

**Application for a Certificate of Environmental
Compatibility**

**Rio Rico to Harshaw
138 Kilovolt Transmission Line Project**

Exhibit J-1

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Rio Rico to Harshaw 138kV Transmission Line Project

Stakeholder Contact List



Organization Name	Last Name	First Name	Title	Address	City	State	Zip Code	Email Address
Sector: Business								
Fresh Produce Association of the Americas	Jungmeyer	Lance		590 E. Frontage Rd.	Nogales	AZ	85621	info@freshfrommexico.com
Sector: County								
Greater Nogales Santa Cruz County Port Authority	Chamberlain	Jaime	Chair					jaime@chamberlaindistributing.com
Sector: Federal								
	Reynolds	Emily						emily.reynolds@usda.gov
Office of U.S. Congressman Raul Grijalva, District 3	Reyes	Ruben	District Director	101 W Irvington Rd, Bldgs 4 &5	Tucson	AZ	85714	ruben.reyes@mail.house.gov
Office of U.S. Congresswoman Ann Kirkpatrick	Kovacs	Billy	District Director	1636 N. Swan Rd	Tucson	AZ	85701	billy.kovacs@mail.house.gov
Office of U.S. Senator Kyrsten Sinema	Kimball	Troy	Constituent Affairs Representative	20 E. Ochoa St	Tucson	AZ	85701	troy_kimball@sinema.senate.gov
Office of U.S. Senator Mark Kelly	Avalos	Karla	District Director	TBD				karla_avalos@kelly.senate.gov
Tumacacori National Historic Park	Medrano	Mike	Park Superintendent					mike_medrano@nps.gov
U.S. Border Patrol, Tucson Sector	Delgadillo	Juan						JUAN.M.DELGADILLO@CBP.DHS.GOV
	Edmison	Stephen						STEPHEN.T.EDMISON@CBP.DHS.GOV
	Hart	Harry	Director of Logistics					HARRY.J.HART@cbp.dhs.gov
U.S. Customs and Border Protection, Tucson Field Office	Goncalvez	Armando	Assistant Director, Trade & Cargo Security					Armando.goncalvez@cbp.dhs.gov
USFS Coronado National Forest	Hansen	Alysa	Special Uses Program Manager	300 W Congress St	Tucson	AZ	85701	alysa.hansen@usda.gov
	Kinsey	Daisy	Sierra Vista District Ranger	4070 South Avenida Saracino	Hereford	AZ	85615	celeste.kinsey@usda.gov
	Lehew	Mindi						
USFS Coronado National Forest - Supervisor's Office	Dewberry	Kerwin	Forest Supervisor	300 W. Congress St.	Tucson	AZ	85701	kerwin.dewberry@usda.gov
Sector: Local Government								
City of Nogales	Bojorquez	The Honorable Hector	Councilman	777 N Grand Ave	Nogales	AZ	85621	hebojorquez@nogalesaz.gov
	Bonilla	The Honorable Saulo	Councilman	777 N Grand Ave	Nogales	AZ	85621	sbonilla@nogalesaz.gov
	Diaz	The Honorable Joe	Councilman	777 N Grand Ave	Nogales	AZ	85621	jdiaz@nogalesaz.gov
	Dickie	Edward	City Manager					edickie@nogalesaz.gov
	Garino	The Honorable Arturo	Mayor	777 N Grand Ave	Nogales	AZ	85621	mayorgarino@nogalesaz.gov
	Gradillas Jr.	Octavio	Council Member					ogradillasjr@nogalesaz.gov
	Kissinger	John	Deputy City Manager	777 N Grand Ave	Nogales	AZ	85621	jkissinger@nogalesaz.gov
	Maldonado	Jorge	Mayor-elect					Jorge.azmixers@gmail.com
	Melendez-Lopez	The Honorable Esther	Vice Mayor	777 N Grand Ave	Nogales	AZ	85621	emlopez@nogalesaz.gov
	Montiel	The Honorable Liza	Councilwoman	777 N Grand Ave	Nogales	AZ	85621	lemontiel@nogalesaz.gov
	Sargent	Jeffery	Fire Chief	777 N Grand Ave	Nogales	AZ	85621	jsargent@nogalesaz.gov
City of Nogales Housing Authority	Thompson	Robert	Housing Director	777 N Grand Ave	Nogales	AZ	85621	rthompson@nogalesaz.gov
Nogales International Airport	Dillon	Frank	Community Development Director	2150 N Congress St, Suite 215	Nogales	AZ	85621	FDillon@santacruzcountyaz.gov
Santa Cruz County	St. John	Jennifer	County Manager	2150 N Congress Dr	Nogales	AZ	85621	jstjohn@santacruzcountyaz.gov

Organization Name	Last Name	First Name	Title	Address	City	State	Zip Code	Email Address
Santa Cruz County Board of Supervisors	Bracker	The Honorable Bruce	Chairman, District 3	2150 N Congress Dr	Nogales	AZ	85621	bbracker@santacruzcountyz.gov
	Molera	The Honorable Rudy	Supervisor, District 2	2150 N Congress Dr	Nogales	AZ	85621	rmolera@santacruzcountyz.gov
	Ruiz	The Honorable Manuel	Vice-Chairman, District 1	2150 N Congress Dr	Nogales	AZ	85621	mrui@z@santacruzcountyz.gov
Santa Cruz County Flood Control District	Hays	John	Floodplain Coordinator	275 Rio Rico Dr	Rio Rico	AZ	85648	jhays@santacruzcountyz.gov.
Santa Cruz County Public Works	Valdez	Jesus	Public Works Director	275 Rio Rico Drive	Rio Rico	AZ	85648	jjvaldez@santacruzcountyz.gov
Town of Patagonia	Claverie	The Honorable A. Francesca	Council Member	P.O. Box 767	Patagonia	AZ	85624	councilorclaverie@patagonia-az.gov
	Finch	The Honorable Steve	Council Member	P.O. Box 767	Patagonia	AZ	85624	councilorfinch@patagonia-az.gov
	Norton	Todd	Planning and Development Chair	P.O. Box 767	Patagonia	AZ	85624	
	O'Neil	Patrick						
	Reibslager	The Honorable Ron	Council Member	P.O. Box 767	Patagonia	AZ	85624	councilorreibslager@patagonia-az.gov
	Robinson	Ronald	Town Manager	P.O. Box 767	Patagonia	AZ	85624	manager@patagonia-az.gov
	Stabile	The Honorable Michael	Vice Mayor	P.O. Box 767	Patagonia	AZ	85624	councilorstabile@patagonia-az.gov
	Wood	The Honorable Andrea	Mayor	P.O. Box 767	Patagonia	AZ	85624	mayorwood@patagonia-az.gov
Sector: State								
ADOT Historic and Scenic Roads	Ligocki	Clemenc	Planning and Program Manager					cligocki@azdot.gov
Arizona Capital Complex, Room 111	Wilmeth	The Honorable Justin	Arizona House of Representatives, LD 2	1700 W Washington St	Phoenix	AZ	85007	jwilmeth@azleg.gov
Arizona Capital Complex, Room 120	Schwiebert	The Honorable Judy	Arizona House of Representatives, LD 2	1700 W Washington St	Phoenix	AZ	85007	jschwiebert@azleg.gov
Arizona Capital Complex, Room 303B	Gabaldon	The Honorable Rosanna	Arizona State Senate, LD 2	1700 W Washington St	Phoenix	AZ	85007	rgabaldon@azleg.gov
Arizona Capital Complex, Room 324	Hernandez	The Honorable Daniel	Arizona House of Representatives, LD 2	1700 W Washington St	Phoenix	AZ	85007	dhernandez@azleg.gov
Arizona Capital Complex, Room 325	Dalessandro	The Honorable Andrea	Arizona House of Representatives, LD 2	1700 W Washington St	Phoenix	AZ	85007	adalessandro@azleg.gov
Arizona Department of Mines and Minerals	Bellassai	Randi	Assistant Director	1955 E 6th St	Tucson	AZ	85719	rbellassai@email.arizona.edu
Arizona Department of Transportation	Lane	Roderick	District Engineer	1221 S Second Ave	Tucson	AZ	85713	RLane@azdot.gov
Arizona State Parks and Recreation Department	Broscheid	Bob	Executive Director	23751 N 23rd Ave, #190	Phoenix	AZ	85085	
Office of Arizona Governor Douglas Ducey	Rivera	Lorraine	District Director	400 W Congress St, Suite 504	Tucson	AZ	85701	mmcgowan@az.gov
Office of the Governor	Ducey	The Honorable Doug	Governor	1700 W Washington St	Phoenix	AZ	85007	engage@az.gov
	Marisol	Flores-Aguirre	Southern AZ Director	400 W Congress St., Suite 504	Tucson	AZ	85701	mfloresaguirre@az.gov
Southern Arizona Office of the Governor	Lyons	Brendan	Deputy Director	400 West Congress, Suite 504	Tucson	AZ	85701	mmcgowan@az.gov
Sector: Unknown								
	Carranza	Gaston						
	Felix	Georgina						
	McGowan	Mary						
	Sotero	Andrew						
Sector: Utility								
International Boundary & Water Commission	Light	John	Area Operations Manager NIWTP	865 E. Frontage Road	Rio Rico	AZ	85648	john.light@ibwc.gov
Kinder Morgan	Goudy	Kevin						Kevin_Goudy@kindermorgan.com
	Posey	Richard						richard_posey@kindermorgan.com

Organization Name	Last Name	First Name	Title	Address	City	State	Zip Code	Email Address
Kinder Morgan	Sims	Kelley						Kelley_Sims@Kindermorgan.com
Lumen	Figueroa	Guillermo	Sr. Network Implementation Program Manager					luis.figueroa@lumen.com
	Hicks	Nate	Interim Manager					nate.hicks@lumen.com
	Porter	Robert						robert.porter@lumen.com

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**Application for a Certificate of Environmental
Compatibility**

**Rio Rico to Harshaw
138 Kilovolt Transmission Line Project**

Exhibit J-2

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Rio Rico to Harshaw 138kV Transmission Line Project

Stakeholders Meeting 1 Attendance Report



Organization Name	Last Name	First Name	Title	Address	City	State	Zip Code	Email Address
AttMtg1 <input checked="" type="checkbox"/>								
RSVP Mtg 1 Status Accepted10								
Sector: Federal								
Office of U.S. Congressman Raul Grijalva, District 3	Reyes	Ruben	District Director	101 W Irvington Rd, Bldgs 4 &5	Tucson	AZ	85714	ruben.reyes@mail.house.gov
Office of U.S. Senator Kyrsten Sinema	Kimball	Troy	Constituent Affairs Representative	20 E. Ochoa St	Tucson	AZ	85701	troy_kimball@sinema.senate.gov
Sector: Local Government								
City of Nogales	Maldonado	Jorge	Mayor-elect					Jorge.azmixers@gmail.com
Santa Cruz County	St. John	Jennifer	County Manager	2150 N Congress Dr	Nogales	AZ	85621	jstjohn@santacruzcountyz.gov
Santa Cruz County Board of Supervisors	Bracker	The Honorable Bruce	Chairman, District 3	2150 N Congress Dr	Nogales	AZ	85621	bbracker@santacruzcountyz.gov
Sector: State								
Arizona Capital Complex, Room 303B	Gabaldon	The Honorable Rosanna	Arizona State Senate, LD 2	1700 W Washington St	Phoenix	AZ	85007	rgabaldon@azleg.gov
Southern Arizona Office of the Governor	Lyons	Brendan	Deputy Director	400 West Congress, Suite 504	Tucson	AZ	85701	mmcgowan@az.gov
Sector: Utility								
Kinder Morgan	Sims	Kelley						Kelley_Sims@Kindermorgan.com
Lumen	Figueroa	Guillermo	Sr. Network Implementation Program Manager					luis.figueroa@lumen.com
	Porter	Robert						robert.porter@lumen.com
RSVP Mtg 1 Status No3								
Sector: Federal								
USFS Coronado National Forest	Hansen	Alysa	Special Uses Program Manager	300 W Congress St	Tucson	AZ	85701	alysa.hansen@usda.gov
	Lehew	Mindi						
Sector: Unknown								
	Carranza	Gaston						
AttMtg1 <input type="checkbox"/>								
RSVP Mtg 1 Status15								
Sector: County								
Greater Nogales Santa Cruz County Port Authority	Chamberlain	Jaime	Chair					jaime@chamberlaindistributing.com
Sector: Federal								
Tumacacori National Historic Park	Medrano	Mike	Park Superintendent					mike_medrano@nps.gov
U.S. Border Patrol, Tucson Sector	Delgadillo	Juan						JUAN.M.DELGADILLO@CBP.DHS.GOV
	Edmison	Stephen						STEPHEN.T.EDMISON@CBP.DHS.GOV
	Hart	Harry	Director of Logistics					HARRY.J.HART@cbp.dhs.gov
U.S. Customs and Border Protection, Tucson Field Office	Goncalvez	Armando	Assistant Director, Trade & Cargo Security					Armando.goncalvez@cbp.dhs.gov
Sector: Local Government								

Organization Name	Last Name	First Name	Title	Address	City	State	Zip Code	Email Address
City of Nogales	Dickie	Edward	City Manager					edickie@nogalesaz.gov
Town of Patagonia	O'Neil	Patrick						
Sector: State								
ADOT Historic and Scenic Roads	Ligocki	Clemenc	Planning and Program Manager					cligocki@azdot.gov
Arizona Capital Complex, Room 111	Wilmeth	The Honorable Justin	Arizona House of Representatives, LD 2	1700 W Washington St	Phoenix	AZ	85007	jwilmeth@azleg.gov
Arizona Capital Complex, Room 120	Schwiebert	The Honorable Judy	Arizona House of Representatives, LD 2	1700 W Washington St	Phoenix	AZ	85007	jschwiebert@azleg.gov
Office of the Governor	Marisol	Flores-Aguirre	Southern AZ Director	400 W Congress St., Suite 504	Tucson	AZ	85701	mfloresaguirre@az.gov
Sector: Unknown								
	Felix	Georgina						
	McGowan	Mary						
	Sotero	Andrew						
RSVP Mtg 1 Status	Accepted	5						
Sector: Federal								
Office of U.S. Congresswoman Ann Kirkpatrick	Kovacs	Billy	District Director	1636 N. Swan Rd	Tucson	AZ	85701	billy.kovacs@mail.house.gov
Sector: Local Government								
Santa Cruz County Board of Supervisors	Ruiz	The Honorable Manuel	Vice-Chairman, District 1	2150 N Congress Dr	Nogales	AZ	85621	mr Ruiz@santacruzcountyz.gov
Santa Cruz County Public Works	Valdez	Jesus	Public Works Director	275 Rio Rico Drive	Rio Rico	AZ	85648	jjvaldez@santacruzcountyz.gov
Sector: Utility								
Kinder Morgan	Goudy	Kevin						Kevin_Goudy@kindermorgan.com
	Posey	Richard						richard_posey@kindermorgan.com
RSVP Mtg 1 Status	Declined	3						
Sector: Federal								
	Reynolds	Emily						emily.reynolds@usda.gov
Office of U.S. Senator Mark Kelly	Avalos	Karla	District Director	TBD				karla_avalos@kelly.senate.gov
Sector: State								
Arizona Capital Complex, Room 324	Hernandez	The Honorable Daniel	Arizona House of Representatives, LD 2	1700 W Washington St	Phoenix	AZ	85007	dhernandez@azleg.gov
RSVP Mtg 1 Status	No	30						
Sector: Business								
Fresh Produce Association of the Americas	Jungmeyer	Lance		590 E. Frontage Rd.	Nogales	AZ	85621	info@freshfrommexico.com
Sector: Federal								
USFS Coronado National Forest	Kinsey	Daisy	Sierra Vista District Ranger	4070 South Avenida Saracino	Hereford	AZ	85615	celeste.kinsey@usda.gov
USFS Coronado National Forest - Supervisor's Office	Dewberry	Kerwin	Forest Supervisor	300 W. Congress St.	Tucson	AZ	85701	kerwin.dewberry@usda.gov
Sector: Local Government								
City of Nogales	Bojorquez	The Honorable Hector	Councilman	777 N Grand Ave	Nogales	AZ	85621	hebojorquez@nogalesaz.gov
	Bonilla	The Honorable Saulo	Councilman	777 N Grand Ave	Nogales	AZ	85621	sbonilla@nogalesaz.gov
	Diaz	The Honorable Joe	Councilman	777 N Grand Ave	Nogales	AZ	85621	jdiaz@nogalesaz.gov
	Garino	The Honorable Arturo	Mayor	777 N Grand Ave	Nogales	AZ	85621	mayorgarino@nogalesaz.gov
	Gradillas Jr.	Octavio	Council Member					ogradillasjr@nogalesaz.gov
	Kissinger	John	Deputy City Manager	777 N Grand Ave	Nogales	AZ	85621	jkissinger@nogalesaz.gov

Organization Name	Last Name	First Name	Title	Address	City	State	Zip Code	Email Address
City of Nogales	Melendez-Lopez	The Honorable Esther	Vice Mayor	777 N Grand Ave	Nogales	AZ	85621	emlopez@nogalesaz.gov
	Montiel	The Honorable Liza	Councilwoman	777 N Grand Ave	Nogales	AZ	85621	lemontiel@nogalesaz.gov
	Sargent	Jeffery	Fire Chief	777 N Grand Ave	Nogales	AZ	85621	jsargent@nogalesaz.gov
City of Nogales Housing Authority	Thompson	Robert	Housing Director	777 N Grand Ave	Nogales	AZ	85621	rthompson@nogalesaz.gov
Nogales International Airport	Dillon	Frank	Community Development Director	2150 N Congress St, Suite 215	Nogales	AZ	85621	FDillon@santacruzcountyz.gov
Santa Cruz County Board of Supervisors	Molera	The Honorable Rudy	Supervisor, District 2	2150 N Congress Dr	Nogales	AZ	85621	rmolera@santacruzcountyz.gov
Santa Cruz County Flood Control District	Hays	John	Floodplain Coordinator	275 Rio Rico Dr	Rio Rico	AZ	85648	jhays@santacruzcountyz.gov.
Town of Patagonia	Claverie	The Honorable A. Francesca	Council Member	P.O. Box 767	Patagonia	AZ	85624	councilorclaverie@patagonia-az.gov
	Finch	The Honorable Steve	Council Member	P.O. Box 767	Patagonia	AZ	85624	councilorfinch@patagonia-az.gov
	Reibslager	The Honorable Ron	Council Member	P.O. Box 767	Patagonia	AZ	85624	councilorreibslager@patagonia-az.gov
	Robinson	Ronald	Town Manager	P.O. Box 767	Patagonia	AZ	85624	manager@patagonia-az.gov
	Stabile	The Honorable Michael	Vice Mayor	P.O. Box 767	Patagonia	AZ	85624	councilorstabile@patagonia-az.gov
	Wood	The Honorable Andrea	Mayor	P.O. Box 767	Patagonia	AZ	85624	mayorwood@patagonia-az.gov
Sector: State								
Arizona Capital Complex, Room 325	Dalessandro	The Honorable Andrea	Arizona House of Representatives, LD 2	1700 W Washington St	Phoenix	AZ	85007	adalessandro@azleg.gov
Arizona Department of Mines and Minerals	Bellassai	Randi	Assistant Director	1955 E 6th St	Tucson	AZ	85719	rbellassai@email.arizona.edu
Arizona Department of Transportation	Lane	Roderick	District Engineer	1221 S Second Ave	Tucson	AZ	85713	RLane@azdot.gov
Arizona State Parks and Recreation Department	Broscheid	Bob	Executive Director	23751 N 23rd Ave, #190	Phoenix	AZ	85085	
Office of Arizona Governor Douglas Ducey	Rivera	Lorraine	District Director	400 W Congress St, Suite 504	Tucson	AZ	85701	mmcgowan@az.gov
Office of the Governor	Ducey	The Honorable Doug	Governor	1700 W Washington St	Phoenix	AZ	85007	engage@az.gov
Sector: Utility								
International Boundary & Water Commission	Light	John	Area Operations Manager NIWTP	865 E. Frontage Road	Rio Rico	AZ	85648	john.light@ibwc.gov
Lumen	Hicks	Nate	Interim Manager					nate.hicks@lumen.com
RSVP Mtg 1 Status	wrong email	1						
Sector: Local Government								
Town of Patagonia	Norton	Todd	Planning and Development Chair	P.O. Box 767	Patagonia	AZ	85624	

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**Application for a Certificate of Environmental
Compatibility**

**Rio Rico to Harshaw
138 Kilovolt Transmission Line Project**

Exhibit J-3

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Rio Rico to Harshaw 138kV Transmission Line Project

STAKEHOLDER MEETING

AUGUST 18, 2022



August 2022

Agenda

- Introductions
- Purpose and Need
- USFS Application Process
- Line Siting Process
- Revised Links & Project Description
- Preliminary Route Links
- Routing Criteria
- Project Details: Switchyard
- Project Details: Transmission Line
- Schedule
- More Information
- How to Comment
- Questions

Purpose and Need

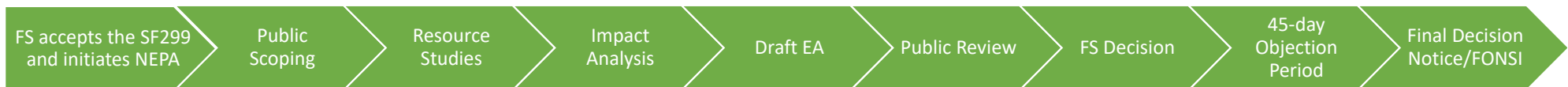
- Respond to a service request to serve the Hermosa Project, a mine exploration project currently in the pre-feasibility phase.
- Address service reliability for all electric customers in the San Rafael Valley, Washington Camp, and Lochiel areas of Southern Arizona.
- New, higher-voltage facilities would reduce potential reliability issues associated with inadequate voltage support.
- Provide additional capacity that could allow interconnections with future renewable energy projects while supporting economic development in the area.

