

DR. BUU NYGREN PRESIDENT RICHELLE MONTOYA VICE PRESIDENT

The Navajo Nation | Yideeską́ądi Nitsáhákees

December 29, 2023

TRANSMITTAL

:

TO : Arbin Mitchell, Executive Director Division of Community Development (DCD)

FROM

isha

Cordell Shortey, Contracting Officer Contracts & Grants Section (CGS) / OMB

<u>BU on Projects / Activities for Tsaile/Wheatfields Chapter, Lukachukai Chapter, Round Rock</u> <u>Chapter, Tse'ch'izhi' Chapter and Rock Point Chapter- ARPA Funds Allocated to Delegate Carl</u> <u>Slater</u>

SUBJECT

I. Information on Contract (per Original Award):

L.	Isalle/wheattleids Chap	d Rock							
C	hanter Tse'Ch'izhi Chant	er and	U.S. Tre	asurv American R	ecoverv				
	Rock Point Chapter	or, and		Plan Act (ARPA)	000101	21 027			
-	Title of Contract			Funding Agency		CFDA No Fed			
1	NABIN-45-23: CJY64								
	23	\$	8,802,340.00	2022	03/11/2	021 to 12/31/2026			
	Grant No.	А	mount	Fiscal Year	Term -	Begin and End Dat			
-									
Dat	a Entered in FMIS Re	gardin	g:						
\checkmark						K2115451 to			
	New Contract or Gra	nt Con	npany No.	<u>8059</u> Busin	ess Unit (K#)	K2115457			
~	Contract Mod No.		Modification I	No. 1					
1	Amt of Budget Ir	ncrease	\$2,758,	829.00 \$5,200	386.00 to	\$7,959,215.00			
	·		AMOU	NT FR	OM	то			
Г	Budget Period - E	xtend	End Date:	From	То				
1-	Other, specify:			-		-			
Aut	horizina Document -	Attach	ed:						
-	Contract / Agreemen	t - Date	executer						
1	NNC / Committee Rev				-				
r	Other energify MILO	Solution	I - NO. & Dale						
V	Other, specify: NN C	ouncil F	esolution NAB	N-45-23					
Cor	nments by CGS:								
This	Transmittal documents 2	nd hude	et entered in E	MIS on \$8.9 mil ADI	2A funde allocat	tod to CD Carl Slater			
Rea	ion Y-T-D budget in FMI	S for CI) Carl Slater to	tals \$7 959 215 Info	rmation on Sec	tion L of Transmittal			
abo	ve reflects \$8,802,340 AF	RPA fun	ding allocated f	or distribution to Ch	anters the respe	ctive Council Delegat			
	rice aka Region.		ang ano oatou i			Source Counter Delega			
serv									

Contract Accounting / OOC / DPM

Tom Platero, Executive Director - NN FRF Office

RESOLUTION OF THE NAABIK'ÍYÁTI' STANDING COMMITTEE 25th NAVAJO NATION COUNCIL -- First Year, 2023

AN ACTION RELATING TO THE NAABIK'ÍYÁTI' COMMITTEE; AMENDING CJY-64-23, THE NAVAJO NATION FISCAL RECOVERY FUND DELEGATE REGION PROJECT PLAN FOR HONORABLE CARL R. SLATER'S DELEGATE REGION (CHAPTERS: TSAILE/WHEATFIELDS, LUKACHUKAI, ROUND ROCK, TSÉCH'IZHÍ, ROCK POINT), TO INCLUDE ADDITIONAL PROJECTS FOR THIS DELEGATE REGION

BE IT ENACTED:

SECTION ONE. AUTHORITY

- A. The Naabik'íyáti' Committee is established as a standing committee of the Navajo Nation Council. 2 N.N.C. § 700(A).
- B. Navajo Nation Council Resolution No. CJN-29-22, as amended by CAU-74-23, mandates that Fiscal Recovery Fund ("NNFRF") Delegate Region Project Plans be approved by two-thirds (2/3) vote of the Naabik'íyáti' Committee members in attendance.
- C. Navajo Nation Council Resolution No. CJY-64-23, included and incorporated herein by reference, mandated that amendments to the Navajo Nation Fiscal Recovery Fund Delegate Region Project Plan for Honorable Carl R. Slater's Delegate Region (Chapters: Tsaile/Wheatfields, Lukachukai, Round Rock, Tséch'izhí, Rock Point) be approved by a Navajo Nation Council resolution and signed into law by the President of the Navajo Nation pursuant to 2 N.N.C. § 164(A)(17), and 2 N.N.C. §§ 1005(C)(10), (11), and (12).
- D. Navajo Nation Council Resolution No. CAU-74-23, which amended CJN-29-22 and CJY-41-21, included and incorporated herein by reference, delegated the Naabik'íyáti' Committee as the final approval authority for Delegate Region Project Plans funded through Navajo Nation's Fiscal Recovery Funds.

SECTION TWO. FINDINGS

A. Navajo Nation Council Resolution No. CJN-29-22, AN ACTION RELATING TO THE NAABIK'ÍYÁTI' COMMITTEE AND NAVAJO NATION COUNCIL; ALLOCATING \$1,070,298,867 OF NAVAJO NATION FISCAL RECOVERY FUNDS; APPROVING THE NAVAJO NATION FISCAL RECOVERY FUND EXPENDITURE PLANS FOR: CHAPTER AND REGIONAL PROJECTS; PUBLIC SAFETY EMERGENCY COMMUNICATIONS, E911, AND RURAL ADDRESSING PROJECTS; CYBER SECURITY; PUBLIC HEALTH PROJECTS; HARDSHIP ASSISTANCE; WATER AND WASTEWATER PROJECTS; BROADBAND PROJECTS; HOME ELECTRICITY CONNECTION AND ELECTRIC CAPACITY MANUFACTURED PROJECTS; HOUSING PROJECTS AND HOUSING FACILITIES; BATHROOM ADDITION PROJECTS; CONSTRUCTION CONTINGENCY FUNDING; AND REDUCED ADMINISTRATIVE FUNDING, was signed into law by the President of the Navajo Nation on July 15, 2022.

- B. CJN-29-22, as amended by CAU-74-23, Section Three, now states, in part and among other things, that
 - 1. The Navajo Nation hereby approves total funding for the NNFRF Chapter and Chapter Projects Expenditure Plan from the Navajo Nation Fiscal Recovery Fund in the total amount of two hundred eleven million two hundred fifty-six thousand one hundred forty-eight dollars (\$211,256,148) to be divided equally between the twenty-four (24) Delegate Regions in the amount of eight million eight hundred two thousand three hundred forty dollars (\$8,802,340) per Delegate Region . . . and allocated through Delegate Region Project Plans approved by two-thirds (2/3) vote of the Naabik'íyáti' Committee members in attendance. . . . See CJN-29-22, as amended by CAU-74-23, Section Three (B).
 - 2. The Delegate Region Project Plan funding will be allocated to the Navajo Nation Central Government, specifically the Division of Community Development or other appropriate Navajo Nation Division or Department, to implement the projects rather than directly to the Chapters. See CJN-29-22, Section Three (D).
 - The Navajo Nation Central Government, specifically the з. Division of Community Development or other appropriate Navajo Nation Division or Department, shall manage and administer funds and Delegate Region Project Plans on behalf of Non-LGA-Certified Chapters. The Navajo Nation Central Government may award funding to LGA-Certified Chapters through sub-recipient agreements to implement and maintain projects, but shall specific manage Administrative Oversight over such funding and Delegate Region Project Plans. See CJN-29-22, Section Three (E).
 - 4. Each Navajo Nation Council delegate shall select Fiscal Recovery Fund eligible projects within their Delegate Region to be funded by the NNFRF Chapter and Regional Projects Expenditure Plan through a Delegate Region Projects Plan. The total cost of projects selected by each

Delegate shall not exceed their Delegate Region distribution of eight million eight hundred two thousand three hundred forty dollars (\$8,802,340). See CJN-29-22, Section Three (F).

- 5. Each Delegate Region Project shall identify its Administrative Oversight entity and its Oversight Committee(s) and be subject CJY-41-21's NNDOJ initial eligibility determination. See CJN-29-22, Section Three (L)(5) and (L)(6).
- C. The Navajo Nation Council Resolution No. CJY-64-23, AN ACTION RELATING TO THE NAABIK'ÍYÁTI' COMMITTEE AND NAVAJO NATION COUNCIL; APPROVING THE NAVAJO NATION FISCAL RECOVERY FUND DELEGATE REGION PROJECT PLAN FOR HONORABLE CARL R. SLATER'S DELEGATE REGION (CHAPTERS: Tsaile/Wheatfields, Lukachukai, Round Rock, Tséch'izhí, Rock Point), was signed into law by the President of the Navajo Nation on August 4, 2023.
- D. CJY-64-23, Section Four, states that:
 - Amendments to this legislation or to the Delegate Region Project Plan approved herein shall only be adopted by resolution of the Navajo Nation Council and approval of the President of the Navajo Nation pursuant to 2 N.N.C. § 164(A)(17) and 2 N.N.C. §§ 1005(C)(10), (11), and (12).
- E. The Navajo Nation Council Resolution No. CAU-74-23, AN ACTION RELATING TO THE NAABIK'ÍYÁTI' COMMITTEE AND NAVAJO NATION COUNCIL; AMENDING COUNCIL RESOLUTIONS CJY-41-21 AND CJN-29-22; DELEGATING THE NAABIK'ÍYÁTI' COMMITTEE AS THE FINAL APPROVAL AUTHORITY FOR DELEGATE REGION PROJECT PLANS FUNDED THROUGH THE NAVAJO NATION'S FISCAL RECOVERY FUNDS was signed into law by the President of the Navajo Nation on September 6, 2023.
- F. CJN-29-22, as amended by CAU-74-23, Section Three, now states, in part and among other things, that
 - 1. The Navajo Nation hereby approves total funding for the NNFRF Chapter and Chapter Projects Expenditure Plan from the Navajo Nation Fiscal Recovery Fund in the total amount of two hundred eleven million two hundred fifty-six thousand one hundred forty-eight dollars (\$211,256,148) to be divided equally between the twenty-four (24) Delegate Regions in the amount of eight million eight hundred two thousand three hundred forty dollars (\$8,802,340) per Delegate Region . . . and allocated through Delegate Region Project Plans approved by two-thirds (2/3) vote of the

Naabik'íyáti' Committee members in attendance. . . . See CJN-29-22, as amended by CAU-74-23, Section Three (B).

