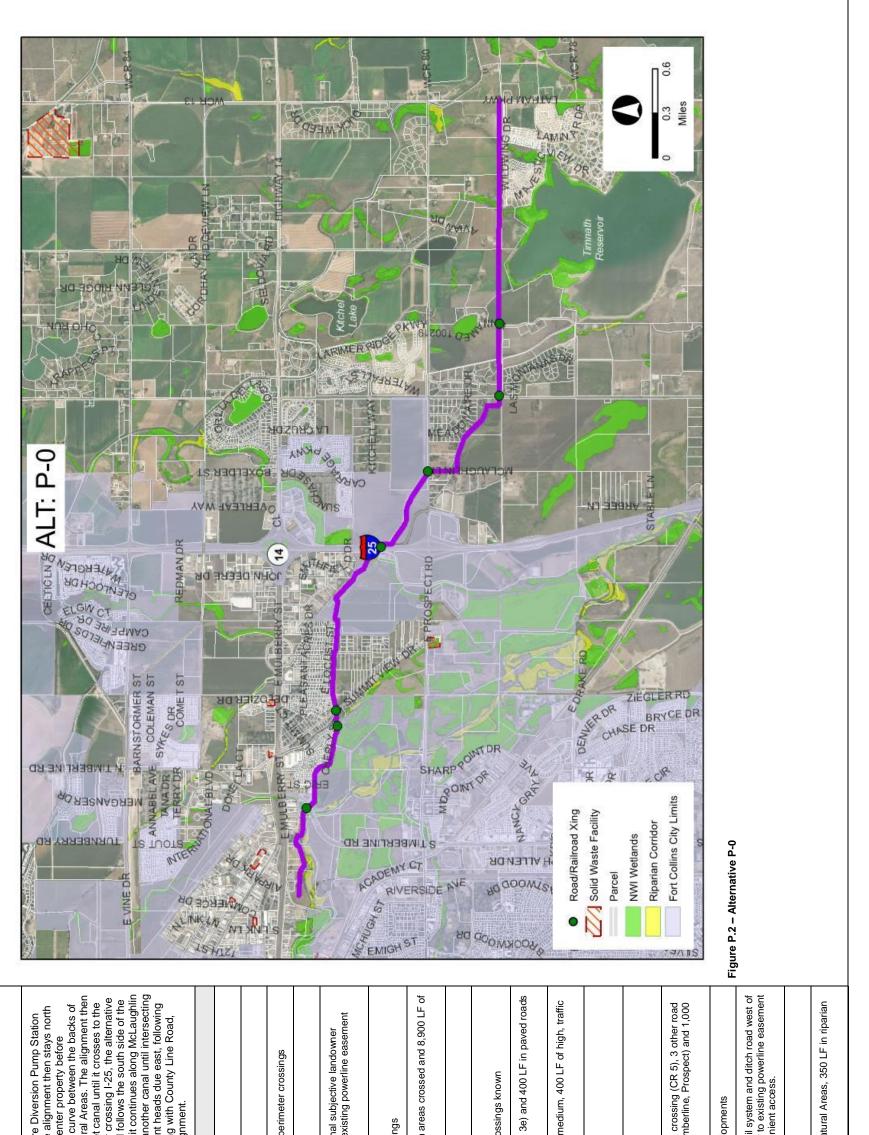
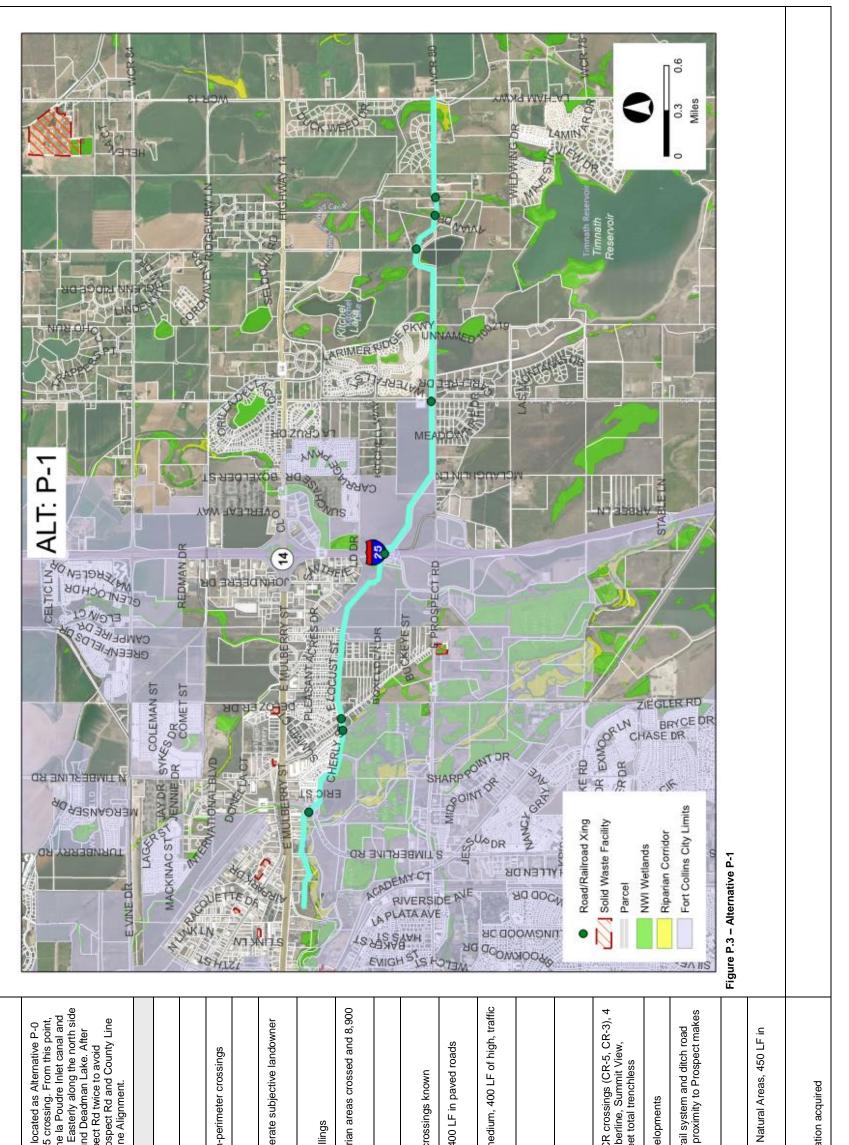


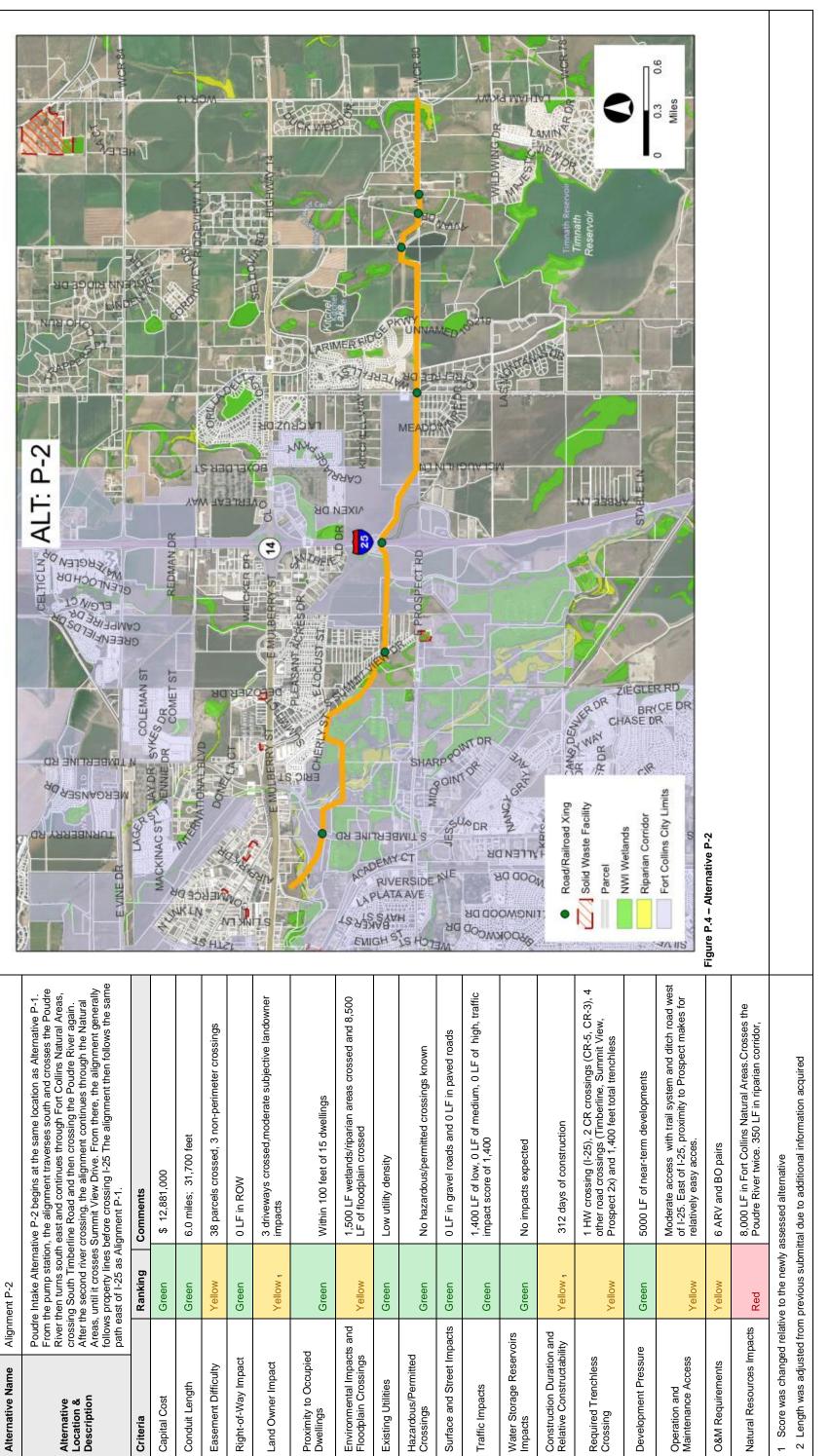
Figure P.1 – Poudre Intake Alignment Alternates Overview



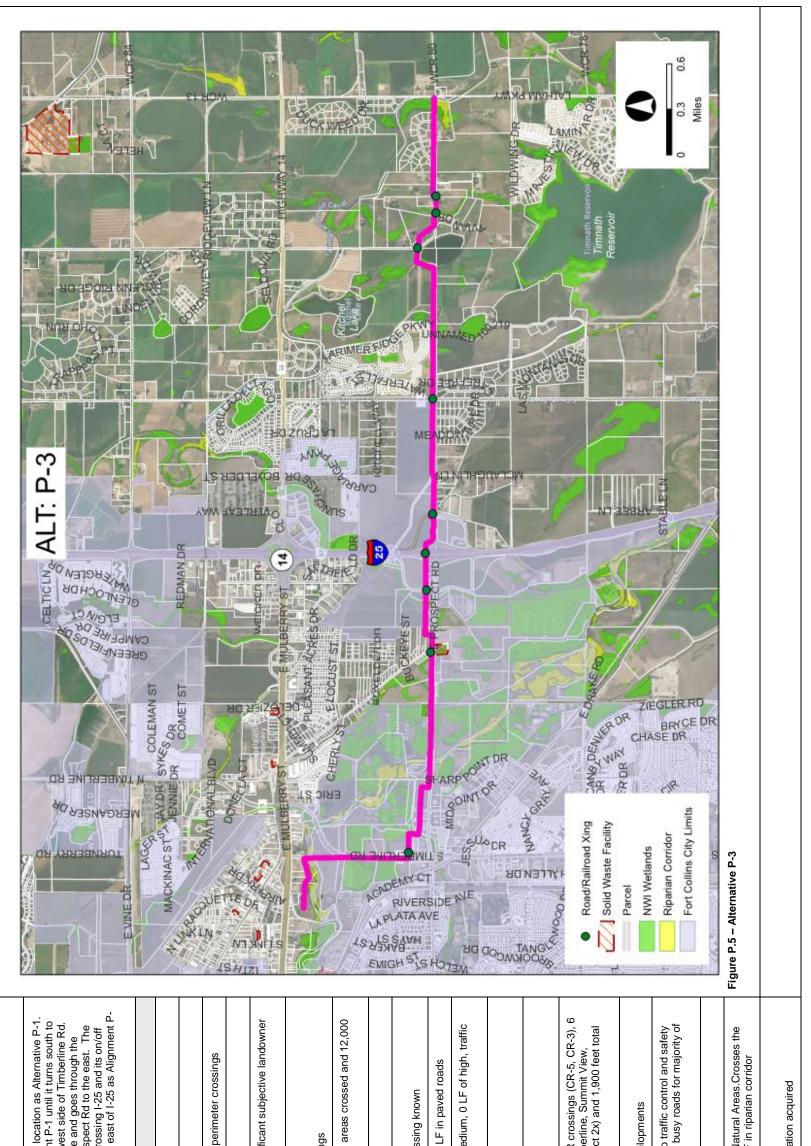
Alternative Name	Alignm	Alignment P-0	
Alternative Location & Description	Poudre location of the F of the F of the F crossin resider follows fol	Intake Alternat n, just southeast Poudre River, pa gig Timberline Ro nees and the point nees and the conal south where it cr ide of the canal south where it cr intil it crosses P efore it turns ea R 5. After interse sting powerline e it ties in with the	Poudre Intake Alternative P-0 begins at the Poudre D location, just southeast of the Timnath Canal. The ali of the Poudre River, passes through the garden cent crossing Timberline Rd. From there, it follows the curt residences and the ponds in the Fort Collins Natural <i>J</i> follows the south side of the Cache la Poudre Inlet ca north side of the canal prior to crossing I-25. After cro veers south where it crosses the canal again, and foll canal until it crosses Prospect Road. From there, it co Lane before it turns east and continues to follow anot with CR 5. After intersecting at CR-5, the alignment h an existing powerline easement before intersecting w where it ties in with the proposed County Line Alignm
Criteria		Ranking	Comments
Capital Cost		Green	\$ 11,464,000.00
Conduit Length		Yellow	6.2 miles; 32,736 feet
Easement Difficulty		Yellow	33 parcels crossed, 7 non-peri
Right-of-Way Impact		Green	400 LF in ROW
Land Owner Impact		Green	2 driveways crossed, minimal s impacts due to paralleling exist south of Prospect
Proximity to Occupied Dwellings		Red	Within 100-feet of 51 dwellings
Environmental Impacts and Floodplain Crossings	s and	Green	550 LF of wetlands/riparian are floodplain crossed
Existing Utilities		Green	Low utility density
Hazardous/Permitted Crossings		Green	No hazardous/permitted crossi
Surface and Street Impacts	pacts	Green	100 LF in gravel roads (CR 3e) (Cherly St)
Traffic Impacts		Green	1,000 LF of low, 100 LF of mec impact score of 2800
Water Storage Reservoirs Impacts	oirs	Green	No impacts expected
Construction Duration and Relative Constructability	and ity	Green	253 days of construction
Required Trenchless Crossing		Green	 HW crossing (I-25), 1 CR cro crossings (Summit View, Timbe feet total trenchless
Development Pressure	0	Green	5000 LF of near term developn
Operation and Maintenance Access		Green	Convenient access with trail sy I-25. East of I-25, proximity to e makes for especially convenier
O&M Requirements		Yellow	6 ARV and BO pairs
Natural Resources Impacts	pacts	Yellow	5,700 LF in Fort Collins Naturs corridor



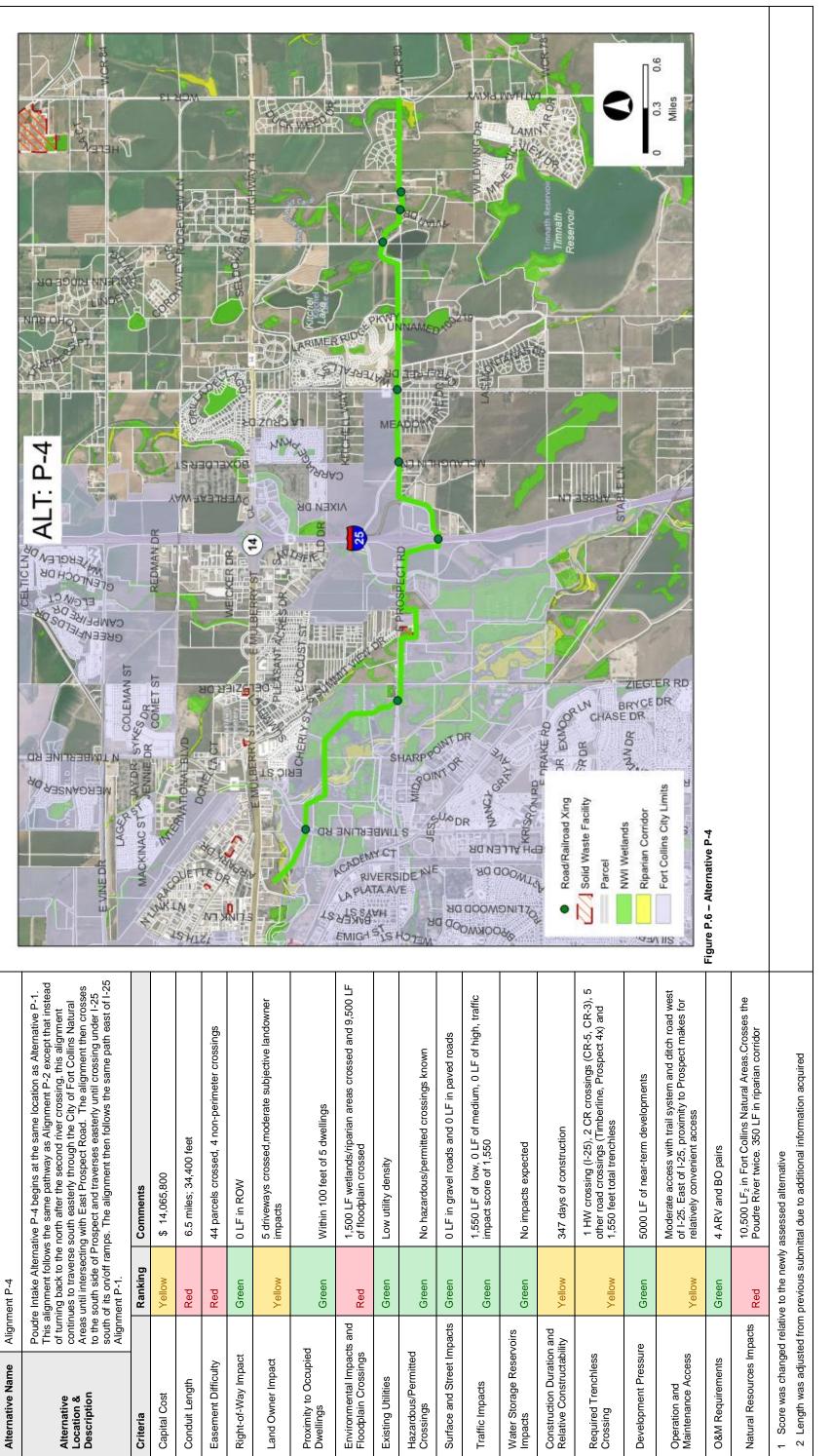
Alternative Name	Alianm	Alianment P-1	
Alternative Location & Description	Poudre Alterna Alterna the no of Eas getting residel Road,	e Intake Alternat llows the same p ative P-1 stays o rth side of East F t Prospect Road I past the lake, th nces before end where it ties in v	Poudre Intake Alternative P-1 begins at the same loc and follows the same path until just east of the I-25 c Alternative P-1 stays on the north side of the Cache I the north side of East Prospect Road. Traversing Ea of East Prospect Road, the alignment diverts around getting past the lake, the alignment crosses Prospect residences before ending at the intersection of Prosp Road, where it ties in with the proposed County Line
Criteria		Ranking	Comments
Capital Cost		Green	\$ 11,749,000
Conduit Length		Green	5.9 miles; 31,100 feet
Easement Difficulty		Green	32 parcels crossed, 5 non-pe
Right-of-Way Impact		Green	400 LF in ROW
Land Owner Impact		Yellow 1	3 driveways crossed,modera impacts
Proximity to Occupied Dwellings	77	Red	Within 100-feet of 48 dwellin
Environmental Impacts and Floodplain Crossings	ts and	Yellow	1,000 LF of wetlands/ripariar LF of floodplain crossed
Existing Utilities		Green	Low utility density
Hazardous/Permitted Crossings		Green	No hazardous/permitted cros
Surface and Street Impacts	Ipacts	Green	0 LF in gravel roads and 400 (Cherly St)
Traffic Impacts		Green	1,400 LF of low, 0 LF of med impact score of 3,000
Water Storage Reservoirs Impacts	voirs	Green	No impacts expected
Construction Duration and Relative Constructability	ı and lity	Yellow 1	298 days of construction
Required Trenchless Crossing		Yellow	1 HW crossing (I-25), 2 CR other road crossings (Timber Prospect 2x) and 1,400 feet
Development Pressure	e	Yellow	7500 LF of near-term develo
Operation and Maintenance Access		Yellow 1	Convenient access with trail west of I-25. East of I-25, pro for relatively easy acces.
O&M Requirements		Yellow	6 ARV and BO pairs
Natural Resources Impacts	pacts	Yellow 1	5,700 LF ₂ in Fort Collins Na riparian corridor
 Score was change Length was adjust 	ed from	e to the newly a previous submit	Score was changed relative to the newly assessed alternative Length was adjusted from previous submittal due to additional informatio