USFS Application Process

1. Special Use Permit

2. National Environmental Policy Act (NEPA) Analysis

- Public Involvement (Scoping, DEA Review, Objection Period)
- Description of Proposed Action and Alternatives
- Disclosure of the Effects

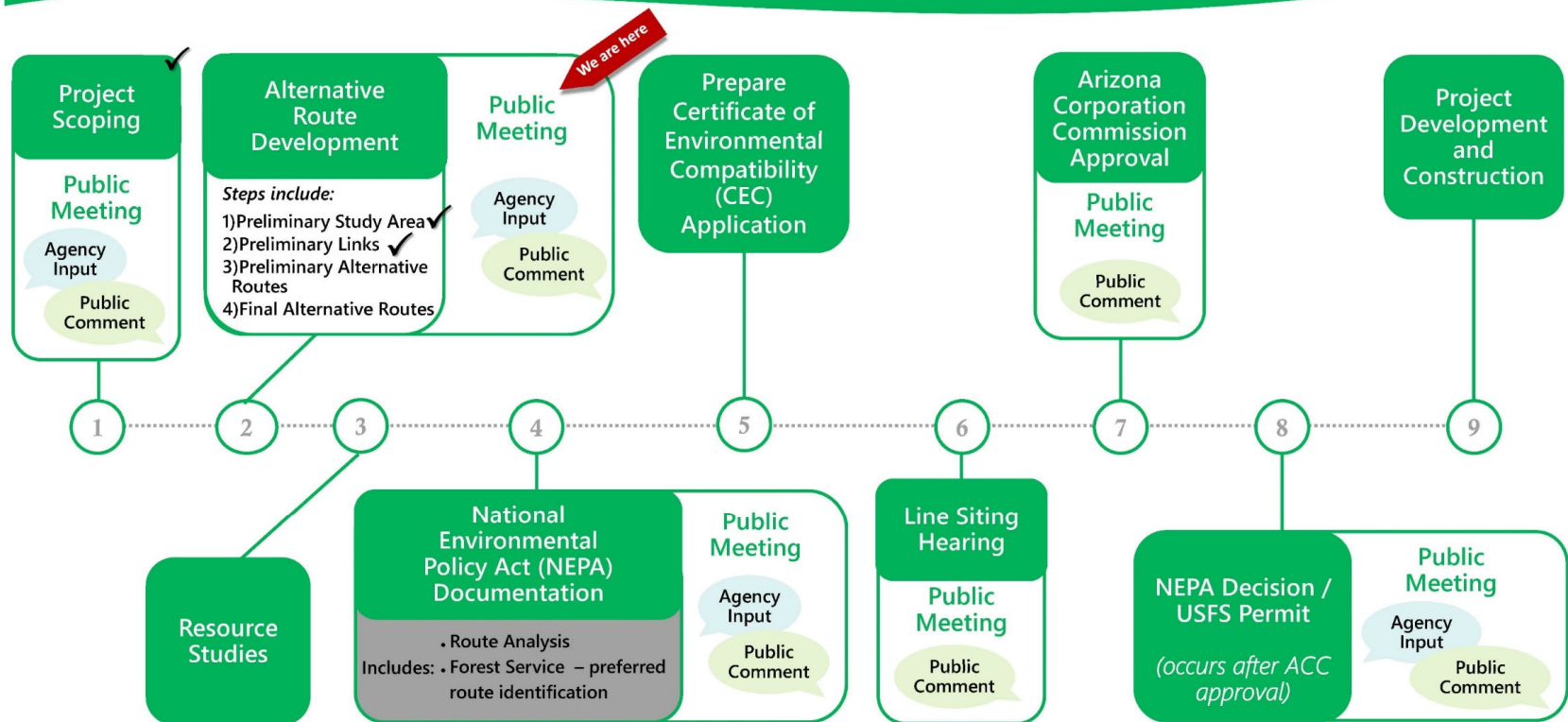


Line Siting Process

- UniSource's Line Siting Process
 - Determine routes through public outreach and environmental evaluation
- Arizona Corporation Commission Certificate of Environmental Compatibility
 - State required analysis to confirm route with most public benefit and least environmental impact

Rio Rico to Harshaw 138kV Transmission Line Project

UniSourceEnergy
SERVICES

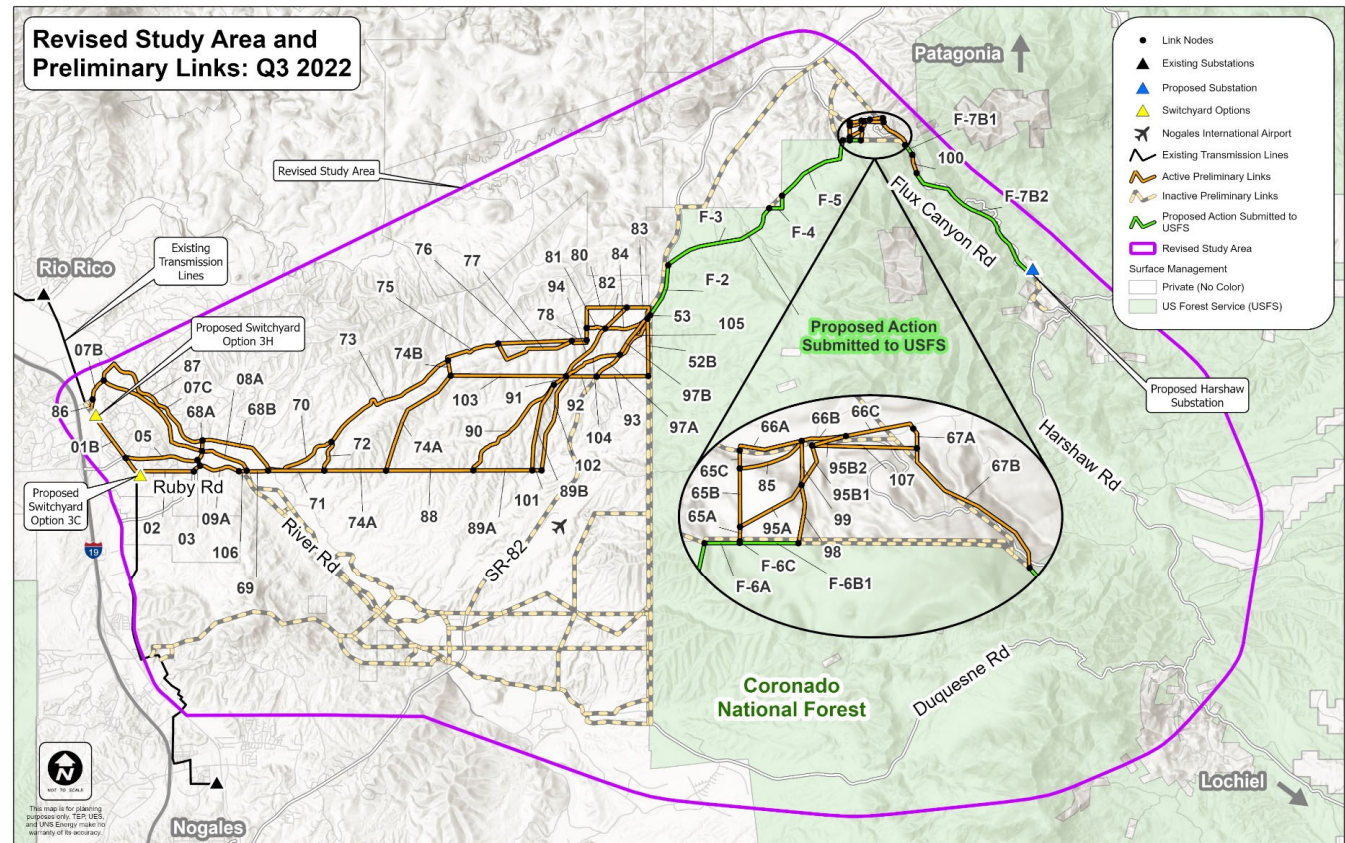


Revised Links & Project Description

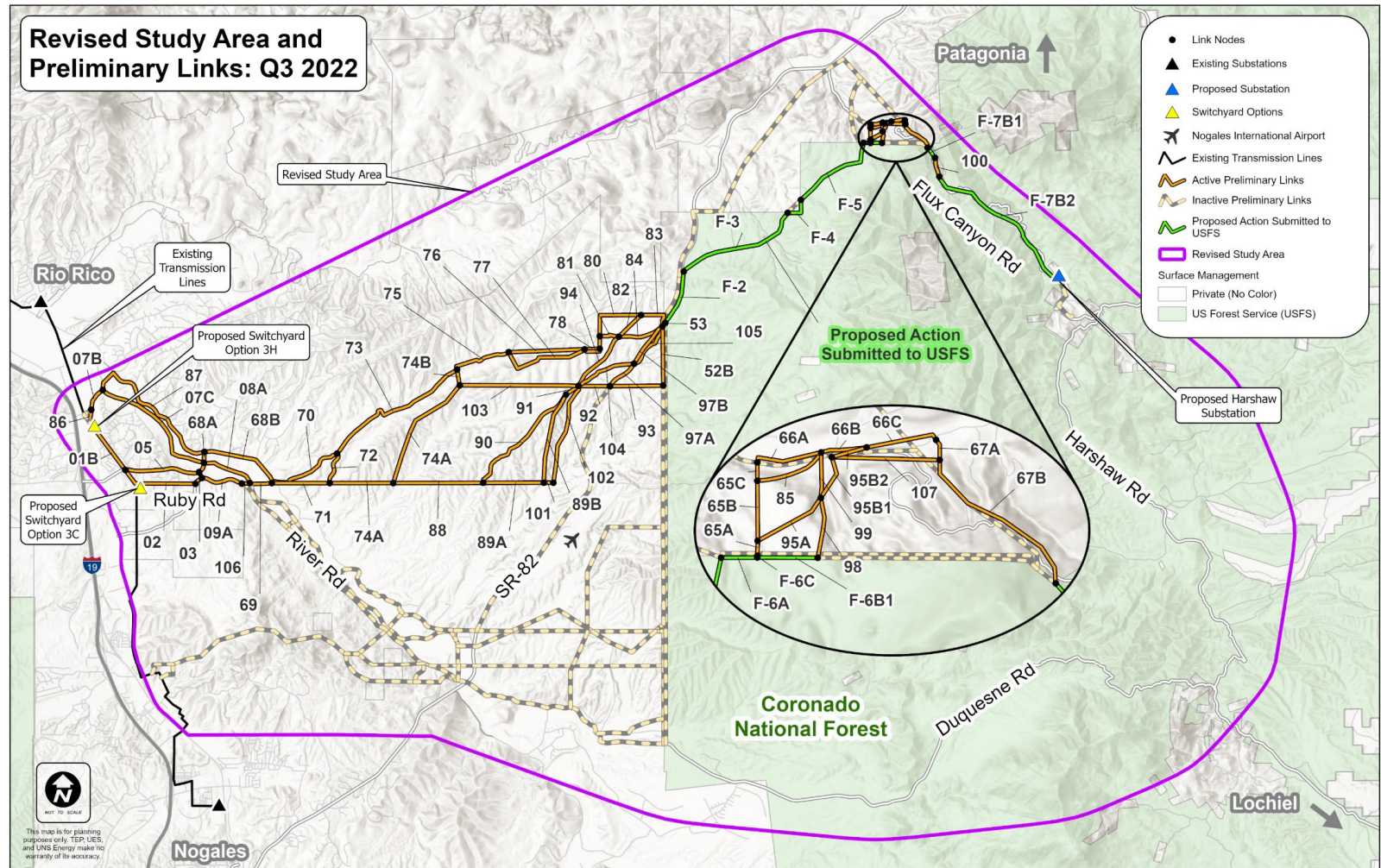
Additional links included for consideration as a result of public outreach and airport airspace requirements.

138kV transmission line between a planned switchyard in Rio Rico and the planned Harshaw Substation.

Approximately 20-30 mile, single-circuit 138 kV transmission line mounted on steel monopole structures.



Preliminary Route Links



Routing Criteria

In addition to the design considerations on the previous slide, UNSE also analyzes specific criteria in developing and selecting alternative routes. These criteria include:

- Total environment (fish, wildlife, plants)
- Existing state, local government, and private development plans including residential use
- Noise
- Recreational impacts
- Scenic areas, historic sites & structures, archaeological sites
- Interference with communication facilities
- Technical aspects
- Cost
- Other applicable federal and state laws

Project Details: Example Switchyard in the TEP system



Project Details: Transmission Line

- Self-weathering steel monopoles 75-110 feet tall.
- Up to 100-foot-wide right-of-way when not in road right-of-way.



Schedule

- Q3 2020-Q2 2021: Outreach, Preliminary studies, Preliminary route development
- Q2 2021-Q4 2022: Outreach, Environmental Analysis/Documentation, Links Development, Alternative Route Development
- Q1-2 2023: ACC CEC Application, Line Siting Hearing (Apr 2023)
- Q3 2023: ACC Decision
- Q3 2023-Q4 2023: Engineering design, Right-of-Way acquisition, Permitting
- Q4 2023: USFS NEPA Determination
- Q1 2024-Q4 2024: Construction
- December 2024: Project In-service Date

More Project Information

For more project information please visit the project webpage:

<https://www.uesaz.com/rio-rico-to-harshaw/>

Here, you will find:

- Project details including the project newsletter
- A print copy and recording of this presentation
- Commonly asked questions & answers

In future, you will find:

- Resource studies and analyses
- Public and stakeholder comments and UES responses

How to Comment

- Mail a comment form or a letter to: UniSource Energy Services ATTN: Rio Rico-Harshaw PO Box 711 Tucson, AZ 85702
- Send comments to RR2Harshaw@uesaz.com
- Visit uesaz.com/rio-rico-to-harshaw and fill out an online comment form
- Call 1-833-783-0396 and leave a voicemail message in English
- Deje un mensaje al 1-833-783-0396 y le regresaran su llamada

Questions?

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**Rio Rico to Harshaw
138 Kilovolt Transmission Line Project**

Exhibit J-4

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Rio Rico to Harshaw 138kV Transmission Line Project

Stakeholders Meeting 2 Attendance Report



Organization Name	Last Name	First Name	Title	Address	City	State	Zip Code	Email Address
AttMtg2 <input checked="" type="checkbox"/>	10							
<u>RSVP Mtg 2 Status</u> Accepted		7						
Sector: Federal								
Tumacacori National Historic Park	Medrano	Mike	Park Superintendent					mike_medrano@nps.gov
U.S. Border Patrol, Tucson Sector	Delgadillo	Juan						JUAN.M.DELGADILLO@CBP.DHS.GOV
	Hart	Harry	Director of Logistics					HARRY.J.HART@cbp.dhs.gov
Sector: Local Government								
City of Nogales	Maldonado	Jorge	Mayor-elect					Jorge.azmixers@gmail.com
Sector: State								
Southern Arizona Office of the Governor	Lyons	Brendan	Deputy Director	400 West Congress, Suite 504	Tucson	AZ	85701	mmcgowan@az.gov
Sector: Utility								
Kinder Morgan	Sims	Kelley						Kelley_Sims@Kindermorgan.com
Lumen	Porter	Robert						robert.porter@lumen.com
<u>RSVP Mtg 2 Status</u> X		3						
Sector: Federal								
U.S. Border Patrol, Tucson Sector	Edmison	Stephen						STEPHEN.T.EDMISON@CBP.DHS.GOV
USFS Coronado National Forest	Hansen	Alysa	Special Uses Program Manager	300 W Congress St	Tucson	AZ	85701	alysa.hansen@usda.gov
Sector: Local Government								
Town of Patagonia	Stabile	The Honorable Michael	Vice Mayor	P.O. Box 767	Patagonia	AZ	85624	councilorstabile@patagonia-az.gov
AttMtg2 <input type="checkbox"/>	0							
<u>RSVP Mtg 2 Status</u>		0						
Sector: State								
Arizona Capital Complex, Room 111	Wilmeth	The Honorable Justin	Arizona House of Representatives, LD 2	1700 W Washington St	Phoenix	AZ	85007	jwilmeth@azleg.gov
Arizona Capital Complex, Room 120	Schwiebert	The Honorable Judy	Arizona House of Representatives, LD 2	1700 W Washington St	Phoenix	AZ	85007	jschwiebert@azleg.gov
Office of the Governor	Marisol	Flores-Aguirre	Southern AZ Director	400 W Congress St., Suite 504	Tucson	AZ	85701	mfloresaguirre@az.gov
Sector: Unknown								
	McGowan	Mary						
	Sotero	Andrew						
<u>RSVP Mtg 2 Status</u> Accepted		9						
Sector: County								
Greater Nogales Santa Cruz County Port Authority	Chamberlain	Jaime	Chair					jaime@chamberlaindistributing.com
Sector: Federal								
Office of U.S. Congressman Raul Grijalva, District 3	Reyes	Ruben	District Director	101 W Irvington Rd, Bldgs 4 &5	Tucson	AZ	85714	ruben.reyes@mail.house.gov
Office of U.S. Congresswoman Ann Kirkpatrick	Kovacs	Billy	District Director	1636 N. Swan Rd	Tucson	AZ	85701	billy.kovacs@mail.house.gov
Office of U.S. Senator Kyrsten Sinema	Kimball	Troy	Constituent Affairs Representative	20 E. Ochoa St	Tucson	AZ	85701	troy_kimball@sinema.senate.gov

Organization Name	Last Name	First Name	Title	Address	City	State	Zip Code	Email Address	
U.S. Customs and Border Protection, Tucson Field Office	Goncalvez	Armando	Assistant Director, Trade & Cargo Security					Armando.goncalvez@cbp.dhs.gov	
Sector: Local Government									
Nogales International Airport	Dillon	Frank	Community Development Director	2150 N Congress St, Suite 215	Nogales	AZ	85621	FDillon@santacruzcountyaz.gov	
Santa Cruz County Board of Supervisors	Ruiz	The Honorable Manuel	Vice-Chairman, District 1	2150 N Congress Dr	Nogales	AZ	85621	mr Ruiz@santacruzcountyaz.gov	
Town of Patagonia	Robinson	Ronald	Town Manager	P.O. Box 767	Patagonia	AZ	85624	manager@patagonia-az.gov	
Sector: Utility									
Lumen	Figueroa	Guillermo	Sr. Network Implementation Program Manager					luis.figueroa@lumen.com	
RSVP Mtg 2 Status		Declined	1						
Sector: State									
Arizona Capital Complex, Room 303B	Gabaldon	The Honorable Rosanna	Arizona State Senate, LD 2	1700 W Washington St	Phoenix	AZ	85007	rgabaldon@azleg.gov	
RSVP Mtg 2 Status		Tentative	3						
Sector: Business									
Fresh Produce Association of the Americas	Jungmeyer	Lance		590 E. Frontage Rd.	Nogales	AZ	85621	info@freshfrommexico.com	
Sector: Federal									
Office of U.S. Senator Mark Kelly	Avalos	Karla	District Director	TBD				karla_avalos@kelly.senate.gov	
Sector: Unknown									
	Felix	Georgina							
RSVP Mtg 2 Status		X	39						
Sector: Federal									
	Reynolds	Emily						emily.reynolds@usda.gov	
USFS Coronado National Forest	Kinsey	Daisy	Sierra Vista District Ranger	4070 South Avenida Saracino	Hereford	AZ	85615	celeste.kinsey@usda.gov	
	Lehew	Mindi							
USFS Coronado National Forest - Supervisor's Office	Dewberry	Kerwin	Forest Supervisor	300 W. Congress St.	Tucson	AZ	85701	kerwin.dewberry@usda.gov	
Sector: Local Government									
City of Nogales	Bojorquez	The Honorable Hector	Councilman	777 N Grand Ave	Nogales	AZ	85621	hebojorquez@nogalesaz.gov	
	Bonilla	The Honorable Saulo	Councilman	777 N Grand Ave	Nogales	AZ	85621	sbonilla@nogalesaz.gov	
	Diaz	The Honorable Joe	Councilman	777 N Grand Ave	Nogales	AZ	85621	jdiaz@nogalesaz.gov	
	Dickie	Edward	City Manager						edickie@nogalesaz.gov
	Garino	The Honorable Arturo	Mayor	777 N Grand Ave	Nogales	AZ	85621	mayorgarino@nogalesaz.gov	
	Gradillas Jr.	Octavio	Council Member						ogradillasjr@nogalesaz.gov
	Kissinger	John	Deputy City Manager	777 N Grand Ave	Nogales	AZ	85621	jkissinger@nogalesaz.gov	
	Melendez-Lopez	The Honorable Esther	Vice Mayor	777 N Grand Ave	Nogales	AZ	85621	emlopez@nogalesaz.gov	
	Montiel	The Honorable Liza	Councilwoman	777 N Grand Ave	Nogales	AZ	85621	lemontiel@nogalesaz.gov	
	Sargent	Jeffery	Fire Chief	777 N Grand Ave	Nogales	AZ	85621	jsargent@nogalesaz.gov	
City of Nogales Housing Authority	Thompson	Robert	Housing Director	777 N Grand Ave	Nogales	AZ	85621	rthompson@nogalesaz.gov	
Santa Cruz County	St. John	Jennifer	County Manager	2150 N Congress Dr	Nogales	AZ	85621	jstjohn@santacruzcountyaz.gov	
Santa Cruz County Board of Supervisors	Bracker	The Honorable Bruce	Chairman, District 3	2150 N Congress Dr	Nogales	AZ	85621	bbracker@santacruzcountyaz.gov	

Organization Name	Last Name	First Name	Title	Address	City	State	Zip Code	Email Address
Santa Cruz County Board of Supervisors	Molera	The Honorable Rudy	Supervisor, District 2	2150 N Congress Dr	Nogales	AZ	85621	rmolera@santacruzcountyaz.gov
Santa Cruz County Flood Control District	Hays	John	Floodplain Coordinator	275 Rio Rico Dr	Rio Rico	AZ	85648	jhays@santacruzcountyaz.gov.
Santa Cruz County Public Works	Valdez	Jesus	Public Works Director	275 Rio Rico Drive	Rio Rico	AZ	85648	jjvaldez@santacruzcountyaz.gov
Town of Patagonia	Claverie	The Honorable A. Francesca	Council Member	P.O. Box 767	Patagonia	AZ	85624	councilorclaverie@patagonia-az.gov
	Finch	The Honorable Steve	Council Member	P.O. Box 767	Patagonia	AZ	85624	councilorfinch@patagonia-az.gov
	Norton	Todd	Planning and Development Chair	P.O. Box 767	Patagonia	AZ	85624	
	O'Neil	Patrick						
	Reibslager	The Honorable Ron	Council Member	P.O. Box 767	Patagonia	AZ	85624	councilorreibslager@patagonia-az.gov
	Wood	The Honorable Andrea	Mayor	P.O. Box 767	Patagonia	AZ	85624	mayorwood@patagonia-az.gov
Sector: State								
ADOT Historic and Scenic Roads	Ligocki	Clemenc	Planning and Program Manager					cligocki@azdot.gov
Arizona Capital Complex, Room 324	Hernandez	The Honorable Daniel	Arizona House of Representatives, LD 2	1700 W Washington St	Phoenix	AZ	85007	dhernandez@azleg.gov
Arizona Capital Complex, Room 325	Dalessandro	The Honorable Andrea	Arizona House of Representatives, LD 2	1700 W Washington St	Phoenix	AZ	85007	adalessandro@azleg.gov
Arizona Department of Mines and Minerals	Bellassai	Randi	Assistant Director	1955 E 6th St	Tucson	AZ	85719	rbellassai@email.arizona.edu
Arizona Department of Transportation	Lane	Roderick	District Engineer	1221 S Second Ave	Tucson	AZ	85713	RLane@azdot.gov
Arizona State Parks and Recreation Department	Broscheid	Bob	Executive Director	23751 N 23rd Ave, #190	Phoenix	AZ	85085	
Office of Arizona Governor Douglas Ducey	Rivera	Lorraine	District Director	400 W Congress St, Suite 504	Tucson	AZ	85701	mmcgowan@az.gov
Office of the Governor	Ducey	The Honorable Doug	Governor	1700 W Washington St	Phoenix	AZ	85007	engage@az.gov
Sector: Unknown								
	Carranza	Gaston						
Sector: Utility								
International Boundary & Water Commission	Light	John	Area Operations Manager NIWTP	865 E. Frontage Road	Rio Rico	AZ	85648	john.light@ibwc.gov
Kinder Morgan	Goudy	Kevin						Kevin_Goudy@kindermorgan.com
	Posey	Richard						richard_posey@kindermorgan.com
Lumen	Hicks	Nate	Interim Manager					nate.hicks@lumen.com

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**Application for a Certificate of Environmental
Compatibility**

**Rio Rico to Harshaw
138 Kilovolt Transmission Line Project**

Exhibit J-5

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Rio Rico to Harshaw 138kV Transmission Line Project

STAKEHOLDER MEETING

NOVEMBER 15, 2022



August 2022

Agenda

- Introductions
- Purpose and Need
- Project Overview
- Line Siting Process
- Routing Criteria
- Suitability Analysis and Revised Links
- Next Steps

Introductions

Elected Officials

- Office of U.S. Senator Kyrsten Sinema
- Office of U.S. Senator Mark Kelly
- Office of U.S. Congresswoman Ann Kirkpatrick
- Office of U.S. Congressman Raul Grijalva
- Office of the Arizona Governor Doug Ducey
- Santa Cruz County Board of Supervisors, Manuel Ruiz and Bruce Backer
- City of Nogales, Jorge Maldonado

Jurisdiction and Agency Staff

- Town of Patagonia
- Nogales International Airport
- U.S. Customs and Border Protection, Tucson Field Office
- U.S. Border Patrol, Tucson Sector
- Tumacacori National Historic Park

Business and Economic Development Groups

- Fresh Produce Association of the Americas
- Greater Nogales Santa Cruz County Port Authority

Utilities

- Kinder Morgan
- Lumen

UniSource

Purpose and Need

- Respond to a service request to serve the Hermosa Project, a mine exploration project currently in the pre-feasibility phase.
- Address service reliability for all electric customers in the San Rafael Valley, Washington Camp, and Lochiel areas of Southern Arizona.
- New, higher-voltage facilities would reduce potential reliability issues associated with inadequate voltage support.
- Provide additional capacity that could allow interconnections with future renewable energy projects while supporting economic development in the area.