- G. All additional projects listed in the Hon. Carl R. Slater's Delegate Region Projects Plan, attached as Exhibit A, have been deemed Fiscal Recovery Fund eligible by NNDOJ. In addition, Hon. Carl R. Slater's Delegate Region Projects Plan does not exceed the amount of \$8,802,340, as set forth in CJN-29-22, Section Three (F).
- H. The Navajo Nation Council hereby finds that it is in the best interest of the Navajo Nation and the Hon. Carl R. Slater's Delegate Region Chapters and communities to approve and adopt the additional projects as part of the Navajo Nation Fiscal Recovery Fund Delegate Region Project Plan for Hon. Carl R. Slater's Delegate Region (Chapters: Tsaile/Wheatfields, Lukachukai, Round Rock, Tséch'izhí, Rock Point) as set forth in Exhibit A.

SECTION THREE. AMENDING CJY-64-23, THE NAVAJO NATION FISCAL RECOVERY FUND DELEGATE REGION PROJECT PLAN FOR HONORABLE CARL R. SLATER'S DELEGATE REGION (CHAPTERS: TSAILE/ WHEATFIELDS, LUKACHUKAI, ROUND ROCK, TSÉCH'IZHÍ, ROCK POINT), TO INCLUDE ADDITIONAL PROJECTS FOR THIS DELEGATE REGION

- A. The Navajo Nation hereby approves the additional projects as part of the Navajo Nation Fiscal Recovery Fund Delegate Region Project Plan for Hon. Carl R. Slater's Delegate Region (Chapters: Tsaile/Wheatfields, Lukachukai, Round Rock, Tséch'izhí, Rock Point) set forth in Exhibit A.
- B. The Delegate Region Project Plan approved herein shall comply with all applicable provisions of CJY-41-21, CJN-29-22, and BFS-31-21.
- C. Any inconsistencies between this legislation, the Delegate Region Project Plan, and the individual project appendix, shall be resolved in favor of the project appendix reviewed by Department of Justice during their eligibility determination(s).

SECTION FOUR. AMENDMENTS

Amendments to this legislation or to the Delegate Region Project Plan approved herein shall only be adopted and approved by resolution of the Naabik'íyáti' Committee.

SECTION FIVE. EFFECTIVE DATE

This legislation shall be effective upon its approval pursuant to two-thirds (2/3) vote of the Naabik'íyáti' Committee members in attendance.

SECTION SIX. SAVING CLAUSE

If any provision of this legislation is determined invalid by the Navajo Nation Supreme Court, or by a Navajo Nation District Court without appeal to the Navajo Nation Supreme Court, those provisions of this legislation not determined invalid shall remain the law of the Navajo Nation.

CERTIFICATION

I, hereby certify that the foregoing resolution was duly considered by the Naabik'íyáti' Committee of the 25th Navajo Nation Council at a duly called meeting in Window Rock, Navajo Nation (Arizona), at which a quorum was present and that the same was passed by a vote of 11 in Favor, and 00 Opposed, on this 9th day of November 2023.

Caren A. Johnm

Honorable Casey Allen Johnson, Chairman Pro Tem Naabik'íyáti' Committee

4/14/23

Motion: Honorable George H. Tolth Second: Honorable Danny Simpson

Chairman Pro Tem Casey Allen Johnson not voting

NAVAJO NATION FISCAL RECOVERY FUND DELEGATE REGION PROJECT PLAN

Exhibit A

TOTAL: \$ 8,802,340.00

COUNCIL DELEGATE: HON. Carl R. Slater

CHAPTERS: Tsaile/Wheatfields, Lukachukai, Round Rock, Tséch'izhí, Rock Point

FUNDING RECIPIENT	SUBRECIPIENT	EXPENDITURE PLAN / PROJECT	ADMIN OVERSIGHT	FRF CATEGORY	DOJ REVIEW #	AMOUNT
		TOTAL AMOUNT APPROPRIATED IN CJY-64-23 on August 4, 2023				\$ 5,200,386.00
Division of Community Development	None Identified	Tsaile/Wheatfields Chapter Community Roads Improvement Project	NN Division of Transportation	6.1	HK0620	\$ 1,094,062.00
Division of Community Development	None Identified	Rock Point Chapter Purchase of Heavy Duty Trailer Project	Division of Community Development	6.1	HK0621	\$ 48,823.00
Division of Community Development	Tse'chi'zhi Chapter	Tse'chi'zhi Chapter Community Septic-Cleaning Project	NN Environmental Protection Agency	5.5	HK0622	\$ 63,750.00
Division of Community Development	Tse'chi'zhi Chapter	Tse'chi'zhi Chapter Home Weatherization and Rehabilitation Project	Division of Community Development	2.18	HK0629	\$ 208,000.00
Division of Community Development	Tse'chi'zhi Chapter	Tse'chi'zhi Chapter Community Culvert Installation Project	NN Division of Transportation	5.6	HK0631	\$ 195,000.00
Division of Community Development	Tse'chi'zhi Chapter	Tse'chi'zhi Chapter Spiritual Wellness Center (Hogan) Project	Division of Community Development	2.22	HK0642	\$ 99,194.00
Division of Community Development	Tse'chi'zhi Chapter	Tse'chi'zhi Bathroom Additions	Division of Community Development	1.14	HK0669	\$ 1,050,000.00
		UN-ALLOCATED AMOUNT				\$ 843,125.00
			_1	<u> </u>		n a den agención a seu ferm

*Per CJN-29-22, Section Three (E), the "Navajo Nation Central Government may award funding to LGA-Certified Chapters through sub-recipient agreements to implement and manage specific projects, but shall maintain Administrative Oversight over such funding and Delegate Region Project Plans."

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NAVAJO NATION DEPARTMENT OF JUSTICE



OFFICE OF THE ATTORNEY GENERAL

ETHEL B. BRANCH Attorney General

HEATHER CLAH Deputy Attorney General

DEPARTMENT OF JUSTICE INITIAL ELIGIBILITY DETERMINATION FOR NAVAJO NATION FISCAL RECOVERY FUNDS

RFS/HK Review #: HK 0631

Date & Time Received: 08/02/23 at 13:52

Date & Time of Response: 08/08/2023 at 17:00

Entity Requesting FRF: Tse' Ch'Izhi Chapter

Title of Project: Tse' Ch'Izhi Community Culvert Installation

Administrative Oversight: Navajo Division of Transportation

Amount of Funding Requested: \$195,000.00

Eligibility Determination:

FRF eligible FRF ineligible Additional information requested

FRF Eligibility Category:

(1) Public Health and Economic Impact (3) Government Services/Lost Revenue (2) P (4) V

(2) Premium Pay(4) Water, Sewer, Broadband Infrastructure

U.S. Department of Treasury Reporting Expenditure Category:_

5.6, Clean Water: Stormwater

P.O. Box 2010 • Window Rock, Navajo Nation (AZ) 86515 • 928-810-8526 • Facsimile: 928-871-6200

Returned for the following reasons (Ineligibility Reasons/Paragraphs 5.E.(1)-(10) of FRF Procedures):

Missing Form Supporting documentation missing Project will not be completed by 12/31/2026 Ineligible purpose Submitter failed to timely submit CARES reports Additional information submitted is insufficient to make a proper determination	Expenditure Plan incomplete Funds will not be obligated by 12/31/2024 Incorrect Signatory Inconsistent with applicable NN or federal laws
Other Comments:	
We have modified the requested expenditure code from 6.1 (Provis	sion of Government Services) to 5.6 (Clean Water:
Stormwater). 5.6 is a more favorable category because it is not lin	mited to the amount of the Nation's lost revenue.
	· · · · · · · · · · · · · · · · · · ·
·	
Name of DOJ Reviewer: Erika Pirotte	
Signature of DOJ Reviewer: Erika R. Pirotte	Digitally signed by Erika R. Pirotte Date: 2023.08.08 15:52:42 -06'00'

Disclaimers:

If additional information has been requested and you wish to provide it, please resubmit all the required forms updated to include the additional information. Full resubmission will expedite the Initial Eligibility Determination process. Therefore, please include a new RFS form indicating resubmission, revised Appendix A, Budget Form 1, and other supporting documents. **Please email your resubmission to arpa@nndoj.org.** Please be aware that under Resolution BFS-31-21 a Project or Program can only be reviewed twice, therefore it is critical that you include all the requested additional information for your second submission.

An NNDOJ Initial Eligibility Determination is based on the documents provided, which NNDOJ will assume are true, correct, and complete. Should the Project or Program change in any material way after the initial determination, the requestor must seek the advice of NNDOJ. An initial determination is limited to review of the Project or Program as it relates to whether the Project or Program is a legally allowable use – it does not serve as an opinion as to whether or not the Project or Program should be funded, nor does it serve as an opinion as to whether or not the amount requested is reasonable or accurate.