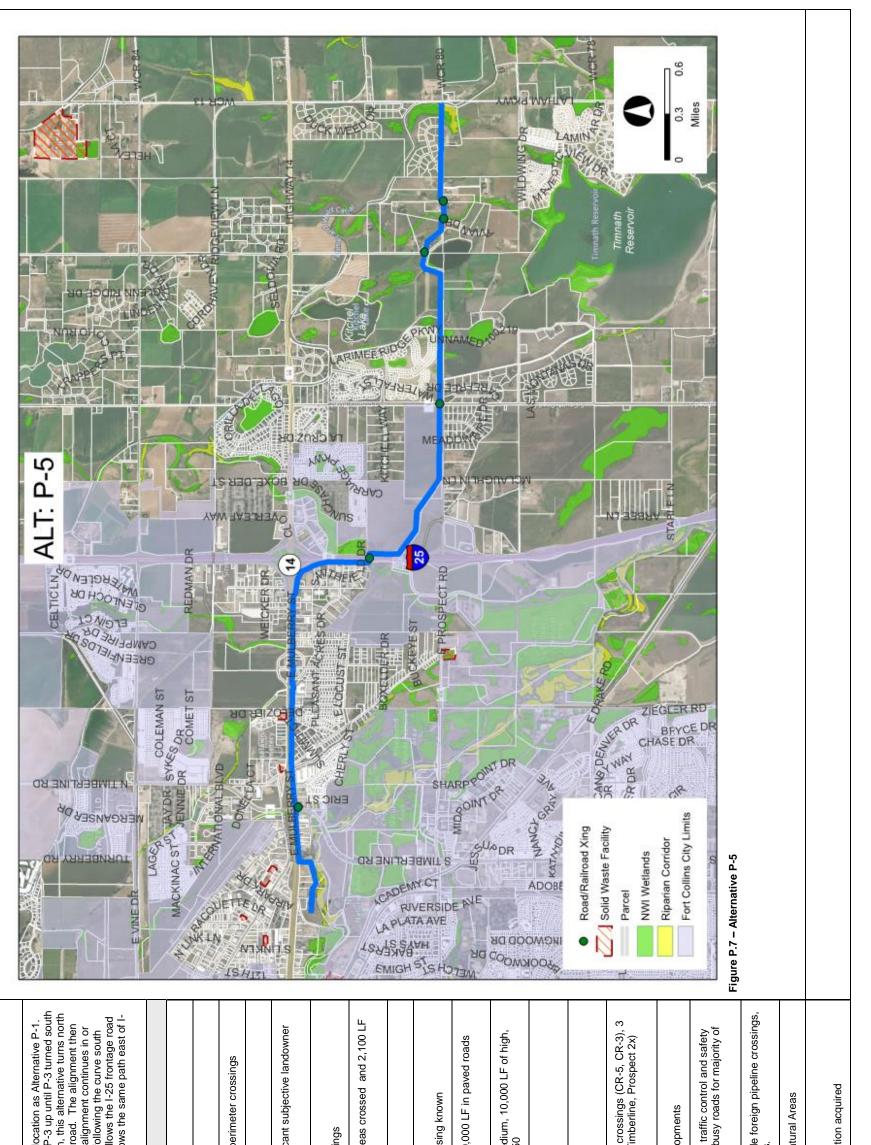
Alternative Name	Aliann	Alianment P-2	
Alternative Location & Description	Poudr From t River t After t Areas, follows	Poudre Intake Alternative P-2 begins From the pump station, the alignment River then turns south east and contil crossing South Timberline Road and After the second river crossing, the al Areas, until it crosses Summit View D follows property lines before crossing path east of I-25 as Alignment P-1.	Poudre Intake Alternative P-2 begins at the same loc: From the pump station, the alignment traverses south River then turns south east and continues through Fo crossing South Timberline Road and then crossing th After the second river crossing, the alignment continu Areas, until it crosses Summit View Drive. From there follows property lines before crossing I-25 The alignm path east of I-25 as Alignment P-1.
Criteria		Ranking	Comments
Capital Cost		Green	\$ 12,881,000
Conduit Length		Green	6.0 miles; 31,700 feet
Easement Difficulty		Yellow	38 parcels crossed, 3 non-pe
Right-of-Way Impact		Green	0 LF in ROW
Land Owner Impact		Yellow 1	3 driveways crossed,moderal impacts
Proximity to Occupied Dwellings	73	Green	Within 100 feet of 15 dwelling
Environmental Impacts Floodplain Crossings	ts and	Yellow	1,500 LF wetlands/riparian ar LF of floodplain crossed
Existing Utilities		Green	Low utility density
Hazardous/Permitted Crossings		Green	No hazardous/permitted cros
Surface and Street Impacts	npacts	Green	0 LF in gravel roads and 0 LF
Traffic Impacts		Green	1,400 LF of low, 0 LF of medi impact score of 1,400
Water Storage Reservoirs Impacts	voirs	Green	No impacts expected
Construction Duration and Relative Constructability	n and llity	Yellow 1	312 days of construction
Required Trenchless Crossing		Yellow	1 HW crossing (I-25), 2 CR c other road crossings (Timber Prospect 2x) and 1,400 feet t
Development Pressure	e	Green	5000 LF of near-term develor
Operation and Maintenance Access		Yellow	Moderate access with trail sy of I-25. East of I-25, proximity relatively easy acces.
O&M Requirements		Yellow	6 ARV and BO pairs
Natural Resources Impacts	Ipacts	Red	8,000 LF in Fort Collins Natu Poudre River twice. 350 LF ir
1 Score was change	ed relativ	re to the newly a	Score was changed relative to the newly assessed alternative



Alternative Name	Alianm	Alianment P-3	
Alternative Location & Description	Poudra This a cross t Alterna parkin alignm ramps	e Intake Alterna lignment follows the Poudre Rive ative P-3 then tr g lot of medical ient traverses e ient traverses e	Poudre Intake Atternative P-3 begins at the same loc This alignment follows the same path as Alignment P cross the Poudre River proceed south along the west Alternative P-3 then turns east, crosses Timberline al parking lot of medical offices before following Prospe alignment traverses east along Prospect before cross ramps. The alignment then follows the same path ea 1.
Criteria		Ranking	Comments
Capital Cost		Yellow	\$ 14,022,400
Conduit Length		Red	6.4 miles; 33,700 feet
Easement Difficulty		Red	44 parcels crossed, 7 non-per
Right-of-Way Impact		Yellow	4,000 LF in ROW.
Land Owner Impact		Yellow	5 driveways crossed, significa impacts
Proximity to Occupied Dwellings		Green	Within 100 feet of 8 dwellings
Environmental Impacts and Floodplain Crossings	s and	Red	1,000 LF wetlands/riparian are LF of floodplain crossed
Existing Utilities		Red	High utility density
Hazardous/Permitted Crossings		Red	1 hazardous/permitted crossin
Surface and Street Impacts	pacts	Green	0 LF in gravel roads and 0 LF
Traffic Impacts		Green	1,900 LF of low, 0 LF of mediu impact score of 1,900
Water Storage Reservoirs Impacts	oirs	Green	No impacts expected
Construction Duration and Relative Constructability	and ity	Red	384 days of construction
Required Trenchless Crossing		Yellow	1 HW crossing (I-25), 2 CR crother road crossings (Timberli Frontage Road 2x, Prospect 2 trenchless
Development Pressure	æ	Green	5000 LF of near-term develop
Operation and Maintenance Access		Red	Inconvenient access due to tra from being in/near existing bu: length
O&M Requirements		Green	4 ARV and BO pairs
Natural Resources Impacts	pacts	Green	$3,000 \text{ LF}_2$ in Fort Collins Natu Poudre River once. 200 LF in
1 Score was changed	d relativ	ve to the newly	Score was changed relative to the newly assessed alternative



Alternative Name	Alignm	Alignment P-4	
Alternative Location & Description	Poudre Inta This alignm of turning b continues to Areas until to the south alignment F	Poudre Intake Alterna This alignment follow of turning back to the continues to traverse Areas until intersectin to the south side of P south of its on/off ram Alignment P-1.	Poudre Intake Alternative P-4 begins at the same loc This alignment follows the same pathway as Alignme of turning back to the north after the second river croi continues to traverse south easterly through the City Areas until intersecting with East Prospect Road. Th to the south side of Prospect and traverses easterly u south of its on/off ramps. The alignment then follows Alignment P-1.
Criteria		Ranking	Comments
Capital Cost		Yellow	\$ 14,065,800
Conduit Length		Red	6.5 miles; 34,400 feet
Easement Difficulty		Red	44 parcels crossed, 4 non-per
Right-of-Way Impact		Green	0 LF in ROW
Land Owner Impact		Yellow	5 driveways crossed,moderate impacts
Proximity to Occupied Dwellings	R	Green	Within 100 feet of 5 dwellings
Environmental Impacts Floodplain Crossings	ts and	Red	1,500 LF wetlands/riparian are of floodplain crossed
Existing Utilities		Green	Low utility density
Hazardous/Permitted Crossings		Green	No hazardous/permitted cross
Surface and Street Impacts	Ipacts	Green	0 LF in gravel roads and 0 LF
Traffic Impacts		Green	1,550 LF of low, 0 LF of medi impact score of 1,550
Water Storage Reservoirs Impacts	voirs	Green	No impacts expected
Construction Duration and Relative Constructability	ו and lity	Yellow	347 days of construction
Required Trenchless Crossing		Yellow	1 HW crossing (I-25), 2 CR cl other road crossings (Timberli 1,550 feet total trenchless
Development Pressure	e	Green	5000 LF of near-term develop
Operation and Maintenance Access		Yellow	Moderate access with trail sys of I-25. East of I-25, proximity relatively convenient access
O&M Requirements		Green	4 ARV and BO pairs
Natural Resources Impacts	pacts	Red	10,500 LF ₂ in Fort Collins Nati Poudre River twice. 350 LF in
1 Score was change	ed relativ	re to the newly	Score was changed relative to the newly assessed alternative



-			
Alternative Name	Alignm	Alignment P-5	
Alternative Location & Description	Poudri This fo to cros to inte travers travers bear th becorr south 25 Altu	Poudre Intake Alterna This follows the same to cross the Poudre R to intersect with the E traverses to the east near the Frontage Ro becoming the I25 fror south before crossing 25 Alternative P-1.	Poudre Intake Alternative P-5 begins at the same loc: This follows the same general route as Alignment P-3 to cross the Poudre River. Instead of turning south, th to intersect with the East Mulberry Street frontage road. The alignest the east along the frontage road. The aligneet near the Frontage Road as it curves to the south, follo becoming the I25 frontage road. The alignment follow south before crossing I25. The alignment then follows
Criteria		Ranking	Comments
Capital Cost		Red	\$ 20,472,700
Conduit Length		Yellow	6.3 miles; 33, 000 feet
Easement Difficulty		Green	29 parcels crossed, 3 non-peri
Right-of-Way Impact		Red	12,000 LF in ROW.
Land Owner Impact		Red	9 driveways crossed,significan impacts
Proximity to Occupied Dwellings	77	Red	Within 100 feet of 33 dwelling:
Environmental Impacts Floodplain Crossings	ts and	Green	400 LF wetlands/riparian areas of floodplain crossed
Existing Utilities		Red	High utility density
Hazardous/Permitted Crossings		Red	1 hazardous/permitted crossin
Surface and Street Impacts	Ipacts	Red	0 LF in gravel roads and 10,00 (Frontage Road S)
Traffic Impacts		Red	1,250 LF of low, 0 LF of mediu traffic impact score of 41,250
Water Storage Reservoirs Impacts	voirs	Green	No impacts expected
Construction Duration and Relative Constructability	ו and lity	Red	392 days of construction
Required Trenchless Crossing		Green	1 HW crossing (I-25), 2 CR cro other road crossings and (Timl 1,250 feet total trenchless
Development Pressure	e	Green	5000 LF of near-term developr
Operation and Maintenance Access		Red	Inconvenient access due to tra from being in/near existing bus length
O&M Requirements		Red	3 ARV and BO pairs. Mutiple fi high CP O&M requirements.
Natural Resources Impacts	pacts	Green	2,000 LF2 in Fort Collins Natur
	the last		

Table P.1 below provides a visual summary of the evaluation results and criteria ranking given to each alternative. Table P.2 tabulates the number of greens, yellows, and reds given to each alternative. Detailed scoring tables of each alternative is provided in Appendix A-3.

	nary or Alternative Scoring	coring				
Evaluation Criteria	P-0	P-1	P-2	P-3	P-4	P-5
Capital Cost						
Conduit Length						
Easement Difficulty						
Right-of-Way Impact						
Land Owner Impact						
Proximity to Occupied Dwellings						
Environmental Impacts and Floodplain Crossings						
Existing Utilities						
Hazardous/Permitted Crossings						
Surface and Street Impacts						
Traffic Impacts						
Water Storage Reservoirs Impacts						
Construction Duration and Relative Constructability						
Required Trenchless Crossings						
Development Pressure						
Operation and Maintenance (O&M) Access						
O&M Requirements						
Natural Resources Impacts						

Table P.1 – Visual Summary of Alternative Scoring

NISP

Scoring
Alternative
ď
Summary
- Numeric
2
Table

			B			
Evaluation Criteria	0-d	P-1	P-2	P-3	P-4	P-5
Red	Ţ	Ţ	L	7	4	11
Yellow	7	8	2	4	5	~
Green	13	6	10	7	6	6

PREFERRED ALIGNMENT

been reviewed and the preferred alignment selected based upon prioritization of factors, mainly conduit length, constructability and land-owner/environmental impacts. In As stated previously, the alternate with the best overall performance (least reds, most greens) is to be the preferred alternate. In the case of a tie, alternates were to have this case Alignment P-o, was clearly preferred and tie breakers were not needed.

The preferred alignment is depicted in Figure P.9 and generally described as follows:

continues along McLaughlin Lane before it turns east and continues to follow another canal until intersecting with CR 5. After intersecting at CR-5, the alignment heads due Fort Collins Natural Areas. The alignment then follows the south side of the Cache la Poudre Inlet canal until it crosses to the north side of the canal prior to crossing I-25. River, passes through the garden center property before crossing Timberline Road. From there, it follows the curve between the backs of residences and the ponds in the Poudre Intake Alternative P-o begins at the Poudre Diversion Pump Station location, just southeast of the Timnath Canal. The alignment then stays north of the Poudre After crossing I-25, the alternative veers south where it crosses the canal again, and follows the south side of the canal until it crosses Prospect Road. From there, it east, following an existing powerline easement before intersecting with County Line Road, where it ties in with the proposed County Line alignment

Some benefits this alignment feature over other alignments include:

Least landowner impacts

Shortest expected construction duration

- Comparatively low environmental and floodplain impacts
- Convenient access for O&M
- Relatively low impact to public ROW
- Least expensive

Table **P.3** below summarizes the characteristics of the preferred alignment.

Table P.3 – Preferred Alignment Characteristics

Characteristic	P-0
Pipe Diameter (inches)	32
Pipe Material	Mortar Lined Steel
Total Distance (miles)	6.2
Approximate Cost	\$11,464,000
Length Tunnel (feet)	1,000
Number of Landowners	33
LF of Wetland Crossings	550



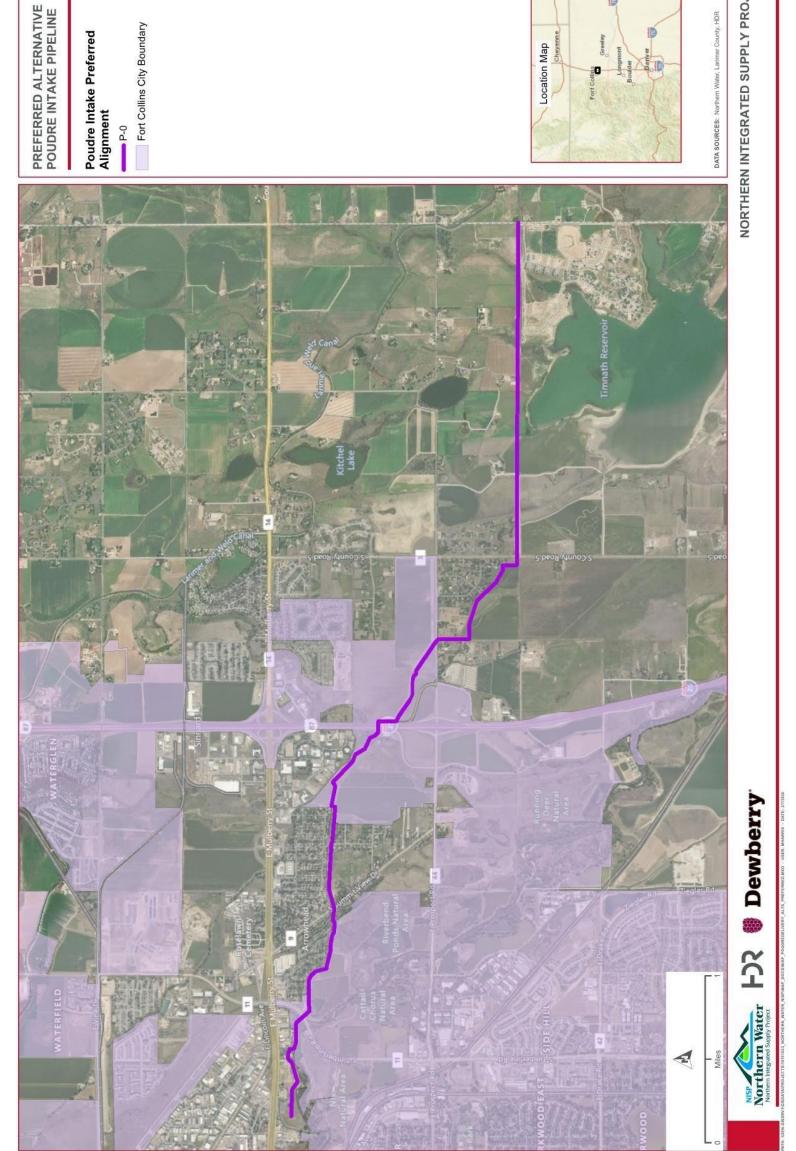


Figure P.8 – Poudre Intake Pipeline Preferred Alignment

BCC 08/17/20

BCC 08/17/20



Northern Integrated Supply Project

Poudre Intake West Pipeline Alternatives Analysis

February 2020

Prepared by:

Dewberry Engineers Inc. 990 South Broadway, Suite 400 Denver, CO 80209 303.825.1802 HDR Engineering, Inc. 1670 Broadway, Suite 3400 Denver, CO 80202 303.764.1520

ROUTE COMPARISONS

Each of the alternatives developed was subjected to the evaluation criteria and metrics described in **Table 1** in the introduction. The Poudre Intake West Pipeline segment was assessed as a single project area. This was due to the fact that the alignment is relatively short compared to other pipeline segments, allowing for easy readability/resolution with just one project area. This pipeline is the westernmost portion of the Poudre Intake Pipeline, which connects the Poudre River Diversion Structure with the rest of the Poudre Intake Pipeline at the Poudre Pump Station location. The rest of the Poudre Intake Pipeline Alternatives Analysis.

An overview of the Project Area and the alternative options can be seen in **Figure PW.1**. Detailed fact sheets for each alternative alignment compare its performance against the evaluation criteria and figures illustrating each individual alignment alternative are provided on the following pages. Included on the fact sheet for each alternate is a table demonstrating the ranking assigned for each criterion. In the end, the alternative with the best overall performance (least reds, most greens) was selected to be the preferred alternative. This preferred Poudre Intake West Pipeline Alignment can be seen in **Figure PW.4** at the end of this document.

In total, two (2) alternatives were assessed for the Poudre Intake West Pipeline segment all within a single project area.