Project Overview

138kV transmission line between a planned switchyard in Rio Rico and the planned Harshaw Substation.

Approximately 20-30 mile, single-circuit 138 kV transmission line mounted on steel monopole structures.



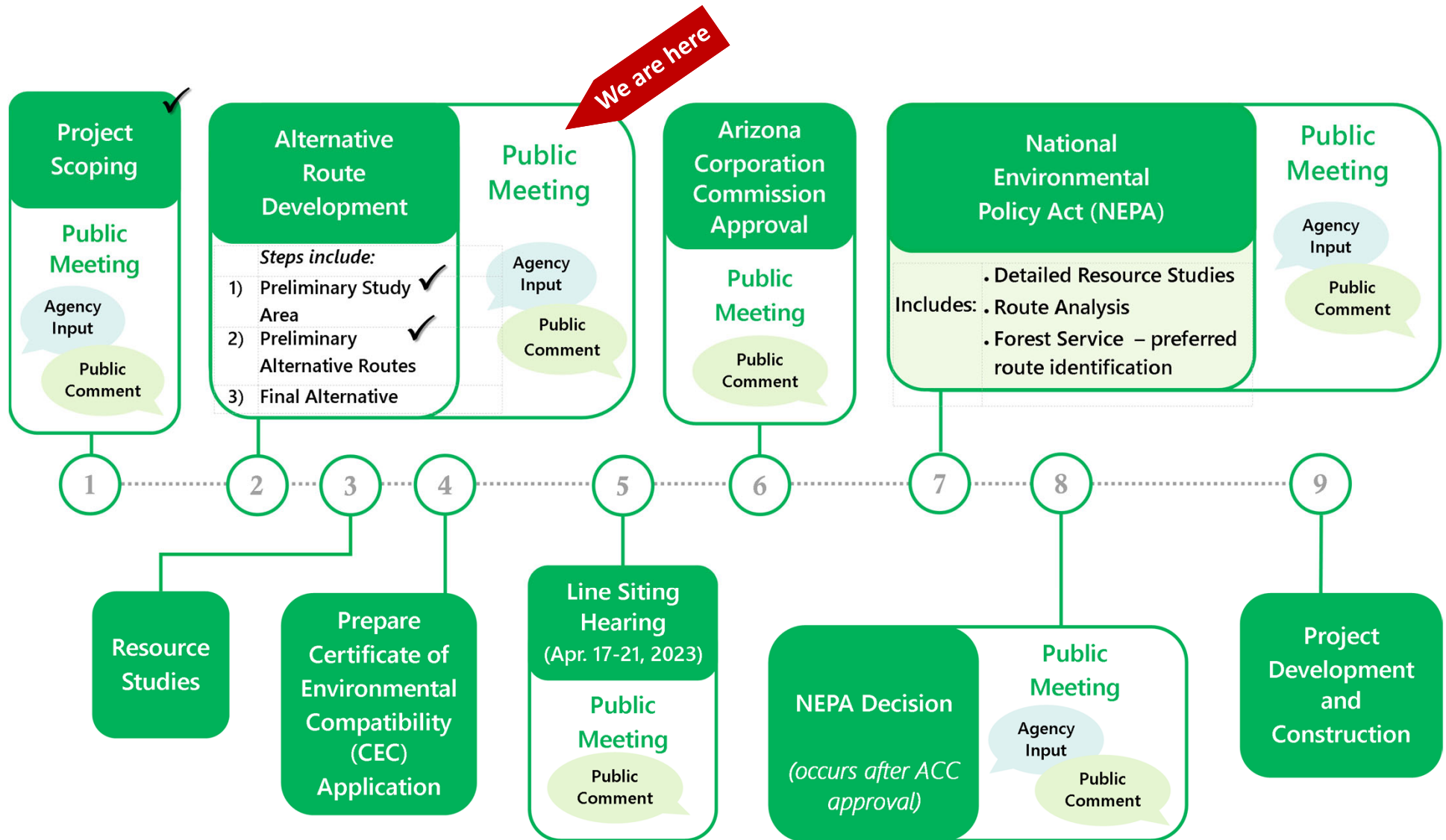
Project Details: Example Switchyard in the TEP system



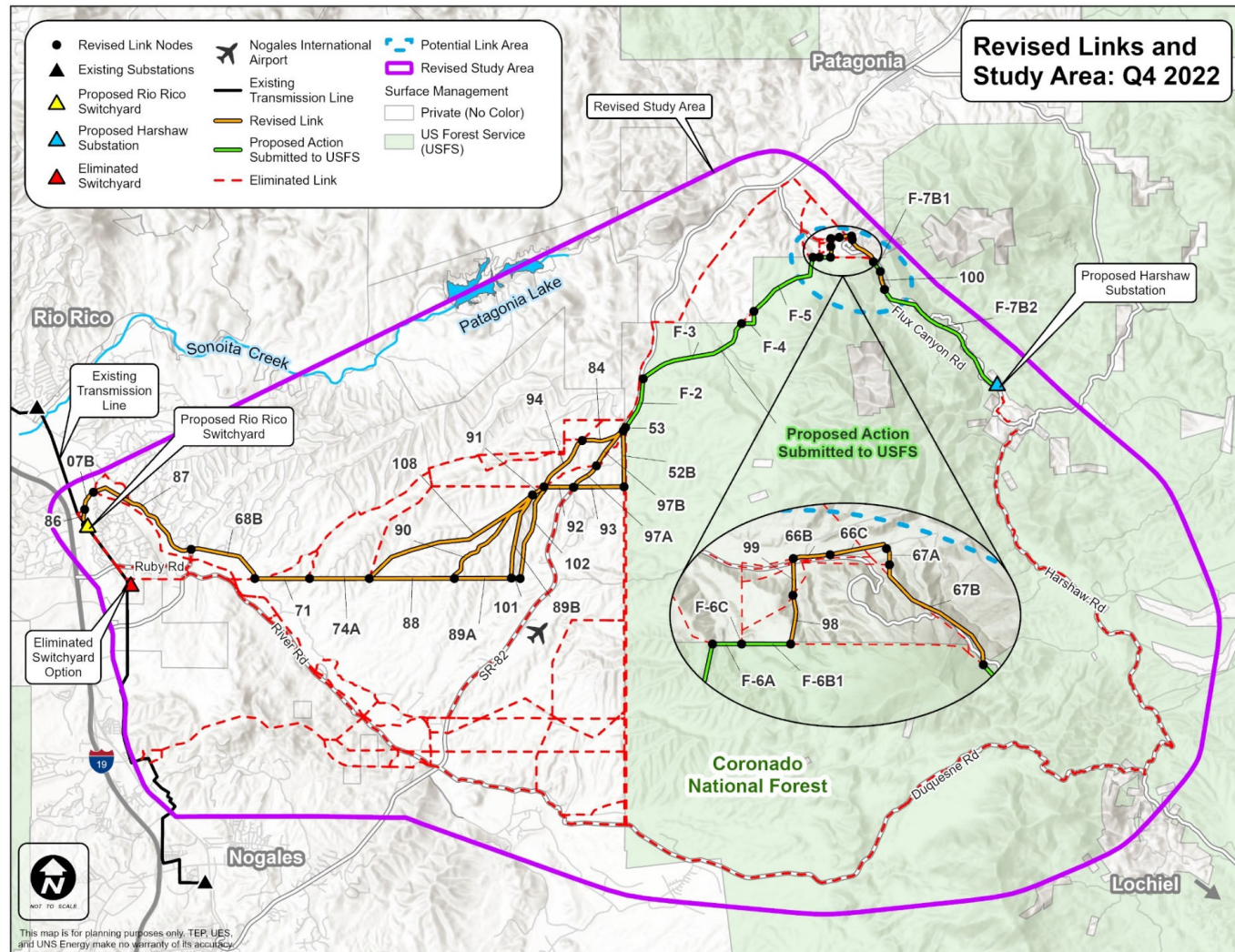
Project Details: Transmission Line

- Self-weathering steel monopoles 75-110 feet tall.
- Up to 100-foot-wide right-of-way when not in road right-of-way.





Line Siting – Revised Links



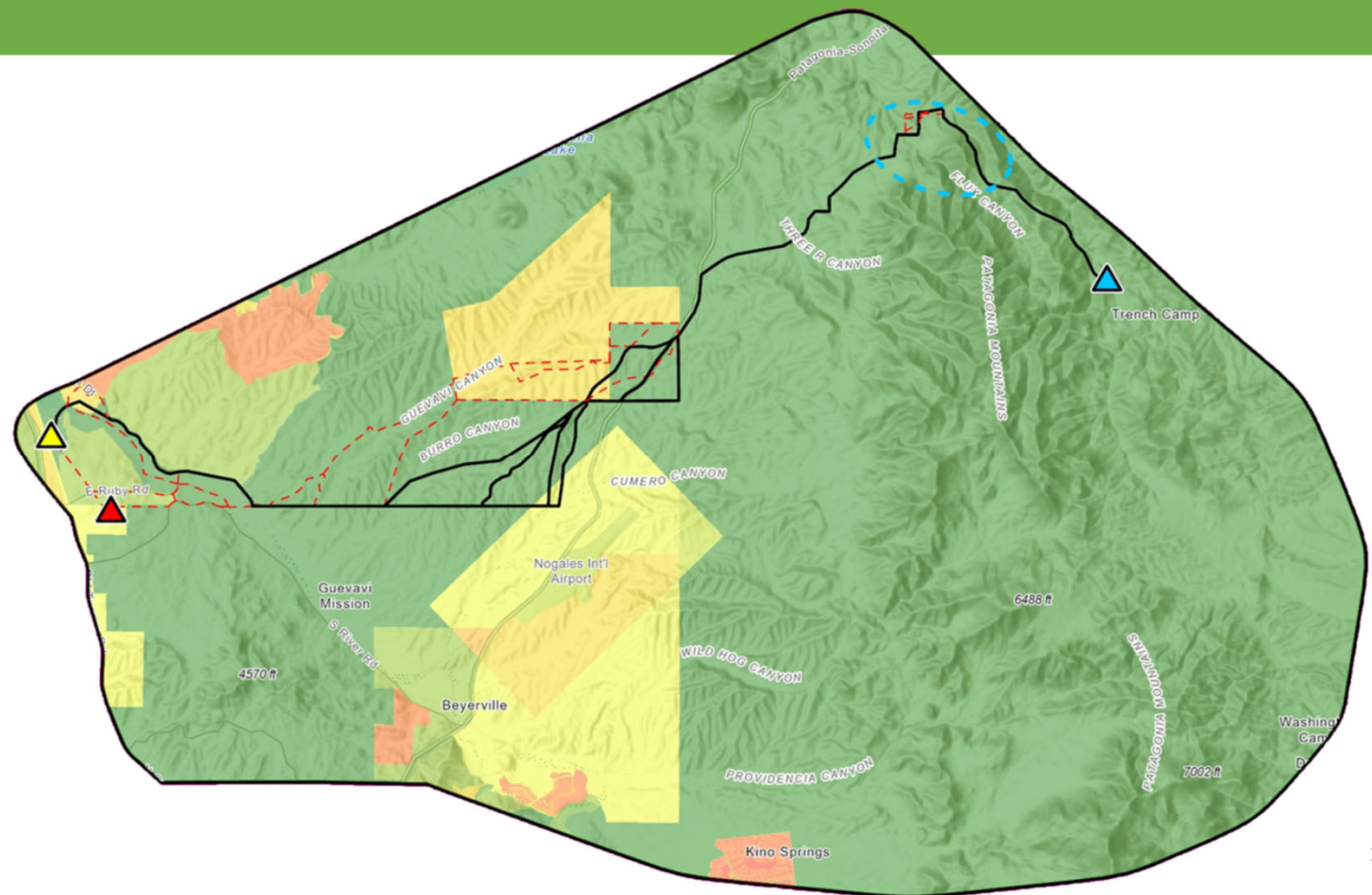
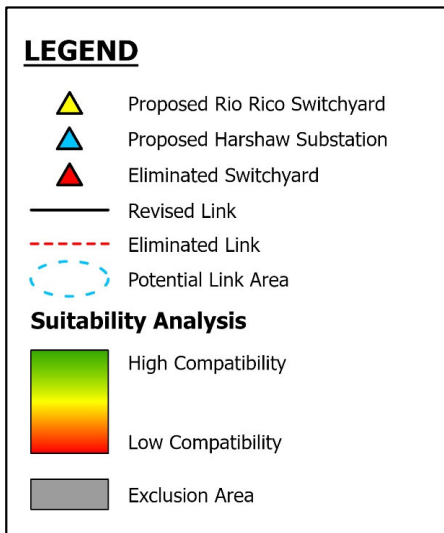
Routing Criteria

UNSE analyzes specific criteria in developing and selecting alternative routes.

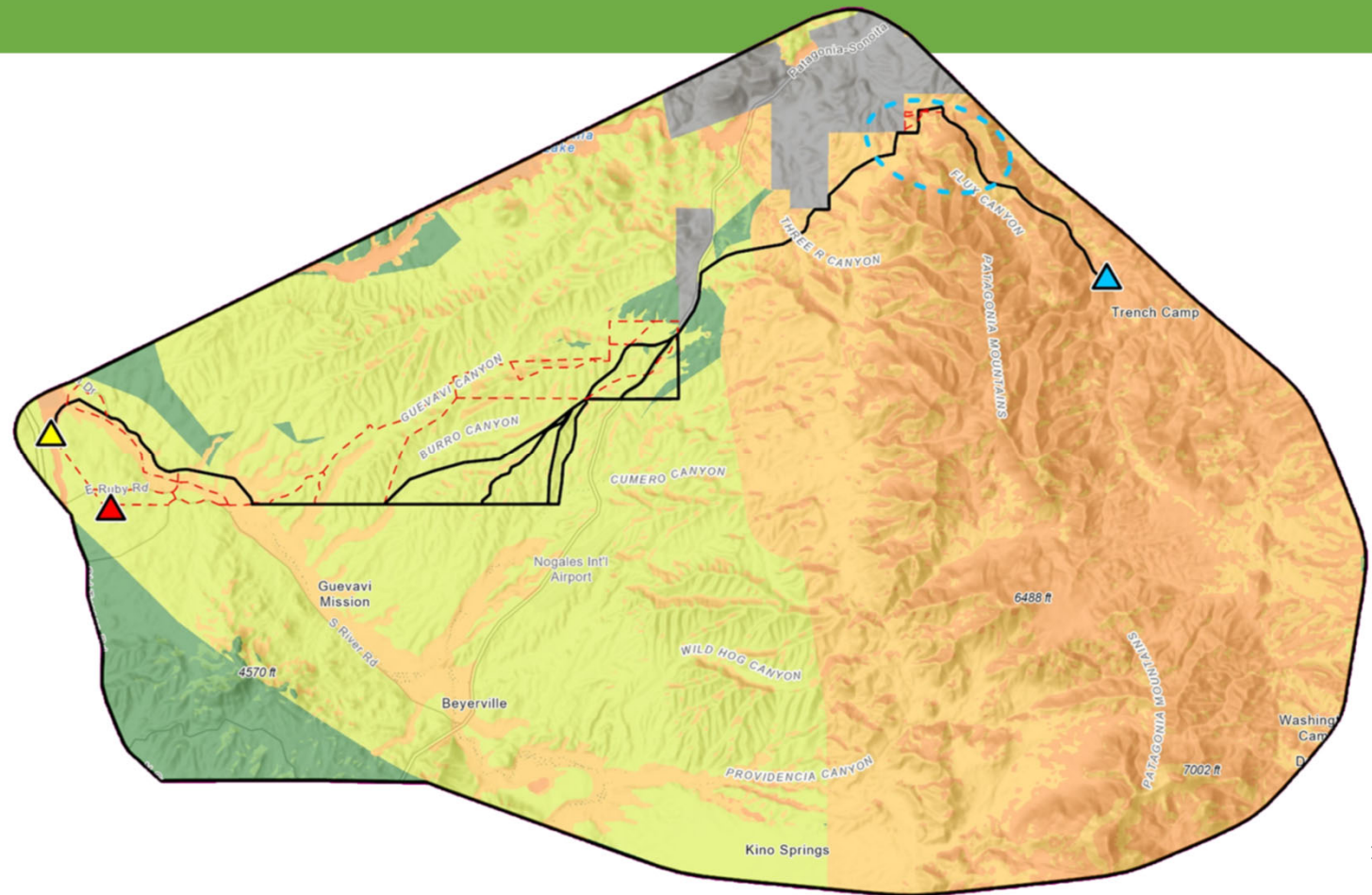
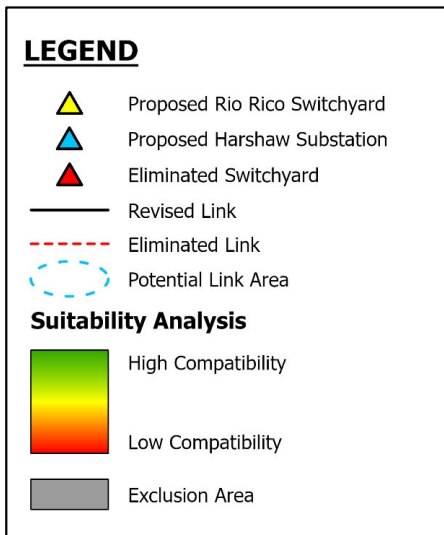
These criteria include:

1. Total environment (fish, wildlife, plants)
2. Existing state, local government, and private development plans including residential use
3. Noise
4. Recreational impacts
5. Scenic areas, historic sites & structures, archaeological sites
6. Interference with communication facilities
7. Technical aspects
8. Cost
9. Other applicable federal and state laws

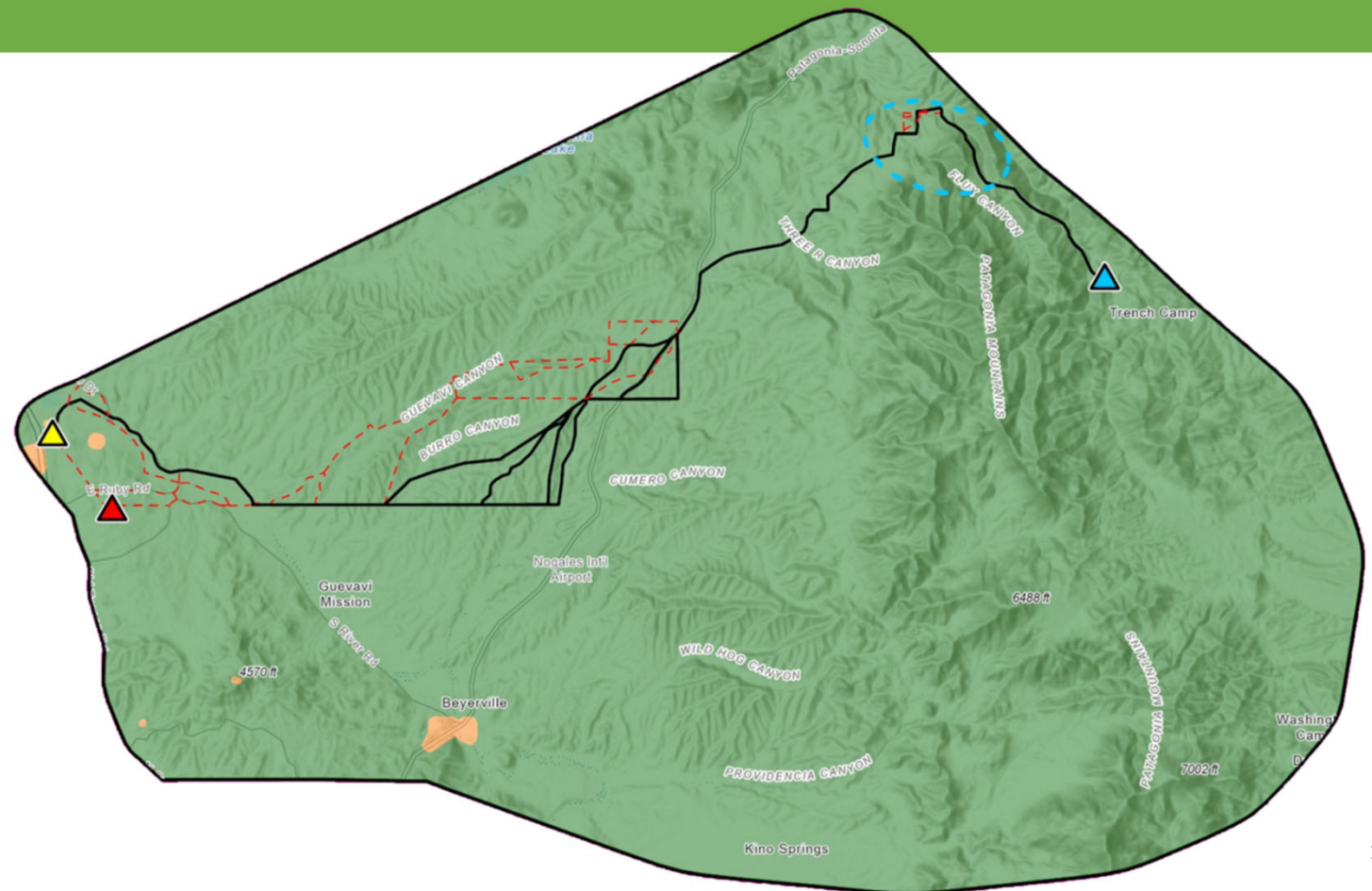
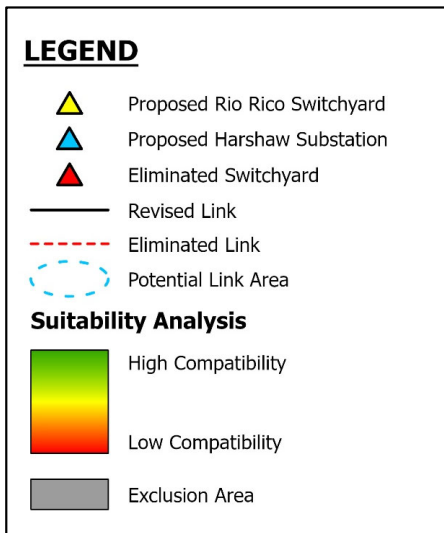
Criteria 1 – Existing Plans