APPENDIX A

THE NAVAJO NATION FISCAL RECOVERY FUNDS REQUEST FORM & EXPENDITURE PLAN FOR NON-GOVERNANCE CERTIFIED CHAPTERS

Part 1. Identification of parties.

Non-Governance Certified Chapter TSE CH'IZHI CHAPTER requesting FRF:	Date prepared: 3/18/23
Chapter's PO BOX 4344	phone/email: (928) 728-3361
mailing address: CHINLE, AZ 86503	website (if any): roughrock@navajochapters.org
This Form prepared by:	phone/email: (928) 206-9356
SYLVIA HADLEY, SECRETARY/TREASURER	shadley@navajochapters.org
CONTACT PERSON'S name and tito	CONTACT PERSON'S Into
Title and type of Project: TSE' CH'IZHI' COMMUNITY CULVE	ERT INSTALLATION
Chapter President BETTY DAILEY	phone & email: (505) 408-3292, daileyb628@gmail.com
Chapter Vice-President JAY R. NEZ	phone & email: (505) 908-7773, jrnez@naataanii.org
Chapter Secretary: SYLVIA HADLEY	phone & email: (928) 206-9356, shadlay@navajochapters.org
Chapter Treasurer: SAME AS ABOVE	phone & email:
Chapter Manager or CSC: VACANT	_ phone & email:
DCD/Chapter ASO: CHINLE/EDGERTON GENE	phone & email: (928) 674-2251, egene@nndcd.org
List types of Subcontractors or Subrecipients that will be paid with FRF (if kn	nown):
	document attached
Amount of FRF requested: \$195,000 FRF funding period: 4/1	123 - 12/13/26
	AUTORIA LINICA STRIMA ULA RUCUNATIONA ASIA

Part 2. Expenditure Plan details.

(a) Describe the Program(s) and/or Project(s) to be funded, including how the funds will be used, for what purposes, the location(s) to be served, and what COVID-related needs will be addressed:

The Tse Ch'izhi Chapter will use the funds to install culverts on community roads, in partnership with Apache County. During the pandemic, it was more apparent that the residents living on these routes were severely impacted and had to forego basic care, needs and daily activities away from the roads. With these culverts installed in specific areas, the residents will be able to have access to basic needs. the ability to travel for appointments, schools, purchasing food, wood and other items needed to ensure they have adequate supplies on hand. The Chapter will ensure that the funds expended will address public challenges that partly caused the unequal impact on the Navaio Nation.

document attached

(b) Explain how the Program or Project will benefit the Navajo Nation, Navajo communities, or the Navajo People:

Within the Tse Ch'izhi Chapter, the residents had to wait for heavy equipment machinery to clear and ensure safe roads to travel out; having the roads safe will allow easier access to healthcare, less stress and students would attend school regularly. The Tse Ch'izhi Chapter residents will directly benefit from the road improvements.

document attached

(c) Provide a prospective timeline showing the estimated date of completion of the Project and/or each phase of the Project. Disclose any challenges that may prevent you from incurring costs for all funding by December 31, 2024 and/or fully expending funds and completing the

This project estimates successfu	I installation of the culverts by September 30, 2026 and will obligate
ing funds no later than Decembe 2026.	er 31, 2024 and will fully expend the funds no later than December 13,
	[1] document attached
(d) Identify who will be responsible for implan	nenting the Frogram or Project:
DCD will be the oversight of the s to complete the culvert installation	sub-recipient agreement with Tse Ch'izhi Chapter and Apache County lons.
	D document attached
prospectively:	luons and ma menarice costs for the Projekt crice completion, and now such costs will be funced
The maintenance will be done by	Ihe Chapter and the responsible Agency that these are installed in.
	<u>.</u>
	•
	[decument attache]
(1) State which of the 66 Fiscal Recovery Fun proposed Program or Project falls under, and	nd expenditure categories in the allached U.S. Department of the Treasury Appendix 1 listing the explain the reason why:
(*) State which of the 66 Fiscal Recovery Fun proposed Program or Project fells under, and 6.1 Provision of Government Sc.	expenditure categories in the atlached U.S. Department of the Treasury Appendix 1 listing the explain the reason why:
(1) State which of the 66 Fiscal Recovery Fun proposed Program or Project fells under, and 6.1 Provision of Government Se contributed to poor public health	expenditure categories in the atlached U.S. Department of the Treasury Appendix 1 listing the explain the reason why: invices. The road improvements addresses the conditions that and economic outcomes during the pandemic, namely concentrated
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(1) State which of the 66 Fiscal Recovery Fun proposed Program or Project fell's under, and 6.1 Provision of Government Se- contributed to poor public health areas with limited economic opp Part 3. Additional documents. List here all additional supporting documents Resolution MOU with Apache County Pictures of areas needing culver Part 4. Affirmation by Funding Reci Funding Recipient elims that its receipt of Fi with Resolution No. CJY-41-21, the ARPA All Chapter's Preparer:	Indexpenditure categories in the alloched U.S. Department of the Treasury Appendix 1 listing the lexplain the reason why: Invices. The road improvements addresses the conditions that and economic outcomes during the pandemic, namely concentrated ontunity. [] document attached sattached to this rife Expenditure Plan (or indicate N/A): Is. [] Chapter Resolution attached iplent. Iscal Recovery Funds and the implementation of this FRF Expenditure Plan shall be in socordance RPA Regulations, and with all applicable federal and Navajo Nation laws, regulations, and policies: Approved by:

- Page 2 of 2 -

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FY 2023

THE NAVAJO NATION PROGRAM BUDGET SUMMARY

Page 1 of 3 BUDGET FORM 1

PART I. Business Unit No	.: <u>NEW</u>	Program Title:	Tso	Ch'izhl Chapter - Culvert Installation Pr	oject	Division/Branch:	DCD/Execut	ve				
Prepared By:	Sylvia Newman	Phone	No.:	(928) 206-9356 Email	Address:	shadley	shadley@navajochapters.org					
PART II. FUNDING SOURC	Fiscal Year (E(S) /Term	Amount	% of Total	PART III. BUDGET SUMMARY	Fund Type	(A) NNC Approved	(B)	(C) Difference or				
NN Fiscal Recovery Funds	4/1/23 - 12/13/20	195.000.00	100%	2001 Personnel Exponses	Code	Original Budget	Proposed Budget	lotal				
				3000 Travel Expenses			······································					
				3500 Meeting Expenses								
				4000 Supplies								
				5000 Lease and Rental		-						
				5500 Communications and Utilities								
				6000 Repairs and Maintenance	6		195.000	195.000				
				6500 Contractual Services								
				7000 Special Transactions								
				8000 Public Assistance								
				9000 Capital Outlay								
				9500 Matching Funds								
				9500 Indirect Cost								
			<u> </u>		TOTAL	SC.00	195,000.00	195,000				
				PART IV. POSITIONS AND VEHICLES		(D)	(E)					
				Total # of Positions E	Budgeted:	0	0					
	TOTAL:	\$195,000.00	100%	Total # of Vehicles E	Budgeted:	0	0					
PART V. THEREBY ACKN	OWLEDGE THAT THE INI	FORMATION COM	ITAINED	IN THIS BUDGET PACKAGE IS COMPLE	TE AND AC	CURATE.						
SUBMITTED BY: P.	atricia Begay, Delega	ated Program	Manage	r APPROVED BY:	Cahin (Castillo, Executive Direc	tor	_				
\sum	Program Manager's Printed Name Division Director / Branch Chiel's Printed Name											
Pal	recen D!	Dogazo	8/02/20	23		\$ 8/1/20	Z-3	-				
	Program Manager's Si	gnature and Upte	2	Division	Lupector /	branch Uniers Signa	ture and Date					

FY 2023

THE NAVAJO NATION PROGRAM PERFORMANCE CRITERIA

Page 2 of 3 BUDGET FORM 2

PART	I. PROGRAM INFORMATION:										
	Business Unit No.:	NEW	Program Name/Title:		T	se Ch'izhi (Chapter - Cu	ilvert Insta	lation Proje	ct	
PART	II. PLAN OF OPERATION/RESC	OLUTION NUMB	ER/PURPOSE OF PROGRAM:								
							0.50				
PART	III. PROGRAM PERFORMANCE	CRITERIA:		Goal	Actual	Goal	Actual	Goal	Actual	Goal	Actual
1.	Goal Statement:		•								
	Utilize ARPA funding to install cutv	erts in specific ar	reas within Tse Ch'izhi Chapter boundaries.								
	Program Performance Measure	Objective:									
	Successful installation of culverts.							1		1	
2.	Goal Statement:										
	Program Performance Measure/	Objective:	r								
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5.	Goal Statement:										
	Program Performance Measured	Objective:	,								
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PAR	T IV. I HEREBY ACKNOWLEDGE	THAT THE AB	OVE INFORMATION HAS BEEN THOROUGH	ILY REVIE	WED.	Calvin Ca	stilla Execut	ive Director			
	Program M	anager's Printe	d Name		Divisio	on Director	Branch Chi	ef's Printed	Name		
	Petricia	= NR	104 6+ 08/02/2022				8	1/1/20	23		
	Program Man	ager's Signatur	e and Date ()	/	Division	Director/Br	anch Chief	s Signature	and Date		
1	-										