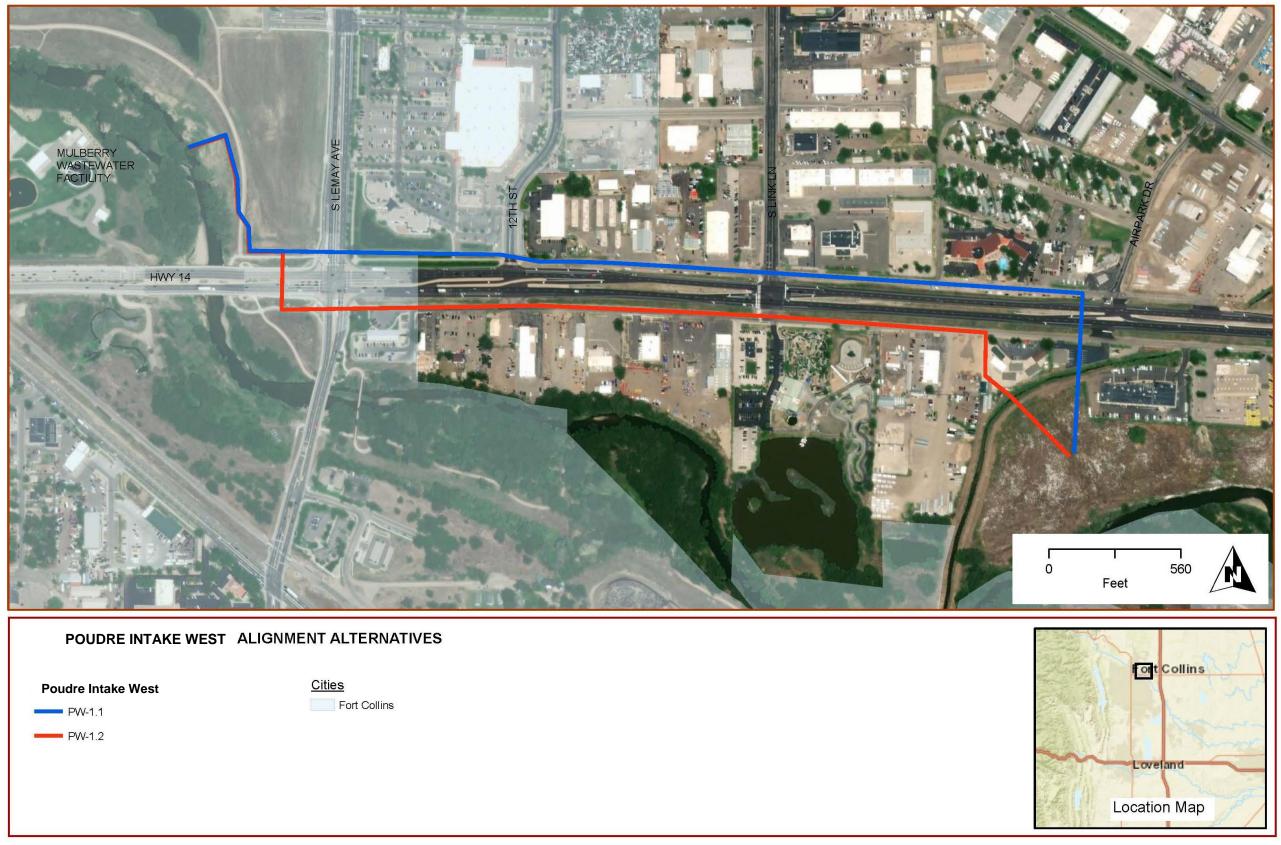
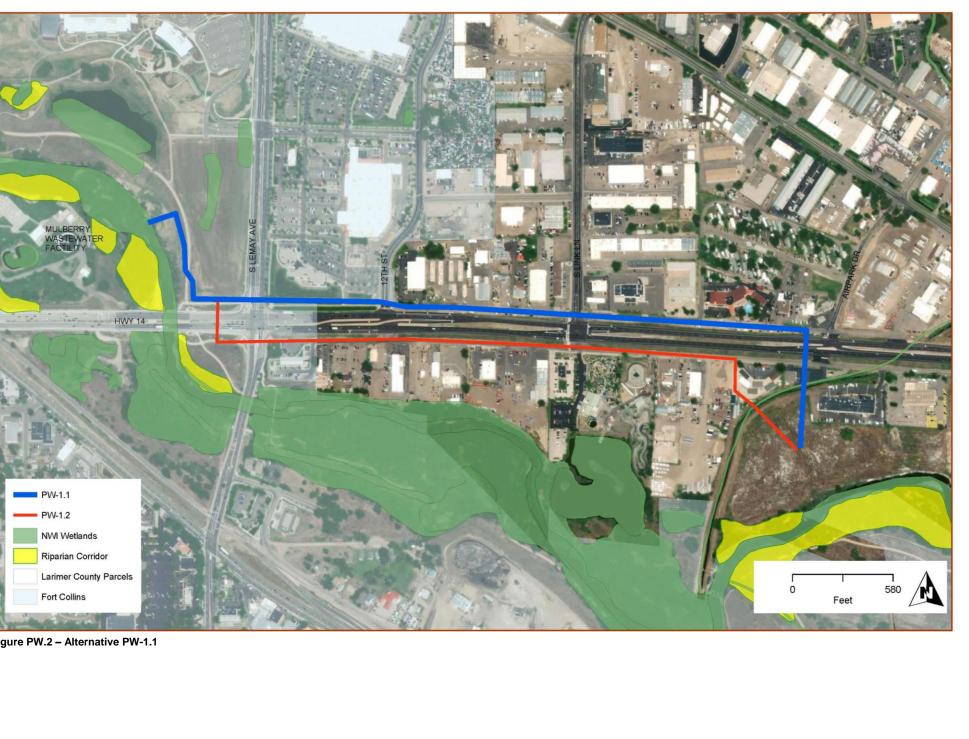


Figure PW.1 – Poudre Intake West Pipeline Alternatives

Alternative Name	Poudre Intake West- 1.1		
Alternative Location & Description	Alignment Alternative PW-1.1 begins at the proposed diversion structure just northeast of the City of Fort Collins Mulberry wastewater facility and routes northeast away from the Poudre River. It turns southeast, paralleling the Poudre River, until reaching E. Mulberry Street. It then turns east, crosses S. Lemay Ave., and continues along Frontage Road N. until reaching Air Park Dr. From this point the alignment turns south across E. Mulberry Street and the Timnath Reservoir Inlet Canal, to its termination point at the Poudre Diversion Sediment Pond.		
Criteria		Ranking	Comments
Capital Cost		Yellow	\$ 2,588,000
Conduit Length		Yellow	4,540 feet
Easement Difficulty		Yellow	6 parcels crossed, 1 non-perimeter crossings
Right-of-Way Impact		Green	2,900 LF in ROW
Land Owner Impact		Green	0 businesses impacted with one access point, 12 businesses impacted with two access points
Proximity to Occupied Dwellings		Yellow	Within 100-feet of 10 occupied businesses
Environmental Impacts	s	Green	No wetlands/riparian areas crossed
Existing Utilities		Red	High density of existing utilities
Hazardous/Permitted Crossings		Green	No hazardous/permitted crossings known
Surface and Street Im	pacts	Yellow	0 LF of open-cut in gravel roads, 2,380 LF of open-cut in paved roads
Traffic Impacts		Yellow	0 LF of low, 600 LF of medium, 2,380 LF of high traffic impacts, traffic impact score of 10120
Water Storage Reserv Impacts	voirs	Green	No impacts expected
Construction Duration Relative Constructabili		Yellow	130 days of construction
Required Trenchless Crossing		Yellow	1 HWY (HWY 14), 2 Paved Roadways (Lemay Ave, 12th Street), 600 LF total trenchless
Development Pressure		Green	Some development pressure possible at northwest corner of HWY 14 and Lemay Ave, no other new developments known/expected
Operation and Maintenance Access		Green	Similar access due to proximity to roadways
O&M Requirements		Green	3 ARV and BO pairs
Natural Resources Imp	pacts	Green	0 LF in natural areas



Alternative Name	Poudre Intake W	est-1.2
Alternative Location & Description	northeast of the northeast away f Poudre River, ur 150 feet, it then alignment turns of Road S. for appr	ative PW-1.2 begins at the proposed diversion structure just City of Fort Collins Mulberry wastewater facility and routes om the Poudre River. It turns southeast, paralleling the til reaching E. Mulberry Street. It then turns east for roughly urns south crossing E. Mulberry Street. From this point the east, crosses S. Lemay Ave., and continues along Frontage eximately 2,600 feet before turning south crossing the Timnath anal, finally terminating at the Poudre Diversion Sediment
Criteria	Ranking	Comments
Capital Cost	Green	\$ 2,290,000
Conduit Length	Green	4,410 feet
Easement Difficulty	Green	5 parcels crossed, 1 non-perimeter crossings
Right-of-Way Impact	Yellow	3,200 LF in ROW
Land Owner Impact	Yellow	5 businesses impacted with one access point, 7 businesses impacted with two access points
Proximity to Occupied Dwellings	Yellow	Within 100-feet of 9 occupied businesses
Environmental Impact	s Green	No wetlands crossed
Existing Utilities	Red	High density of existing utilities
Hazardous/Permitted Crossings	Green	No hazardous/permitted crossings known
Surface and Street Im	pacts Red	0 LF of open-cut in gravel roads, 2600 LF of open-cut in paved roads
Traffic Impacts	Red	0 LF of low, 455 LF of medium, 2,600 LF of high traffic impacts, traffic impact score of 10,855
Water Storage Reserv Impacts	voirs Green	No impacts expected
Construction Duration Relative Constructabil		110 days of construction
Required Trenchless Crossing	Green	1 HWY (HWY 14), 1 Paved Roadways (Lemay Ave), 455 LF total trenchless
Development Pressur	e Green	Some development pressure possible at northwest corner of HWY 14 and Lemay Ave, no other new developments known/expected
Operation and Maintenance Access	Green	Similar access due to proximity to roadways
O&M Requirements	Green	3 ARV and BO pairs
Natural Resources Im	pacts Green	0 LF in natural areas



Table PW.1 is a visual summary of the score given to the two alternatives for each criteria. Table PW.2 tabulates the number of greens, yellows, and reds given to each alternative. Detailed scoring tables of each alternative is provided in Appendix A-4.

Table PW.1 – Visual Summary of Alternative Scoring

Evaluation Criteria	1.1-WG	2.1-W9
Capital Cost		
Conduit Length		
Easement Difficulty		
Right-of-Way Impact		
Land Owner Impact		
Proximity to Occupied Dwellings		
Environmental Impacts		
Existing Utilities		
Hazardous/Permitted Crossings		
Surface and Street Impacts		
Traffic Impacts		
Water Storage Reservoirs Impacts		
Construction Duration and Relative Constructability		
Required Trenchless Crossings		
Development Pressure		
Operation and Maintenance (O&M) Access		
O&M Requirements		
Natural Resources Impacts		

NISP

I able PW.2 – Numeric Summary of Alternative Scoring	immary of Alternative So	coring
Evaluation Criteria	PW-1.1	PW-1.2
Red	L	3
Yellow	8	3
Green	6	12

PW 5. Toblo

PREFERRED ALIGNMENT

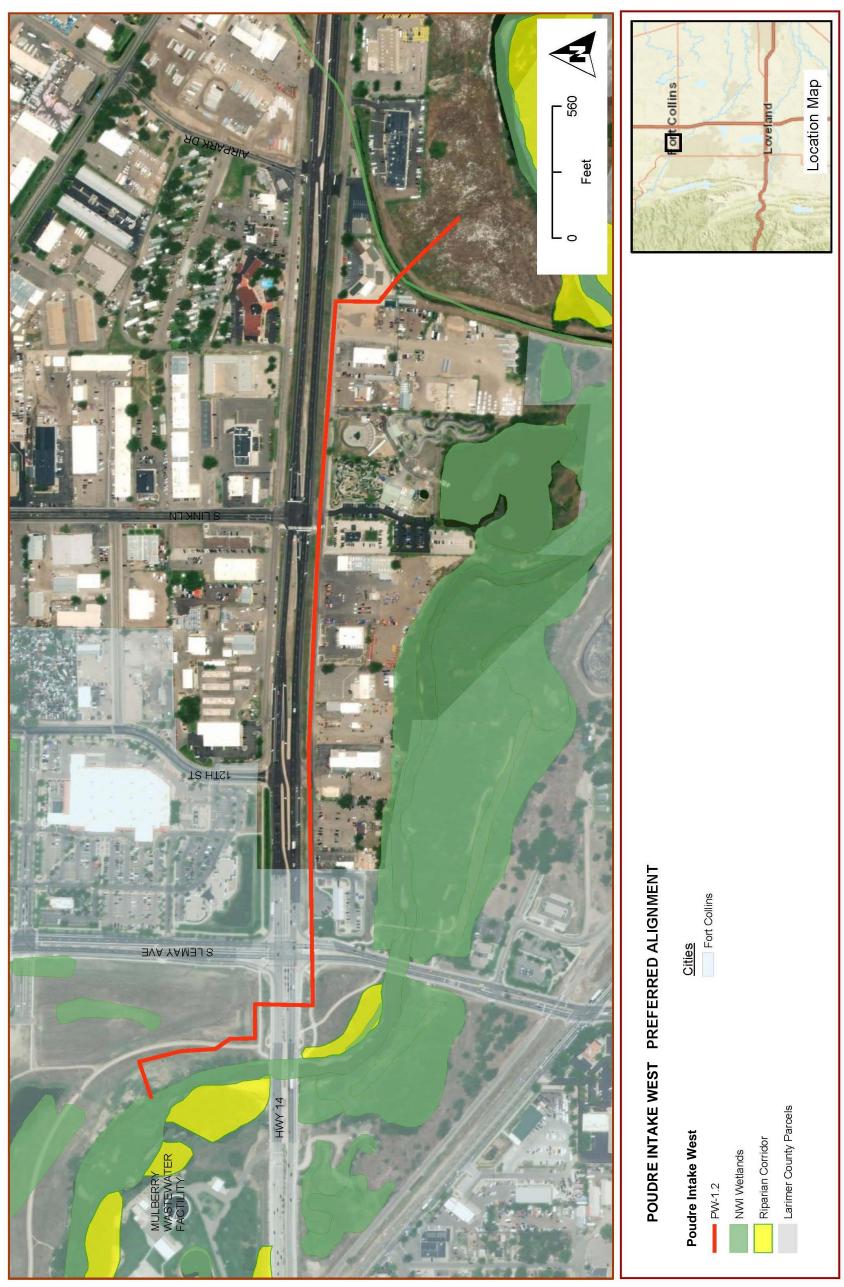
From analysis, it can be determined that the optimal/preferred alignment is alternative PW-1.2. The alignment begins at the proposed diversion structure just northeast of Mulberry Street. It then turns east for roughly 150 feet, it then turns south crossing East Mulberry Street. From this point the alignment turns east, crosses South Lemay Ave., and continues along South Frontage Road for approximately 2,600 feet before turning south crossing the Timnath Reservoir Inlet Canal, finally terminating at the Poudre Diversion Sediment Pond located at the Poudre Pump Station. Some of the benefits of this alignment include a comparatively lower overall length, construction the City of Fort Collins Mulberry wastewater facility and routes northeast away from the Poudre River. It turns southeast, paralleling the Poudre River, until reaching E. duration, trenchless crossings and lower capital costs.

Table PW.3 below summarizes the estimated features of the overall preferred alignment. In the case of a tie, alternates were evaluated and the preferred alignment was selected based upon prioritization of factors, mainly conduit length, constructability and land-owner/environmental impacts. Preferred alignment PW-1.2 can be seen in Figure PW.4 on the following page.

lable PW.3 – Preferred Alignment Characteristics	PW-1.2	(inches) 32	Mortar Lined Steel	(feet) 4,410	\$2,290,000	(feet) 455	downers 5
l able PW.3 – Preterred A	Characteristic	Pipe Diameter (inches)	Pipe Material	Total Distance (feet)	Pipe Cost	Length Tunnel (feet)	Number of Landowners

Table PW.3 – Preferred Alignment Characteristics

PW-1.2	0
Characteristic	Wetland Crossings (feet)









Northern Integrated Supply Project

County Line Road Delivery Pipeline Alternatives Analysis

February 2020

Prepared by:

Dewberry Engineers Inc. 990 South Broadway, Suite 400 Denver, CO 80209 303.825.1802 HDR Engineering, Inc. 1670 Broadway, Suite 3400 Denver, CO 80202 303.764.1520

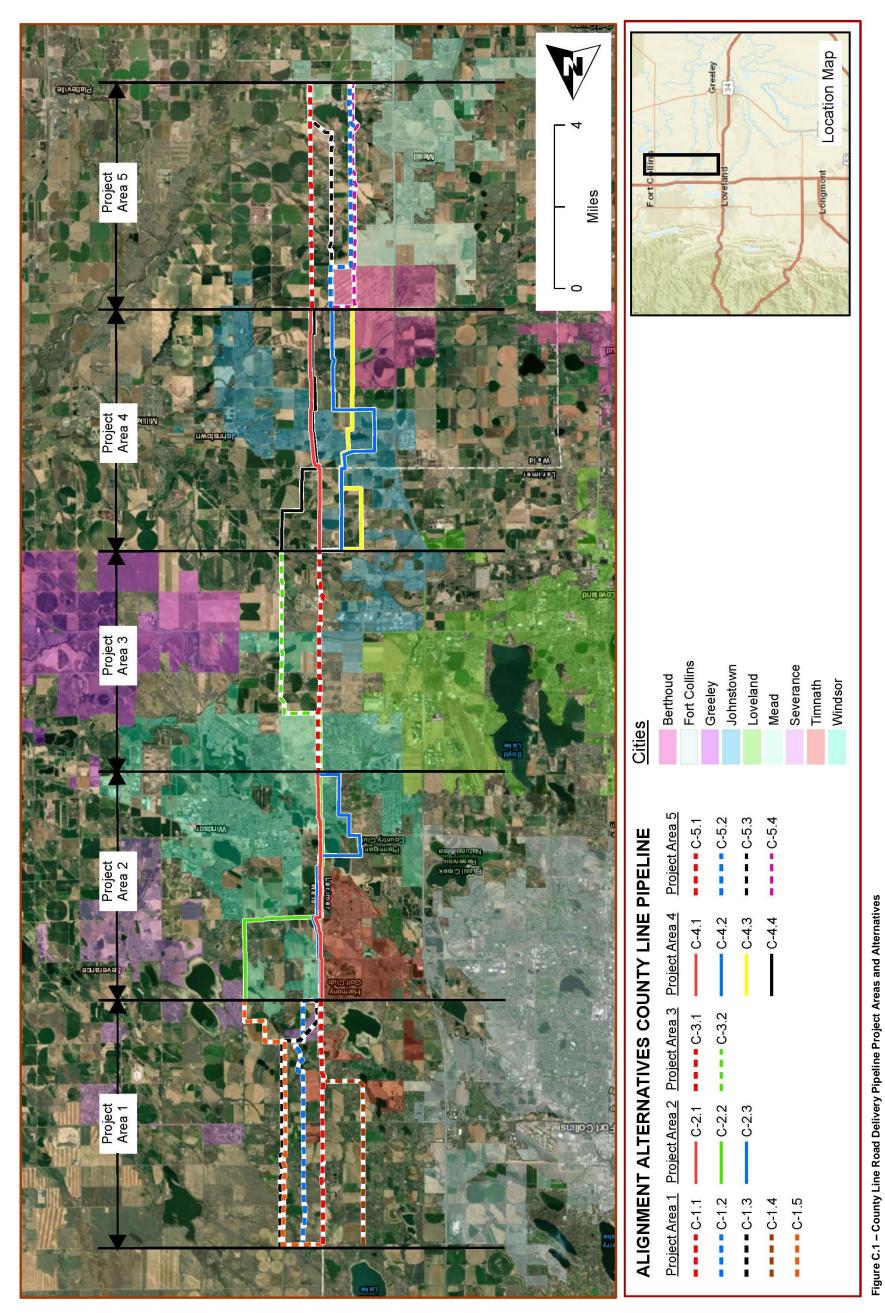
BCC 08/17/20

ROUTE COMPARISONS

Each of the alternatives developed was subjected to the evaluation criteria and metrics described in **Table 1** in the introduction. The County Line segment was broken into 5 Project Areas, which made for easier comparison of alternatives. The Project Areas also enabled the project team to look at combinations of alternatives for each Project Area and facilitated a thorough analysis for the final Preferred Alignment.