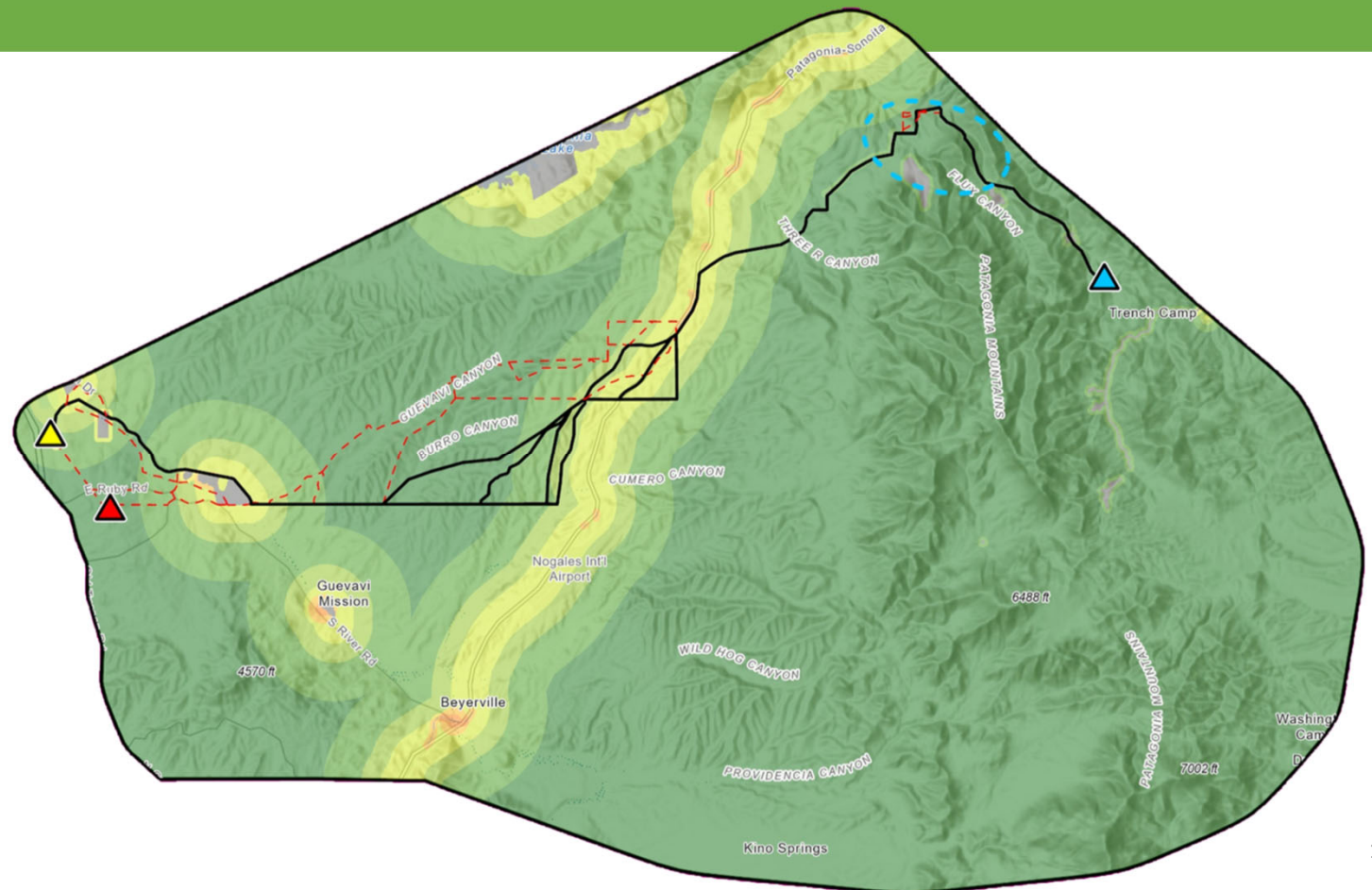
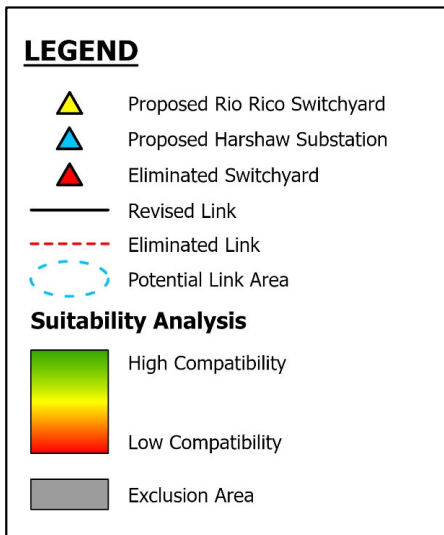
Criteria 2 – Biological Resources



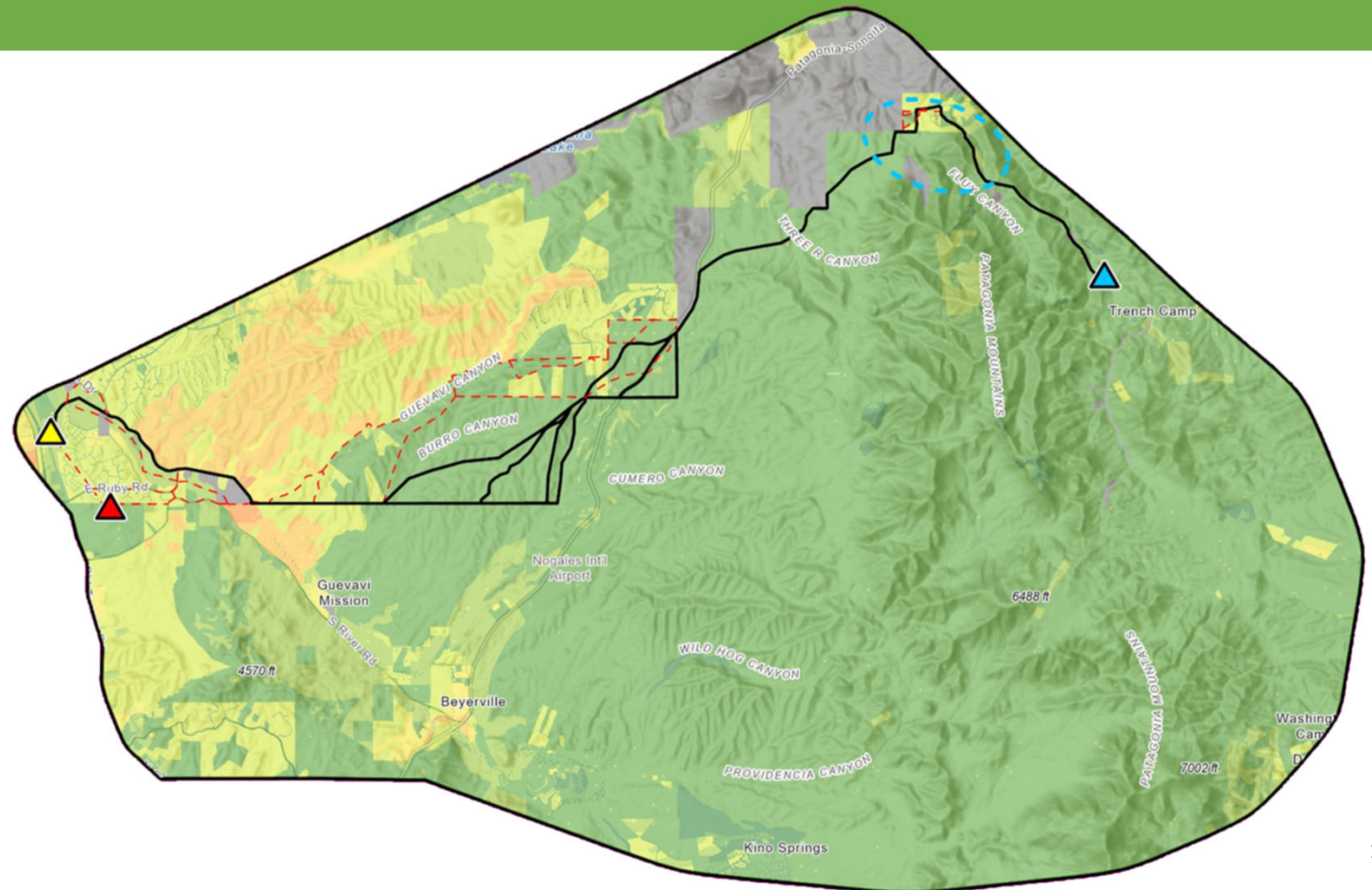
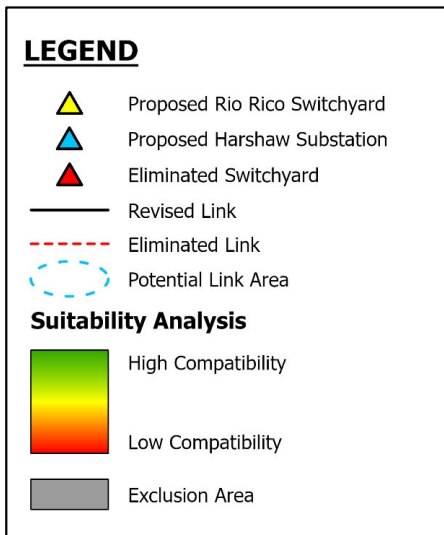
Criteria 3 – Noise & Communication



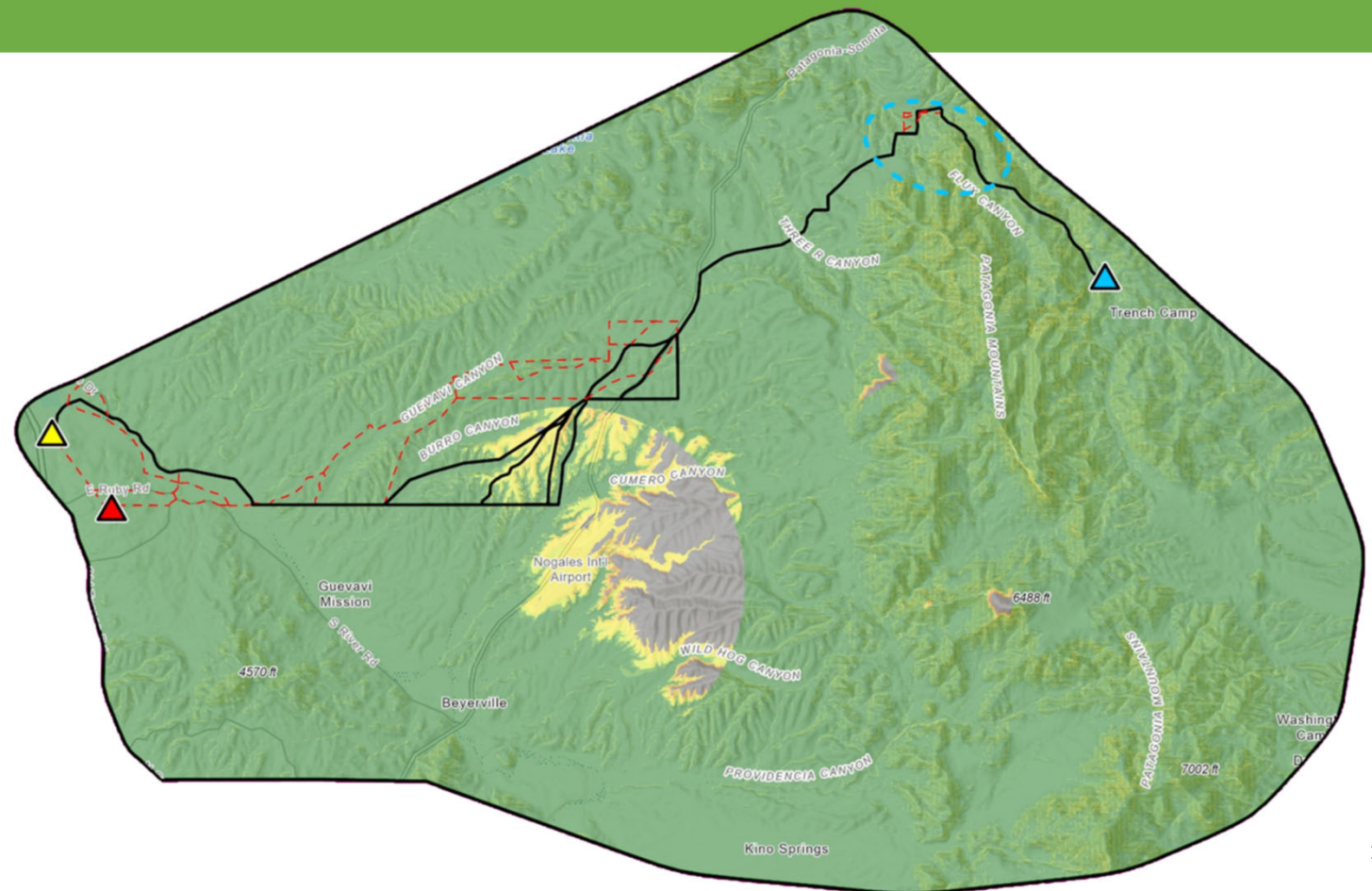
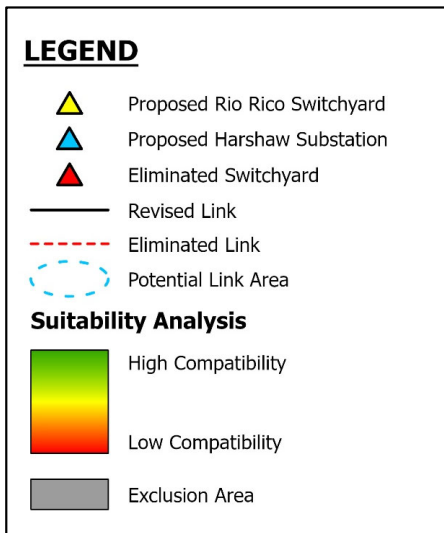
Criteria 4 – Scenic & Cultural Resources



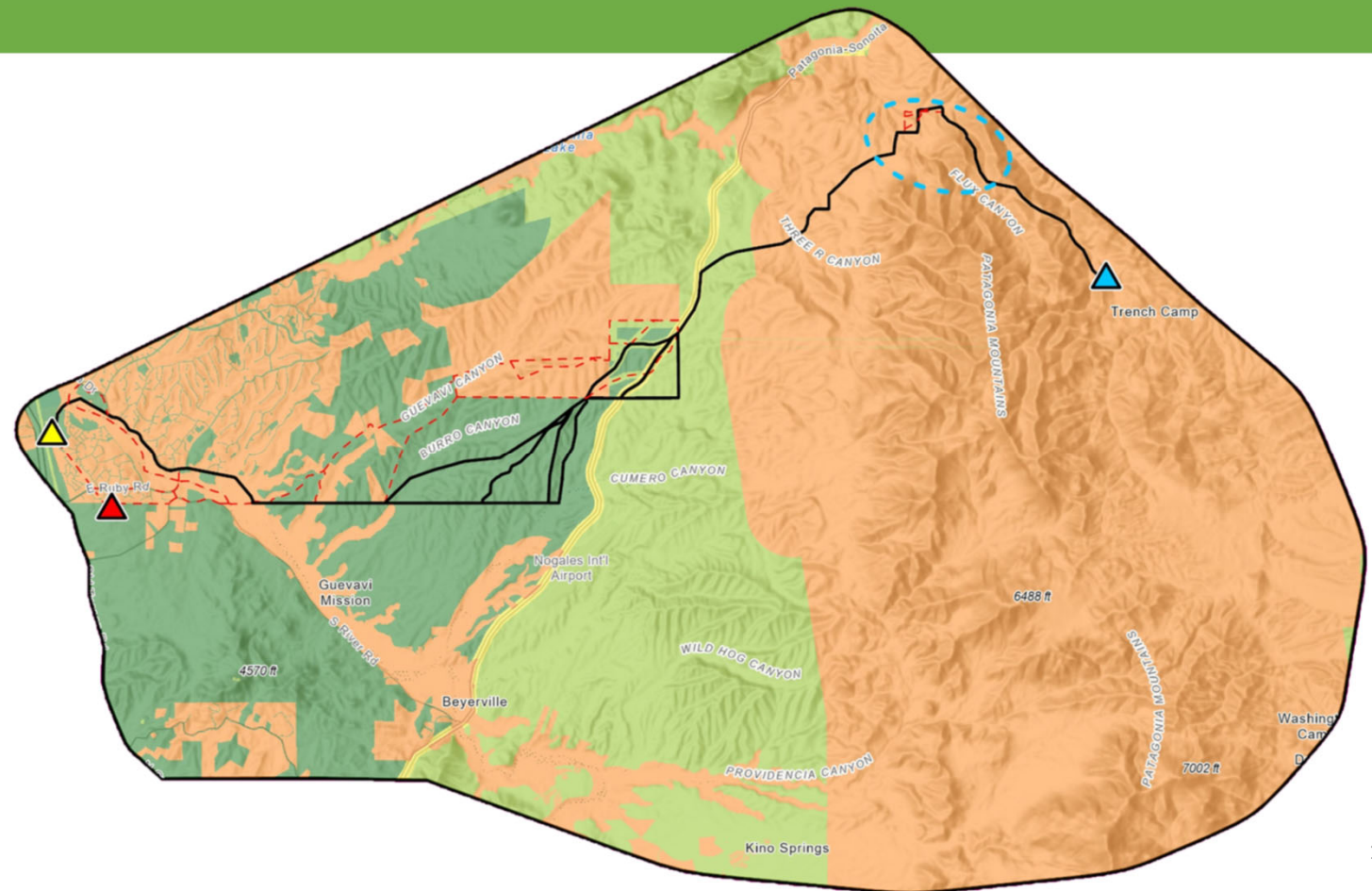
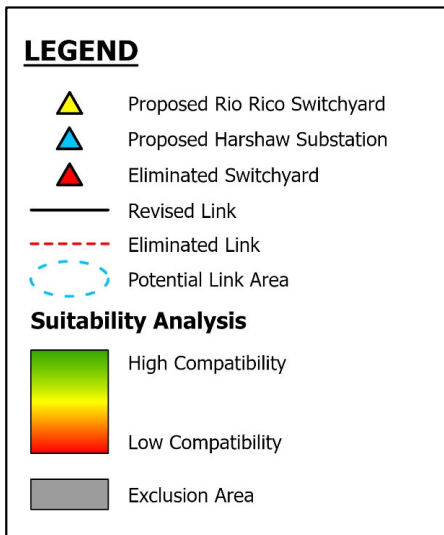
Criteria 5 – Total Environment



Criteria 6 – Construction & Maintenance



Criteria 7 – Outreach



Composite Suitability Models

Criteria models are weighted differently based on model and added together.