FY 2023

THE NAVAJO NATION DETAILED BUDGET AND JUSTIFICATION

Page 3 of 3 BUDGET FORM 4

PART I. PI	OGRAM INFORMATION: Program Name/Title: Tse Ch'izhi Chapter - Culvert Installation Project Business Unit No.:	NEW	
PART II. [(A)	ETAILED BUDGET: (B)	(C)	(D)
Object Code (LOD 6)	Object Code Description and Justification (LOD 7)	Total by DETAILED Object Code (LOD 6)	Total by MAJOR Object Code (LOD 4)
6500 6960	CONTRACTUAL SERVICES SUBCONTRACTED SERVICES 6990 Subcontracted Services- Apache County to install culverts	195,000	195,000
	TOTAL	195,000	195,000

THE NAVAJO NATION PROJECT BUDGET SCHEDULE

Page 1 of 2 PROJECT FORM

PART I. Business Unit No.: <u>NEW</u>			•																		PAR	T II.			Proj	ect in	forma	tion	
Project Title: Tsé Ch'izhí Cu	ivert Install	ations																			Proje	ect Typ	e:		Cul	vert in	istalla	tions	
Project Description Purchase a	and have cu	ilverts	installe	ed in c	ollabo	ration	with <i>i</i>	Apach	e Cou	inty											Plan	ned Sta	art Date	:		4/	/1/20	23	
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Check one box:	🕑 Origin	al Budg	get		Budg	et Rev	ision] Bud	lget Re	ealloca	ation		Budg	et Mo	dificat	tion				Proje	ect Mar	nager:	<u> </u>		Sylvia	Hadle	ey	
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FOR OMB USE ONLY: Resolut	ion No:			<u>, , , , , , , , , , , , , , , , , , , </u>	F	MIS S	et Up	Date	1			<u></u>	<u></u>	C	ompa	ny No	:	<u>. </u>			'	OMB.	Analyst	<u>. </u>				<u> </u>	

THE NAVAJO NATION PROJECT BUDGET SCHEDULE

Page 2 of 2 PROJECT FORM

PART I. Business Unit No.: NEW																						PAR	r II.			Proje	ect inf	format	tion	
Project Title: Tsé Ch'izhi Cu	lvert li	nstalla	tion																			Proje	ct Type	9:		Cub	ert in	stallat	ions	
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																						Plann	ned En	d Date:		-	12	/13/20	26	
Check one box:	x: Original Budget Budget Revision Budget Reallocation Budget Modification Project Manager										ager:	: Sylvia Hadley																		
ART III. Use Fiscal Year (FY) Quarters to complete the information below. O = Oct.; N = Nov.; D = Dec., etc.																														
List Project Task separately; such						FY 2	2024											FY	2025						pro	oject (excee	ds 8 F	TY Qtr	s.
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FOR OMB USE ONLY: Resolut	ion No):				F	MISS	Set Up	Date:						Co	ompar	iy No:						OMB A	Analyst:						



Tse'chı'zhi' Chapter P. O. Box 4344 Chinle, AZ 86503 Navajo Route 59 928.728.3361 • Fax: 928.728.3362

Resolution #2023-0427-3

RESOLUTION OF THE TSE'CHI'ZHI' (ROUGH ROCK) CHAPTER OF THE NAVAJO NATION

Rough Rock Chapter ("Chapter") affirms that the Chapter will only use awarded Fiscal Recovery Funds and implement this FRF Expenditure Plan in compliance with the ARPA. ARPA Regulations, and with all applicable federal and Navajo Nation laws, regulations, and policies.

WHEREAS:

- The Tse'ch'izhi' (Rough Rock) Chapter is duly called a certified Chapter of the Navajo Nation and is delegated the authority and responsibility to promote projects which benefits the local community pursuant to 26 N.N.C. Section 3 and pursuant to 11 N.N.C. Part 1, Section 10; and pursuant to 11 N.N.C. Part 1, Section 10; and
- 2. Pursuant to 2 N.N.C., Section 4028 (a), the Rough Rock Chapter is vested with the authority to review all matters affecting the community and make appropriate recommendations to the Navajo Nation, Federal, State, and local agencies for appropriate actions; and
- The Rough Rock Chapter received confirmation from its Navajo Nation Council Delegate Carl R. Slater that the five Chapters under his leadership will equally distribute the \$8,802,340.00, with Rough Rock Chapter allocation of \$1,760,468 for projects using the ARPA funds with budget amounts as follows; and

	PROJECT DESCRIPTION	CATEGORY	AMOUNT
1	Housing Support - Bathroom Addition: 70 homes x \$15,000	1.14	\$1,050,000 🗸
2	Septic Tank Clean-Out: 200 homes x \$425 each	5.5	\$ 85,000
3	Home Weatherization/Rehabilitation: 160 homes x \$1300	1.10	\$ 208,000 \
4	Culverts for community residential roads	2.22	\$ 96,898
5	Water Delivery to 20-homes lacking water: 24 mos. x \$5824	5.3	\$ 139,776
6	Trash Bin for Community Use: 48 mos. x \$1700 per month	6.1	\$ 81,600 🗸
7	Spiritual Wellness Center: Hogan structure with earth floor	2.22	\$ 99,194 🗸
	Grand Total		\$1,760,468

NOW THEREFORE BE IT RESOLVED THAT: The Rough Rock Chapter ("Chapter") affirms that the Chapter will only use awarded Fiscal Recovery Funds and implement this FRF Expenditure Plan in compliance with the ARPA. ARPA Regulations, and with all applicable federal and Navajo Nation laws, regulations, and policies.

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CERTIFICATION: We hereby certify that the foregoing resolution was considered at a duly called Chapter Meeting at Rough Rock Chapter, Navajo Nation, at which a quorum was present ant that the same was passed by a vote of <u>17</u> in favor, <u>4</u> abstained, and <u>0</u> opposed, this 27th day of April 2023.

Motioned By: <u>Juse Lene</u> Town - In Seconded By: <u>Juse Lene</u> Town - In Seconded By: <u>Juse Began</u> Hay N. Ney Betty Dailey, President Jay R. Nez, Vice-President Sylvia Hadley, Secretary/Treasurer



0911-05

Tse'chi'zhi' Chapter

Chinle, AZ 86503 Navajo Route 59 Betty Dailey, President Jay R. Nez, Vice-President Lorene Yazzie, Grazing Representative Carl R. Slater, Council Delegate

Resolution # RRCH 2022-

RESOUTION OF THE TSE'CH'I'ZHI' (ROUGH ROCK) CHAPTER OF THE NAVAJO NATION

Rough Rock Chapter hereby requesting and approving Apache County District One to establish a Low Water Crossing structure on C579 Arrow Loop Bus Route thru cost-sharing partnership project with Rough Rock Chapter Government to improve the transportation mobility for Rough Rock Community.

WHEREAS:

- 1. Pursuant to the "Local Governance Act" 26 NNC Chapter 1., Section 3 (A) the Tse'Chi'I'Zih' (Rough Rock) Chapter would like to follow Navajo Nation Infrastructure & Capital Improvement Policies and Procedures; AND
- 2. Pursuant to Chapter 1, Subchapter 1 Section, (3), (1), (2) of the same "Act" the Chapter has the responsibility and authority to promote, protest. Preserve the interest and general welfare including the safety of its community people, programs, property; AND
- Pursuant to the Intergovernmental Agreement (IGA) between the three separate entities; Apache County, the Navajo Nation and Bureau of Indian Affairs, Apache County has a continuous, ongoing commitment to roadway maintenance of school bus routes; AND
- 4. Rough Rock Chapter has a responsibility to its constituents to address concerns of safety and wellbeing that impacts the safe transportation mobility of Apache County District One, C579 Arrow Loop Bus Route which daily serves Rough Rock Community School, Many Farms Community School, Chinle and Kayenta Unified School District students and numerous service providers; AND
- Rough Rock Chapter will utilize some of their Chapter funds and any available funds to cost share on C579 Low Water Crossing structure project through Chinle Agency Administration Service Center's technical assistance and support and with procurement process as it is codified in the Navajo Nation Local Governance Act; AND
- 6. The Rough Rock Chapter funds will be utilized for archeological clearance, environmental assessment, culvert pipes and structure material cost and Apache County District One will provide the equipment machinery, personnel cost and hydrology/hydranlic study, EPA Clean Water Act permit on C579 project.

NOW, THEREFORE, BE IT RESOLVED THAT: Tse'Chi l'Zhi' (Rough Rock) Chapter hereby approves Apache County District One to establish a Low Water Crossing structure on C579 Arrow Loop Bus Route thru cost-sharing partnership project with Rough Rock Chapter Government to improve the transportation mobility for Rough Rock Community.

CERTIFICATION: We, the undersigned hereby certify that the foregoing resolution was duly considered at a duly called authorized meeting held at Tse'Chi'l'Zih', Navajo Nation (Arizona) at which a quorum was present and that the same was passed by a vote of

opposed and _____ abstaining this 11th day of September, 2022. Motioned By: in favor, and ${}^{\mathcal{O}}$ SAMA Seconded By: _ av R. Nez. Vice Pr Lorene S. Yazzie, Grazing Official Sylvia Hadley, Secretary/Treisurer



Memo

To:County Engineer Ferrin Crosby, P.E.From:Robert Toy, P.E., CMI Engineeringco:Floodplain Administratorbate:June 11th, 2022Re:Clean Water Act, Section 401/404 Compliance, 2022 C-579 Burro Wash Crossing
Project

at the state

This memo documents the County's efforts toward compliance with Clean Water Act, Section 401 certification, and Section 404 permitting, in construction of the proposed 2022 C-579 Burro Wash Crossing Project. The conclusion of the County's analysis takes into consideration potential Jurisdictional Waters, and finds that under the most conservative calculations, the project's impact does not exceed Corps of Engineers requirements for Pre-Construction Notification (PCN) under Nationwide Permit 14, Linear Transportation Features. This memo includes exhibits and calculation attachments demonstrating the compliance findings, and documents the County's objective to propose a crossing which restores the natural hydraulic conditions, which were obstructed as a result of roadway embankment placed in the watercourse, that serves as approaches.