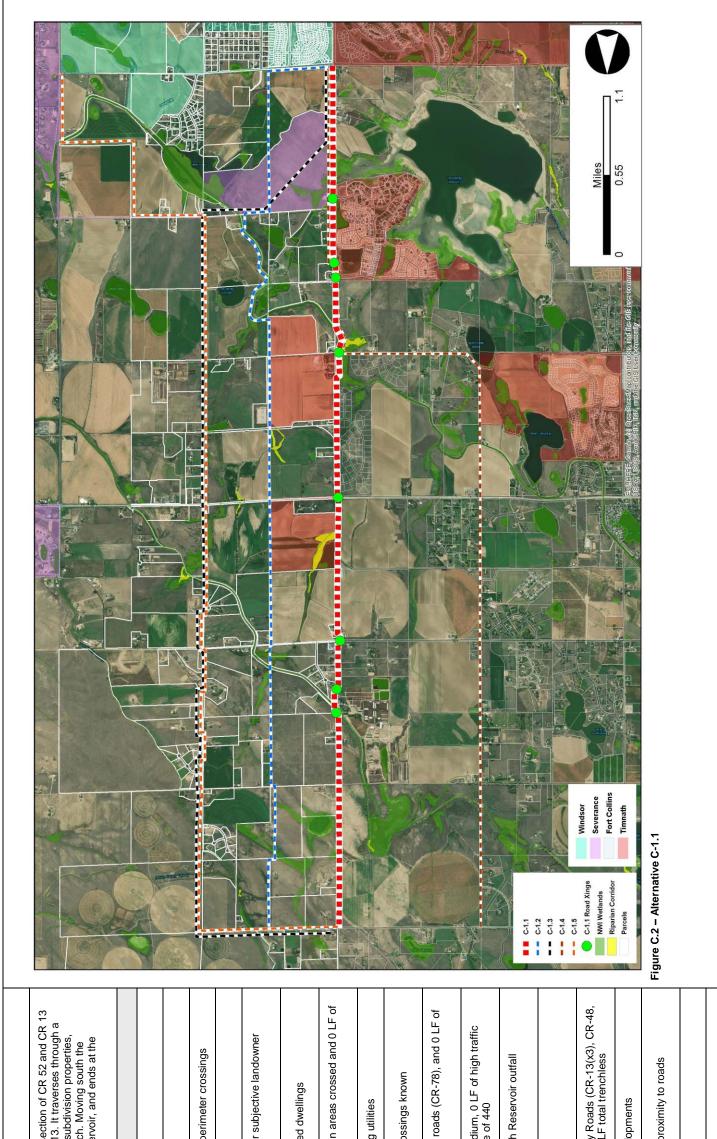
An overview of all of the Project Areas and the alternative options can be seen in **Figure C.1**. Detailed fact sheets for each alternative alignment compare its performance against the evaluation criteria and figures illustrating each individual alignment alternative are provided on the following pages. Included on the fact sheet for each alternate is a table demonstrating the ranking assigned for each criterion. In the end, the alternate with the best overall performance (least reds, most greens) was chosen to be the preferred alternate. This preferred County Line alignment can be seen in **Figure C.20** at the end of this document.

In total, five (5) alternates were assessed for Project Area 1, three (3) alignment alternates were assessed for Project Area 2, two (2) alignment alternates were assessed for Project Area 3, four (4) alignment alternates were assessed for Project Area 4, and four (4) alignment alternates were assessed for Project Area 5.

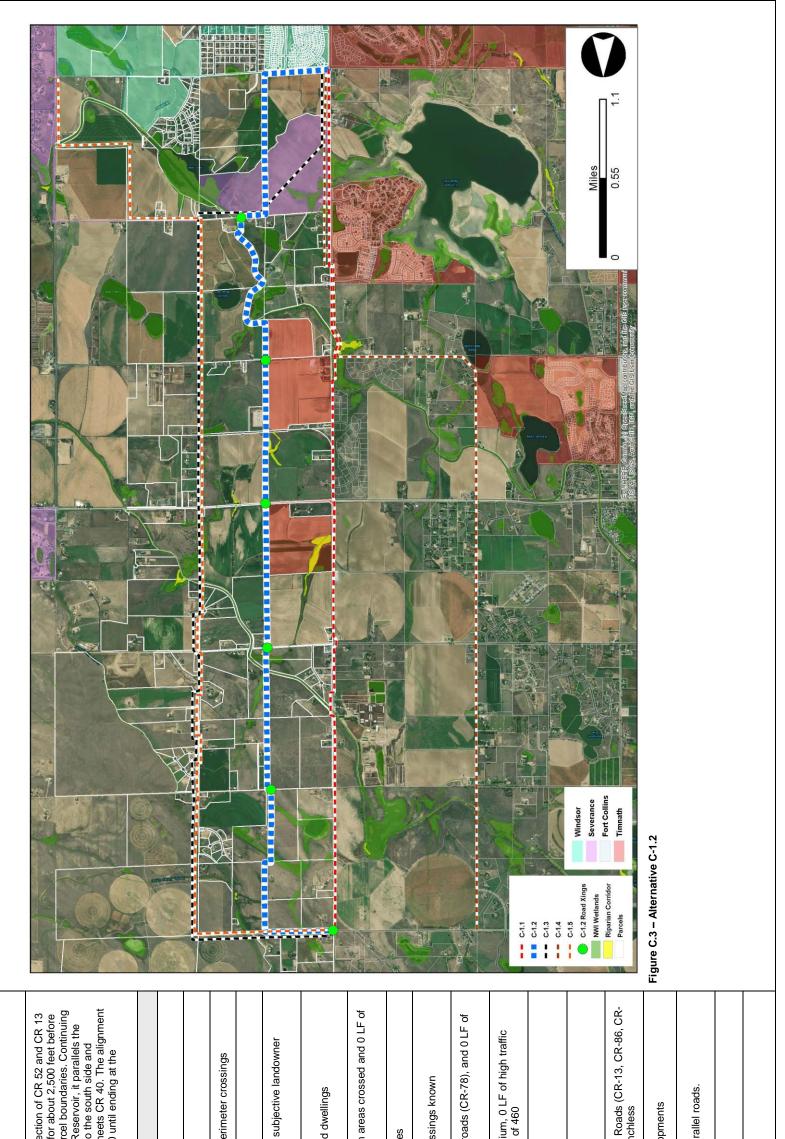


t Areas and Alternatives

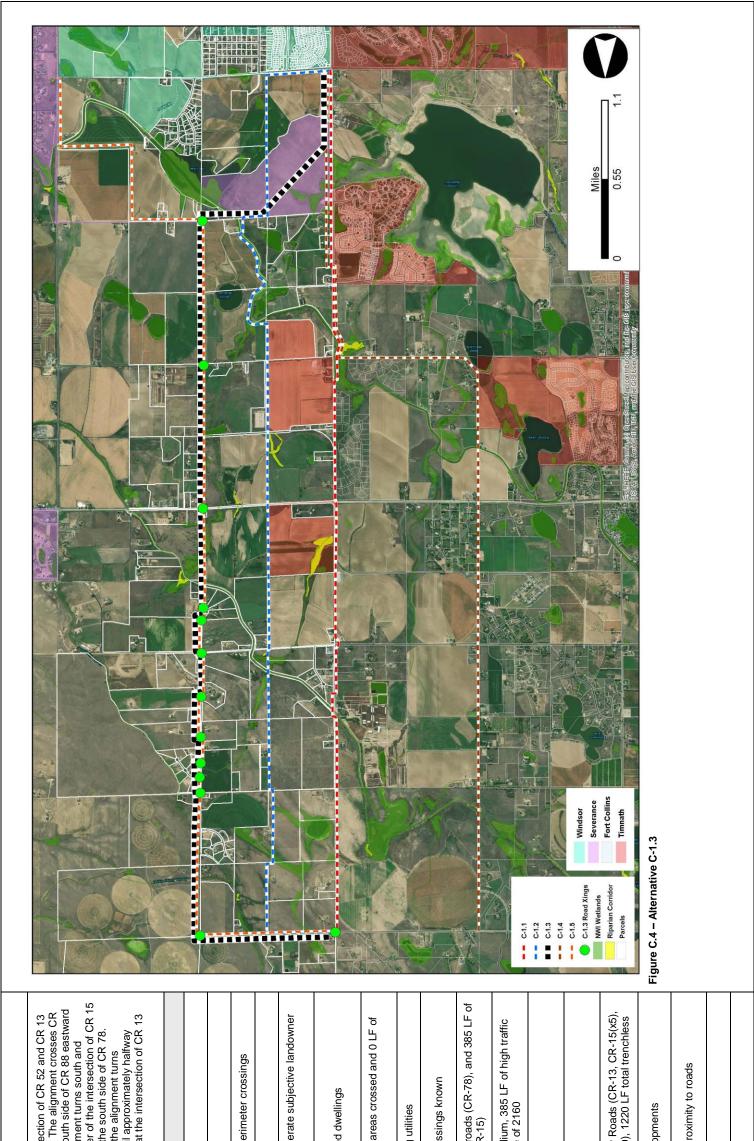
BCC 08/17/20



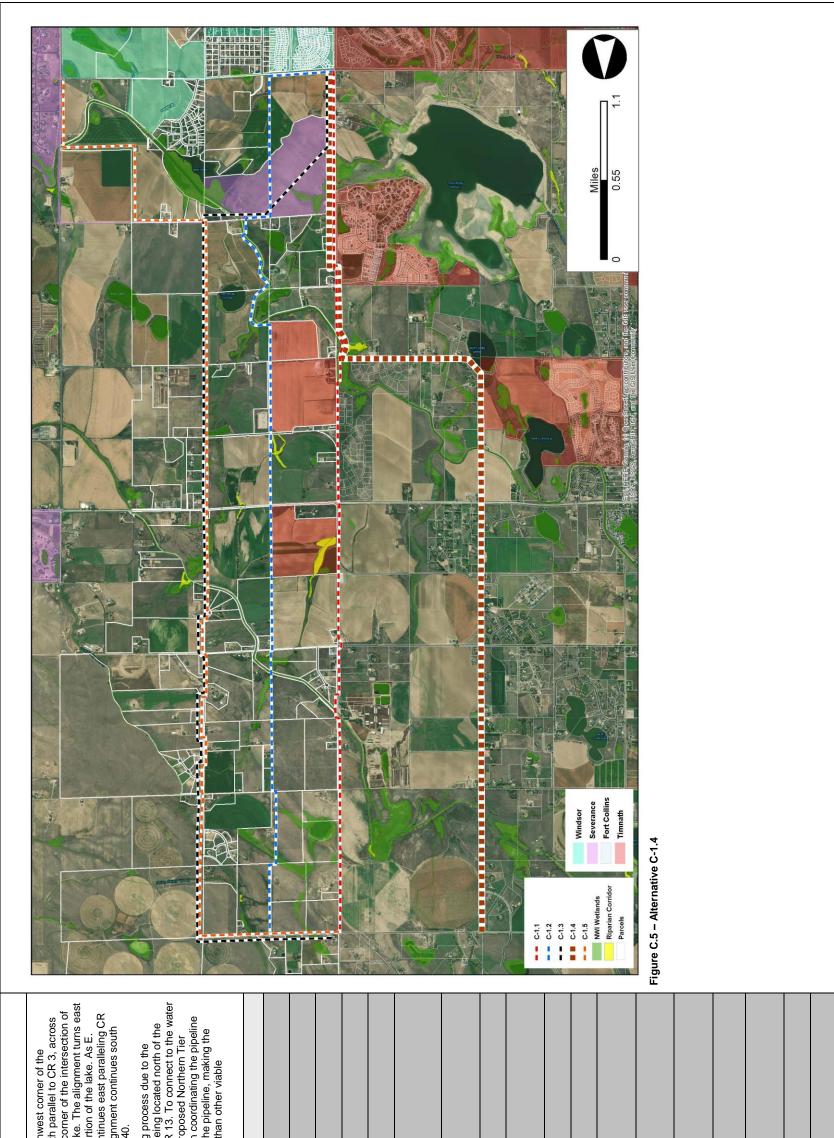
Alternative Name	C-1.1		
Alternative Location & Description	Count and he combii crossii alignm interse	y Line Alternat ads south par nation of agric ng CR 13 seve tent crosses H action of CR 13	County Line Alternative C-1.1 begins at the intersecti and heads south paralleling the west side of CR 13.1 combination of agricultural, rural residential, and sub crossing CR 13 several times throughout this reach. I alignment crosses Hwy 14, passes Timnath Reservoi intersection of CR 13 and CR 40.
Criteria		Ranking	Comments
Capital Cost		Green	\$ 17,557,000
Conduit Length		Green	6.1 miles, 32,200 feet
Easement Difficulty		Yellow	27 parcels crossed, 0 non-perir
Right-of-Way Impact		Yellow	810 LF in ROW
Land Owner Impact		Green	6 driveway crossings, minor su impacts
Proximity to Occupied Dwellings	B	Green	Within 100-feet of 2 occupied d
Environmental Impacts and Floodplain Crossings	ts and	Red	2460 LF of wetlands/riparian ar floodplain crossed
Existing Utilities		Yellow	Moderate density of existing uti
Hazardous/Permitted Crossings		Green	No hazardous/permitted crossi
Surface and Street Impacts	npacts	Green	40 LF of open-cut in gravel roa open-cut in paved roads
Traffic Impacts		Green	360 LF of low, 40 LF of mediun impacts, traffic impact score of
Water Storage Reservoirs Impacts	voirs	Yellow	Possible impacts to Timnath Re infrastructure
Construction Duration and Relative Constructability	n and ility	Green	180 days of construction
Required Trenchless Crossing		Yellow	1 HWY (HWY 14), 6 County Ro CR-80, Wildwing Dr.), 720 LF t
Development Pressure	re	Yellow	5260 LF of near-term developm
Operation and Maintenance Access		Green	Convenient access due to prox
O&M Requirements		Green	8 ARVs; 7 BOs
Natural Resources Impacts	npacts	Yellow	410 LF in natural areas



Alternative Name	۰ ۲ ر ر		
Alternative Location & Description	Country and ru headir south canal then tu then tu	County Line Alternative C-1.2 beg county Line Alternative C-1.2 beg and runs east paralleling the sout heading south through agricultur south the alignment runs into a ca canal until it approaches CR 78 w continues through more agricultu then turns west paralleling the no intersection of CR 13 and CR 40.	County Line Alternative C-1.2 begins at the intersecti and runs east paralleling the south side of CR 52 for heading south through agricultural fields along parcel south the alignment runs into a canal near Smith Ree canal until it approaches CR 78 where it crosses to th continues through more agricultural fields until it mee then turns west paralleling the north side of CR 40 ur intersection of CR 13 and CR 40.
Criteria		Ranking	Comments
Capital Cost		Yellow	\$ 19,152,000
Conduit Length		Yellow	7.4 miles, 38,900 feet
Easement Difficulty		Green	20 parcels crossed, 0 non-perir
Right-of-Way Impact		Green	360 LF in ROW
Land Owner Impact		Green	2 driveway crossings, minor sul impacts
Proximity to Occupied Dwellings	T	Green	Within 100-feet of 2 occupied d
Environmental Impacts Floodplain Crossings	ts and	Yellow	1565 LF of wetlands/riparian ar floodplain crossed
Existing Utilities		Green	Low density of existing utilities
Hazardous/Permitted Crossings		Green	No hazardous/permitted crossir
Surface and Street Impacts	Ipacts	Green	40 LF of open-cut in gravel road open-cut in paved road
Traffic Impacts		Green	300 LF of low, 80 LF of medium impacts, traffic impact score of
Water Storage Reservoirs Impacts	voirs	Green	No impacts expected
Construction Duration and Relative Constructability	ו and and	Green	190 days of construction
Required Trenchless Crossing		Green	1 HWY (HWY 14), 5 County Rc 84, CR-80), 620 LF total trench
Development Pressure	ſe	Red	8740 LF of near-term developm
Operation and Maintenance Access		Red	Difficult access, does not parall
O&M Requirements		Red	10 ARV and BO pairs
Natural Resources Impacts	pacts	Red	550 LF in natural areas

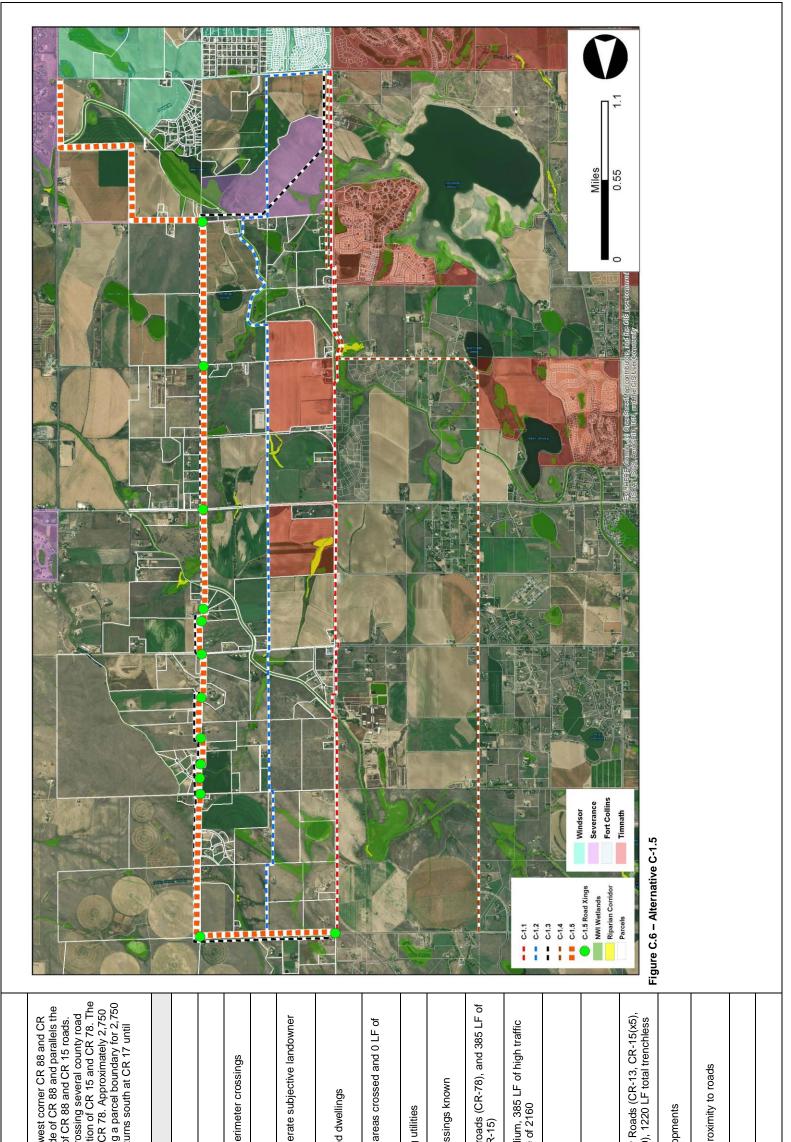


Alternative Name	с С		
Alternative Name Location & Description	County Line County Line and runs ea to the inters parallels CF and CR 78. Approximat southwest a between CR	y Line Atterna ins east parall the south side intersection of als CR 15 until als CR 15 until als CR 15 until vest and bised west and bised R 40.	County Line Alternative C-1.3 begins at the intersecti and runs east paralleling the south side of CR 52. Th 13 on the south side of CR 88 and parallels the south to the intersection of CR 88 and CR 15. The alignme parallels CR 15 until reaching the northwest corner o and CR 78. The alignment then turns west along the Approximately 2,440 feet west of the intersection the southwest and bisects a parcel east of CR 13 until a between CR 78 and CR 76 along CR 13, ending at th and CR 40.
Criteria		Ranking	Comments
Capital Cost		Red	\$ 22,054,000
Conduit Length		Red	7.6 miles, 40,200 feet
Easement Difficulty		Red	35 parcels crossed, 1 non-perir
Right-of-Way Impact		Red	1200 LF in ROW
Land Owner Impact		Red	17 driveway crossings, modera impacts
Proximity to Occupied Dwellings	п	bed	Within 100-feet of 5 occupied d
Environmental Impacts Floodplain Crossings	ts and	Green	900 LF of wetlands/riparian are floodplain crossed
Existing Utilities		vellow	Moderate density of existing uti
Hazardous/Permitted Crossings		Green	No hazardous/permitted crossi
Surface and Street Impacts	npacts	Red	40 LF of open-cut in gravel roa open-cut in paved roads (CR-1
Traffic Impacts		Red	640 LF of low, 40 LF of medium impacts, traffic impact score of
Water Storage Reservoirs Impacts	voirs	Green	No impacts expected
Construction Duration ar Relative Constructability	n and ility	Red	230 days of construction
Required Trenchless Crossing		Red	1 HWY (HWY 14), 9 County Rc CR-86,Sage Hill Rd., CR-80), 1
Development Pressure	re	Green	1050 LF of near-term developm
Operation and Maintenance Access		Green	Convenient access due to prox
O&M Requirements		Yellow	9 ARVs; 8 BOs
Natural Resources Impacts	npacts	Green	0 LF in natural areas