Criteria 7 x Weight



Criteria 6 x Weight



Criteria 5 x Weight



Criteria 4 x Weight



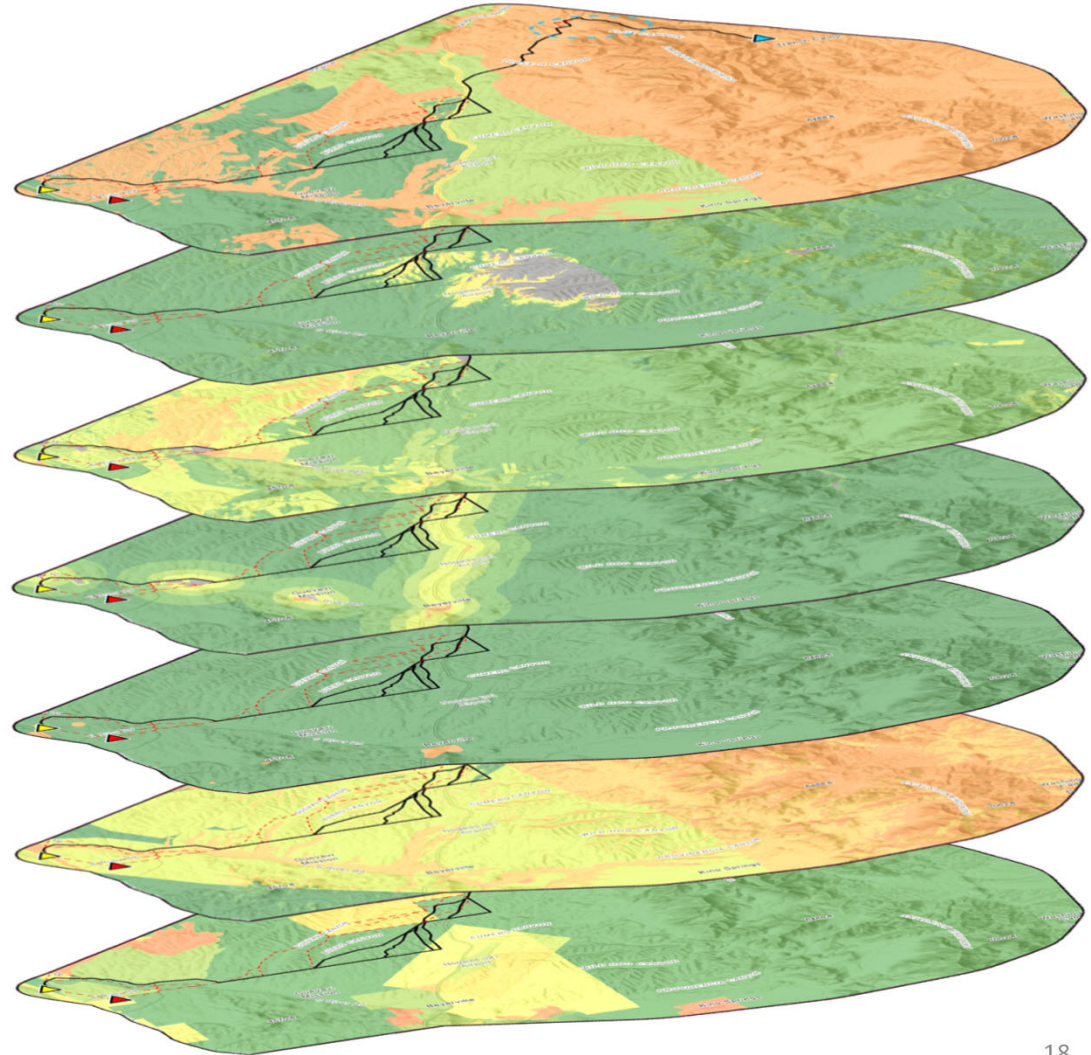
Criteria 3 x Weight



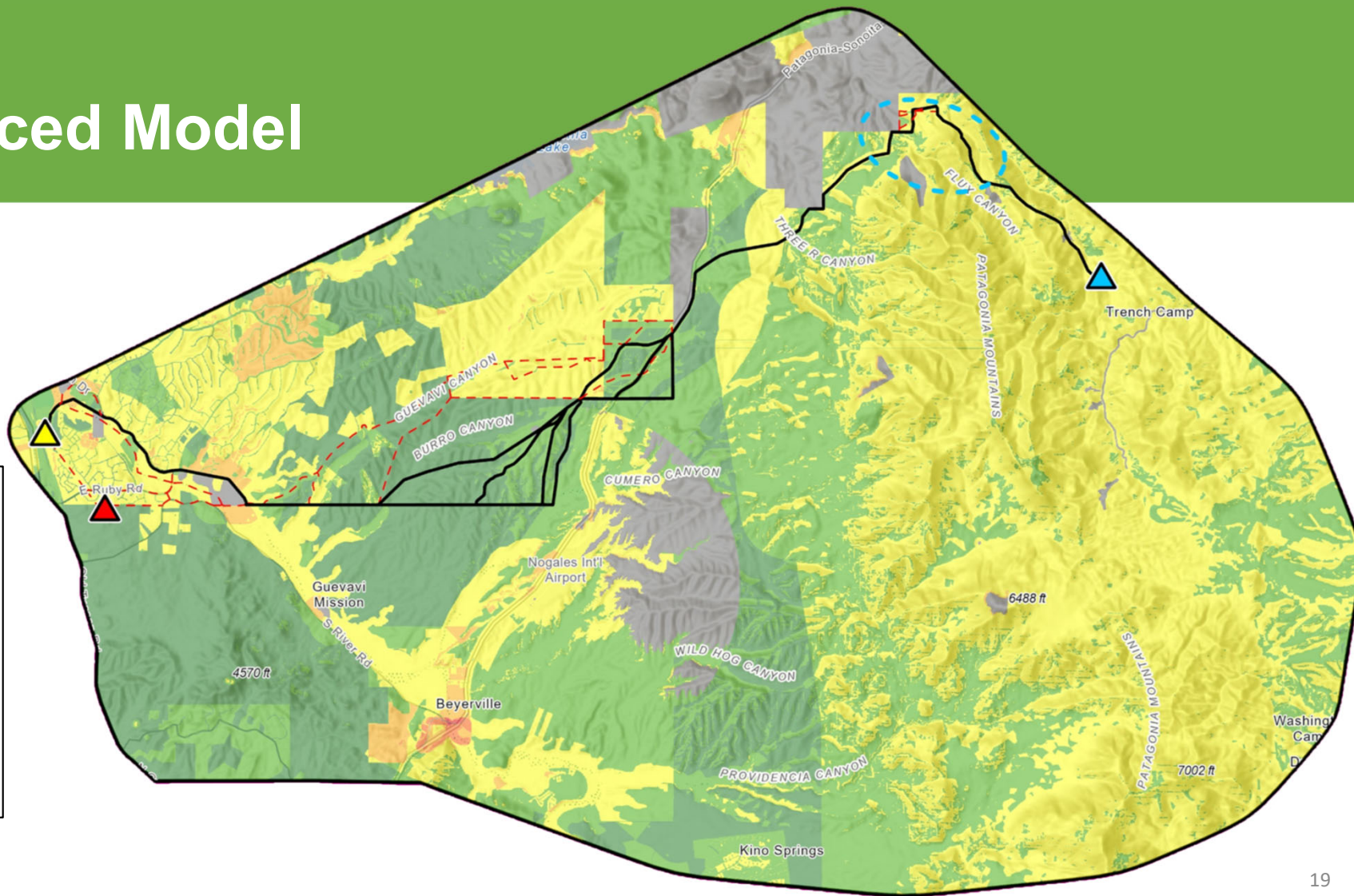
Criteria 2 x Weight



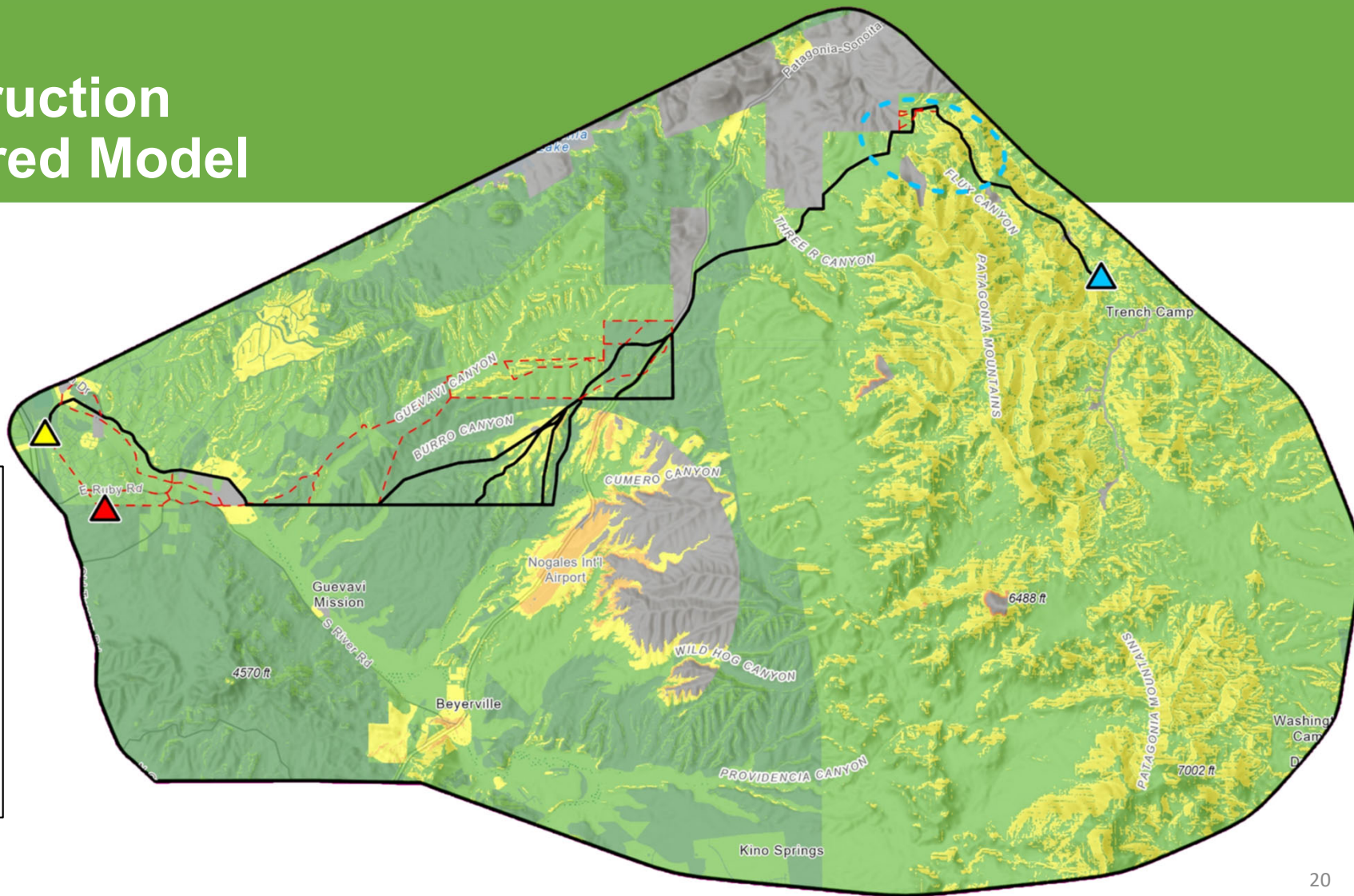
Criteria 1 x Weight



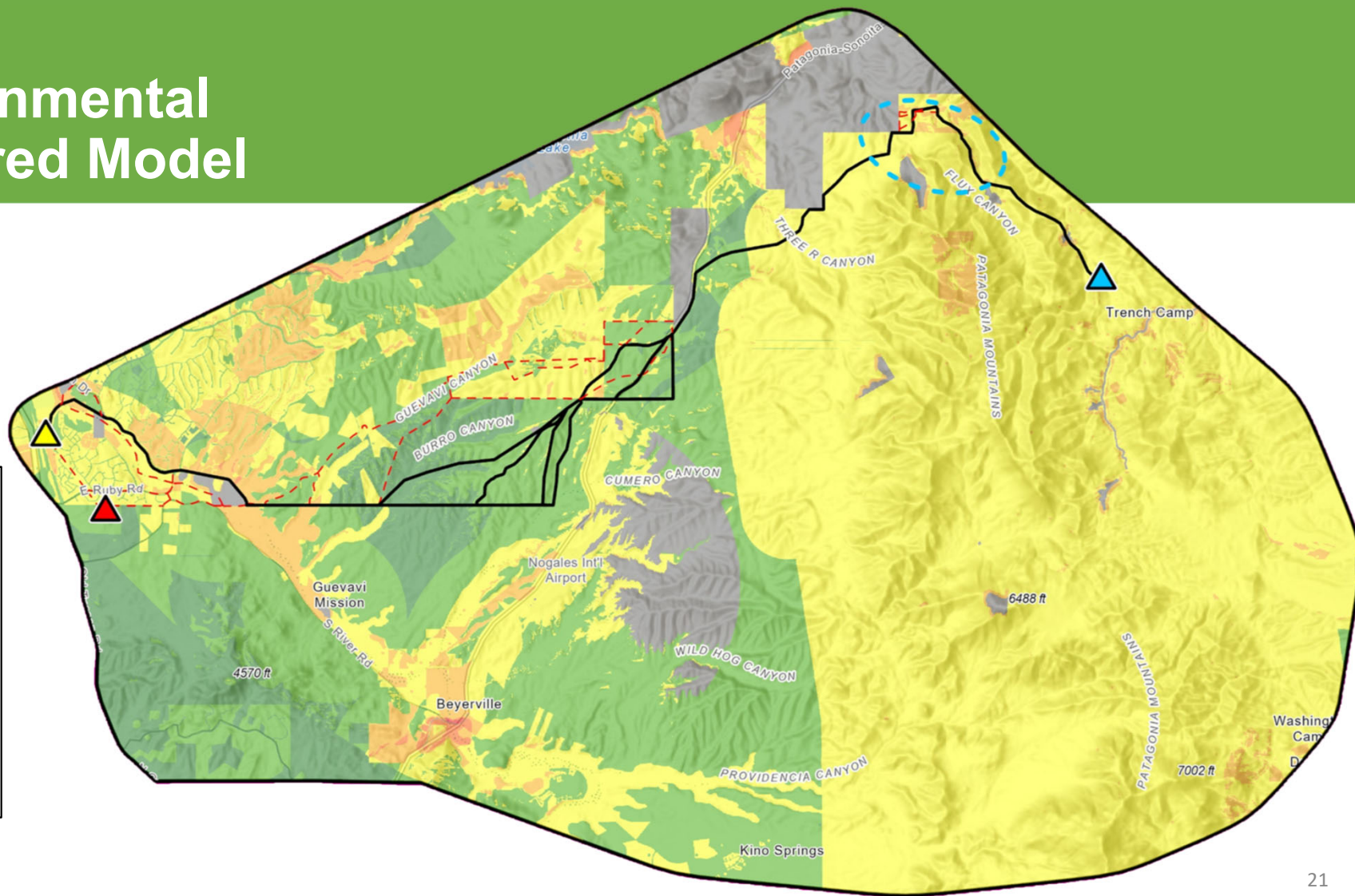
Balanced Model



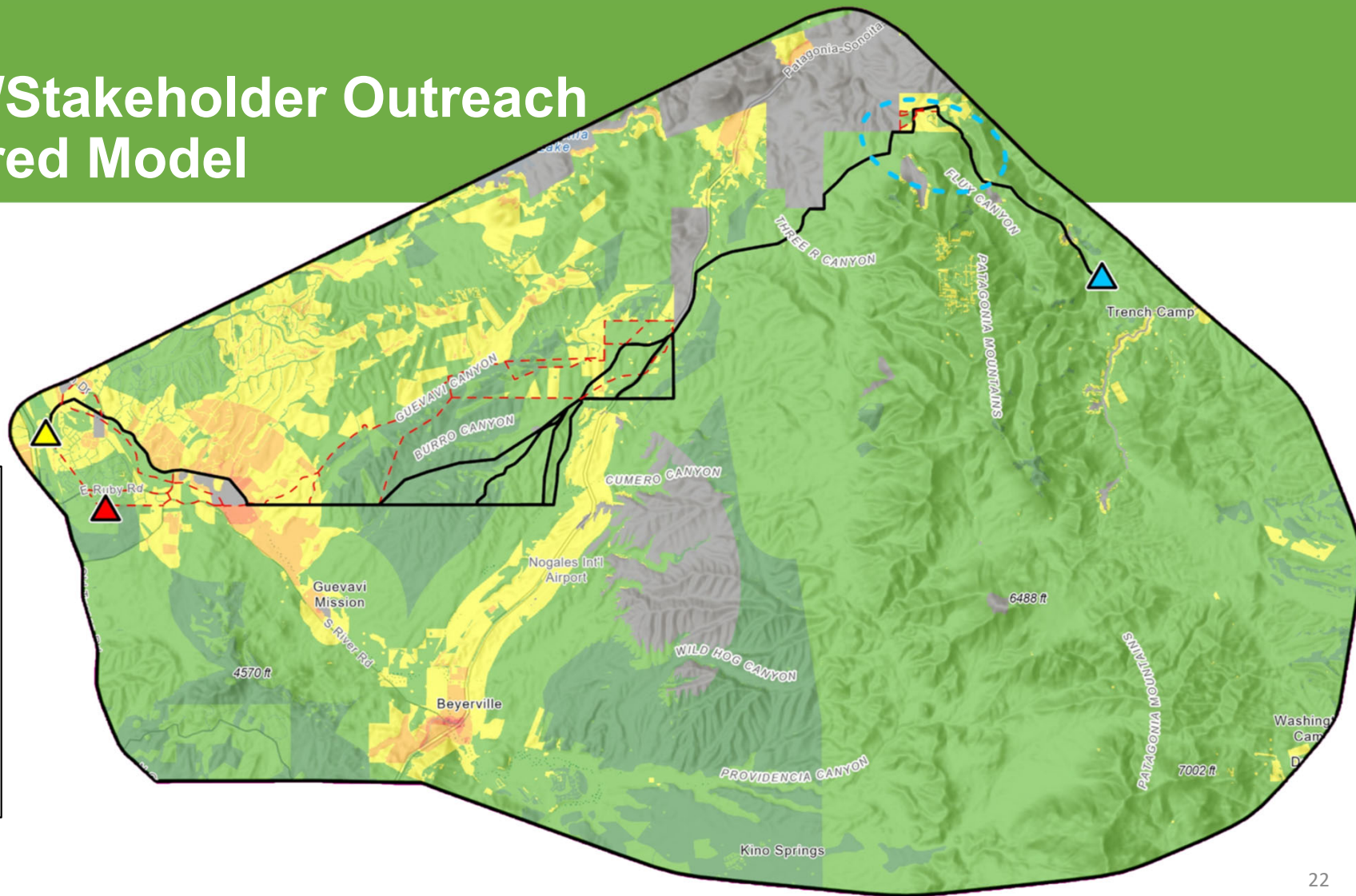
Construction Preferred Model



Environmental Preferred Model



Public/Stakeholder Outreach Preferred Model



Next Steps

- Nov. 2022 – Outreach on Revised Links
- Jan. 2023 – Preferred Route and Alternatives Routes
- March 3, 2023 – File Application for CEC
- April 17-21, 2023 – Line Siting Hearing
- May/June 2023 – ACC Approval of CEC

More Project Information

For more project information please visit the project webpage:

<https://www.uesaz.com/rio-rico-to-harshaw/>

Here, you will find:

- Project details including the project newsletter
- A print copy and of this presentation
- Commonly asked questions & answers

How to Comment

- Mail a comment form or a letter to: UniSource Energy Services ATTN: Rio Rico-Harshaw PO Box 711 Tucson, AZ 85702
- Send comments to RR2Harshaw@uesaz.com
- Visit uesaz.com/rio-rico-to-harshaw and fill out an online comment form
- Call 1-833-783-0396 and leave a voicemail message in English
- Deje un mensaje al 1-833-783-0396 y le regresaran su llamada

Questions?

**Application for a Certificate of Environmental
Compatibility**

**Rio Rico to Harshaw
138 Kilovolt Transmission Line Project**

Exhibit J-6

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Rio Rico to Harshaw 138kV Transmission Line Project

Stakeholder Meeting 3 Attendance Report



Organization Name	Last Name	First Name	Title	Address	City	State	Zip Code	Email Address
AttMtg3 <input checked="" type="checkbox"/>	14							
<u>RSVP Mtg 3 Status</u> Accepted		7						
Sector:								
	Sotero	Andrew						
Sector: Federal								
Office of U.S. Congressman Raul Grijalva, District 3	Reyes	Ruben	District Director	101 W Irvington Rd, Bldgs 4 &5	Tucson	AZ	85714	ruben.reyes@mail.house.gov
Office of U.S. Senator Kyrsten Sinema	Kimball	Troy	Constituent Affairs Representative	20 E. Ochoa St	Tucson	AZ	85701	troy_kimball@sinema.senate.gov
Sector: Local Government								
Santa Cruz County Public Works	Valdez	Jesus	Public Works Director	275 Rio Rico Drive	Rio Rico	AZ	85648	jjvaldez@santacruzcountyaz.gov
Sector: Utility								
Kinder Morgan	Sims	Kelley						Kelley_Sims@Kindermorgan.com
Lumen	Figueroa	Guillermo	Sr. Network Implementation Program Manager					luis.figueroa@lumen.com
	Porter	Robert						robert.porter@lumen.com
<u>RSVP Mtg 3 Status</u> No RSVP		4						
Sector:								
	McGowan	Mary						
Sector: Federal								
U.S. Border Patrol, Tucson Sector	Hart	Harry	Director of Logistics					HARRY.J.HART@cbp.dhs.gov
USFS Coronado National Forest	Hansen	Alysa	Special Uses Program Manager	300 W Congress St	Tucson	AZ	85701	alysa.hansen@usda.gov
USFS Coronado National Forest - Supervisor's Office	Dewberry	Kerwin	Forest Supervisor	300 W. Congress St.	Tucson	AZ	85701	kerwin.dewberry@usda.gov
<u>RSVP Mtg 3 Status</u> Tentative		3						
Sector: Federal								
Office of U.S. Senator Mark Kelly	Avalos	Karla	District Director	TBD				karla_avalos@kelly.senate.gov
Sector: Local Government								
Town of Patagonia	Robinson	Ronald	Town Manager	P.O. Box 767	Patagonia	AZ	85624	manager@patagonia-az.gov
Sector: State								
Arizona Department of Transportation	Lane	Roderick	District Engineer	1221 S Second Ave	Tucson	AZ	85713	RLane@azdot.gov
AttMtg3 <input type="checkbox"/>	0							
<u>RSVP Mtg 3 Status</u>		0						
Sector:								
	Carranza	Gaston						
	Felix	Georgina						
Sector: Business								
Fresh Produce Association of the Americas	Jungmeyer	Lance		590 E. Frontage Rd.	Nogales	AZ	85621	info@freshfrommexico.com