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Historic flooding has occurred in the project vicinity, at Burro Wash, damaging C-579, and limiting use. In 2021, the County began studies to mitigate the impacts through improvement to the existing crossing, and other mitigation measures, which may impact Proposed Jurisdictional Waters of the U.S. (WOTUS.) In June, 2022, in concert with the Section 404 Clean Water Act permitting, County Engineering submitted to Navajo Nation EPA for a Section 401 Water Quality Certification, using the proposed design.

This memo addresses the impact to the proposed crossing at Burro Wash ephemeral watercourse, with respect to the Clean Water Act Section 404 and 401 compliance. The project design minimizes the upstream impacts which occur in undeveloped land, as well as the downstream impacts where the watercourse returns to natural, sinusoidal patterns. The project seeks to match existing channel incision, provide minimum cross-sectional impediment to flow,

and match slope and direction, with the goal of ensuring stability of the watercourse, and minimizing sediment transport. The impact analyzes both discharge of material into Proposed WOTUS and connectivity of flows through the proposed flood mitigation constructed features.

No Jurisdictional Delineation (JD) has been performed for this watershed, because only the Corps of Engineers is capable of establishing the JD. The calculations are based on a proposed JD, which employs Corp established procedures, identifies the Ordinary High Water Mark (OHWM), and documents the conservative nature of the proposed JD.¹ Given the remote nature of the area, the County's consult with the Corps indicates that no formal JD has been defined for the project area. Although the initial environmental review presumes this portion of Burro Wash to be an ephemeral watercourse (potentially exempting the watercourse from 401/404 considerations), the County is taking the conservative approach of reviewing the impacts with a presumption that if found to be jurisdictional, the proposed mitigation efforts will fall within the criteria for the NWP-14. Furthermore, the impact area is less than the Pre-Construction Notification threshold.

The County's conservative approach and treatment of the project area as potential WOTUS is consistent with the objectives of its partner the Navajo Nation, which in 2021 through litigation reversed the 2020 federal agencies redefinition of the NWPR, which "categorically excludes all ephemeral streams...from the definition of WOTUS and thus protection under the CWA."



Exhibit 1: Proposed Project Location, referenced to the SE quarter of the USGS 7.5-minute "2021 Rough Rock, Arizona" quadrangle map. The Area of Potential Effect (APE) is shown in red, as C-579 crosses Burro Wash. The project is located in the SE4 of Section 4, Township 35N, Range 22E of the Salt River Base and Meridian.

¹ The OHWM is identified through field photographs, and found to be consistent with survey breaklines and aerial photographs. The photographic evidence identifies clear overbank breaklines, and the presence of hydrophilic vegetation in support of the County's assertion that the portion of the watercourse impacted could be found to be jurisdictional.

Determination of Proposed JD

A JD has not been performed for the watercourse, and it is not known if the watercourse would be considered jurisdictional. However, to demonstrate the conservative nature of the County's efforts towards 404 compliance, it is assumed for the purpose of this analysis that the entire watercourse would be found jurisdictional. Therefore, a width must be assumed. High resolution aerial photographs and site visits document a well-defined riverine incision upstream of the proposed embankment of approximately 63' wide, and downstream incision of approximately 65' wide. The Proposed JD width of 65' US and DS is based upon a right-channel embankment of approximately defined channel section in the aerial photograph was calibrated against recent field photographs to ensure consistency. The resulting cross-sectional area of approximately 50.1 SF in the trapezoidal-shaped cross-section, and a computed velocity of 2.6 FPS, resulting in 128 CFS is consistent and conservative for the low recurrence-interval, flow expected as "ordinary" flow.²



Exhibit 2: Excerpt from sealed Apache County Engineering permit documents showing overlay of proposed constructed features onto existing roadway and Google Maps aerial photo. Areas were scaled from this drawing to determine Impact Areas and volumes of discharge, as detailed in the attached "Design and 404 Permit Calos" spreadsheet.

Impact Area and Discharge Within the Proposed JD

The Proposed JD was delineated using aerial photographs, and calibrated to 2019 site visit photographs where channel incisement consistent with vegetation changes were observed. Calculations using scaled areas from the design CAD drawings resulted in accurate computation of areas within the proposed JD. The summary of material proposed to be discharged within the Proposed JD is provided in the supporting "Design and 404 Permit Calcs" spreadsheet.

² Please reference attached "Design and 404 Permit Celcs" support document, which includes openchannel flow computations, and the range of standard Recurrence Interval flows used to form the basis for the Ordinary flow.



Exhibit 3. 2022 upstream (top) photograph and downstream (bottom) Note clear incisement of channel, ranging from 4-5' in height downstream, to over 10' upstream.

Cultural and Biological Considerations

The project calls for culvert set at natural grade, so as not to obstruct, retard, or redirect WOTUS. The culvert are sized and set at grade so as not to disrupt aquatic life which may be present under seasonal, temporary flow conditions of the ephemeral wash. Burro Wash is not used as a navigable waterway. Although no detailed studies have been performed in the APE, the County is not aware of any threatened or endangered species as declared by the NNDFW. With the exception of an approximately 15' downstream incursion beyond the roadway easement for the purposes of placing riprap erosion protection, all work is proposed to be performed within the easement

Sensitivity Analysis

The Area of Discharge is directly related to the Proposed JD width, which was estimated using high resolution aerial photos in the CADD system, allowing for accurate scaling and average width estimations across the impacted area. An alternative check of expected "ordinary flow"

using low-velocity, non-erosive flows indicates that a lower depth of flow could be expected, as the 2-yr RI Flow (based on hydrology for this watershed) returns a value of approximately 128 CFS:

Assumed Depth of Flow, Ft.	JD Width, Ft.	Area of Discharge, SF	Ordinary Flow estimate, CFS
12-inches	55 (baseline)	50.1	128 (RI=2) ³
8-inches	55	36.9	77
6-inches	55	27.7	48

Exhibit 4: Sensitivity Analysis, documenting that the Area of Discharge of 50.1 SF could be considered conservative. The adjustments to the depth of flow yield reductions in the ordinary flow. Because the site characteristics include the near vertical incisement and lack traditional overbank flow, the JD width was assumed as the entire edge-to-edge width. It is plausible that given the relatively flat bottom width⁴, the flows lower than the 2-yr RI (more commonly used as ordinary flows) could substantially reduce the baseline width, thus demonstrating the conservative nature of the proposed JD footprint used in calculating Impact Areas. The calculations document that a 43% increase in the impact area would still result in both disturbed area and net loss of wetlands far below the 1/10th acre PCN threshold.

The baseline width took into consideration Navajo Nation Bank Erosion Hazard Index (BEHI) classification, which indicates low to moderate potential in the immediate vicinity, either due to particle size/bank angle, or bank height to bankfull depth, particularly for the downstream channel.⁵



Exhibit 5: Upstream bank angle, bank height to bankfull depth ratio, and limited stratification, in support

³ Source: USGS Streamstats, analysis performed 6/8/22, and attached to this memo-

⁴ Please reference discussion on culvert barrel quantity and placement, which includes rationale for assigning the JD width as the entire 65' base of channel upstream and downstream of the road crossing.

⁵ Although the O/6 ratio is somewhat low in the upstream curve approximately 270-LF from the crossing, the combination of the hard-surfaced exposed material with minimal stratification, and distance from the point of tangency of the curve to the proposed crossing, offset any moderate to high BEHI potential, and impact to Proposed JD width. The gradual slope of the opposite bank (inside curve) indicates a plausible rationale for assuming that any shift in this upstream area due to bank erosion would be similarly offset by a proportionate increase of the inside curve width, thus stabilizing the channel width.

of assumed moderate to low bank erosion potential, as classified in the NN BEHI, validating the stability of the Proposed JD width

Impact of Culvert Barrel Quantity and Placement on 401/404

As seen in Exhibit 6, Proposed Crossing Profile, the elevations shown at the centerline of the existing road profile demonstrate a constriction of flow between Sta 4+75 to 5+15. The County asserts that this is an artificial constriction due to deposition of road surface material, and not representative of the natural channel base. The engineering hypothesis is that this constriction results in accelerated velocities which erode into the lowest portion until a steady state condition exists following washout of portion of the road, thus resulting in making the road impassable. The width of the seasonal washout is based upon the recurrence interval of the flow. Upstream and downstream photographs support the theory that absent the road, the natural channel width of 55-65' would be maintained.



Exhibit 6 Proposed Crossing Profile. Excerpt from Construction Details Exhibit of Profile and Cross-Section, attached as Sheet 2 of 4 The profile illustrates the hydraulic functionality of the ordinary flow conditions, as well as the 100-yr RI flow conditions which allows for up to 0.75° overtopping flow. Although not federally funded, County Engineering considers benefit/cost ratios in sizing the project. Note that this centerline profile taken at the road shows a channel with traditional overbank conditions. The County asserts that this does not represent the channel width observed in the field and validated using aerial photographs of the stream cross-section upstream and downstream of the crossing.