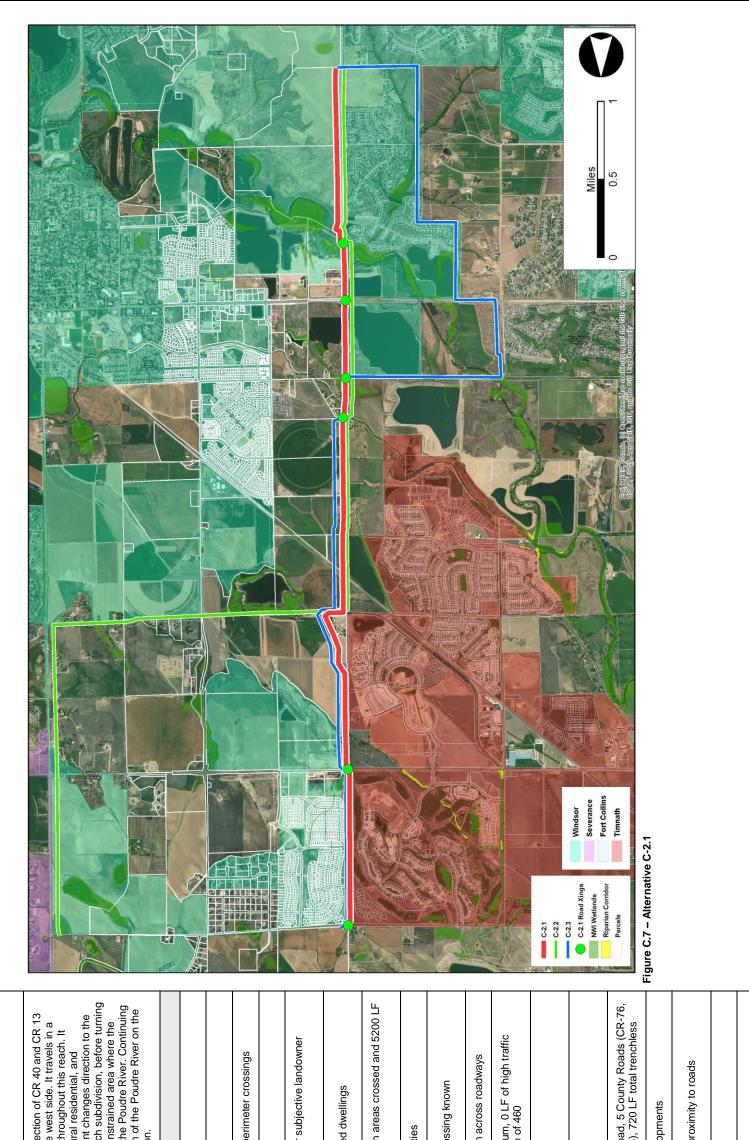


BCC	08/17/20	
-----	----------	--

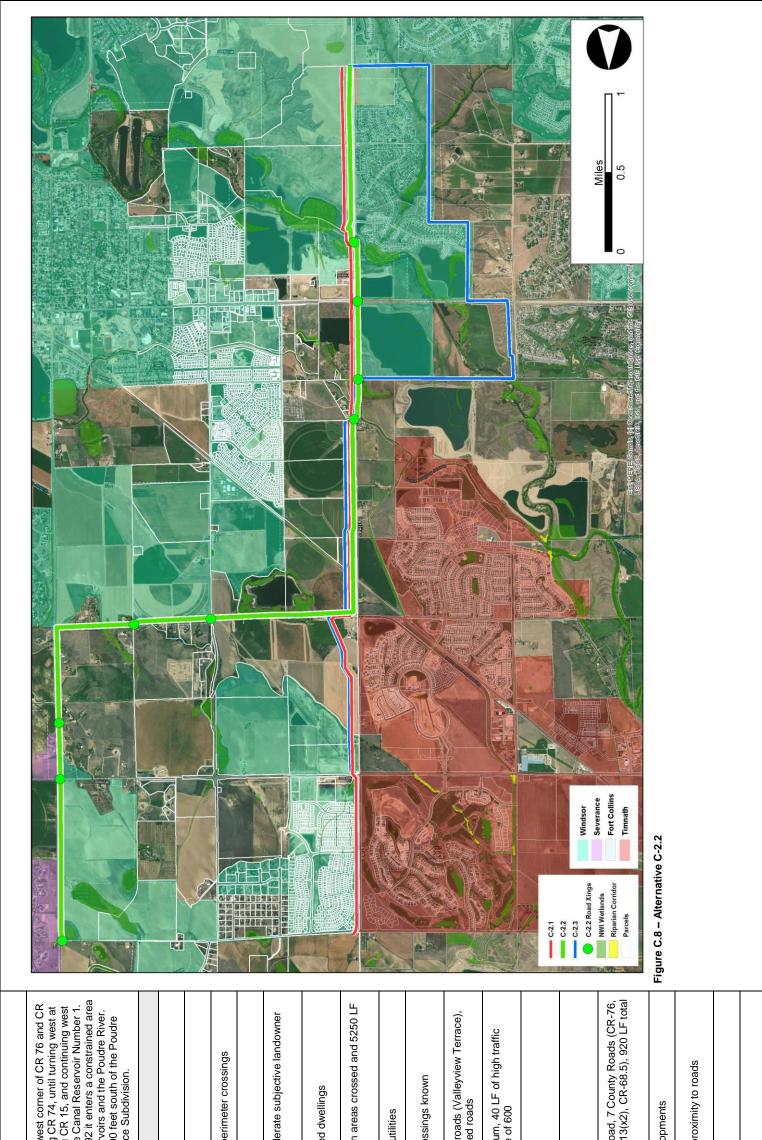
Alternative Name	C-1.4		
Alternative Location & Description	County Line intersection several cou CR 3 and E and parallel Prospeat Rel 44 to the int finally endin This alignment pipeline wou systems and systems and	/ Line Alterna l county roads and E. Prospe and E. Prospe trallels E. Pro- trandels E. Pro-	County Line Alternative C-1.4 It begins at the southwe intersection of CR 52 and C-1.4 It begins at the southwe serveral county roads until reaching the northwest correseveral county roads until reaching the northwest correspect Road, around a small portio prospect Road turns into CR 44, the alignment contin finally ending at the intersection of CR 41 and CR 13. The alignment finally ending at the intersection of CR 43 and CR 13. The alignment conting proposed NISP Participant water treatment plant bein proposed NISP Participant water treatment plant additional pipeline parallel to the propipeline would be needed creating complications in cystems and significantly increasing the length of the alignment less favorable and hydraulically inferior that alignment less favorable and hydr
Criteria		Ranking	Comments
Capital Cost			
Conduit Length			
Easement Difficulty			
Right-of-Way Impact			
Land Owner Impact			
Proximity to Occupied Dwellings	73		
Environmental Impacts and Floodplain Crossings	ts and		
Existing Utilities			
Hazardous/Permitted Crossings			
Surface and Street Impacts	Ipacts		
Traffic Impacts			
Water Storage Reservoirs Impacts	voirs		
Construction Duration and Relative Constructability	n and llity		
Required Trenchless Crossing			
Development Pressure	e		
Operation and Maintenance Access			
O&M Requirements			
Natural Resources Impacts	pacts		



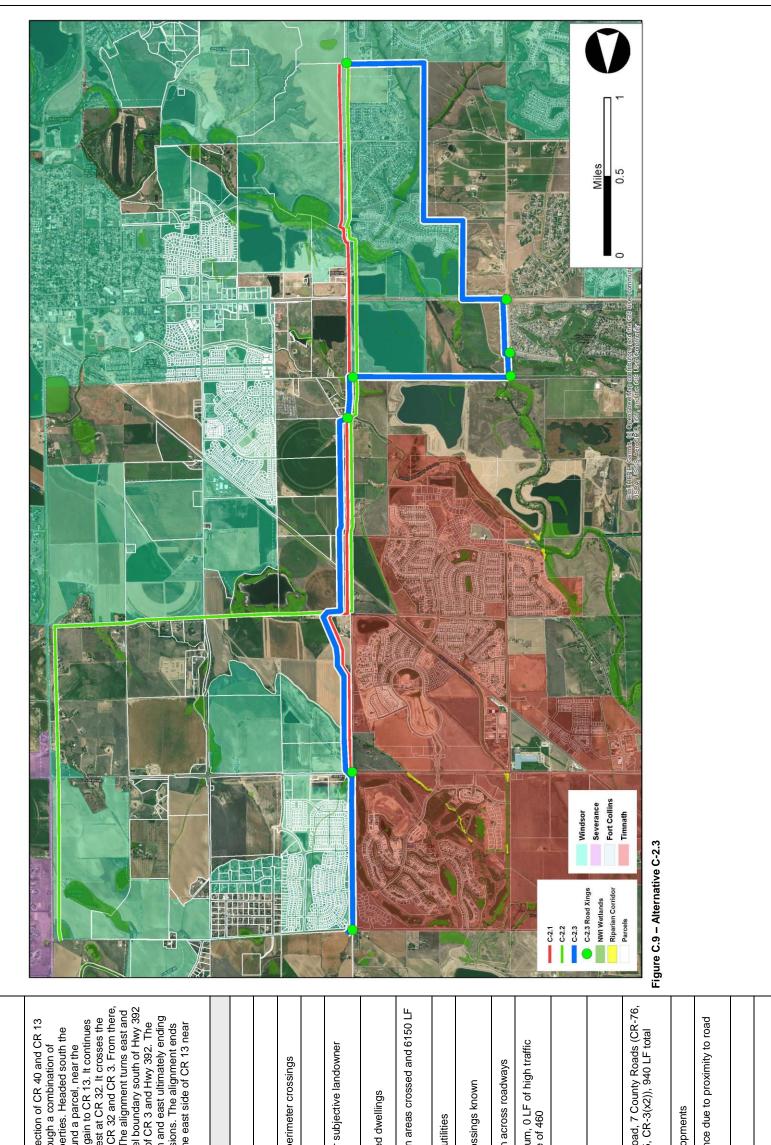
Alternative Name	C-1.5		
Alternative Location & Description	Count 13. Th 3. Th 3. Th 3. Th 3. Count 13. The all 3. Th 3.	/ Line Alterna e alignment c side of CR 88 ignment turns ignment turns eaching the no ent then turns est of CR 17 t sifore turning e at the CR 76	County Line Alternative C-1.5 begins at the southwes 13. The alignment crosses CR 13 on the south side c south side of CR 88 eastward to the intersection of C The alignment turns south and parallels CR 15, cross until reaching the northwest corner of the intersection alignment then turns east along the south side of CR feet west of CR 17 the alignment turns south along a feet before turning east to CR 17. The alignment turn ending at the CR 76.
Criteria		Ranking	Comments
Capital Cost		Red	\$ 23,124,000
Conduit Length		Red	8.1 miles, 42,500 feet
Easement Difficulty		Red	40 parcels crossed, 0 non-perir
Right-of-Way Impact		Red	1100 LF in ROW
Land Owner Impact		Red	17 driveway crossings, modera impacts
Proximity to Occupied Dwellings	R	Red	Within 100-feet of 5 occupied d
Environmental Impacts and Floodplain Crossings	ts and	Green	870 LF of wetlands/riparian are floodplain crossed
Existing Utilities		Yellow	Moderate density of existing uti
Hazardous/Permitted Crossings		Green	No hazardous/permitted crossii
Surface and Street Impacts	npacts	Red	40 LF of open-cut in gravel road open-cut in paved road
Traffic Impacts		Red	640 LF of low, 40 LF of medium impacts, traffic impact score of
Water Storage Reservoirs Impacts	voirs	Green	No impacts expected
Construction Duration ar Relative Constructability	n and llity	Red	240 days of construction
Required Trenchless Crossing		Red	1 HWY (HWY 14), 9 County Rc CR-86,Sage Hill Rd., CR-80), 1
Development Pressure	ſe	Green	1050 LF of near-term developm
Operation and Maintenance Access		Green	Convenient access due to proxi
O&M Requirements		Red	10 ARVs; 9 BOs
Natural Resources Impacts	Ipacts	Green	0 LF in natural areas



Alternative Name	C-2.1		
Alternative Location & Description	Countra and ru southe travers southe west a alignm south south	y Line Alternat in south para any direction c ses through a. fision propertie fision propertie diain to CR 13 ment traverses the alignment tide of CR 13 n	County Line Alternative C-2.1 begins at the intersecti and runs south paralleling CR 13 beginning on the w southerly direction crossing CR 13 several times thro traverses through a combination of agricultural, rural subdivision properties. Headed south the alignment of southeast around a parcel, mear the Timnath Ranch west again to CR 13. Near Hwy 392 it enters a consta alignment traverses passed three reservoirs and the south the alignment ends roughly 5,600 feet south of east side of CR 13 near the Raindance Subdivision.
Criteria		Ranking	Comments
Capital Cost		Green	\$16,275,000
Conduit Length		Green	5.7 miles, 30,100 feet
Easement Difficulty		Green	19 parcels crossed, 1 non-peri
Right-of-Way Impact		Yellow	650 LF in ROW
Land Owner Impact		Green	3 driveway crossings, minor su impacts
Proximity to Occupied Dwellings	-	Green	Within 100-feet of 3 occupied c
Environmental Impacts Floodplain Crossings	ts and	Green	1410 LF of wetlands/riparian al of floodplain crossed
Existing Utilities		Red	High density of existing utilities
Hazardous/Permitted Crossings		Green	No hazardous/permitted crossi
Surface and Street Impacts	Ipacts	Green	No open trench construction ac
Traffic Impacts		Green	460 LF of low, 0 LF of medium impacts, traffic impact score of
Water Storage Reservoirs Impacts	voirs	Green	No impacts expected
Construction Duration and Relative Constructability	i and lity	Green	180 days of construction
Required Trenchless Crossing		Green	1 HWY (HWY 392), 1 Railroad CR-74, CR-13(x2), CR 68.5), 7
Development Pressure	ė	Red	7290 LF of near-term developn
Operation and Maintenance Access		Green	Convenient access due to prox
O&M Requirements		Green	8 ARVs; 7 BOs
Natural Resources Impacts	pacts	Green	200 LF in natural areas



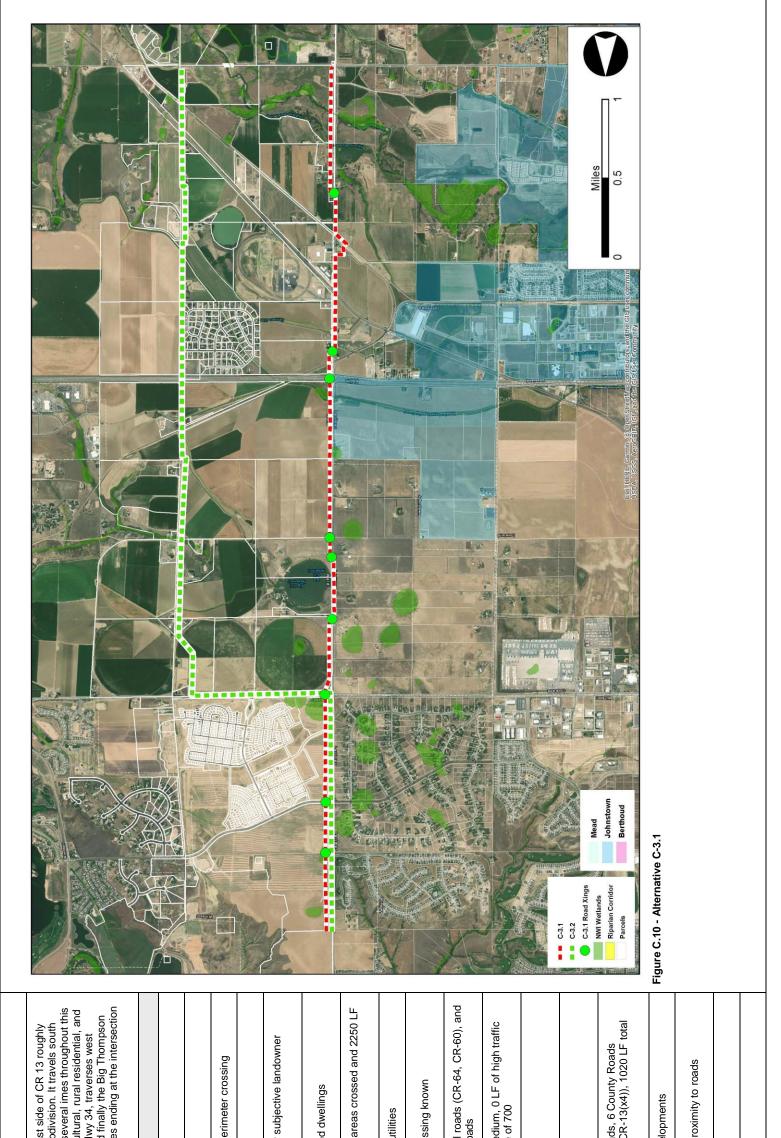
Alternative Name	C-2.2		
Alternative Location & Description	Count 17. Th 17. Th CR 72 CR 72 throug throug where Contin River (/ Line Alternat e alignment p; The alignment h agricultural i ignment turns the alignment the east sic 	County Line Alternative C-2.2 begins at the northwes 17. The alignment parallels CR 17 south, crossing CI CR 72. The alignment parallels the road, crossing CF through agricultural fields to the north side of Lake C: The alignment turns south at CR 13. Near Hwy 392 it where the alignment traverses passed three reservoi Continuing south the alignment ends roughly 5,600 ft River on the east side of CR 13 near the Raindance it
Criteria		Ranking	Comments
Capital Cost		Red	\$ 21,111,000
Conduit Length		Red	7.4 miles, 39,200 feet
Easement Difficulty		Red	34 parcels crossed, 1 non-peri
Right-of-Way Impact		Red	780 LF in ROW
Land Owner Impact		Red	16 driveway crossings, modera impacts
Proximity to Occupied Dwellings	H	Green	Within 100-feet of 3 occupied c
Environmental Impacts Floodplain Crossings	is and	Red	3125 LF of wetlands/riparian al of floodplain crossed
Existing Utilities		Yellow	Medium density of existing utili
Hazardous/Permitted Crossings		Green	No hazardous/permitted crossi
Surface and Street Impacts	ipacts	Red	40 LF of open-cut in gravel roa and 0 LF of open-cut in paved
Traffic Impacts		Red	520 LF of low, 0 LF of medium impacts, traffic impact score of
Water Storage Reservoirs Impacts	/oirs	Green	No impacts expected
Construction Duration and Relative Constructability	lity	Red	230 days of construction
Required Trenchless Crossing		Red	1 HWY (HWY 392), 1 Railroad CR-74, CR-72, CR-15, CR-13(trenchless
Development Pressure	e	Yellow	5500 LF of near-term developn
Operation and Maintenance Access		Green	Convenient access due to prox
O&M Requirements		Yellow	13 ARV and BO pairs
Natural Resources Impacts	pacts	Green	200 LF in natural areas



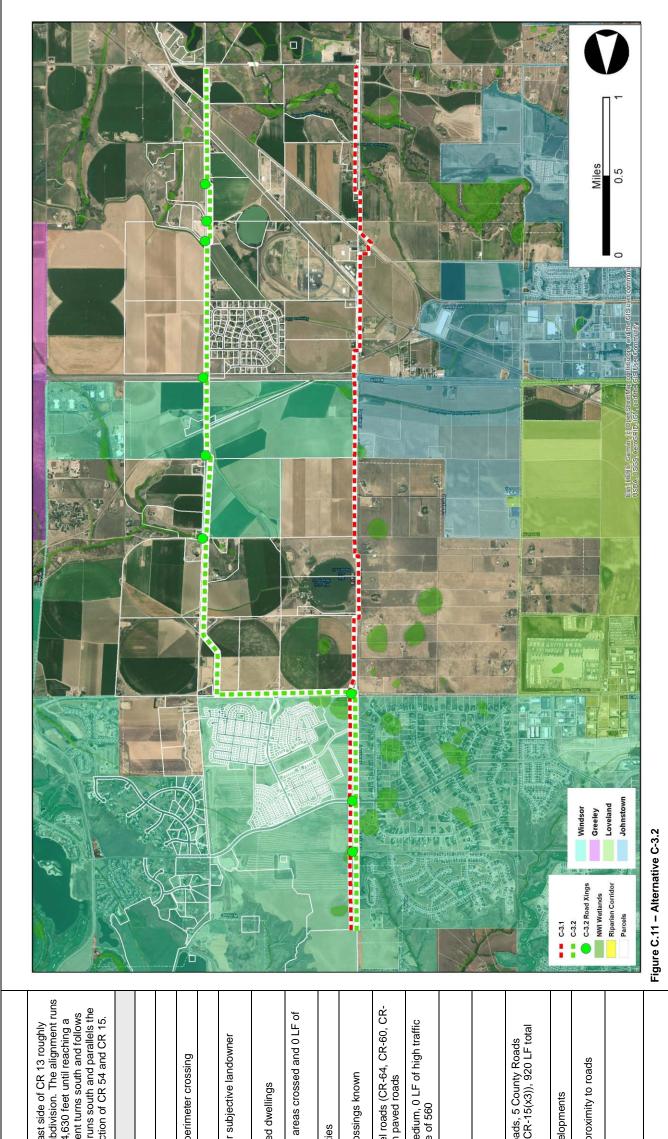
Alternative Name	C-2.3		
Alternative Location & Description	Count and ru agricu alignm alignm paralle paralle up bet roughl	County Line Alternative C-2 and runs south paralleling C agricultural, rural residentia alignment changes direction Timnath Ranch subdivision travelling in a southerly dire Poudre River and continues the alignment turns south te parallels the highway until it approximately 1,390 feet es alignment follows several p up between Bison Ridge an roughly 5,600 feet south of the Raindance Subdivision.	County Line Alternative C-2.3 begins at the intersection and runs south paraleling CR 13. It traverses through agricultural, rural residential, and subdivision properti- alignment changes direction to the southeast around Timmath Ranch subdivision, before turning west a prover River and continues to the intersection of CR prouder River and continues to the intersection of CR alignment turns south to CR 3 and Hwy 392. The parallels the highway until it turns south at a parcel bc approximately 1,390 feet east of the intersection of CI alignment follows several parcel boundaries south an up between Bison Ridge and High Pointe subdivision- roughly 5,600 feet south of the Poudre River on the e the Raindance Subdivision.
Criteria		Ranking	Comments
Capital Cost		Red	\$ 21,932,000
Conduit Length		Red	7.8 miles, 40,900 feet
Easement Difficulty		Red	35 parcels crossed, 1 non-perin
Right-of-Way Impact		Green	600 LF in ROW
Land Owner Impact		Green	4 driveway crossings, minor sub impacts
Proximity to Occupied Dwellings	73	Green	Within 100-feet of 3 occupied d
Environmental Impacts Floodplain Crossings	ts and	Green	1630 LF of wetlands/riparian ar of floodplain crossed
Existing Utilities		Yellow	Medium density of existing utilit
Hazardous/Permitted Crossings		Green	No hazardous/permitted crossir
Surface and Street Impacts	npacts	Green	No open trench construction ac
Traffic Impacts		Green	460 LF of Iow, 0 LF of medium, impacts, traffic impact score of
Water Storage Reservoirs Impacts	voirs	Green	No impacts expected
Construction Duration and Relative Constructability	and ו lity	Red	230 days of construction
Required Trenchless Crossing		Red	1 HWY (HWY 392), 1 Railroad CR-74, CR-13(x2), CR-68.5, CF trenchless
Development Pressure	ſe	Green	1790 LF of near-term developm
Operation and Maintenance Access		Yellow	Moderate access convenience the majority of alignment
O&M Requirements		Red	16 ARVs; 15 BOs