Organization Name	Last Name	First Name	Title	Address	City	State	Zip Code	Email Address
Sector: Federal								
	Reynolds	Emily						emily.reynolds@usda.gov
Office of U.S. Congresswoman Ann Kirkpatrick	Kovacs	Billy	District Director	1636 N. Swan Rd	Tucson	AZ	85701	billy.kovacs@mail.house.gov
Tumacacori National Historic Park	Medrano	Mike	Park Superintendent					mike_medrano@nps.gov
U.S. Border Patrol, Tucson Sector	Delgadillo	Juan						JUAN.M.DELGADILLO@CBP.DHS.GOV
	Edmison	Stephen						STEPHEN.T.EDMISON@CBP.DHS.GOV
U.S. Customs and Border Protection, Tucson Field Office	Goncalvez	Armando	Assistant Director, Trade & Cargo Security					Armando.goncalvez@cbp.dhs.gov
USFS Coronado National Forest	Kinsey	Daisy	Sierra Vista District Ranger	4070 South Avenida Saracino	Hereford	AZ	85615	celeste.kinsey@usda.gov
	Lehew	Mindi						
Sector: Local Government								
City of Nogales	Bojorquez	The Honorable Hector	Councilman	777 N Grand Ave	Nogales	AZ	85621	hebojorquez@nogalesaz.gov
	Bonilla	The Honorable Saulo	Councilman	777 N Grand Ave	Nogales	AZ	85621	sbonilla@nogalesaz.gov
	Diaz	The Honorable Joe	Councilman	777 N Grand Ave	Nogales	AZ	85621	jdiaz@nogalesaz.gov
	Dickie	Edward	City Manager					edickie@nogalesaz.gov
	Garino	The Honorable Arturo	Mayor	777 N Grand Ave	Nogales	AZ	85621	mayorgarino@nogalesaz.gov
	Gradillas Jr.	Octavio	Council Member					ogradillasjr@nogalesaz.gov
	Kissinger	John	Deputy City Manager	777 N Grand Ave	Nogales	AZ	85621	jkissinger@nogalesaz.gov
	Melendez-Lopez	The Honorable Esther	Vice Mayor	777 N Grand Ave	Nogales	AZ	85621	emlopez@nogalesaz.gov
	Montiel	The Honorable Liza	Councilwoman	777 N Grand Ave	Nogales	AZ	85621	lemontiel@nogalesaz.gov
	Sargent	Jeffery	Fire Chief	777 N Grand Ave	Nogales	AZ	85621	jsargent@nogalesaz.gov
City of Nogales Housing Authority	Thompson	Robert	Housing Director	777 N Grand Ave	Nogales	AZ	85621	rthompson@nogalesaz.gov
Santa Cruz County Board of Supervisors	Molera	The Honorable Rudy	Supervisor, District 2	2150 N Congress Dr	Nogales	AZ	85621	rmolera@santacruzcountyaz.gov
Santa Cruz County Flood Control District	Hays	John	Floodplain Coordinator	275 Rio Rico Dr	Rio Rico	AZ	85648	jhays@santacruzcountyaz.gov.
Town of Patagonia	Claverie	The Honorable A. Francesca	Council Member	P.O. Box 767	Patagonia	AZ	85624	councilorclaverie@patagonia-az.gov
	Finch	The Honorable Steve	Council Member	P.O. Box 767	Patagonia	AZ	85624	councilorfinch@patagonia-az.gov
	O'Neil	Patrick						
	Reibslager	The Honorable Ron	Council Member	P.O. Box 767	Patagonia	AZ	85624	councilorreibslager@patagonia-az.gov
	Stabile	The Honorable Michael	Vice Mayor	P.O. Box 767	Patagonia	AZ	85624	councilorstabile@patagonia-az.gov
	Wood	The Honorable Andrea	Mayor	P.O. Box 767	Patagonia	AZ	85624	mayorwood@patagonia-az.gov
Sector: State								
Arizona Capital Complex, Room 324	Hernandez	The Honorable Daniel	Arizona House of Representatives, LD 2	1700 W Washington St	Phoenix	AZ	85007	dhernandez@azleg.gov
Arizona Capital Complex, Room 325	Dalessandro	The Honorable Andrea	Arizona House of Representatives, LD 2	1700 W Washington St	Phoenix	AZ	85007	adalessandro@azleg.gov
Arizona Department of Mines and Minerals	Bellassai	Randi	Assistant Director	1955 E 6th St	Tucson	AZ	85719	rbellassai@email.arizona.edu
Arizona State Parks and Recreation Department	Broscheid	Bob	Executive Director	23751 N 23rd Ave, #190	Phoenix	AZ	85085	
Office of Arizona Governor Douglas Ducey	Rivera	Lorraine	District Director	400 W Congress St, Suite 504	Tucson	AZ	85701	mmcgowan@az.gov
Office of the Governor	Ducey	The Honorable Doug	Governor	1700 W Washington St	Phoenix	AZ	85007	engage@az.gov

Organization Name	Last Name	First Name	Title	Address	City	State	Zip Code	Email Address					
Southern Arizona Office of the Governor	Lyons	Brendan	Deputy Director	400 West Congress, Suite 504	Tucson	AZ	85701	mmcgowan@az.gov					
Sector: Utility													
International Boundary & Water Commission	Light	John	Area Operations Manager NIWTP	865 E. Frontage Road	Rio Rico	AZ	85648	john.light@ibwc.gov					
Kinder Morgan	Goudy	Kevin	Interim Manager					Kevin_Goudy@kindermorgan.com					
	Posey	Richard						richard_posey@kindermorgan.com					
Lumen	Hicks	Nate						nate.hicks@lumen.com					
RSVP Mtg 3 Status		Accepted7											
Sector: County													
Greater Nogales Santa Cruz County Port Authority	Chamberlain	Jaime	Chair					jaime@chamberlaindistributing.com					
Sector: Local Government													
City of Nogales	Maldonado	Jorge	Mayor-elect					Jorge.azmixers@gmail.com					
Nogales International Airport	Dillon	Frank	Community Development Director	2150 N Congress St, Suite 215	Nogales	AZ	85621	FDillon@santacruzcountyz.gov					
Santa Cruz County	St. John	Jennifer	County Manager	2150 N Congress Dr	Nogales	AZ	85621	jstjohn@santacruzcountyz.gov					
Santa Cruz County Board of Supervisors	Bracker	The Honorable Bruce	Chairman, District 3	2150 N Congress Dr	Nogales	AZ	85621	bbracker@santacruzcountyz.gov					
	Ruiz	The Honorable Manuel	Vice-Chairman, District 1	2150 N Congress Dr	Nogales	AZ	85621	mr Ruiz@santacruzcountyz.gov					
Sector: State													
Arizona Capital Complex, Room 120	Schwiebert	The Honorable Judy	Arizona House of Representatives, LD 2	1700 W Washington St	Phoenix	AZ	85007	jschwiebert@azleg.gov					
RSVP Mtg 3 Status		Declined2											
Sector: State													
Arizona Capital Complex, Room 111	Wilmeth	The Honorable Justin	Arizona House of Representatives, LD 2	1700 W Washington St	Phoenix	AZ	85007	jwilmeth@azleg.gov					
Office of the Governor	Marisol	Flores-Aguirre	Southern AZ Director	400 W Congress St., Suite 504	Tucson	AZ	85701	mfloresaguirre@az.gov					
RSVP Mtg 3 Status		Tentative2											
Sector: State													
ADOT Historic and Scenic Roads	Ligocki	Clemenc	Planning and Program Manager					cligocki@azdot.gov					
Arizona Capital Complex, Room 303B	Gabaldon	The Honorable Rosanna	Arizona State Senate, LD 2	1700 W Washington St	Phoenix	AZ	85007	rgabaldon@azleg.gov					
RSVP Mtg 3 Status		Undeliverable1											
Sector: Local Government													
Town of Patagonia	Norton	Todd	Planning and Development Chair	P.O. Box 767	Patagonia	AZ	85624						

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**Application for a Certificate of Environmental
Compatibility**

**Rio Rico to Harshaw
138 Kilovolt Transmission Line Project**

Exhibit J-7

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Rio Rico to Harshaw 138kV Transmission Line Project

STAKEHOLDER MEETING

JANUARY 24, 2023



January 2023

Agenda

- Introductions
- Purpose and Need
- Project Overview
- Final Proposed Routes
- Siting Process – how we arrived at final proposed routes
- Next Steps

Introductions

Elected Officials

- Office of U.S. Senator Kyrsten Sinema
- Office of U.S. Senator Mark Kelly
- Office of U.S. Congressman Raul Grijalva
- Arizona Senate, Senator Rosanna Gabaldon
- Arizona House, Representative Judy Swiebert
- Santa Cruz County Board of Supervisors, Bruce Bracker and Manuel Ruiz
- City of Nogales, Mayor Jorge Maldonado

Jurisdiction and Agency Staff

- Town of Patagonia
- Santa Cruz County
- Nogales International Airport
- Arizona Department of Transportation

Business and Economic Development Groups

- Greater Nogales Santa Cruz County Port Authority

Utilities

- Lumen

UniSource

Purpose and Need

- Respond to a service request to serve the Hermosa Project, a mine exploration project currently in the pre-feasibility phase.
- Address service reliability for all electric customers in the San Rafael Valley, Washington Camp, and Lochiel areas of Southern Arizona.
- New, higher-voltage facilities would reduce potential reliability issues associated with inadequate voltage support.
- Provide additional capacity that could allow interconnections with future renewable energy projects while supporting economic development in the area.

Project Overview

138kV transmission line between a planned switchyard in Rio Rico and the planned Harshaw Substation.

Approximately 20 mile, single-circuit 138 kV transmission line mounted on steel monopole structures.



Project Details: Example Switchyard in the UNS system

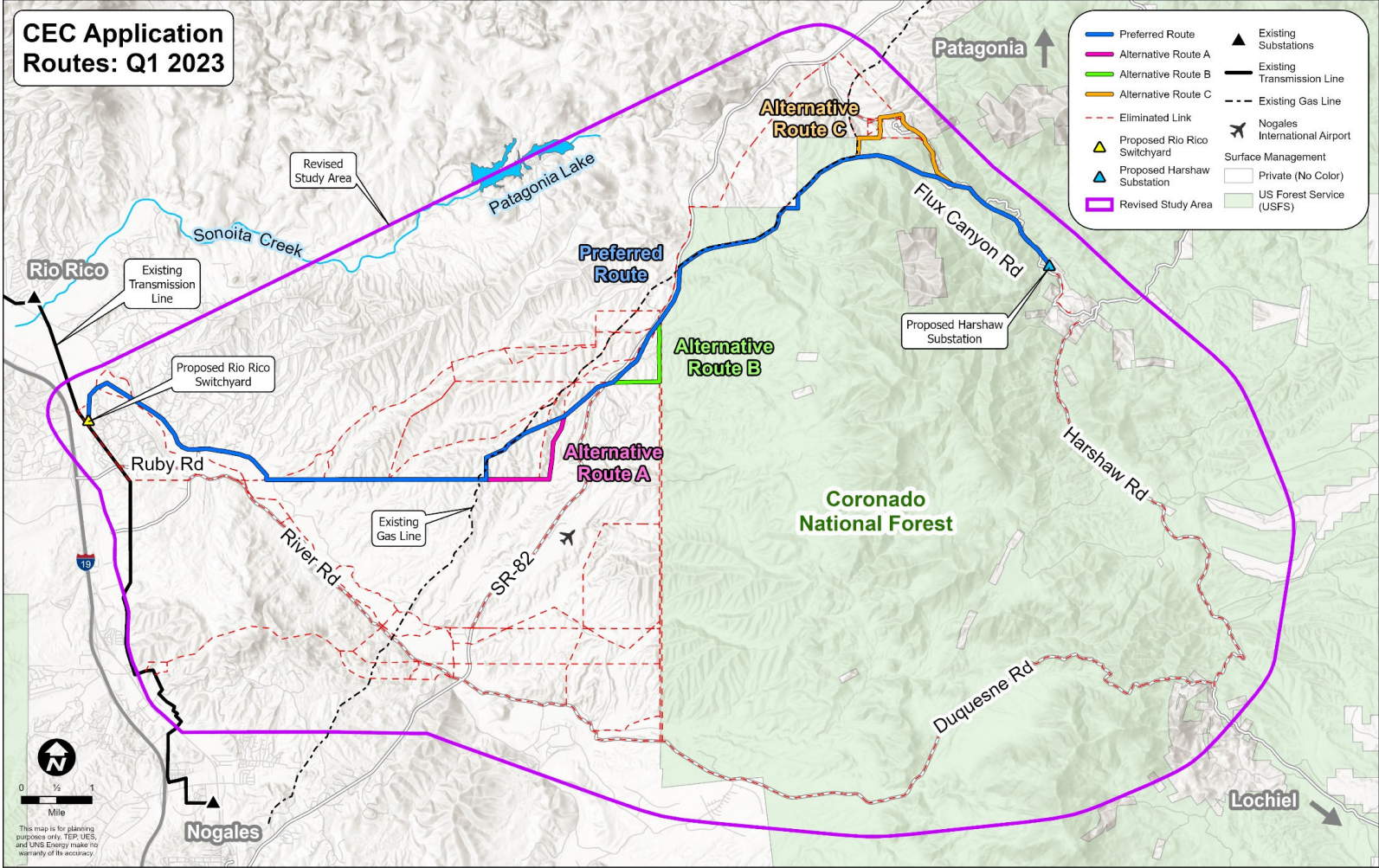


Project Details: Transmission Line

- Self-weathering steel monopoles 75-110 feet tall.
- Up to 100-foot-wide right-of-way when not in road right-of-way.

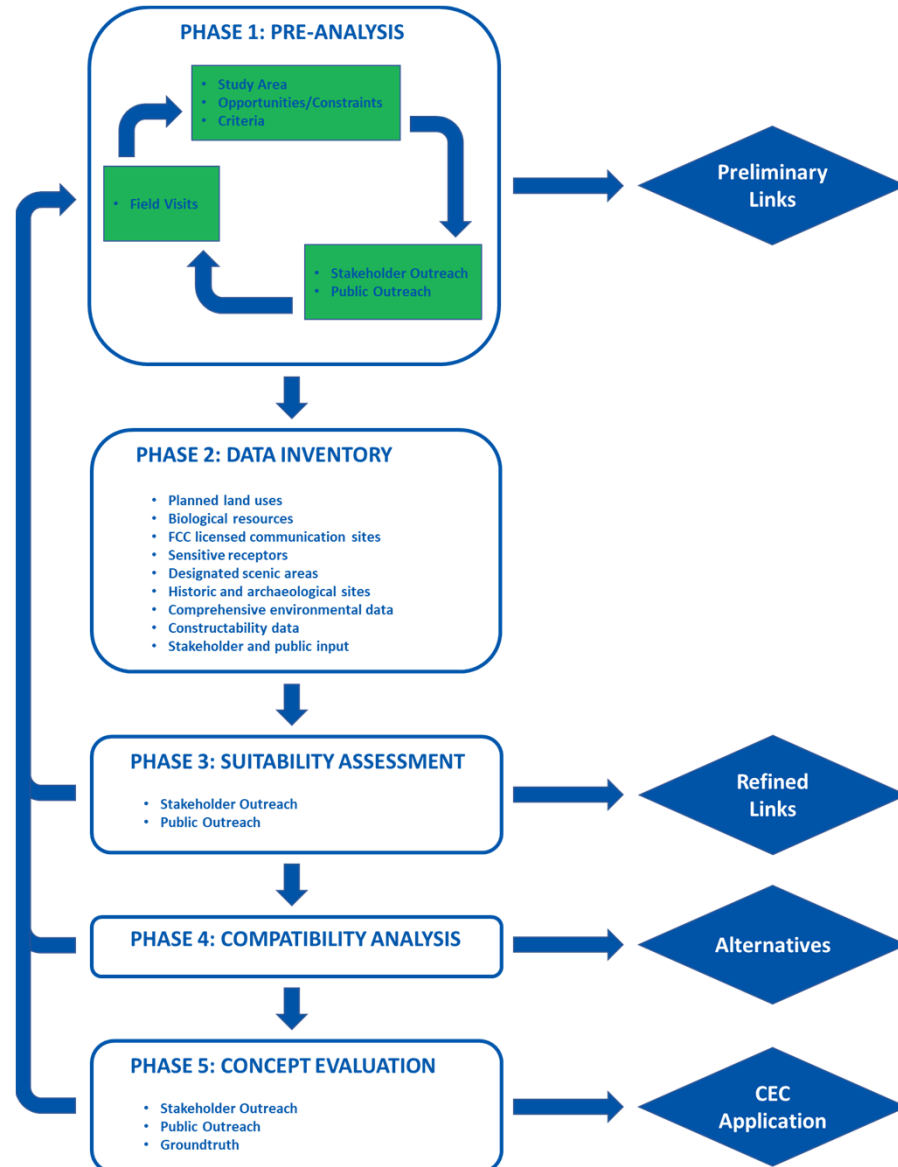


Line Siting – Final Proposed Routes

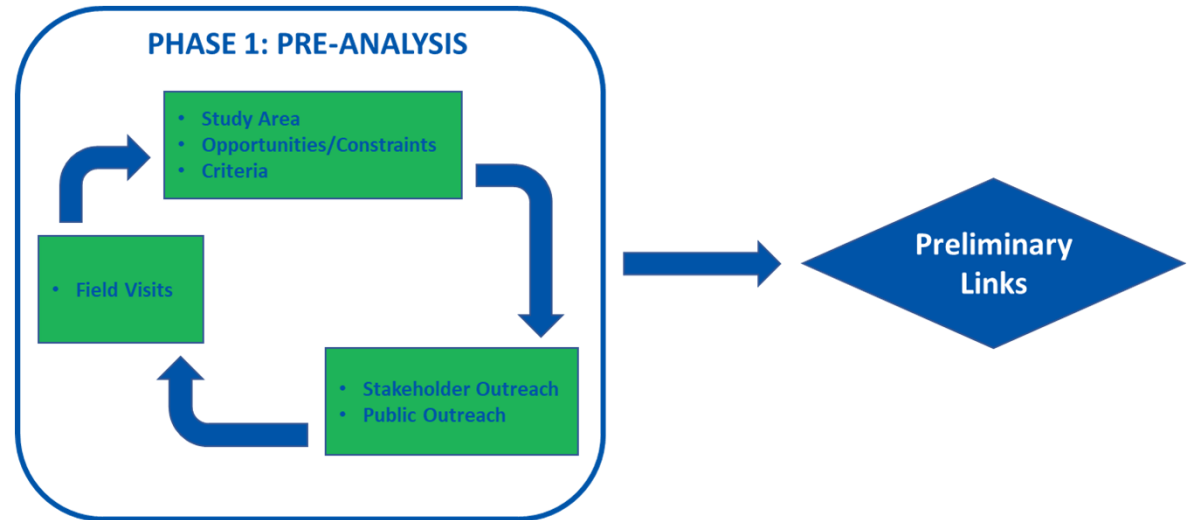
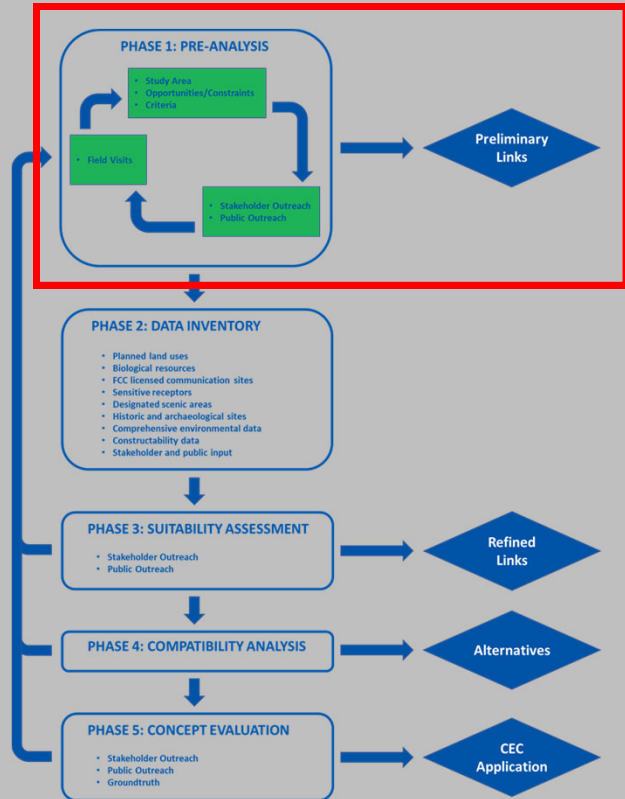


Siting Process

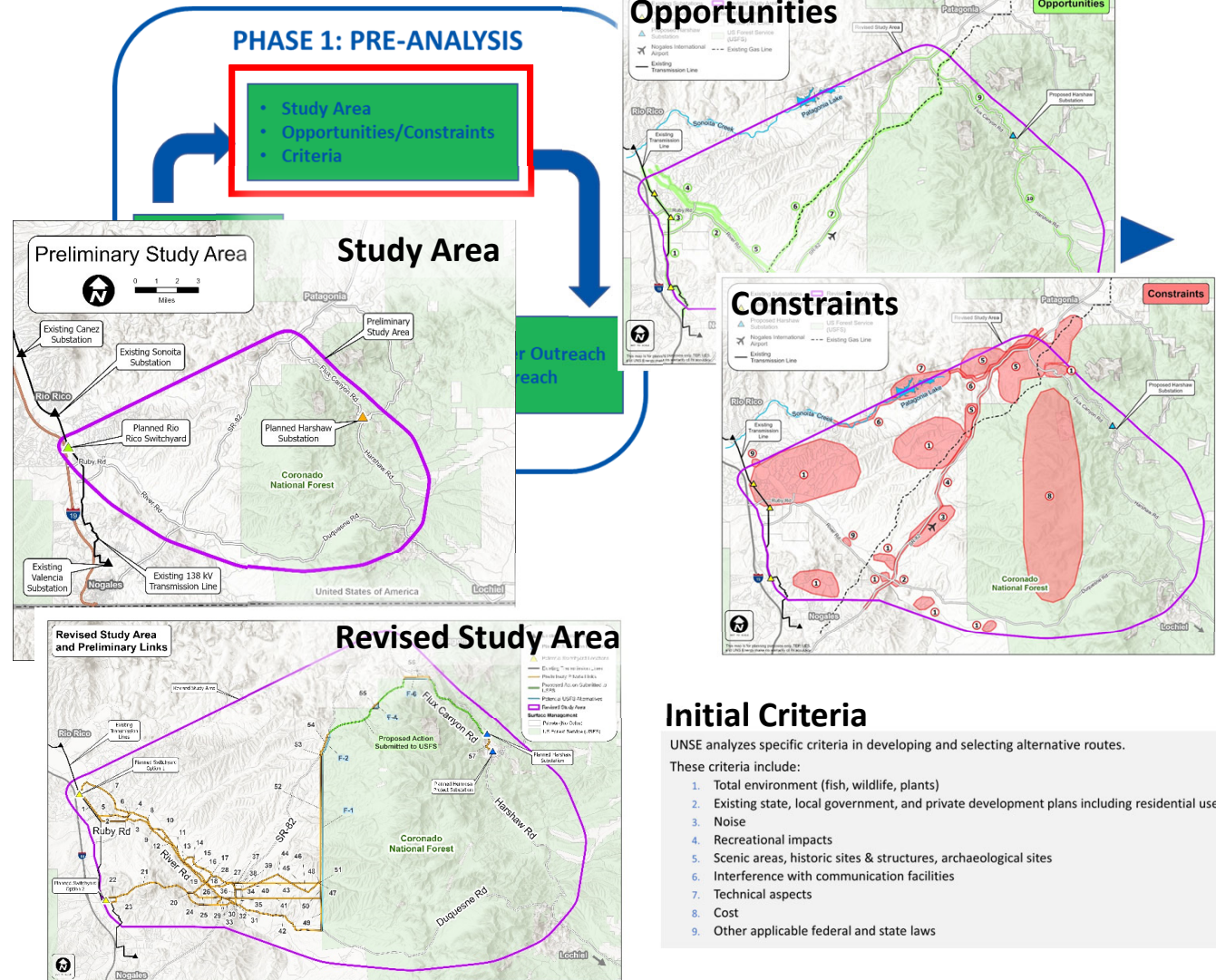
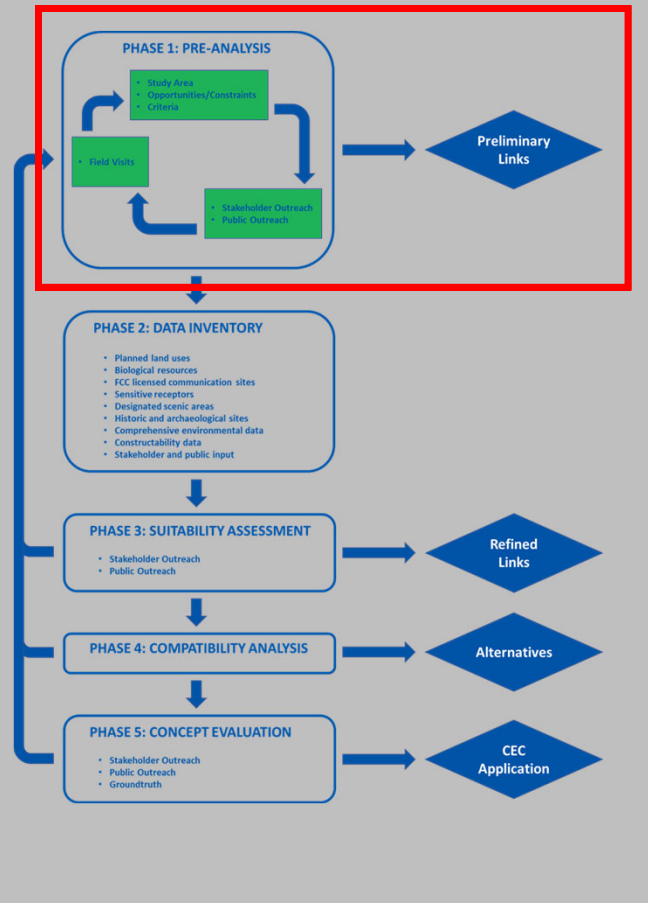
Environmental planning process followed to identify and assess potential transmission line routes.