The County asserts that placement of the barrels across the entire apparent channel width performs several functions, and may run counter to conventional wisdom regarding impact that "less is better":

- Placement of culvert across the entire channel width limits the cross-sectional obstruction to flow to only the area between the pipe. This area is offset by the more efficient flow characteristics (and designed increased cleansing velocities) of the culvert:
- Providing the larger flow width across the entire channel more closely matches the ordinary flow conditions which permit the watercourse to meander within the existing

channel, or to match low-velocity sheet flow conditions across the entire length of the channel,⁶

- Flow across the larger width should more closely match natural flow conditions of turbidity and scour, in turn more closely matching natural conditions to minimize impact to potential aquatic lifeforms which may present themselves during seasonal runoff;
- 4) The reduced obstruction to flow provides passage of runoff which more closely matches the upstream and downstream conditions both in Froude Number and velocity, thereby attempting to match the natural balanced state of sediment transport in the upstream and downstream channel configuration;
- 5) The larger number of barrels provides a greater mitigating restoration of area by pipe, (lowering the potential loss of wetlands) in lieu of an elevated road prism which would force and constrict flow into a lower number of barrels. This in turn would increase velocities and the potential for sediment transport and deposition downstream;

Summary of Discharge Areas Into Proposed WOTUS

As documented in the previous sections, the impact to the proposed JD of VVOTUS is summarized as:

Area	Source of Discharge	Area of Discharge, SF
Total Area of Disturbance	Permanent discharge of construction materials including concrete, rip-rap, and CMP culvert.	4,860 SF
Potential Loss of Wetlands (JD Area)	Area within proposed JD, limited to permanent discharge of road embankment and culvert	4,860 SF
Mitigation Area	Area restored through open CMP culvert	1,800 SF
	Net Potential Loss of JD Area	3,060 SF < 1/10 th Acre ⁷

Exhibit 7: Summary Discharge Table

This memo and accompanying exhibits, document the County's analysis, that the County's work along C-579 within the Burro Wash watercourse--if the areas within the project were found to be Jurisdictional Waters of the U.S.--would qualify under the USACE NWP 14, and not require a Pre-Construction Notification (PCN):

- 1) The rationale for estimating the Proposed JD areas are provided in this document;
- A sensitivity analysis for the most significant area, the channel cross-section, demonstrates that this area may be greater in area than the actual JD, supporting the County's assertion that the impact areas are conservative;

⁶ One objective of the design is to avoid changes in sediment transport, thereby minimizing the need for cuiven cleaning

⁷ The County submits that this total acreage is considered conservative, and has included in this documentation rationale and calculations demonstrating that this area may be substantially reduced with a formal Jurisdictional Delineation. Please see Exhibit 4, table of Sensitivity analysis, and attachment documenting calculations for further explanations.

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- All of the proposed barrels are assumed within the proposed JD, further mitigating any impact areas;
- 4) Under the most conservative assumptions, the cumulative total of the discharge is far below the PCN threshold for a Nationwide Permit 14.

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- The County has taken a conservative approach of assuming the watercourse would be considered jurisdictional, and proposed a conservative limit for the jurisdictional delineation;
- The project as proposed does not block, retard, or redirect potential WOTUS;
- The proposed design, providing flow capability across the entire existing cross-section at the road, provides hydraulic functionality to accommodate broad sheet flow conditions in flow conditions less than the presumed Ordinary Flow of 128 CFS.
- The impact areas and potential loss of proposed Jurisdictional Waters are far less than the Pre-Construction Notification Limits.

Alexinents

- 1. C-579 Burro Wash Exhibits showing areas of impact
- 2. Design and 404 Permit Calcs
- 3. Streamstats Hydrology for the Project Area with Bankfull Depths
- 4. Related open-channel flow calculations in support of the proposed JD width, and hydraulically validating the assumed OHWM
- 5. Related culvert sizing and hydraulic calculations



C-579 Design and 404 Permit Caics

Sheet 4 of 4

ia S d . Status

Ordinary Waters Assume 55' base width, 0.5:1 55, 1:1 55 Jelf 5 taken from spot elevations averaged through stream using Google Earth Based on 2-yr peak (128 CFS) as Ordinary Waters n=0.025, base elev 6163, OHVM assumed 6164.5

128 0 004348 0 9 2 555 Suboritical

Burro Wash		
Structural fill	1 2032 SF	an a
Area, within 50, som Astocate Dwg. 1080 (some	856	
Assumed Depin	973.0 CY	
Volumer of bounds (artisis (D)	0.0	
CLC diamator	ADET	
Unit diameter	50.01F	
Lengarth each barren	-209.4 CY	
Less volume of pipe	713.5 CY	Imported Select
Stabilization Foundation Fill below pipe		
Area wathin JD, Irom AutoCAD Dwo	2937 SF	
Assume 3' depih	325.78 CY	Imported Select
Riprop Pad		
US Area, within JD, sealed from DWG	0 S?	
DS Area, within JD, sealed from DWG	923 SF	
Depin	3 h	
	102.55 CY	County Quarry.
Apron with Outoff Wall		
(1x65x8) + (3x65x1), 2 s des	52.95 CY	Structural Concrete
Concrete Facing-within Proposed WUS		
Facing width \neq 12', L=65' avg, T=0.5', 2 sider	28 89 CY	Structural Concrete
Concrete Road-within Proposed WUS		
l. ≈65', T≈0.5, W×28'	33.70 CY	Structural Concrete
Impact Area and Discharge Into Presumed JD	A ANA SENI	
Disturbed area, within JD, scaled from AutoCAD DWG	4,860 57 11	
Potential Loss of weilands, scaled from AutoCAD DWG	4,850 57	
Miligztion (restoration of area) by pipe	1,600 3/5	
	0.0702 65	1 0 10 Acce for PCN
	1 423529 Times inc	east is impact to trader PCN

Notes

(1) Area of crossing within Proposed JD, Excludes approaches (outside Proposed JD)

Streamstats Q

3.vr	128
5-vt	326
10-vr	527
25-vr	578
SC-vr	1220
100-yr	1620

C-579 Google Earth 1-ft elevs approximated **Summary Q Conditions**

Dia 36-inch 36-inch 48-inch 48-inch 48-inch 48-inch	Assumed Inlet Head I' with 2:1 miter I' with proj edge I' t' with 2:1 miter I' with proj edge I' with 2:1 miter	Flow Conditions Inlet Ctrl Inlet Ctrl Inlet Ctrl Inlet Ctrl Inlet Ctrl Inlet Ctrl Inlet Ctrl	Q/BBL 47.5 46.4 89.3 87.7 89.6	No. BBLS 16 16 9 9 8 8	Q. Total 760 742.4 803.7 789.3 716.8 (P2:)	Before Overtop RI 10 to 25 10 to 25 near 25 near 25 10 to 25 ck of 27	Overtop D 0.75 0.75 0.75 0.75 0.75 0.75	MWS Elev (inlet) 6169.75	Q/BBL with overtop head 53.4 51.6 105 101.8 106.9	Q Total with overtop head 854.4 825.6 945 916.2 855.2	Q-100 1620 1620 1620 1620 1620	Overtop W 158.1 158.1 221.3 221.3	Overtop v, FPS 6.46 6.70 4.24 4.61
Streams	ats Q			n maan an na na na na dhalanna		te man and the first of the second	indianales and interest in the	0:00.0	105 1 105 1	945	1620	221.3	1.07

2-yr	123
5-yr	326
10-yr	527
25-yr	878
50-yr	1220
100-yr	1620

[1] Streamstats "Bank Full" depth of approx 2.5 for tailwater; yields 9.6 FPS self-cleaning velocity at 25-yr conditions [2] Streamstats 2-yr (assumed "Ordinary flow") of 128 CFS with assumed depth of 1.6' yields 5.05 FPS cleaning velocity

Culvert Analysis Spreadsheet



Outputs:

CAPACITY = 89.3 cfs

0010-012

Manning's n value: 0.024 Entrance Coefficient, Ke: 0.7

INLET CONTROLS (Between Submerged and Unsubmerg

CMP Miter/Square/2:1 Slope



The open channel flow calculator						
Select Channel Type: Trapezoid 🗸		<u> </u>	\$			
Depth from Q	Select unit system: 1	Feet(ft)	un maaa kaasa ya ya ya ya ahaa ka a a ahaa ka k			
Channel slope: .0043478	Water depth(y): 2.88	<u>]</u> n	Bottom width(b) 55			
Flow velocity 5.341	LeftSlope (Z1): 5	10 1 (H:V)	RightSlope (Z2): 1			
Flow discharge 878	Input n value 0.035	or select r				
Calculate1	Status: Calculation finish		Reset			
Wetted perimeter 62.28	Flow area 164.4	[[f1^2]]	Top width(1) 59.31			
Specific energy 3.32	Froude number 0.57		Flow status Subcritical flow			
Critical depth 1.96	Critical slope 0.0149	[fi/fr	Velocity head 0.44			

Copyright 2000 Dr. Xing Fang, Department of Civil Engineering, Lamar University.

Trapezoid ~		ب ج د	⇒
Depth from Q V	Select unit system: Foot(ft) Y	
Channel slope: 0.0043478	Water depth(y):		Bottom width(b) 55
Flow velocity 2.555	LeftSlope (Z1): 1		RightSlope (Z2): 0.25
Flow discharge 128	Input n value 0.035	or select n	
Calculate!	Status: Celculation finishe		Reset
Wetted perimeter 57.2	Flow area 50.1		Top width(T)[56.13
Specific energy 1	Froude number 0.48		Flow status Subcritical flow
Critical depth 0.55	Critical slope 0.0218		Velocity head 0.1

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StreamStats

StreamStats Report

 Region ID:
 AZ

 Workspace ID:
 AZ20220606061649375000

 Clicked Point (Latitude, Longitude):
 36.42408, -109.88225

 Time:
 2022-06-05 23:17:20 -0700



Apache County D1 C-579 Multi-BBL Low Water Crossing

El Collapse All

> Peak-Flow Statistics

Peak Flow Statistics Parameters [Peak Region 2 Colorado Plateau 2014 5211]

Parameter Gode	Parameter Name	Value	Unlts	Wiln Limit	Mox Limit
CONTDA	Contributing Drainage Area	5.73	square miles	0 103	16617
ELEV	Mean Basin Elevation	6676,345	feet		

m.