600 LF in natural areas

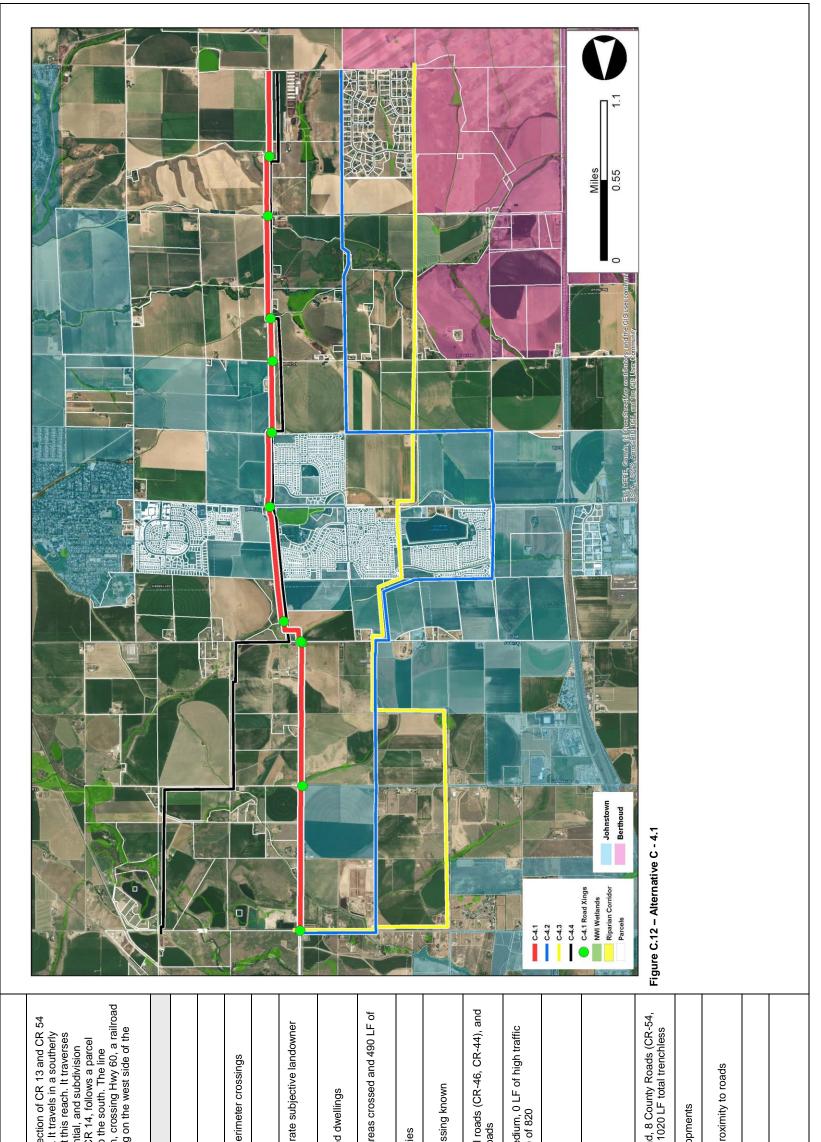
Natural Resources Impacts Red



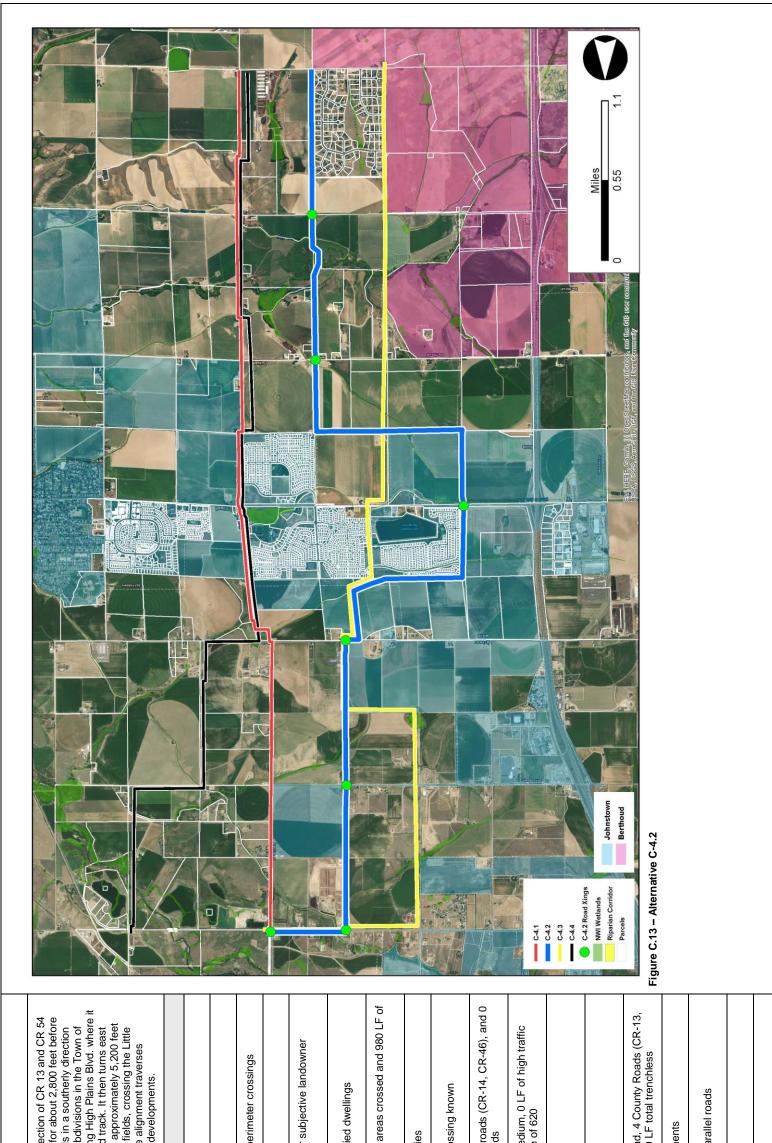
Alternative Name	C-3.1		
Alternative Location & Description	County 2,600 ft paralleli reach. I subdivis around River. S of CR 5	/ Line Alternat feet north of C ling the east s It traverses th ision propertie a parcel, cro South of the r 54 and CR 13	County Line Alternative C-3.1 begins along the east s 2,600 feet north of CR 64, near the Raindance subdiv paralleling the east side of CR 13 and crossing it sev reach. It traverses through a combination of agricultu subdivision properties. Heading south it crosses Hwy around a parcel, crosses three railroad tracks, and fir River. South of the railroad tracks the line continues of CR 54 and CR 13.
Criteria		Ranking	Comments
Capital Cost		Green	\$ 16,998,000
Conduit Length		Green	5.7 miles, 30,100 feet
Easement Difficulty		Red	29 parcels crossed, 1 non-perir
Right-of-Way Impact		Green	900 LF in ROW
Land Owner Impact		Yellow	6 driveway crossings, minor su impacts
Proximity to Occupied Dwellings	Б	Green	Within 100-feet of 2 occupied d
Environmental Impacts Floodplain Crossings	ts and	Red	740 LF of wetlands/riparian are of floodplain crossed
Existing Utilities		Yellow	Medium density of existing utilit
Hazardous/Permitted Crossings		Green	No hazardous/permitted crossi
Surface and Street Impacts	npacts	Green	120 LF of open-cut in gravel ro 0 LF of open-cut in paved road
Traffic Impacts		Red	460 LF of low, 120 LF of mediu impacts, traffic impact score of
Water Storage Reservoirs Impacts	voirs	Green	No impacts expected
Construction Duration and Relative Constructability	n and ility	Green	180 days of construction
Required Trenchless Crossing		Red	1 HWY (HWY 34), 3 Railroads, (Steeplechase Dr., CR-62, CR- trenchless
Development Pressure	le	Yellow	10370 LF of near-term develop
Operation and Maintenance Access		Green	Convenient access due to prox
O&M Requirements		Green	6 ARV and BO pairs
Natural Resources Impacts	Ipacts	Red	280 LF in natural areas



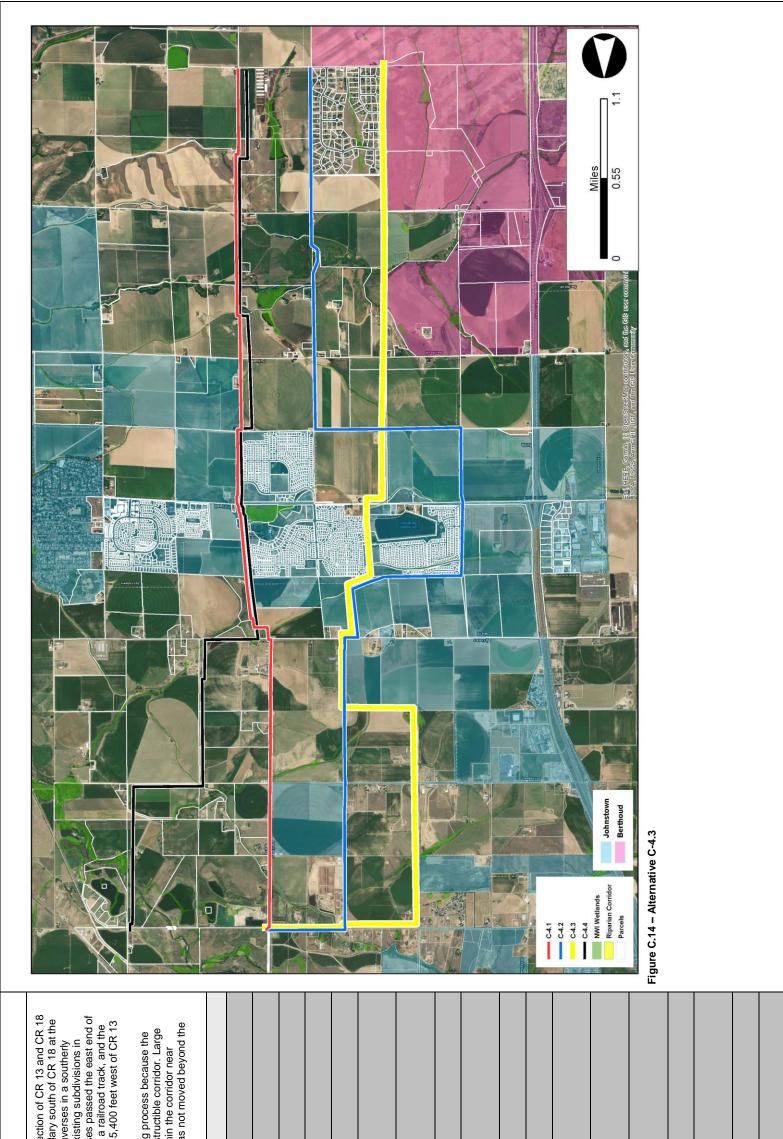
Alternative Name	C-3.2		
Alternative Location & Description	County 2,600 south parcel the pa road, g	y Line Alternat feet north of C and turns east boundary whe rcel boundary rossing Hwy 3	County Line Alternative C-3.2 begins along the east s 2,600 feet north of CR 64, near the Raindance subdive south and turns east at CR 62 for approximately 4,63 parcel boundary where it turns south. The alignment the parcel boundary until reaching CR 15. It then runnoad, crossing Hwy 34, until ending at the intersection
Criteria		Ranking	Comments
Capital Cost		Red	\$ 18,922,000
Conduit Length		Red	6.5 miles, 34,100 feet
Easement Difficulty		Green	24 parcels crossed, 1 non-perii
Right-of-Way Impact		Red	1020 LF in ROW
Land Owner Impact		Green	4 driveway crossings, minor su impacts
Proximity to Occupied Dwellings	F	Green	Within 100-feet of 1 occupied c
Environmental Impacts and Floodplain Crossings	ts and	Green	500 LF of wetlands/riparian are floodplain crossed
Existing Utilities		Green	Low density of existing utilities
Hazardous/Permitted Crossings		Green	No hazardous/permitted crossi
Surface and Street Impacts	npacts	Red	160 LF of open-cut in gravel ro 56), and 0 LF of open-cut in pa
Traffic Impacts		Green	400 LF of low, 160 LF of mediu impacts, traffic impact score of
Water Storage Reservoirs Impacts	voirs	Green	No impacts expected
Construction Duration and Relative Constructability	n and llity	Red	200 days of construction
Required Trenchless Crossing		Green	 HWY (HWY 34), 3 Railroads (Steeplechase Dr., CR-62, CR- trenchless
Development Pressure	e	Yellow	10370 LF of near-term develop
Operation and Maintenance Access		Green	Convenient access due to prox
O&M Requirements		Green	6 ARV and BO pairs
Natural Resources Impacts	Ipacts	Green	0 LF in natural areas



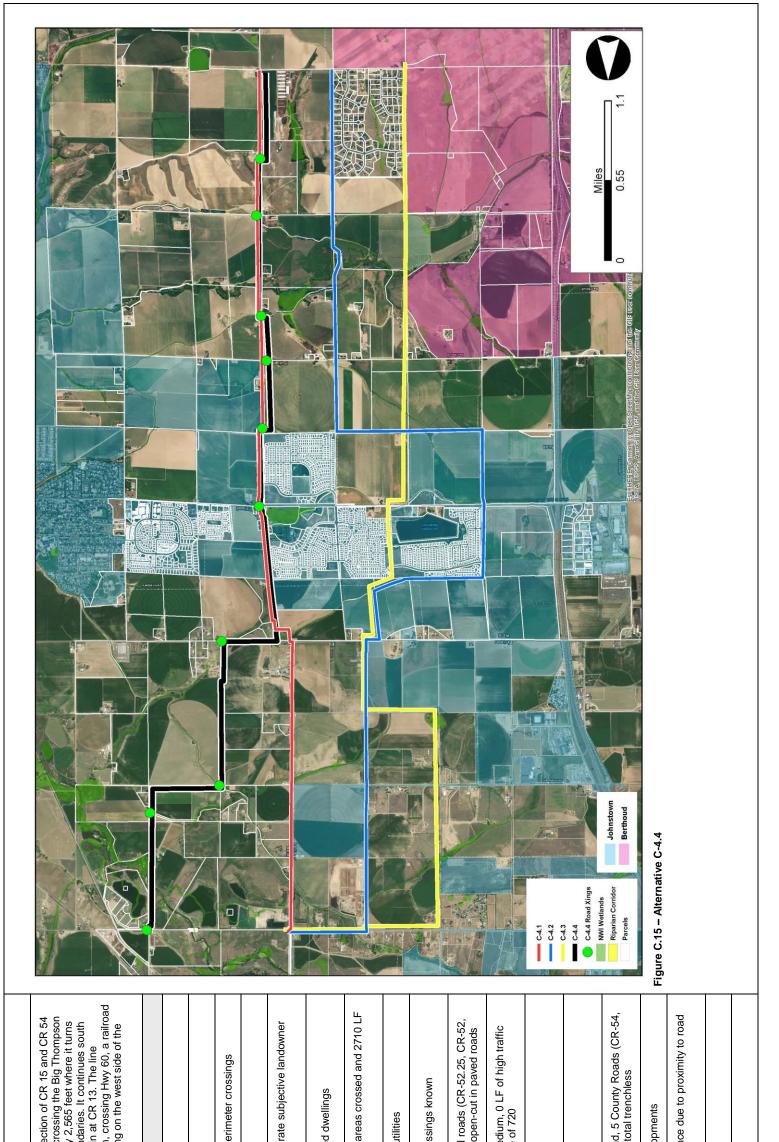
Alternative Name	C-4.1		
Alternative Location & Description	County and ru direction throug proper bound continu track, r	/ Line Alternat Ins south paral on crossing Cf h a combination ties. Headed s ary, and then ues passing th the Little Thom cotion of CR 13	County Line Alternative C-4.1 begins at the intersecti and runs south paralleling the west side of CR 13. It direction crossing CR 13 several times throughout thi through a combination of agricultural, rural residentia properties. Headed south the alignment crosses CR boundary, and then continues paralleling CR 13 to th continues passing through the Town of Johnstown, c track, the Little Thompson River, and finally ending o intersection of CR 13 and CR 42.
Criteria		Ranking	Comments
Capital Cost		Green	\$ 17,913,000
Conduit Length		Green	6.2 miles, 32,500 feet
Easement Difficulty		Green	23 parcels crossed, 0 non-perir
Right-of-Way Impact		Red	760 LF in ROW
Land Owner Impact		Red	5 driveway crossings, moderat impacts
Proximity to Occupied Dwellings	q	Green	Within 100-feet of 5 occupied d
Environmental Impacts Floodplain Crossings	s and	Green	90 LF of wetlands/riparian area floodplain crossed
Existing Utilities		Red	High density of existing utilities
Hazardous/Permitted Crossings	T	Green	No hazardous/permitted crossi
Surface and Street Impacts		Yellow	120 LF of open-cut in gravel ro 0 LF of open-cut in paved road
Traffic Impacts		Red	580 LF of low, 240 LF of mediu impacts, traffic impact score of
Water Storage Reservoirs Impacts		Green	No impacts expected
Construction Duration and Relative Constructability	Ľ.	Green	190 days of construction
Required Trenchless Crossing		Red	1 HWY (HWY 60), 1 Railroad, 8 CR-52, CR-13(x5), CR-50), 10
Development Pressure	Ire	Red	5250 LF of near-term developn
Operation and Maintenance Access		Green	Convenient access due to prox
O&M Requirements		Green	5 ARVs; 4 BOs
Natural Resources Impacts		Green	350 LF in natural areas