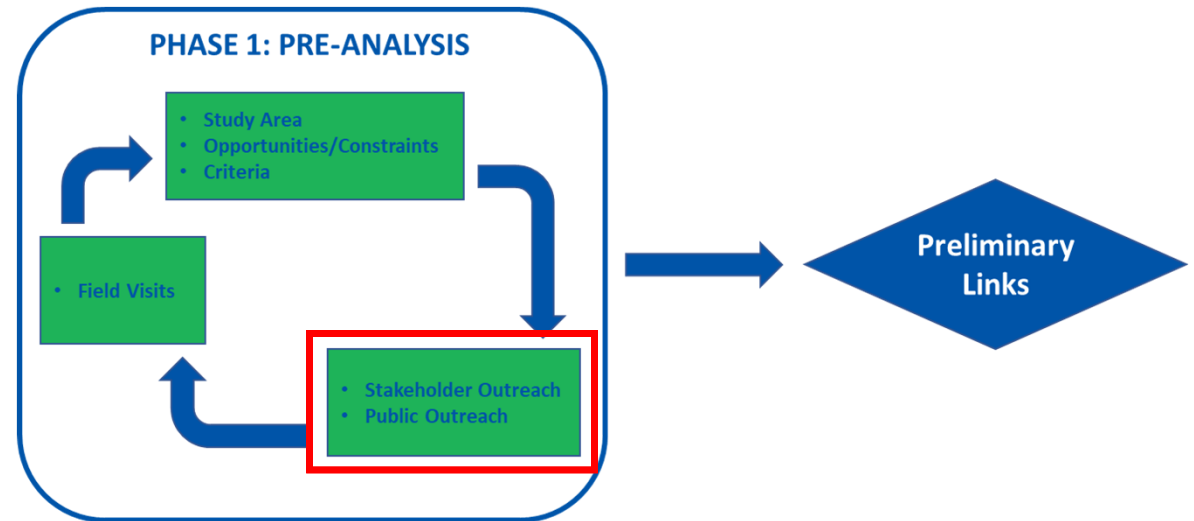
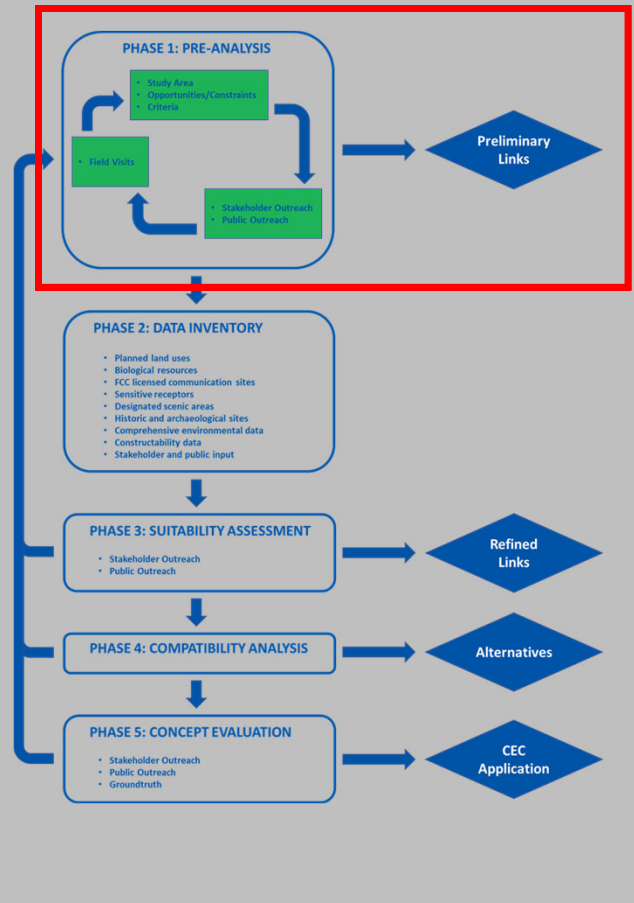
Siting Process



Siting Process



Siting Process



September 24, 2020

Public Open House #1 (virtual)

May 13, 2021

Public Open House #2 (virtual)

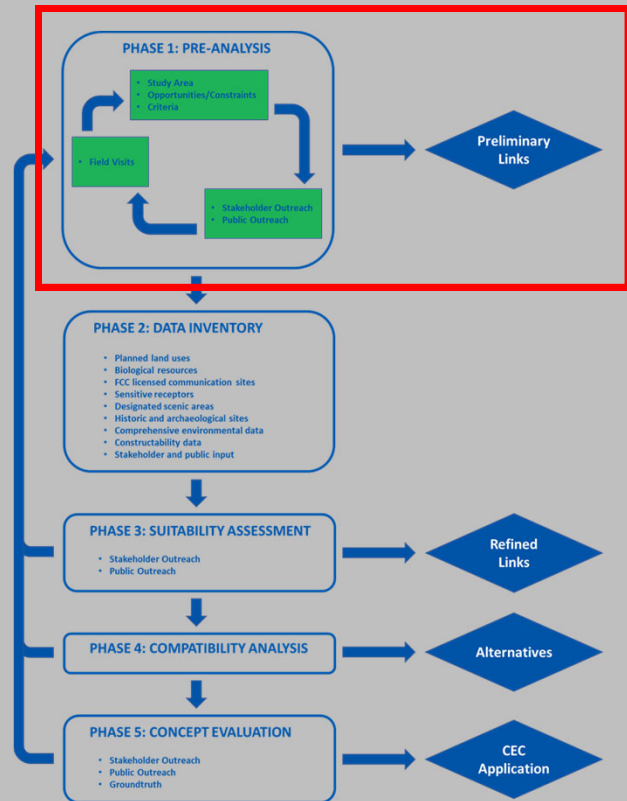
August 18, 2022

Stakeholder Meeting #1 (virtual)

August 25, 2022

Public Open House #3 (hybrid)

Siting Process



PHASE 1: PRE-ANALYSIS

- Study Area
- Opportunities/Constraints
- Criteria

- Field Visits



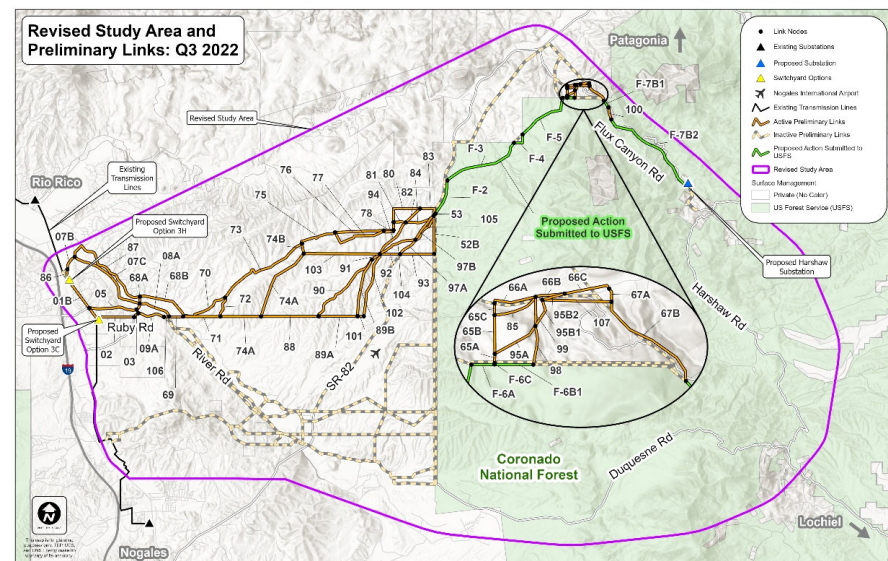
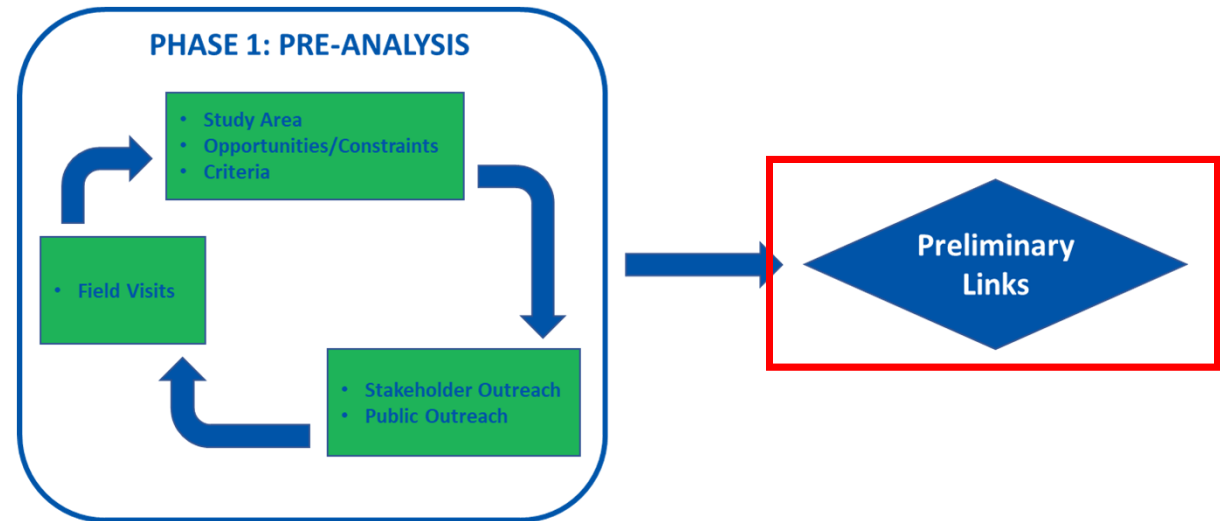
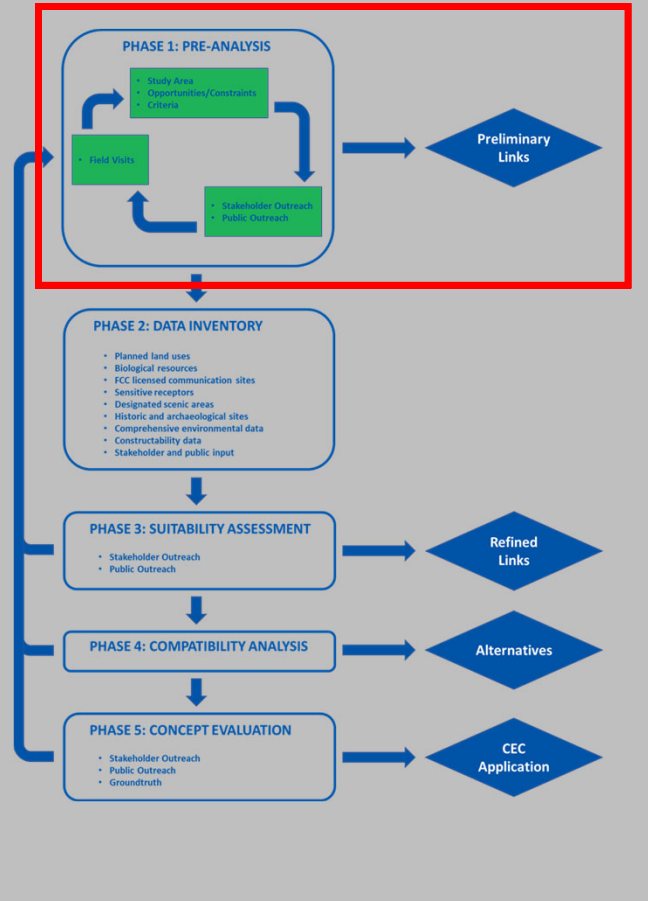
Preliminary Links

Objectives

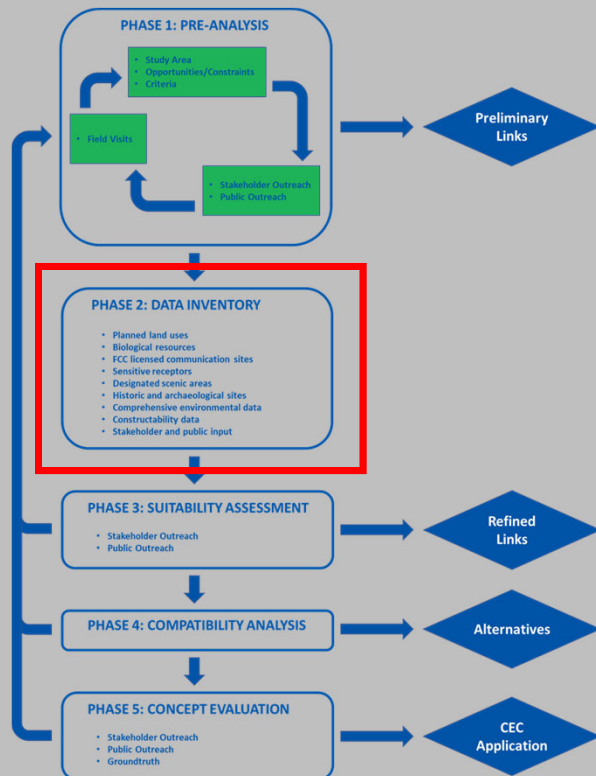
- Familiar with landscape character and geography
- Existing land use inventory
- Ground truth opportunities/constraints
- Develop links



Siting Process



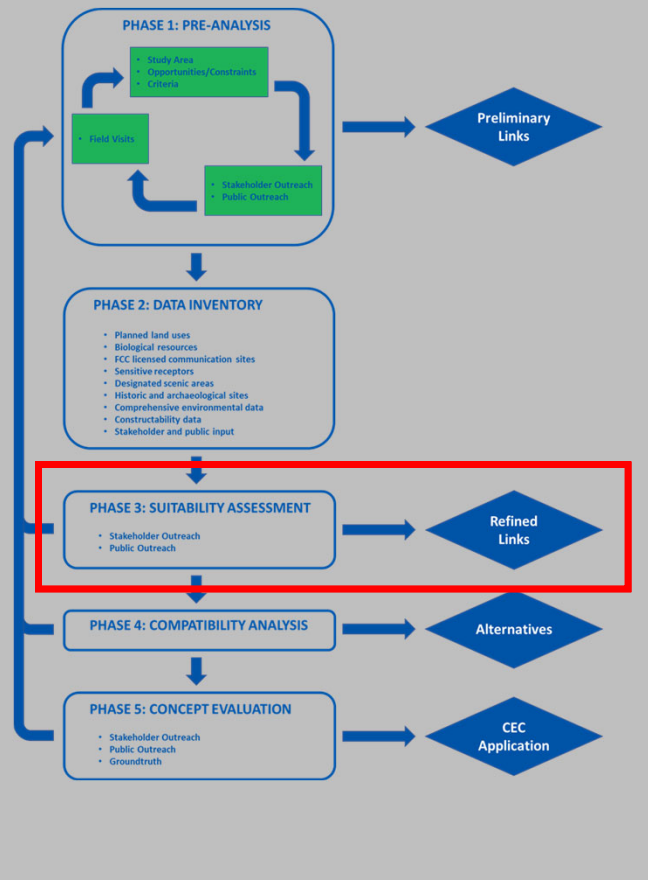
Siting Process



PHASE 2: DATA INVENTORY

- Planned land uses
- Biological resources
- FCC licensed communication sites
- Sensitive receptors
- Designated scenic areas
- Historic and archaeological sites
- Comprehensive environmental data
- Constructability data
- Stakeholder and public input