StreamStats

Peak-Flow Statistics Flow Report [Peak Region 2 Colorado Plateau 2014 5211]

PII: Prediction Interval-Lower, Plu: Prediction Interval-Upper, ASEp: Average Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	PII	Plu	ASEp
50-percent AEP flood	128	ft^3/s	26.3	62 <u>4</u>	122
20-percent AEP flood	326	ft^3/s	93.9	1130	87.2
10-percent AEP flood	527	ft^3/s	173	1610	75.7
4-percent AEP flood	878	ft^3/s	314	2460	68.6
2-percent AEP flood	1220	ft^3/s	444	3350	66.6
1-percent AEP flood	1620	ft^3/s	589	4460	67.3
0.5-percent AEP flood	2110	ft^3/s	752	5920	68.8
0.2-percent AEP flood	2890	ft^3/s	980	8520	72.9

Peak-Flow Statistics Citations

Paretti, N.V., Kennedy, J.R., Turney, L.A., and Veilleux, A.G.,2014, Methods for estimating magnitude and frequency of floods in Arizona, developed with unregulated and rural peak-flow data through water year 2010: U.S. Geological Survey Scientific Investigations Report 2014-5211, 61 p., http://dx.doi.org/10.3133/sir20145211. (http://pubs.usgs.gov/sir/2014/5211/)

> Bankfull Statistics

Bankfull Statistics Parameters [Intermontane Plateau D Bieger 2015]						
Parameter Code	Parameter Name	Value	Units	Min Limi	t Max Limit	
DRNAREA	Drainage Area	5.73	square miles	3.62934	7579.9152	
Bankfull Statistic	s Parameters [Col	orado P	Plateau P Biege	er 2015]		
Parameter Code	Parameter Name	Value	Units	Win Limit	Max Limit	
DRNAREA	Drainage Area	5.73	square miles	3.621618	3649.980906	
Bankfull Statistic	s Parameters [US/	A Biegei	r 2015]			
Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit	
DRNAREA	Drainage Area	5.73	square miles	0.07722	59927.7393	

	-	
6/5/22 11:23 PM	·	
Bankfull Statistics Flow Report [Intermontane Plateau	D Rieger 2015	
Statistic	o Dieger 2015j	
Bieger_D_channel width	Value	Unit
Bieger_D_channel depth	11.2	ft
Bieger_D_channel cross sectional cross	0.558	ft
and the cost sectional_area	5.71	ft^2
Bankfull Statistics Flow Report [Colorado Plateau P Bied	jer 2015)	
Statistic		
Bieger_P_channel_width	Value	Unit
Bieger_P_channel_depth	7.83	ft
Bieger_P_channel_cross_sectional_area	0.282	ft
	2.25	ft^2
Bankfull Statistics Flow Report [USA Bieger 2015]		
Statistic		
Bieger_USA_channel_width	Value	Unit
Bieger_USA_channel_depth	22.9	ft
Bieger_USA_channel_cross_sectional_area	1.75	ft
	43.9	ft^2
Bankfull Statistics Flow Report [Area-Averaged]		
Statistic	Valuo	f114
Bieger_D_channel_width	11.0	onit
Bieger_D_channel_depth	0.550	Ε Γ
Bieger_D_channel_cross_sectional_area	5 71	11
Bieger_P_channel_width	7.83	ft"2
Bleger_P_channel_depth	0.282	ft
Bieger_P_channel_cross_sectional_area	2.25	ft^2
Bleger_USA_channel_width	22.9	ft
Bieger_USA_channel_depth	1.75	ft
Bieger_USA_channel_cross_sectional_area	43.9	ft^2

Bankfull Statistics Citations

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6/5/22, 11:23 PM

StreamStats

Bieger, Katrin; Rathjens, Hendrik; Allen, Peter M.; and Arnold, Jeffrey G.,2015, Development and Evaluation of Bankfull Hydraulic Geometry Relationships for the Physiographic Regions of the United States, Publications from USDA-ARS / UNL Faculty, 17p. (https://digitalcommons.unl.edu/usdaarsfacpub/1515? utm_source=digitalcommons.unl.edu%2Fusdaarsfacpub%2F1515&utm_medium=PDF&utm_

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Application Version: 4.9.0 StreamStats Services Version: 1.2.22 NSS Services Version: 2.2.0





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Guidelines for Hauling and Transporting Regulated Water for Human Consumption Navajo Nation Environmental Protection Agency Public Water Systems Supervision Program

This document provides Guidelines for Hauling and Transporting Regulated Water for Human Consumption for use by companies, associations, and individuals who deliver/ haul potable water to the public. These guidelines have been developed to provide technical guidance for proper water hauling procedures and practices that should be followed to assure the safety of public health and water quality. Water borne illness can be minimized by using these guidelines.

Background

The Colorado Plateau consists of four states: Arizona, Utah, Colorado, and New Mexico. This is also the location of the Navajo Reservation, which according to the Official Navajo website, "covers over 27,000 square miles." (http://www.navajo.org/history.html, 2010). The Navajo Nation is the largest reservation in the United States.

Some Navajos living in rural communities across the Navajo Nation do not have access to regulated water for human consumption. Many families hauled their drinking water from unregulated water sources, windmills, community wells, or natural springs. Windmills were developed by the Navajo Department of Water Resources for livestock use. Hand pump wells were installed by the Public Health Service (PHS) in the 1950's and 1960's to help Navajos address the need for water. Most hand pump wells were placed in washes. Natural springs are natural flowing water coming out of the ground and /or sandstone and do not have infrastructure (pipe or other fixtures). Studies from Northern Arizona University with the Native American Cancer Research Partnership show that people who reside in rural isolated communities in the Southwest portion of the Navajo Reservation use unregulated water for human consumption. The Cameron and Leupp Chapters' isolated rural communities use unregulated water sources as their primary source for drinking water. The University Of New Mexico's Community Environmental Health Program (C.E.H.P.) and the Dine Network for Environmental Health Project (DiNEH Project) showed similar results within the Eastern Agency, where unregulated water sources are used as their primary drinking water sources for human consumption.

In an effort to understand the water quality from these unregulated water sources across the Navajo Nation, the NNEPA, along with the U.S. Environmental Protection Agency (USEPA), Region 9, and the Centers for Disease Control and Prevention (CDC) have been taking water samples from known unregulated water sources that communities have been using. The results show that some of the wells are high in heavy metals exceeding primary and secondary drinking water standards. The results also show that there are a number of cases of water borne bacteria, a concern for public health. NNEPA in collaboration with USEPA, Region 9, and CDC will continue sampling water sources.

Wells exceeding the primary standards have been tagged by the NNEPA with a yellow flyer stating that the well exceeds the primary standards for human consumption. The DiNEH Project with USEPA, Region 9, began an outreach campaign in the communities of Cameron, Leupp, and the Eastern Navajo Agency, where it is known that community members use unregulated water source as their primary source for drinking water. The collaborators attended chapter planning meetings, provided handouts, and developed promotional items in the Navajo and English languages.

USEPA, through the Indian Set Aside funds of the Safe Drinking Water Act, and the Indian Health Service have worked to address the lack of access to drinking water issue. Many drinking water projects were funded by these organizations and most recently, USEPA, Region 9, awarded the Navajo Nation with five water hauling trucks to deliver potable water to homes or communities that have no access to regulated water sources. While addressing access to safe water these water hauling guidelines should further promote safe water hauling practices.

Project Objective

The project objective is to promote safe hauling practices in transporting regulated water for human consumption.

There are two classes of water haulers identified. They are:

- a) Bulk Water Hauler- Bulk water haulers use commercial vehicles to haul water to homes or communities using a 1000 gallon drum, or more, to community members. Bulk water haulers are also people that have use trailers or have water containers mounted on their vehicle.
- b) Light Water Hauler- Light water haulers using less than 1000 gallon drums or less, to haul potable water for human consumption.

Container

The types of containers that are recommended for bulk water hauling include:

- a) A FDA approved bulk water hauling unit that is only used for human consumption and will not be used for livestock water hauling.
- b) An inspected and approved bulk water hauling unit that is mounted on a truck or a trailer.
- c) Mounted water haulers and trailers should be certified by National Sanitation Foundation (NSF) or American Water Works Association (AWWA) standards. Stainless steel material is recommended for mounted bulk water haulers and people using trailer.

Registration/Inspections/ Samples

- All bulk water haulers who supply water for potable use must register with the Navajo Nation EPA, Public Water Systems Supervision Program. For the light water haulers, it is recommended that they follow the Guideline for Hauling and Transporting Regulated Water for Human Consumption. (i.e., this documents)...
- 2) The NNEPA, Public Water Systems Supervision Program will inspect all facilities to be used by the bulk hauler and the hauler's records of the past year to assure compliance with the requirements in these guidelines.
- 3) Following registration, the NNEPA, Public Water Systems Supervision Program will conduct periodic inspections. A certified water operator will be required to collect water samples for bacteriological and /or chemical analysis as deemed necessary for the equipment being used to haul water.
- 4) The combine chlorine residual in the water being hauled should have a minimum level of 0.2 mg/L, thereby combating bacterial problems. Chlorine residual information will be kept in a log book by the water haulers. If the water is being hauled from a regulated water source, the bulk water nauler should be tested once a month.