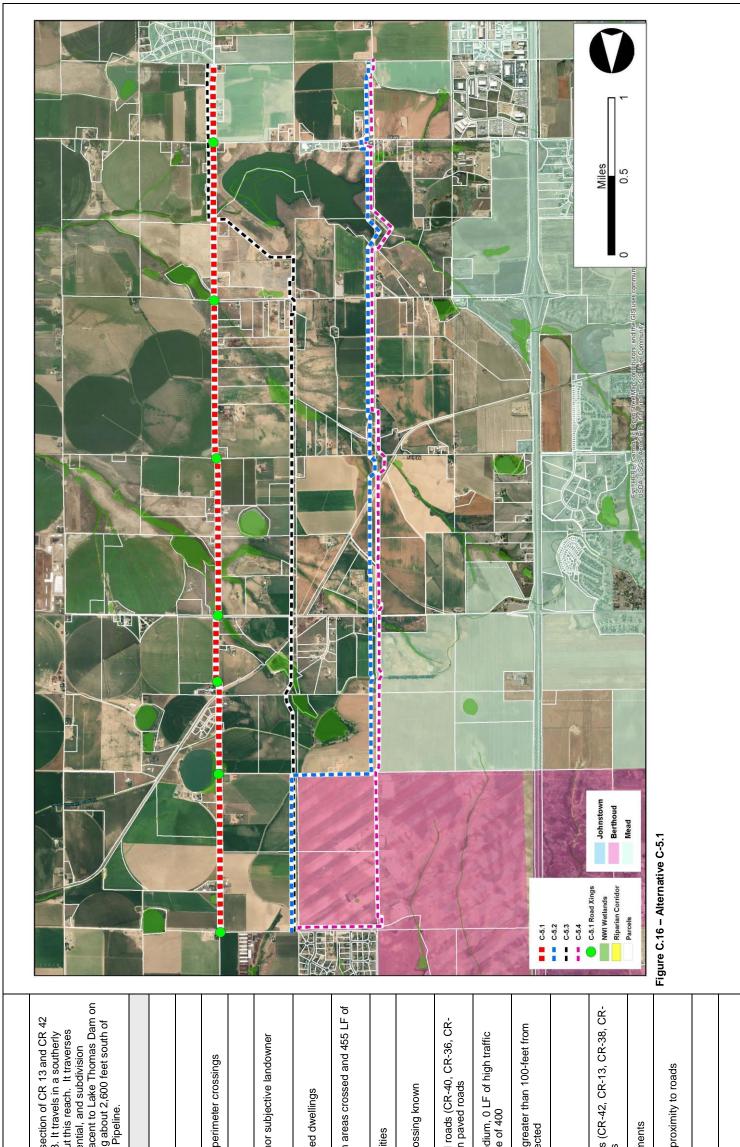
Alternative Name	C-4.2		
Alternative Location & Description	Count and rurning Johnst turns s turns s paralle before agricu	County Line Alternative C county Line Alternative C and runs west paralleling turning south through an a along parcel boundaries u Johnstown. The alignmen turns south crossing Hwy paralleling the south side before continuing south thr Thompson River, and fina agricultural fields as well a	County Line Alternative C-4.2 begins at the intersecti and runs west paralleling the north side of CR 54 for turning south through an agricultural field. It travels ir along parcel boundaries until reaching existing subdi Johnstown. The alignment turns west until reaching F turns south crossing Hwy 60 followed by a railroad tra paralleling the south side of the railroad tracks for ap before continuing south through more agricultural fiel Thompson River, and finally ending at CR 42. The ail agricultural fields as well as existing and planned dev
Criteria		Ranking	Comments
Capital Cost		Red	\$ 21,565,000
Conduit Length		Red	8.3 miles, 43,800 feet
Easement Difficulty		Red	33 parcels crossed, 0 non-perir
Right-of-Way Impact		Green	480 LF in ROW
Land Owner Impact		Green	4 driveway crossings, minor su impacts
Proximity to Occupied Dwellings	H	Red	Within 100-feet of 19 occupied
Environmental Impacts Floodplain Crossings	ls and	Yellow	310 LF of wetlands/riparian are floodplain crossed
Existing Utilities		Green	Low density of existing utilities
Hazardous/Permitted Crossings		Green	No hazardous/permitted crossi
Surface and Street Impacts	pacts	Green	80 LF of open-cut in gravel roa LF of open-cut in paved roads
Traffic Impacts		Green	460 LF of low, 160 LF of mediu impacts, traffic impact score of
Water Storage Reservoirs Impacts	/oirs	Green	No impacts expected
Construction Duration and Relative Constructability	lity	Yellow	210 days of construction
Required Trenchless Crossing		Green	1 HWY (HWY 60), 1 Railroad, 4 CR-18, CR-16, CR-44), 620 LF
Development Pressure	e	Green	0 LF of near-term development
Operation and Maintenance Access		Red	Difficult access, does not parall
O&M Requirements		Red	9 ARV and BO pairs
Natural Resources Impacts	pacts	Green	410 LF in natural areas



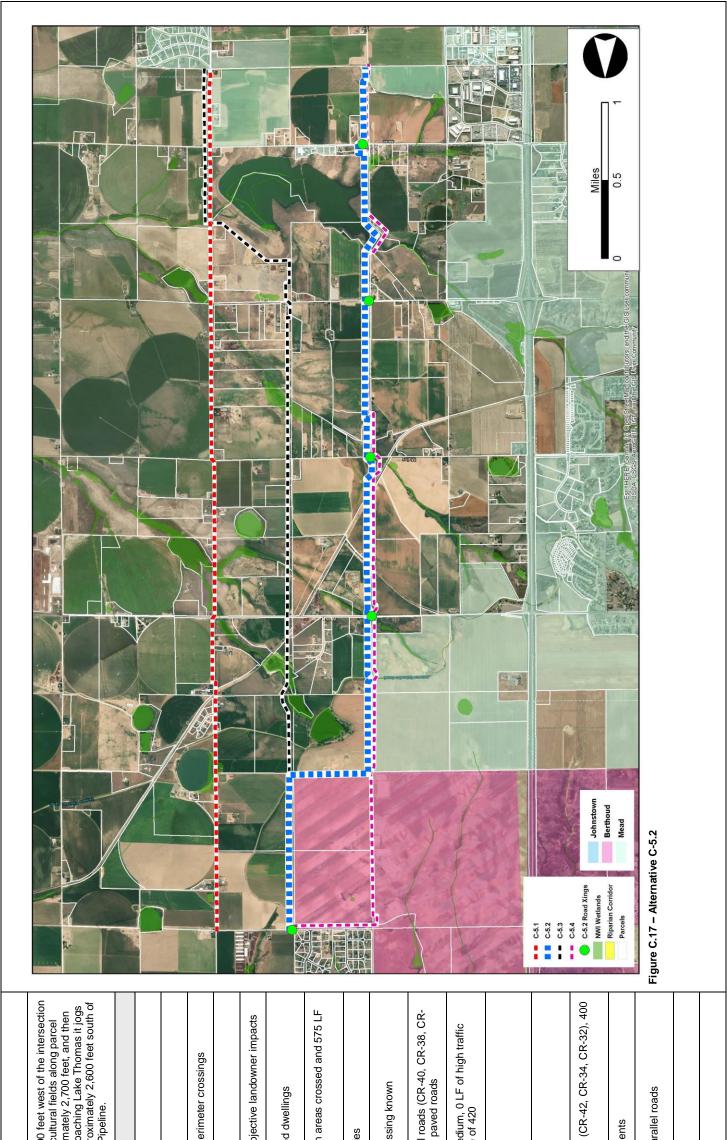
Alternative Name	C-4.3		
Alternative Location & Description	County Line and runs wintersection direction ald Johnstown Johnstown Little Thom	Line Alternat rs west parall ction of CR 11 along parce own. The alig own Reservoi hompson Riv	County Line Alternative C-4.3 begins at the intersect and runs west paralleling CR 18 to a parcel boundar intersection of CR 18 and CR 3. The alignment trave direction along parcel boundaries until reaching exist Johnstown. The alignment turns south and traverses Johnstown Reservoir, across Hwy 60, followed by a Little Thompson River, until ending approximately 5, and CR 42.
	This ali corrido amoun Johnstd initial s	This alignment was remo corridor east of Johnstow amounts of buried debris Johnstown Reservoir. Th initial screening process.	This alignment was removed in the initial screening p corridor east of Johnstown Reservoir is not a constru amounts of buried debris have been indicated within Johnstown Reservoir. Therefore the alternative was initial screening process.
Criteria		Ranking	Comments
Capital Cost			
Conduit Length			
Easement Difficulty			
Right-of-Way Impact			
Land Owner Impact			
Proximity to Occupied Dwellings	π		
Environmental Impacts and Floodplain Crossings	ts and		
Existing Utilities			
Hazardous/Permitted Crossings	_		
Surface and Street Impacts	npacts		
Traffic Impacts			
Water Storage Reservoirs Impacts	voirs		
Construction Duration and Relative Constructability	n and ility		
Required Trenchless Crossing			
Development Pressure	re		
Operation and Maintenance Access			
O&M Requirements			
Natural Resources Impacts	npacts		



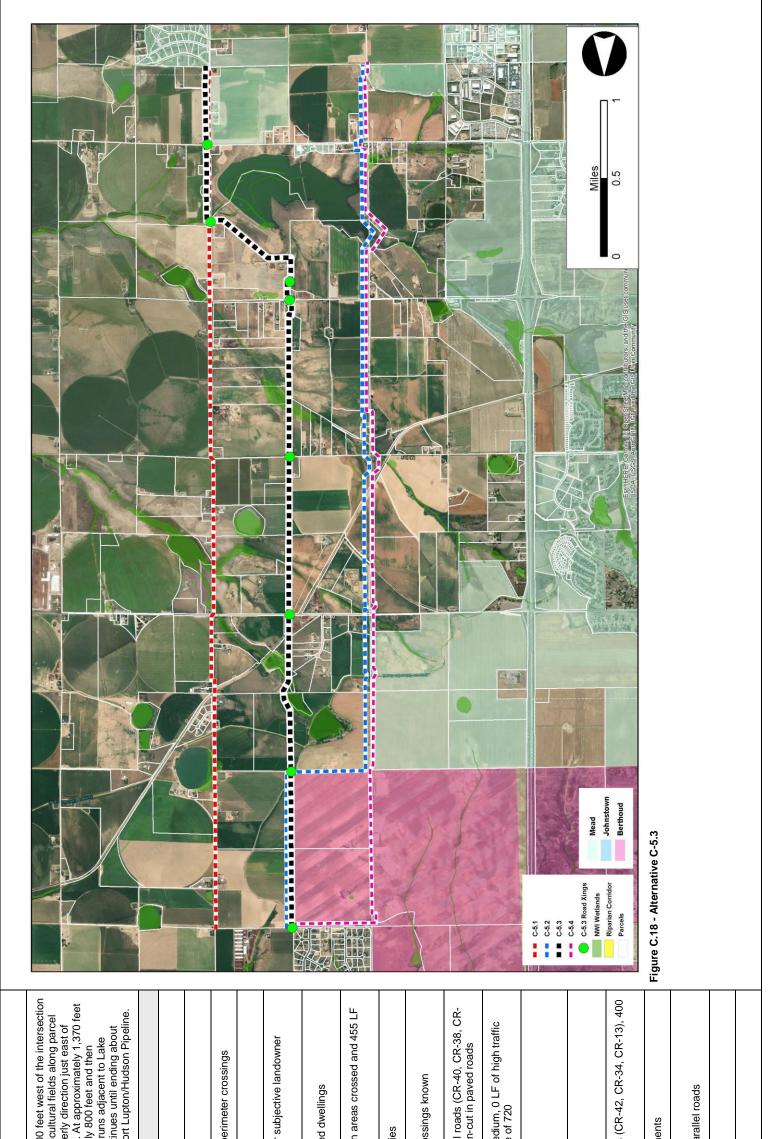
Alternative Name	C-4.4		
Atternative Location & Description	Countru and ru River u south before continu track, interse	v Line Alternations south para ins south para intil turning wart turning west turning west turne Little Thoi setion of CR 1;	County Line Alternative C-4.4 begins at the intersecti and runs south paralleling CR 15. It heads south cros River until turning west at CR 52 for approximately 2, south through agricultural fields along parcel bounda before turning west at CR 50, and then south again a continues passing through the Town of Johnstown, c track, The Little Thompson River, and finally ending c intersection of CR 13 and CR 42.
Criteria		Ranking	Comments
Capital Cost		Yellow	\$ 19,646,000
Conduit Length		Yellow	7.0 miles, 36,900 feet
Easement Difficulty		Green	23 parcels crossed, 0 non-peri
Right-of-Way Impact		Yellow	660 LF in ROW
Land Owner Impact		Red	5 driveway crossings, moderat impacts
Proximity to Occupied Dwellings	7	Green	Within 100-feet of 3 occupied c
Environmental Impacts and Floodplain Crossings	ts and	Red	410 LF of wetlands/riparian are of floodplain crossed
Existing Utilities		Yellow	Medium density of existing utili
Hazardous/Permitted Crossings		Green	No hazardous/permitted crossi
Surface and Street Impacts	Ipacts	Red	160 LF of open-cut in gravel ro CR-46,CR-44), and 0 LF of ope
Traffic Impacts		Yellow	400 LF of low, 320 LF of mediu impacts, traffic impact score of
Water Storage Reservoirs Impacts	voirs	Green	No impacts expected
Construction Duration and Relative Constructability	ו and lity	Red	220 days of construction
Required Trenchless Crossing		Yellow	1 HWY (HWY 60), 1 Railroad, (CR-50, CR-13(x3)), 720 LF tot
Development Pressure	e	Red	5250 LF of near-term developn
Operation and Maintenance Access		Yellow	Moderate access convenience the majority of alignment
O&M Requirements		Green	6 ARV and 5 BO pairs
Natural Resources Impacts	pacts	Red	750 LF in natural areas



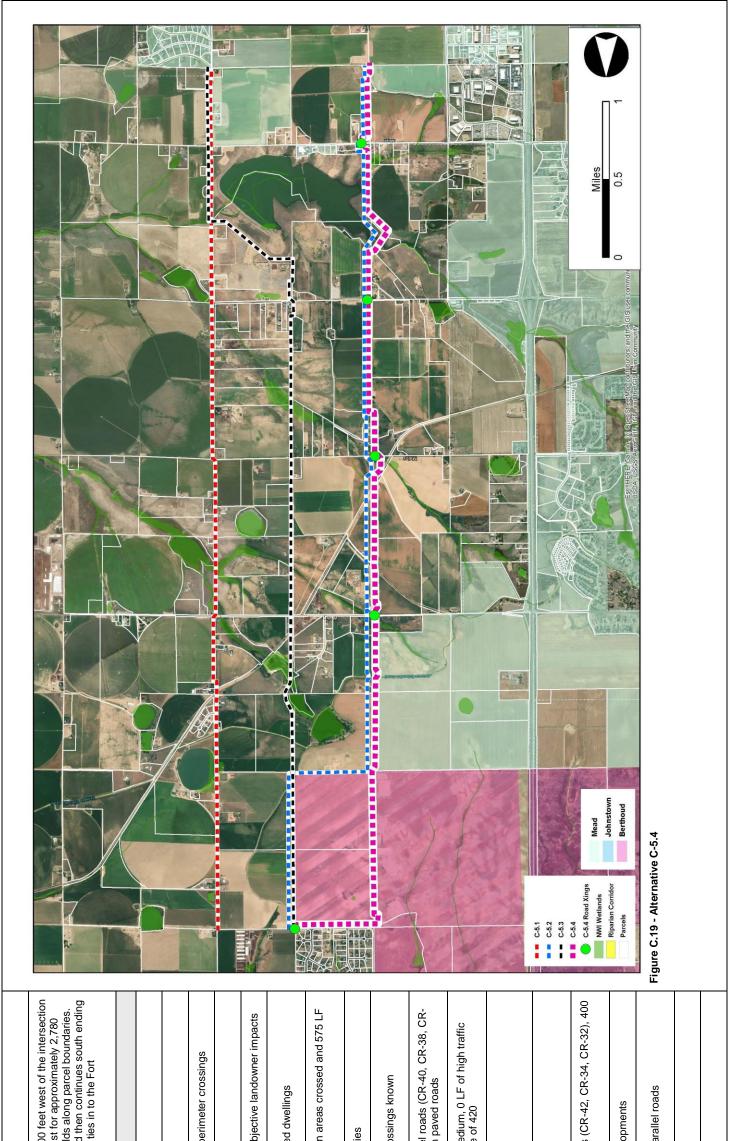
Alternative Name	C-5.1		
Alternative Location & Description	Count and ru directi throug propei the ea CR 32	y Line Alternat ins south paral on crossing CI h a combinati ties. Headed s st side of CR where it ties i	County Line Alternative C-5.1 begins at the intersect and runs south paralleling the west side of CR 13. It direction crossing CR 13 several times throughout th through a combination of agricultural, rural residentia properties. Headed south the alignment runs adjacen the east side of CR 13, and continues until ending at CR 32 where it ties in to the Fort Lupton/Hudson Pip
Criteria		Ranking	Comments
Capital Cost		Green	\$ 15,493,000
Conduit Length		Green	5.6 miles, 29,400 feet
Easement Difficulty		Green	23 parcels crossed, 0 non-peri
Right-of-Way Impact		Red	540 LF in ROW
Land Owner Impact		Red	12 driveway crossings, minor s impacts
Proximity to Occupied Dwellings	Ð	Red	Within 100-feet of 9 occupied o
Environmental Impacts Floodplain Crossings	ts and	Green	600 LF of wetlands/riparian are floodplain crossed
Existing Utilities		wolləY	High density of existing utilities
Hazardous/Permitted Crossings		Green	No hazardous/permitted crossi
Surface and Street Impacts	npacts	Green	80 LF of open-cut in gravel roa 32), and 0 LF of open-cut in pa
Traffic Impacts		Green	240 LF of low, 80 LF of mediur impacts, traffic impact score of
Water Storage Reservoirs Impacts	voirs	Green	Toe of Lake Thomas Dam grea alignment; no impacts expecte
Construction Duration and Relative Constructability	n and ility	Red	180 days of construction
Required Trenchless Crossing		Red	1 Railroad, 4 County Roads (C 34), 500 LF total trenchless
Development Pressure	re	Green	0 LF of near-term developmen
Operation and Maintenance Access		Green	Convenient access due to prov
O&M Requirements		Green	6 ARVs; 5 BOs
Natural Resources Impacts	npacts	Green	0 LF in natural areas



Alternative Name	C-5.2		
Alternative Location & Description	Count of CR bound again to the CR 32	y Line Alternal 42 and CR 13 aries until it tu south through west, and ther where it ties i	County Line Alternative C-5.2 begins roughly 2,600 f of CR 42 and CR 13. It travels south through agricult boundaries until it turns west at CR 40 for approxima again south through more agricultural fields. Approac to the west, and then continues south ending approx CR 32 where it ties in to the Fort Lupton/Hudson Pip.
Criteria		Ranking	Comments
Capital Cost		Yellow	\$ 16,275,000
Conduit Length		Red	6.3 miles, 33,000 feet
Easement Difficulty		Green	22 parcels crossed, 1 non-peri
Right-of-Way Impact		Yellow	470 LF in ROW
Land Owner Impact		Green	0 driveways crossed, no subje
Proximity to Occupied Dwellings	7	Green	Within 100-feet of 2 occupied c
Environmental Impacts and Floodplain Crossings	ts and	Red	1070 LF of wetlands/riparian a of floodplain crossed
Existing Utilities		Green	Low density of existing utilities
Hazardous/Permitted Crossings		Green	No hazardous/permitted crossi
Surface and Street Impacts	Ipacts	Yellow	120 LF of open-cut in gravel ro 36), and 0 LF of open-cut in pa
Traffic Impacts		Green	180 LF of low, 120 LF of mediu impacts, traffic impact score of
Water Storage Reservoirs Impacts	voirs	Green	No impacts expected
Construction Duration and Relative Constructability	ו and lity	Green	170 days of construction
Required Trenchless Crossing		Green	1 Railroad, 3 County Roads (C LF total trenchless
Development Pressure	e	Green	0 LF of near-term developmen
Operation and Maintenance Access		Red	Difficult access, does not paral
O&M Requirements		Red	8 ARV and BO pairs
Natural Resources Impacts	Ipacts	Green	0 LF in natural areas



Alternative Name	C-5.3		
Alternative Location & Description	County of CR bound Davis southe 2,600	ounty Line Alternative f CR 42 and CR 13. It oundaries passed CR avis Reservoir and we outh of CR 34 the aligr outheast to CR 13. He homas Dam on the ea	County Line Alternative C-5.2 begins roughly 2,600 f of CR 42 and CR 13. It travels south through agricul boundaries passed CR 40. It continues in a southerly Davis Reservoir and west of Little Gem Reservoir. At south of CR 34 the alignment turns east for roughly 8 southeast to CR 13. Headed south the alignment run Thomas Dam on the east side of CR 13, and continu 2,600 feet south of CR 32 where it ties in to the Fort 2,600 feet south of CR 32 where it ties in to the Fort
Criteria		Ranking	Comments
Capital Cost		Yellow	\$ 15,827,000
Conduit Length		Yellow	6.0 miles, 31,600 feet
Easement Difficulty		Red	34 parcels crossed, 1 non-peri
Right-of-Way Impact		Yellow	420 LF in ROW
Land Owner Impact		Yellow	5 driveway crossings, minor su impacts
Proximity to Occupied Dwellings	5	Yellow	Within 100-feet of 6 occupied c
Environmental Impacts Floodplain Crossings	ts and	Red	1290 LF of wetlands/riparian al of floodplain crossed
Existing Utilities		Green	Low density of existing utilities
Hazardous/Permitted Crossings		Green	No hazardous/permitted crossi
Surface and Street Impacts	Ipacts	Red	240 LF of open-cut in gravel ro 36,CR-32), and 0 LF of open-c
Traffic Impacts		Red	240 LF of low, 240 LF of mediu impacts, traffic impact score of
Water Storage Reservoirs Impacts	voirs	Green	No impacts expected
Construction Duration and Relative Constructability	ı and lity	Green	170 days of construction
Required Trenchless Crossing		Green	1 Railroad, 3 County Roads (C LF total trenchless
Development Pressure	e	Green	0 LF of near-term development
Operation and Maintenance Access		Red	Difficult access, does not paral
O&M Requirements		Yellow	8 ARVs; 7 BOs
Natural Resources Impacts	Ipacts	Red	900 LF in natural areas



Alternative Name	C-5.4		
Alternative Location & Description	Countrol Countrol Countrol of CR feet ar Approa	County Line Alternative (of CR 42 and CR 13. The feet and then heads sout Approaching Lake Thom approximately 2,600 feet Lupton/Hudson Pipeline.	County Line Alternative C-5.2 begins roughly 2,600 f of CR 42 and CR 13. The alignment traverses west f feet and then heads south through agricultural fields Approaching Lake Thomas it jogs to the west, and th approximately 2,600 feet south of CR 32 where it ties Lupton/Hudson Pipeline.
Criteria		Ranking	Comments
Capital Cost		Red	\$ 16,544,000
Conduit Length		Red	6.4 miles, 33,700 feet
Easement Difficulty		Yellow	26 parcels crossed, 1 non-peri
Right-of-Way Impact		Green	300 LF in ROW
Land Owner Impact		Green	0 driveways crossed, no subje
Proximity to Occupied Dwellings	R	Green	Within 100-feet of 2 occupied c
Environmental Impacts Floodplain Crossings	ts and	Red	1070 LF of wetlands/riparian al of floodplain crossed
Existing Utilities		Green	Low density of existing utilities
Hazardous/Permitted Crossings		Green	No hazardous/permitted crossi
Surface and Street Impacts	npacts	Yellow	120 LF of open-cut in gravel ro 36), and 0 LF of open-cut in pa
Traffic Impacts		Green	180 LF of Iow, 120 LF of mediu impacts, traffic impact score of
Water Storage Reservoirs Impacts	voirs	Green	No impacts expected
Construction Duration and Relative Constructability	n and llity	Green	170 days of construction
Required Trenchless Crossing		Green	1 Railroad, 3 County Roads (C LF total trenchless
Development Pressure	e	Red	8100 LF of near-term developn
Operation and Maintenance Access		Red	Difficult access, does not paral
O&M Requirements		Red	9 ARVs; 8 BOs
Natural Resources Impacts	Ipacts	Green	0 LF in natural areas

Table C.1 is a visual summary of the score given to every alternative for each criteria. Table C.2 tabulates the number of greens, yellows, and reds given to each alternative.