Source

- 1) Water shall be obtained from a regulated public water system.
- 2) All transported water shall be proven bacteriological safe and comply with the primary drinking water standards. The National Primary Drinking Water Regulations from US EPA is attached at the end in the appendix. The web address is <u>http://water.epa.gov/drink/contaminants/index.cfm</u> for the National Primary Drinking Water Regulations. Navajo Tribal Utility Authority has a Consumer Confident Report on their website at <u>http://ntua.com/ccr.html</u>
- 3) Water shall be obtained from a predetermined point of access to the public water system. Information about this point of access (e.g., location, frequency of use) is submitted to the NNEPA, Public Water Systems Supervision Program prior to its use. The water should be withdrawn from the treatment plant and not from fire hydrants or dead-end lines.
- 4) All water supply valves must be in good condition and must not leak.
- 5) There must be a backflow prevention device in place to prevent that as well.

Handling of Equipment

- A bulk water hauling container used for hauling other than potable water shall not be used and will not be approved unless their prior use and reconditioning is documented that the container does not pose a public health risk and the use of the reconditioned container is approved by the NNEP, Public Water Systems Supervision Program.
- 2) All tankers shall be marked clearly with a sign "Drinking Water Only"
- 3) A protected vent must be provided for each tanker to assure that negative pressures do not occur during delivery which might create a potential for backflow from the customer's system.

- 4) There shall be a covered opening of sufficient size to enable the inside of the tank to be cleaned and inspected.
- 5) All the water contact surfaces shall be smooth, impervious and free of corrosion. Coatings must be non-toxic and of a type that will not flake off in the water. Only non-toxic coatings approved by the NSF may be used on the water contact surfaces.
- 6) The water hose must be for potable water use only. Any other equipment used besides hoses such as extension pipes must be cleaned with proper disinfection methods. The hoses must be made for drinking water, such as those for RVs and boat.
- 7) Bulk water haulers must clean, disinfect, and maintain the water truck after each delivery. A log book to document each delivery, each cleaning, each disinfection, and each sampling event is recommended. The log book must be made available to the NNEPA personnel that inspect the equipments.
- 8) No bulk water hauler shall have water stored in the tank overnight.

Records

- 1) Each hauler must keep a detailed log for at least one year after delivery which includes:
 - a. The course of water and its points of withdrawal.
 - b. Date and time of pick-up and delivery.
 - c. The name of the driver of (or other responsible person with) the tank truck.
 - d. Free Chlorine residual.
 - e. Description of maintenance activities, such as cleaning and disinfection of the trucks and containers.
 - f. Record of inspections, including follow-up activities resulting from the inspection results.

Water Storage Equipment

- 1) The water drums that are being utilized by the customers for storage must comply with the FDA requirement for storing potable water.
- 2) The hose must be properly stored when not in use. The hose must not be left lying around. The hose must be at least a foot of the ground.
- 3) The water drums that are being use for human use shall not be used for hauling livestock water. The water storage must be dedicated for the storage of potable water.

Cleaning of Food Containers Used for Hauling Water

Plastic milk jugs or other food containers may be used for hauling water. However, prior to their use, they must be cleaned using the following procedures:

- 1) Scrub and rinse with warm water. Use a bottle brush, if needed, especially for milk jugs.
- 2) Clean with dish soap and hot water.
- 3) Rinse completely with warm water.

- 4) Disinfect by filling the containers with a mixture of 3 teaspoons of household chlorine bleach for every 5 gallons of water. Let the bleach mixture stand for 30 minutes. Empty the water and bleach mixture down the sink.
- 5) Rinse the container with clean water from the regulated water source.

Monthly Cleaning of Water Barrels

- 1) Mix 3 teaspoons of household chlorine bleach for every 5 gallons of water. Clean all hoses and any other water hauling equipment with the water and bleach.
- 2) Rinse the container and all other equipment with clean water.
- 3) Fill tank with a mixture of 3 teaspoon of household bleach for every 5 gallons of water to disinfect the tank. Let bleach and water stand in the tank until ready to use or at least 30 minutes. Empty the water and bleach mixture prior to use.
- 4) Rinse the container again with clean water from the regulated water source.

Light Water Hauler

An individual who haul water for personal use and who does not intend to redistribute the water (i.e., light water hauler) should follow these guidelines. Information regarding access to regulated water for human consumption will be made available by NNEPA at Chapters Houses, post offices, clinics, and/ or other appropriate places. NNEPA, Public Water Systems Supervision Program (PWSSP) has water point maps available to light water haulers. These maps show the locations of regulated water hauling points for each community.

Sources

- 1) A map of where the regulated water points will be made available to chapters for their communities by NNEPA, Public Water Systems Supervision Program.
- 2) The public will be informed not to drink from windmills, unregulated community wells, and natural springs that are not regulated and do not meet the Navajo Nation Safe Drinking Water Act requirements. The Navajo EPA issued a health advisory about the use of unregulated wells on the Navajo Nation in the April 2009 Progress Report under the Five Year Plan.

Training

The Bulk Water Hauler will be trained to clean, disinfect, and maintain the water storage tank and to maintain logs to document these activities. The individual will be informed of the health risk associated with heavy metals and water-borne bacteria.

Training of Bulk Water Haulers

The training of bulk water haulers will be conducted by Navajo EPA, Public Water Systems Supervision Program, with partnership from other Navajo Agencies to conduct training at chapter houses across the Navajo Nation. The time and location will be announced prior to the training. The equipment that is going to be needed for the training will be provided by Navajo EPA, Public Water Systems Supervision Program.

Training of Light Water Haulers

The Light Water Hauler who hauls water for their own use will be educated on safe practices (e.g., cleaning of barrels and hose fittings). The information will focus on water barrel usage, hoses, and cleaning the water storage drums. The water barrel usage will focus on the kinds of barrels that are safe to use for storing water. The Light Water Hauler and the community will also be informed on the kinds of hoses that are safe to use when it comes to water usage. The hoses should be labeled "Drinking Water Only".

The Navajo EPA, Public Water Systems Supervision Program will take the lead in this joint effort to educate the public about safe water hauling practice. The equipment will be provided by Navajo EPA. There will be an announcement on the training at the chapter house.

Bibliography

History of the Navajo. (2010) *Introduction*. Retrieved from <u>http://www.navajo.org/history.html,_access</u> on May 25, 2010.

Indian Health Service, Indian Health Service Sanitation Facilities Construction Program (93.445). Retrieved from <u>http://www.federalgrantswire.com/indian-health-service-</u>sanitation-facilities-construction-program.html, access on June <u>2</u>, 2010.

Ariz. Admin. Code § 18-4-214

Current through Register Vol. 29, No. 1, January 6, 2023

Section R18-4-214 - Hauled Water A. All hauled water for delivery to a public water system shall be obtained from a source that is approved pursuant to 18 A.A.C. 5, Article 5, or a regulated public water system. B. Materials or products that come into contact with the water shall comply with R18-4-213(B). C. Roof hatches shall be fitted with a watertight cover. D. A bottom drain valve or other provisions to allow complete drainage and cleaning of a water transport container shall be provided. E. Hoses that are used to deliver drinking water shall be cquipped with a cap and shall remain capped when not in use. F. A water hauler shall, at all times, maintain a residual free chlorine level of 0.2 mg/l to 1.0 mg/l in the water is loaded into the container. The residual free chlorine level shall be measured each time water is off-loaded from the container. The water hauler shall maintain a log of all on-loading, chlorine disinfectant additions and residual-free chlorine measurements. Such records shall be maintained for at least three years and made available to the Department for review upon request.G. A water transport container shall be for hauling drinking water only. The container shall be plainly and conspicuously labeled "For Drinking Water Use Only."

Adopted effective August 8, 1991 (Supp. 91-3). Section repealed, new Section adopted effective April 28, 1995 (Supp. 95-2). Amended by final rulemaking at 8 A.A.R. 3046, effective May 1, 2002 (Supp. 02-3). Section R18-4-214 repealed; new Section renumbered from R18-4-125 and amended by final rulemaking at 14 A.A.R. 2978, effective August 30, 2008 (Supp. 08-3).

COST AND DELIVERY SCHEDULE DETERMINATION SAMPLE WORKSHEET

Collective Medicine - Water Warriors United							
Chuska Mountain Chapter Area - Resident Water Hauling Budget Proposal							
	(Estimate for Rock Point and Rough Rock one day each a week)						
WEEKLY BUDGET PROPOSAL	NEEKLY BUDGET PROPOSAL PRIORIZATION, GALLON & FREQUENCY						
Hourly Wages	\$ 440.00	\$27.50/hour * 8 hours * 2 days	# in household				
Mileage	\$ 75.00	IRS rate * 60 miles/day on site	Primary drinking source				
	\$ 125.00	IRS rate * 200 miles roundtrip from hub	Elder only				
Subtotal	\$ 640.00		Elders in household				
Indirect Costs (10%)	\$ 64.00	includes maintenance and insurance	Duration of Use				
Weekly Total	\$ 1,344.00	for entire RR and RP area					
Monthly Total	\$ 5,824.00	for entire RR and RP area	COST ANALYSIS AND COMPARISON				
Yearly Total	\$69,888.00	for entire RR and RP area	0.006 average US/gallon				
			0.43 average NN/gallon				
Monthly Total per Household	\$ 145.60	based on 40 households	average WWU/gallon				
Yearly Total per Household	\$ 1,747.20	based on 40 households					

Rock Point



Map data © OpenStreetMap contributors, Microsoft, Facebook, Inc. and its affiliates, Esri Community Maps contributors, Map layer by Esri

Rough Rock



Map data © OpenStreetMap contributors, Microsoft, Facebook, Inc. and its affiliates, Esri Community Maps contributors, Map layer by Esri





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