Conduct length Conduct			
Lepted LostConduit lengthConduit lengthImageConduit lengthImageImageImageImageImageEasement DifficultyImageImageImageImageImageRight-of-Way ImpactImageImageImageImageImageLend Owner ImpactImageImageImageImageImageLend Owner ImpactImageImageImageImageImageLend Owner ImpactImageImageImageImageImageEnvironmental ImpactsImageImageImageImageImageEnvironmental ImpactsImageImageImageImageImageEn			
Conduit lengthImage: sement bifted byImage: sement bifted byImage: sement bifted byEsement bifted byImage: sement bifted byImage: sement bifted byImage: sement bifted byEsement bifted byImage: sement bifted byImage: sement bifted byImage: sement bifted byEsement bifted byImage: sement bifted byImage: sement bifted byImage: sement byEsement bifted byImage: sement byImage: sement byImage: sement byEsement byImage: sement byImage:			
Besont DifficultyEssent DifficultyEssent DifficultyEssent DifficultyRighto-tWay ImpactImportImportImportImportRighto-tWay ImpactImportImportImportImportLand Owner ImpactImportImportImportImportLand Owner ImpactImportImportImportImportLand Owner ImpactImportImportImportImportLand Owner ImpactImportImportImportImportPorting OccupiedImportImportImportImportPorting OccupiedImportImportImportImportPorting OccupiedImportImportImportImportParadourential ImpactsImportImportImportImportParadourential ImpactsImportImportImportImportParadourential ImpactsImportImportImportImportParadourential ImpactsImportImportImportImportParadourentialImportImportImportImportParadourentialImportImportImportImportParadourentialImportImportImportImportParadourentialImportImportImportImportParadourentialImportImportImportImportParadourentialImportImportImportImportParadourentialImportImportImportImportParadourential			
Right-dWy InpactImage: black indextImage: black indextImage: black indextLand Owner ImpactsImage: black indextImage: black indextImage: black indextImage: black indextPowinky OccupiedImage: black indextImage: black indextImage: black indextImage: black indextImage: black indextPowinky OccupiedImage: black indextImage: black indextImage: black indextImage: black indextImage: black indextPowinky OccupiedImage: black indextImage: black indextImage: black indextImage: black indextImage: black indextPowinky OccupiedImage: black indextImage: black indextImage: black indextImage: black indextImage: black indextPowinky OccupiedImage: black indextImage: black indextImage: black indextImage: black indextImage: black indextPowinky OccupiedImage: black indextImage: black indextImage: black indextImage: black indextImage: black indextPowinky OccupiedImage: black indextImage: black indextImage: black indextImage: black indextImage: black indextPowinky OccupiedImage: black indextImage: black indextImage: black indextImage: black indextImage: black indextPowinky OccupiedImage: black indextImage: black indextImage: black indextImage: black indextImage: black indextPowinky OccupiedImage: black indextImage: black indextImage: black indextImage: black indextImage: black indextPowinky Occupied <td< td=""><td></td><td></td><td></td></td<>			
Iand Owner ImpactImpactImpactImpactImpactPerforming to OccupiedImpactImpactImpactImpactImpactPerforming to OccupiedImpactImpactImpactImpactImpactPerforming to OccupiedImpactImpactImpactImpactImpactPerforming to OccupiedImpactImpactImpactImpactImpactPerforming to OccupiedImpactImpactImpactImpactImpactPerforming to OccupiedImpactImpactImpactImpactImpactPerformentation andImpactImpactImpactImpactImpactPerformentation andImpactImpactImpactImpactImpactPerformentati			
Proximity o Occupied Provintity o Occupied Environmental Inpacts Environmental Inpacts Existing Utities Environmental Inpacts Events Environmental Inpacts Utafits Inpacts Environmental Inpacts			
Environmental impactsEnvironmental impactsde foodplain CrossingsExsiting UtilitiesExsiting UtilitiesExsiting UtilitiesExsiting UtilitiesExsiting UtilitiesHazardous/PermittedExsiting ProcessingsHazardous/PermittedExsiting ProcessingsUndersingsExsiting ProcessingsSurface and StreetExsiting ProcessingsSurface and StreetExsiting ProcessingsSurface and StreetExsiting ProcessingsSurface and StreetExsiting ProcessingsUnderstandExsiting ProcessingsSurface and StreetExsiting ProcessingsSurface And Street			
Existing UtilitiesExisting UtilitiesHazardous/PermittedHazardous/PermittedCossingsEventCossingsEventSurface and StreetEventSurface and StreetEventUrafic ImpactsEventUrafic Impacts<			
Hazarouv/PemitedHazarouv/PemitedHazarouv/PemitedCrossingsLossingsLossingsLossingsSurface and StreetLossingLossingLossingSurface and StreetLossingLossingLossingTaffic InpactsLossingLossingLossingVater Storage ReservoirsLossingLossingLossingWater Storage ReservoirsLossingLossingLossingVater Storage ReservoirsLossingLossingLossingSequied TrenchlessLossingLossingLossingDeveloment PressueLossingLossingLossingDeveloment PressueLossingLossingDeveloment Pressue <td></td> <td></td> <td></td>			
Burface and StreetImage: Construction of the construction of			
Traffic ImpactsImpactImpactImpactWater Storage ReservoirsImpactsImpactsImpactsWater Storage ReservoirsImpactsImpactsImpactsUnder Storage ReservoirsImpactsImpactsImpactsConstruction Duration and Relative ConstructabilityImpactsImpactsImpactsRequired TrenchlessImpactsImpactsImpactsImpactsRequired TrenchlessImpactsImpactsImpactsImpactsDevelopment PressureImpactsImpactsImpactsImpactsDevelopment PressureImpa			
Water Storage Reservoirs Mater Storage Reservoirs Impacts Construction Duration and Construction Duration and Elements Construction Duration and Elements Relative Constructability Elements Required Trenchless Elements Crossings Elements Development Pressure Elements			
Construction Duration and Relative Constructability Constructability Required Trenchless Constructability Crossings Constructability Development Pressure Constructability			
Required Trenchless Crossings Development Pressure			
Development Pressure			
Operation and Maintenance (O&M) Maintenance Access Access			
O&M Requirements			
Natural Resources Impacts			

Evaluation Criteria	C-1.1	C-1.2	C-1.3	C-1.4	C-1.5	C-2.1	C-2.2	C-2.3	C-3.1	C-3.2	C-4.1	C-4.2	C-4.3	C-4.4	C-5.1	C-5.2	C-5.3	C-5.4
Red	-	4	10	ı	11	2	10	7	5	5	9	9	1	9	5	4	9	9
Yellow	7	3	2		1	1	3	2	3	1	1	2	ı	7	+	3	9	2
Green	10	11	9	I	9	15	5	6	10	12	11	10	ı	5	12	11	9	10

NISP

Project Area 1 scoring indicates that Alternatives C-1.2 are comparably ranked in the numerical analysis. NISP WAE continues to investigate both routes in coordination with local jurisdictions and known development activities in the area. Alternative C-1.2 is located entirely within Timnath, Severance, and Weld County. For the purposes of this Larimer County route analysis, Alternative C-1.1 is shown to quantify the greatest potential impacts within Larimer County. Project Area 3 scoring indicates Alternative C-3.2 as the better performing route over Alternative C-3.1. However, the two alignments do not have the same endpoints and would necessarily have to connect to Project Area 4 alignments. As stated in the introduction, this can be resolved by combining each Project Area 3 alternative with its respective Project Area 4 alternative continuation and creating a combined scoring comparison. This combined scoring is summarized in Table C.3 below:

The combined alternatives 3.1 + 4.1 score as the better performing alternatives than 3.2 + 4.4. The 3.1 alternative is, therefore, the preferred route.

planning while minimizing ultimate loss of productive land use. Table C.4 below summarizes the estimated features of the overall preferred alignment, broken down by Project Area segments. In the case of a tie, alternates were evaluated and the preferred alignment was selected Windsor, and Johnstown, east and west of County Line, it provides the best continuous corridor for a new large conveyance pipeline. It also parallels a corridor that will eventually become a major arterial roadway and will be coordinated in a way to leverage off of this future approximately 2,600 feet south of CR 32 where it ties into the existing Fort Lupton Pipeline. The alignment generally has lower landowner impact and less proximity to occupied dwellings than the other alternative routes. Because of existing dense development in Timnath, The preferred alignment consists of a combination of Alternative C-1.1, C-2.1, C-3.2, C-4.1 and C-5.2 and is presented in Figure C.20. The alignment begins at the intersection of CR 52 and CR 13 and generally follows County Line Road (outside of current ROW) south to based upon prioritization of factors, mainly cost and length.

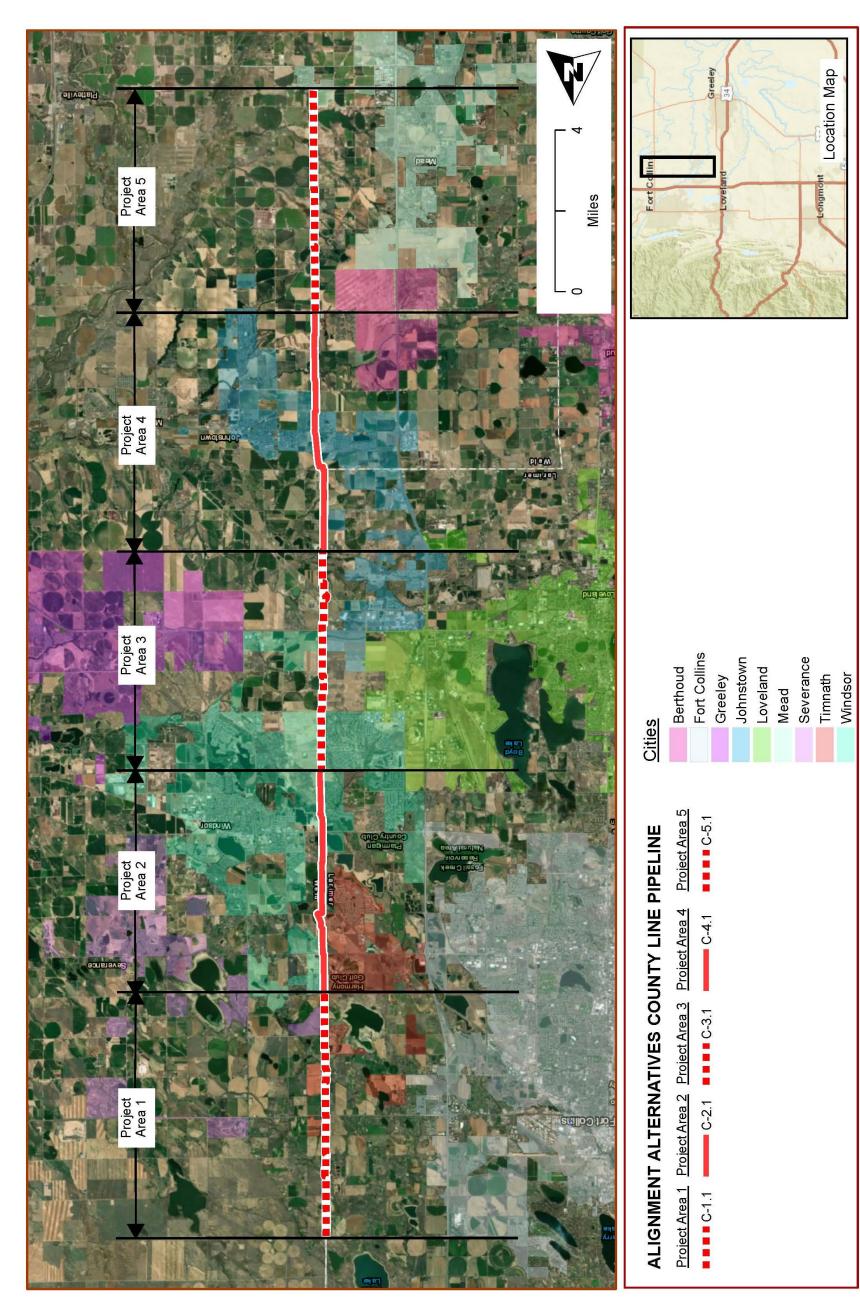
	20					
Characteristic	C-1.1	C-2.1	C-3.1	C-4.1	C-5.1	TOTAL
Pipe Diameter (inches)	48	48	48	48	48	48
Pipe Material	Mortar Lined Steel					
Total Distance (miles)	6.1	2.7	5.7	6.2	5.6	29.3
Pipe Cost	\$17,557,000	\$16,275,000	\$16,998,000	\$17,913,000	\$15,493,000	\$84,236,000
Length Tunnel (feet)	720	720	1,020	1,020	500	3,980
Number of Landowners	27	19	29	23	23	121
Wetland Crossings (feet)	2460	1,410	740	06	600	5,300

	Alternative C	Alternative Combinations
Кашид	3.1 + 4.1	3.2 + 4.4
Red	11	11
Yellow	4	8
Green	21	21

Table C.3 – Combined Scoring, Project Areas 3 and 4

PREFERRED ALIGNMENT

Table C.4 – Preferred Alignment Characteristics











Larimer County 1041 Permit Technical Memorandum No. 4 Glade Reservoir Recreation Voluntary Permit Conditions

Prepared for: Larimer County

Prepared by: Northern Integrated Supply Project Water Activity Enterprise

February 2020

CONTENTS

1.0	Purpose	1
2.0	Fundamental Principles for Recreation Development	1
2.1.	Voluntary Permit Conditions	2

1.0 Purpose

This memo outlines voluntary permit conditions being offered by the Northern Integrated Supply Project Water Activity Enterprise (NISP WAE) for including public recreation at Glade Reservoir that is conducive to its primary purpose as a water supply facility. These voluntary conditions are offered as commitments to be included in the Larimer County Board of County Commissioners' (County) 1041 Permit for the Northern Integrated Supply Project (NISP or Project). This memo supplements the description of the voluntary recreation commitments and Recreation Concept Master Plan and the discussion of the benefit these commitments provided in Tech Memo No. 1.

2.0 Fundamental Principles for Recreation Development

The proponents and applicants for NISP (NISP Participants) are voluntarily proposing to include certain fundamental principles regarding recreation development at Glade Reservoir as Voluntary Permit Conditions within the 1041 Permit for NISP.

The fundamental principles for recreation development at Glade Reservoir address the financing, construction and management of recreation at Glade Reservoir, and will commit both parties to the joint development of a Recreation Development Plan that will be prepared subsequent to issuance, and acceptance by NISP Participants, of the 1041 Permit. These fundamental principles honor more than a year of discussions with staff in the County's Planning and Natural Resources Departments and are included in the following Voluntary Permit Conditions.



This figure shows a May 2018 field trip to visit and coordinate the development of recreation areas.

2.1. Voluntary Permit Conditions

2.1.1 Recreation Development Plan

NISP Enterprise and the County will jointly develop a Recreation Development Plan that:

- a) Utilizes consultant cost estimates to prioritize a list of recreation facilities to be constructed using the money jointly contributed by the parties
- b) Meets the identified recreation commitments actions and strategies of the NISP Fish and Wildlife Mitigation and Enhancement Plan (FWMEP), including the identified Glade Reservoir Recreation and Wildlife Adaptive Management Program
- c) Meets recreation goals and objectives jointly agreed to by the parties in consideration of public comment leading up to and at the 1041 Permit hearings

The parties will begin development of this plan after the issuance of, and acceptance by the NISP Participants, of the 1041 Permit. The Recreation Development Plan must be complete before start of construction of Glade Reservoir to incorporate recreation facilities as part of reservoir construction efforts.

This plan will be similar in scope and design to the Recreation Concept Master Plan.

Northern Water shall have the right to modify a recreation facility design or location at any time if, in its sole discretion, it determines it is necessary to comply with NISP operations or maintenance, NISP permit conditions, or other issues that present a conflict with the primary water supply purposes of the Project. In this event, 30-day notice will be provided to Larimer County before such change becomes effective.

2.1.2 Recreation Scope and Funding Limits

The parties agree to a total cost commitment of \$21.8 million. This includes but is not limited to funding for:

- a) The cost of recreation commitments set forth in the FWMEP
- b) NISP WAE's purchase price for the existing KOA property adjacent to the reservoir site
- c) NISP WAE's cost associated with bringing the existing KOA facilities into compliance with County regulations
- d) The costs incurred by the parties to develop the Recreation Development Plan

e) Any transportation upgrades identified by the County as being needed to safely transport recreation traffic to the recreation area

2.1.3 Funding Sources

The parties will share the total \$21.8 million cost of recreation construction, with NISP WAE contributing 75% and the County contributing 25%.

Of the NISP's WAE's 75%, \$5.5 million will be escalated per a construction price index (CPI) to the year construction starts. The remaining costs are expenses already committed or to be committed for recreation development at Glade Reservoir that are fixed costs, which include the visitor center, paved road with guardrails to dam crest, boat ramp, camping rough grading, parking lots, and the development of a cool water fishery and expanded fish-hatchery capacity.

The County can provide lump sum payment or annual payments to cover the 25% funding commitment. Alternatively, the Recreation Development Plan will identify a priority list of recreation facilities and will also include contingency facilities that would not be built if County funding is not available

Both parties agree to actively pursue grants or other outside funding sources. Any outside funding contributions would be attributed to meeting the County's 25% funding commitment.

2.1.4 Project Accounting

By the start of construction of Glade Reservoir, parties agree to transfer 50% percent of its total contribution to an interest-bearing account to be held in escrow for NISP WAE to draw upon during construction of those facilities agreed upon in the Recreation Development Plan. Transfer of the remaining funds shall occur on a yearly basis to meet the next year's, or any remaining, construction costs.

During construction, NISP WAE will draw funds for construction of recreation facilities from the escrow account and separately account for, and report to, the County the costs of recreation facility construction.

2.1.5 Excess Funding

Any funding remaining after construction of recreation facilities identified in the Recreation Development Plan would be dedicated for future development of additional recreation facilities, as agreed to by the County and NISP WAE.

2.1.6 Facility Ownership

NISP WAE shall own all facilities constructed under the Recreation Development Plan. For the term of the lease agreement, the County shall own all revenue it generates as the managing entity of public recreation at Glade Reservoir.

2.1.7 Construction and Timing

Construction of Glade Reservoir and associated recreation facilities will commence after NISP Participants receive and accept all final, post-litigation permits.

NISP WAE will construct recreation facilities at Glade Reservoir. Construction of facilities will occur concurrently with construction of the dam, reservoir, and appurtenant facilities at Glade Reservoir to allow for the most efficient and safe work environment. No areas shall be open to the public during this construction period.

2.1.8 Water Supply

Water supply to the facility will be limited to the supply available from West Fort Collins Water District water taps purchased with the KOA and one three-quarter-inch West Fort Collins Water District water tap presently owned by the Northern Colorado Water Conservancy District.

2.1.9 Glade Reservoir Recreation Facility Management

The County has indicated a desire to manage recreation at Glade Reservoir. Unless the County decides to defer management, the County and NISP WAE will enter into a 25year lease agreement for the County to act as the managing entity to manage recreation at Glade Reservoir. Such lease agreement shall be entered into between the parties within one year prior to Project start-up, but not later than 90 days prior to Project startup. Project start-up shall mean final completion of reservoir construction activities.

Management and public recreation may begin upon notice to the County from NISP WAE of Project start-up.

2.1.10 Operations and Maintenance

NISP WAE agrees to pay for security at Glade Reservoir and appurtenant structures, and capital improvements maintenance costs for infrastructure owned by NISP WAE. Pursuant to the terms of the lease agreement, the County will be responsible for all other operations and maintenance costs including but not limited to

- a) Monthly service and utility costs
- b) Equipment, vehicles, staffing, and operational materials costs

The County, as managing entity, may determine the recreation fee structure to address funding needs. NISP WAE shall not be responsible for addressing recreation management funding shortfalls.