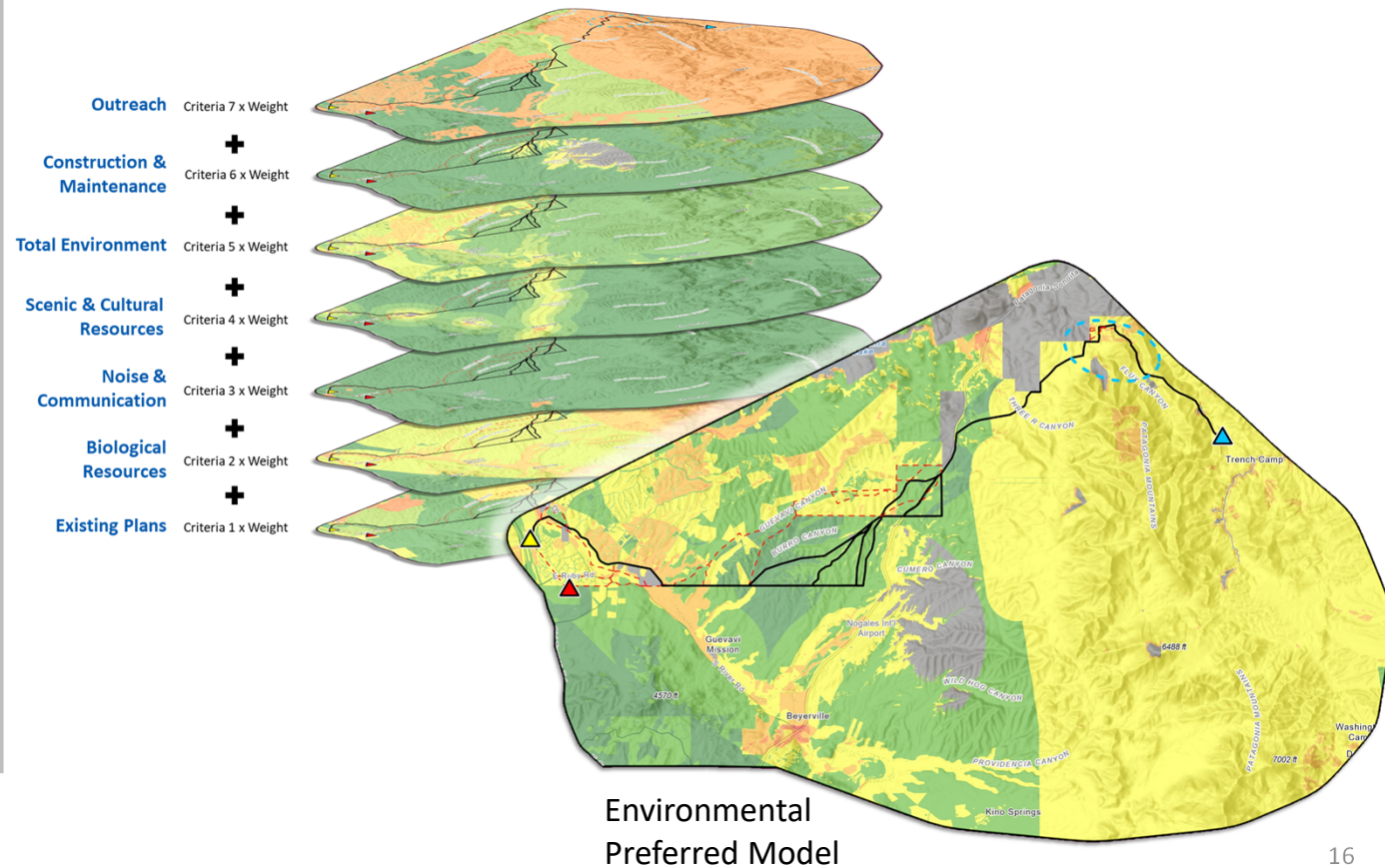
Siting Process



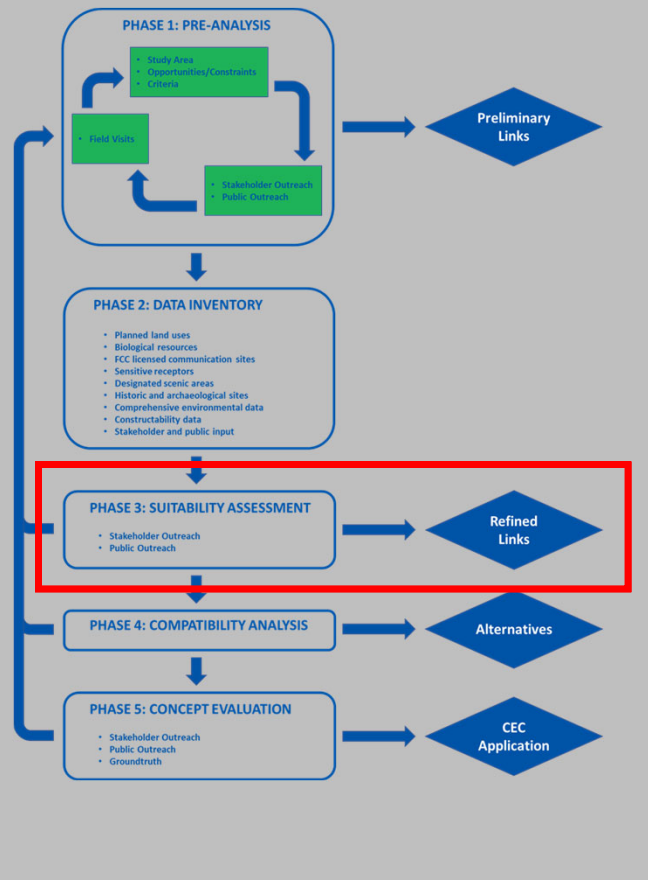
PHASE 3: SUITABILITY ASSESSMENT

- Stakeholder Outreach
- Public Outreach

Refined Links



Siting Process



PHASE 3: SUITABILITY ASSESSMENT

- Stakeholder Outreach
- Public Outreach



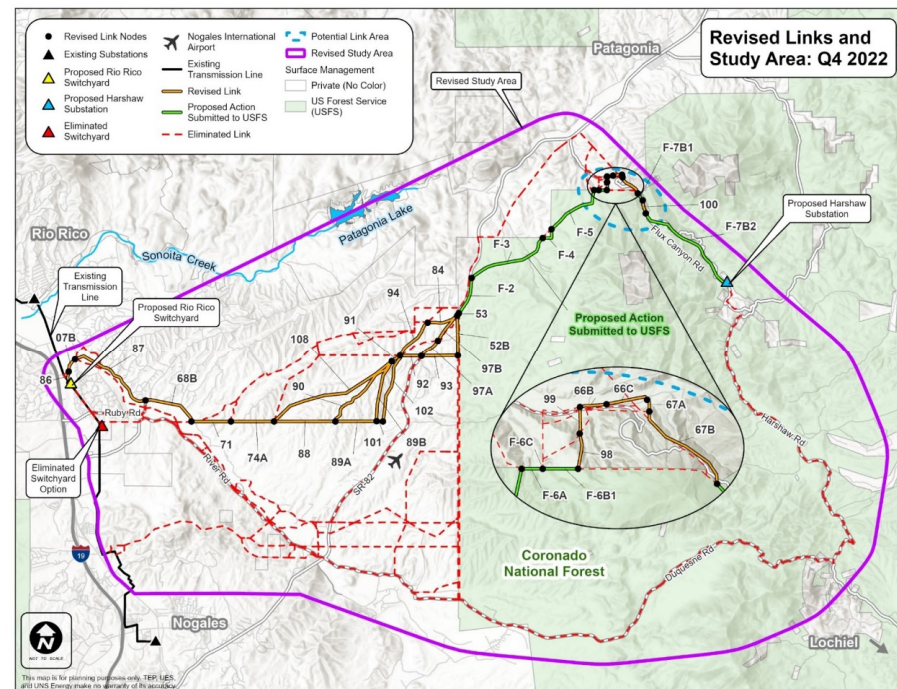
**Refined
Links**

November 15, 2022

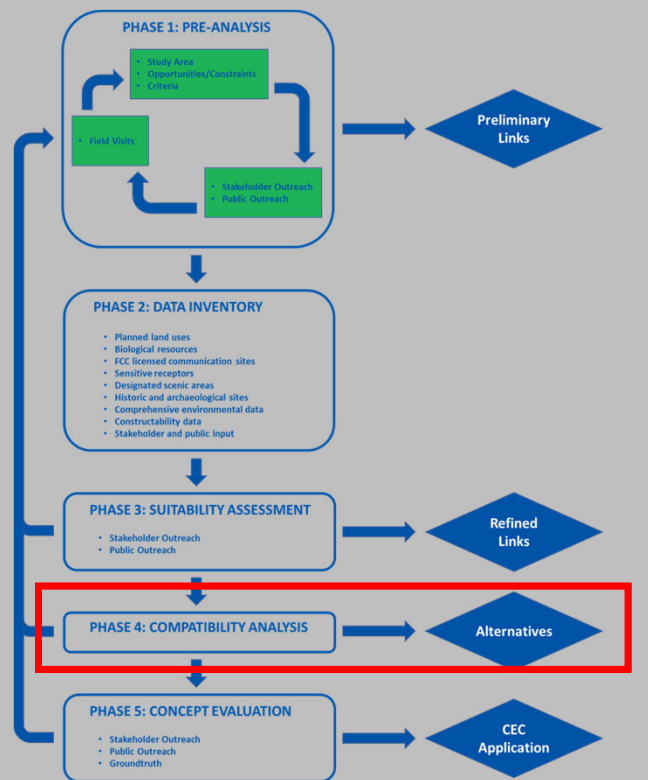
Stakeholder Meeting #2 (virtual)

November 17, 2022

Public Open House #4 (in-person)



Siting Process



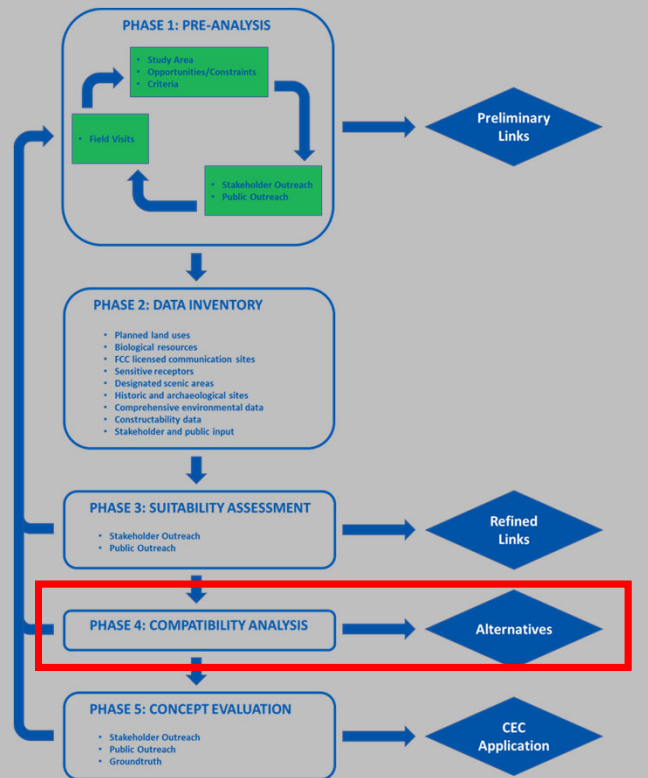
PHASE 4: COMPATIBILITY ANALYSIS

Alternatives

ARS 40-360.06

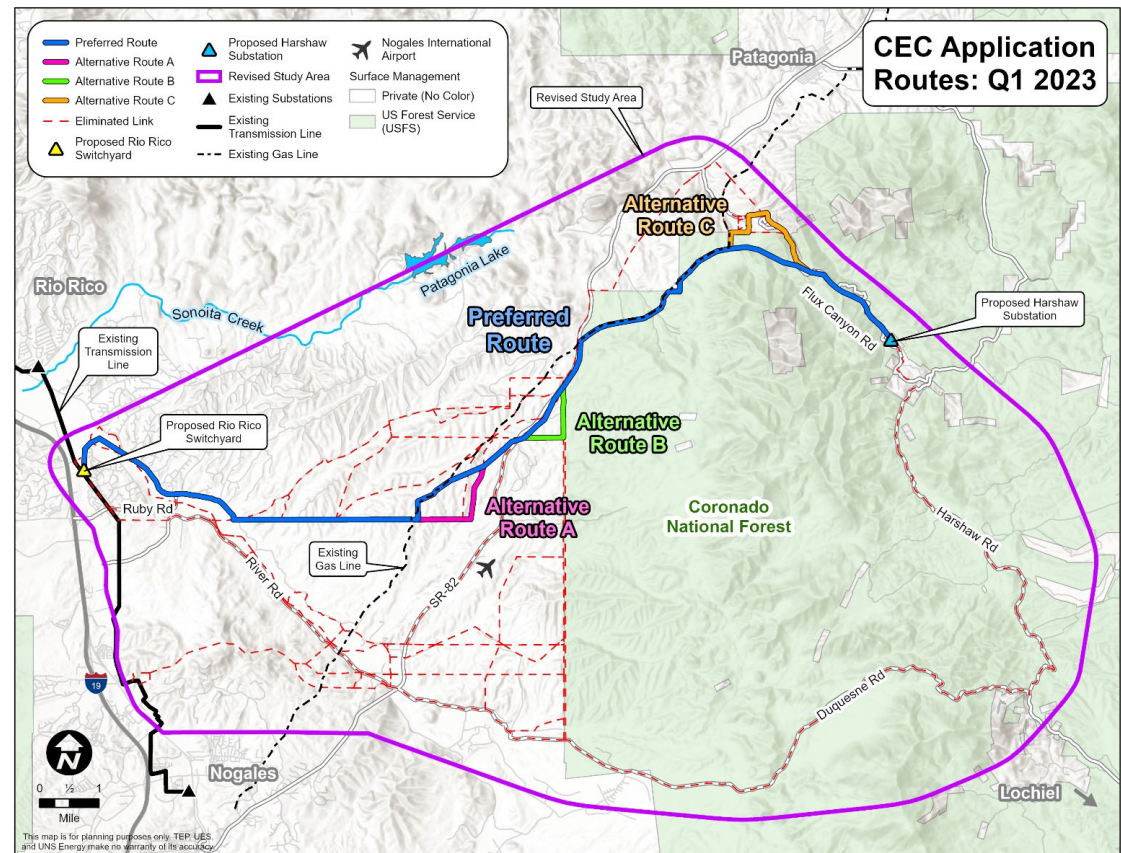
1. Existing plans of this state, local government and private entities for other developments at or in the vicinity of the proposed site.
2. Fish, wildlife and plant life and associated forms of life on which they are dependent.
3. Noise emission levels and interference with communication signals.
4. The proposed availability of the site to the public for recreational purposes, consistent with safety considerations and regulations.
5. Existing scenic areas, historic sites and structures or archaeological sites at or in the vicinity of the proposed site.
6. The total environment of the area.
7. The technical practicability of achieving a proposed objective and the previous experience with equipment and methods available for achieving a proposed objective.
8. The estimated cost of the facilities and site as proposed by the applicant and the estimated cost of the facilities and site as recommended by the committee, recognizing that any significant increase in costs represents a potential increase in the cost of electric energy to the customers or the applicant.
9. Any additional factors that require consideration under applicable federal and state laws pertaining to any such site.

Siting Process

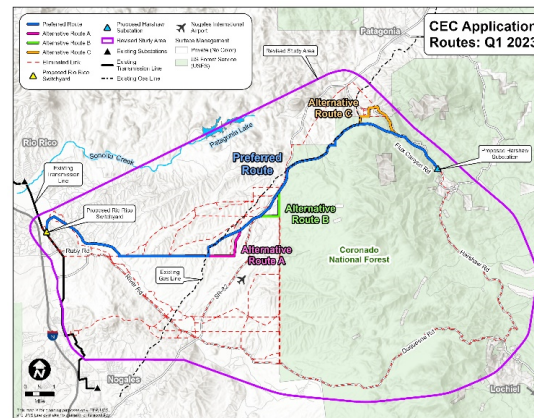
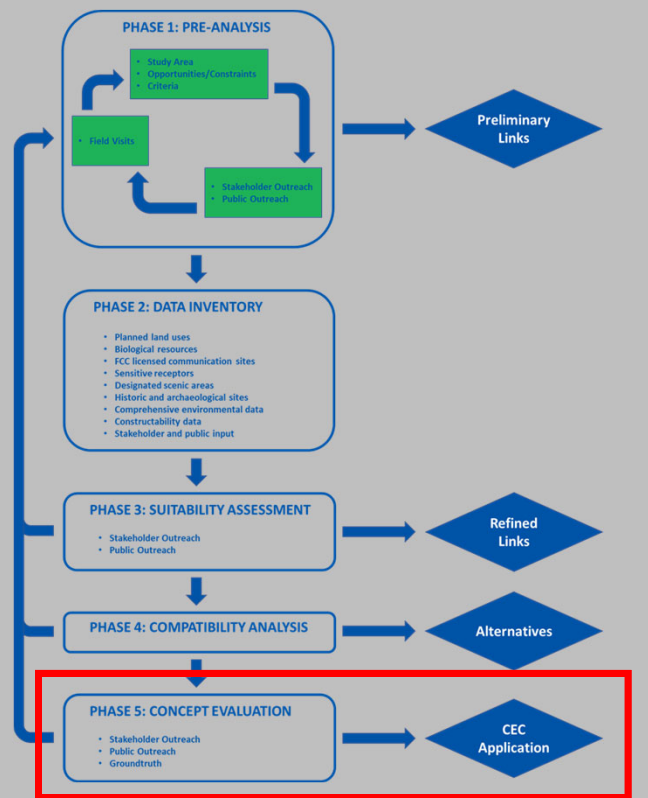


PHASE 4: COMPATIBILITY ANALYSIS

Alternatives



Siting Process

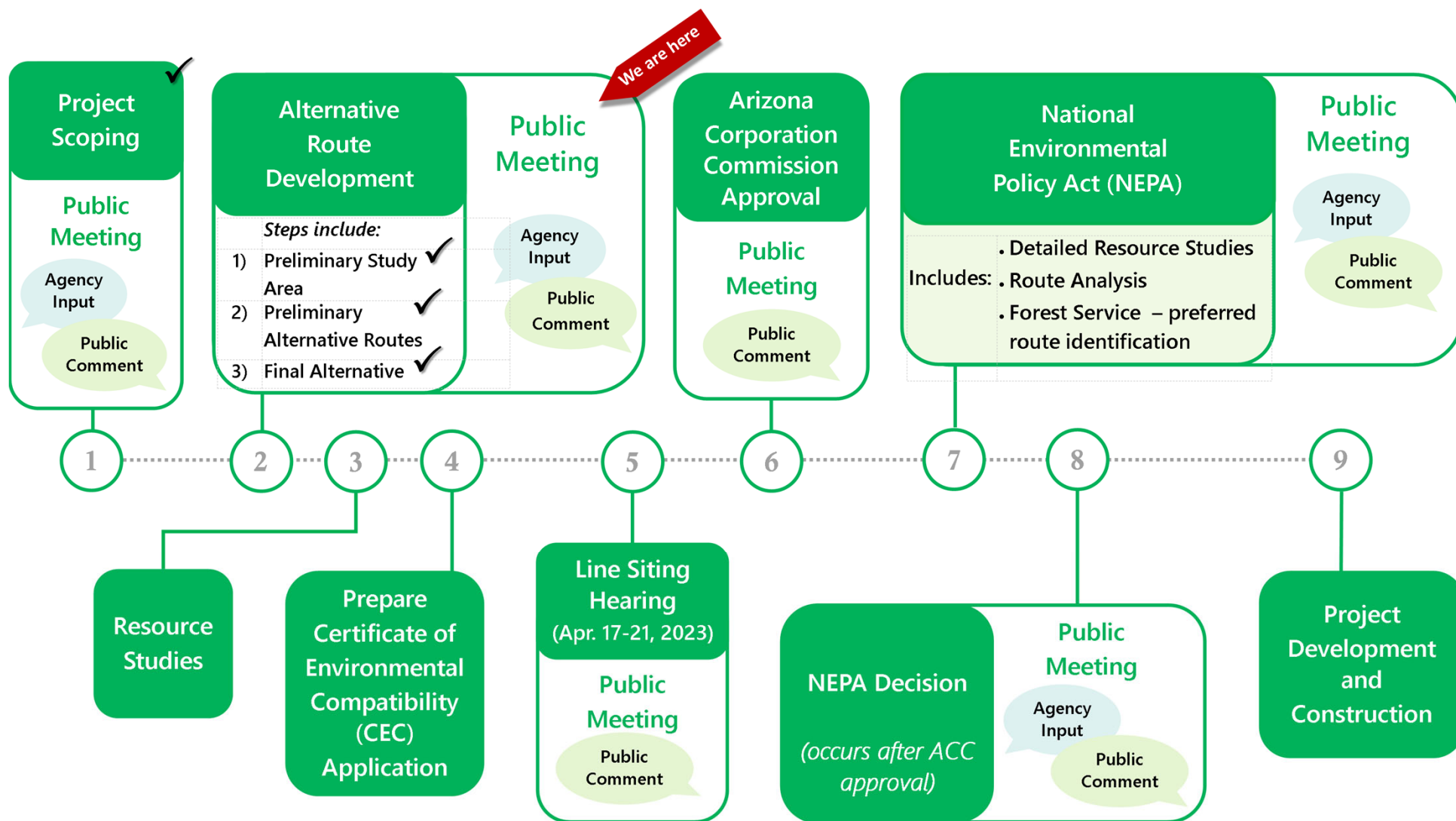


Public Open House

January 25, 2023 6:00-8:00pm
Quality Hotel Americana Nogales

File CEC Application (tentative)
March 3, 2023

Line Siting Hearing (tentative)
April 17-21, 2023
Quality Hotel Americana Nogales



Next Steps

- March 3, 2023 – File Application for CEC
- April 17-21, 2023 – Line Siting Hearing
- May/June 2023 – ACC Approval of CEC
- TBD – USFS review under NEPA

More Project Information

For more project information please visit the project webpage:

<https://www.uesaz.com/rio-rico-to-harshaw/>

Here, you will find:

- Project details including the project newsletter
- A print copy and of this presentation
- Commonly asked questions & answers

How to Comment

- Mail a comment form or a letter to: UniSource Energy Services ATTN: Rio Rico-Harshaw PO Box 711 Tucson, AZ 85702
- Send comments to RR2Harshaw@uesaz.com
- Visit uesaz.com/rio-rico-to-harshaw and fill out an online comment form
- Call 1-833-783-0396 and leave a voicemail message in English
- Deje un mensaje al 1-833-783-0396 y le regresaran su llamada

Questions?

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**Application for a Certificate of Environmental
Compatibility**

**Rio Rico to Harshaw
138 Kilovolt Transmission Line Project**

Exhibit J-8

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P.O. Box 711
ATTN: Rio Rico-Harshaw
Mail Stop RC131
Tucson, AZ 85701-0711

First Class Mail
Presorted
US Postage Paid
Tucson AZ
Permit #21

Rio Rico-Harshaw Transmission Line Project



We want to hear from you

UniSource wants to hear from you in the early phases for a planned transmission line that will meet growing energy needs and support electric reliability in Santa Cruz County. Please join us at an upcoming virtual public open house meeting to ask questions and learn more about the project.

Virtual Public Open House Meeting

Thursday, Sept. 24, 2020 | 6-8 p.m.

TO JOIN VIA ZOOM:

Visit uesaz.com/rio-rico-to-harshaw for the meeting link and passcode

TO LISTEN VIA TELEPHONE:

Call 669-900-6833

Webinar ID: 913 4239 0972

Passcode: 14432319

Learn more at uesaz.com/rio-rico-to-harshaw

Energy Grid Update Rio Rico-Harshaw Transmission Line Project Newsletter #1 – September 2020



UniSource Seeks Public Input for New 138 Kilovolt Transmission Line

UNS Electric, Inc. (UNSE), a subsidiary of UniSource Energy Services, is developing plans for the new Rio Rico-Harshaw 138 Kilovolt (kV) Transmission Line Project (Rio Rico-Harshaw Line). UNSE is seeking public input about the project and invites you to attend the upcoming virtual open house meeting listed in this newsletter to ask questions and submit comments.

Rio Rico-Harshaw Line

The Rio Rico-Harshaw Line will involve the construction of an approximately 20-30 mile, single-circuit 138 kV transmission line mounted on steel monopole structures. The project will interconnect UNSE's existing 138 kV transmission system to the planned Harshaw Substation through a planned 138 kV switchyard in Rio Rico.

The Rio Rico-Harshaw Line will serve the Hermosa Project, a mine exploration project currently in the pre-feasibility phase, which is owned by Arizona Minerals Inc. (AMI), a subsidiary of South32, located in Santa Cruz County (Hermosa Project). The line also will improve service reliability for all electric customers in the San Rafael Valley, Washington Camp and Lochiel areas of Southern Arizona. The Hermosa Project currently is served by UNSE through an existing 13.2 kV distribution line that is not adequate to support the Hermosa Project's anticipated energy needs.

Components of the Rio Rico-Harshaw Line project include:

- **Rio Rico 138 kV Switchyard:** A new switchyard is required to connect to UNSE's existing 138 kV transmission system. The switchyard will be located east of the Interstate 19 frontage road, about one mile north of Ruby Road.
- **Rio Rico-Harshaw 138 kV Line:** A new line 20-30 miles long to be constructed between the Rio Rico 138 kV Switchyard and the Harshaw Substation.
- **Harshaw Substation:** The new line will interconnect with a planned 138/13.2 kV substation located on the privately-owned Hermosa Project site in Santa Cruz County, about 50 miles southeast of Tucson and about nine miles southeast of Patagonia, Arizona.

UNSE plans to build the line with self-weathering steel monopoles 75-110 feet tall. Taller structures may be required at major road or line crossings.

The Rio Rico-Harshaw Line will require approximately 100-foot wide rights-of-way to cross private and government-owned land in Santa Cruz County.

PLANNING PROCESS

When determining where to locate new electric infrastructure, UNSE considers customers' projected energy needs, proximity to and



A typical weathering steel monopole supporting a 138 kilovolt transmission line.

potential conflicts with existing infrastructure, project costs, geography, input from the public and other factors.

UNSE developed a project study area based upon the anticipated future energy needs of the Hermosa Project, outage history, existing distribution infrastructure and utility corridors within the area, and the potential point of interconnection to UNSE's existing 138 kV transmission system. The study area and interconnection points for the Rio Rico-Harshaw Line are shown on the Preliminary Study Area Map (page 3).

Rio Rico-Harshaw Transmission Line Project

UNSE will complete environmental studies and solicit public comment to evaluate potential transmission line routes within the study area. UNSE also will consult with federal, state, and local jurisdictions and other interested parties regarding the Rio Rico-Harshaw Line.

When possible, UNSE will utilize existing utility and transportation corridors to help minimize any environmental impacts of the line.

UNSE PROJECT BENEFITS

The Rio Rico-Harshaw Line will provide a source of reliable power for the Hermosa Project and support electric reliability for more than 3,000 customers in the area by replacing a portion of a lower-voltage circuit in Santa Cruz County. Steel monopoles – which would replace existing wood poles – and other new components will be better equipped to withstand damage from severe weather and wildfires, preventing outages.

Rio Rico-Harshaw Line's new, higher-voltage facilities would reduce reliability issues associated with inadequate voltage support. The new line also would provide additional capacity that could allow interconnections with future renewable energy projects while supporting economic development in the area.

REQUIRED APPROVALS AND TIMELINE

UNSE plans to apply for a special use authorization from the U.S. Forest Service (USFS) to authorize a segment of the Rio Rico-Harshaw Line that is expected to be built on lands within the Coronado National Forest.

Once UNSE submits the application, the company will work with National Forest officials concerning procedures and requirements for obtaining the special use authorization, including environmental reviews as required by the National Environmental Policy Act (NEPA).

Under Arizona law, UNSE also must secure a Certificate of Environmental Compatibility (CEC) from the Arizona Corporation Commission (ACC) before constructing the transmission line.

UNSE expects to file a CEC application in 2021 with the Arizona Power Plant and Transmission Line Siting Committee (Line Siting Committee), which will review the application in a public process that allows neighbors and other stakeholders to provide comments. If the Line Siting Committee grants a CEC, it will be sent to the ACC for final review and approval.

Rio Rico-Harshaw Line's development timeline will depend in part on the length of the permitting and CEC processes. The transmission line is expected to be in service in 2024.

PUBLIC PARTICIPATION

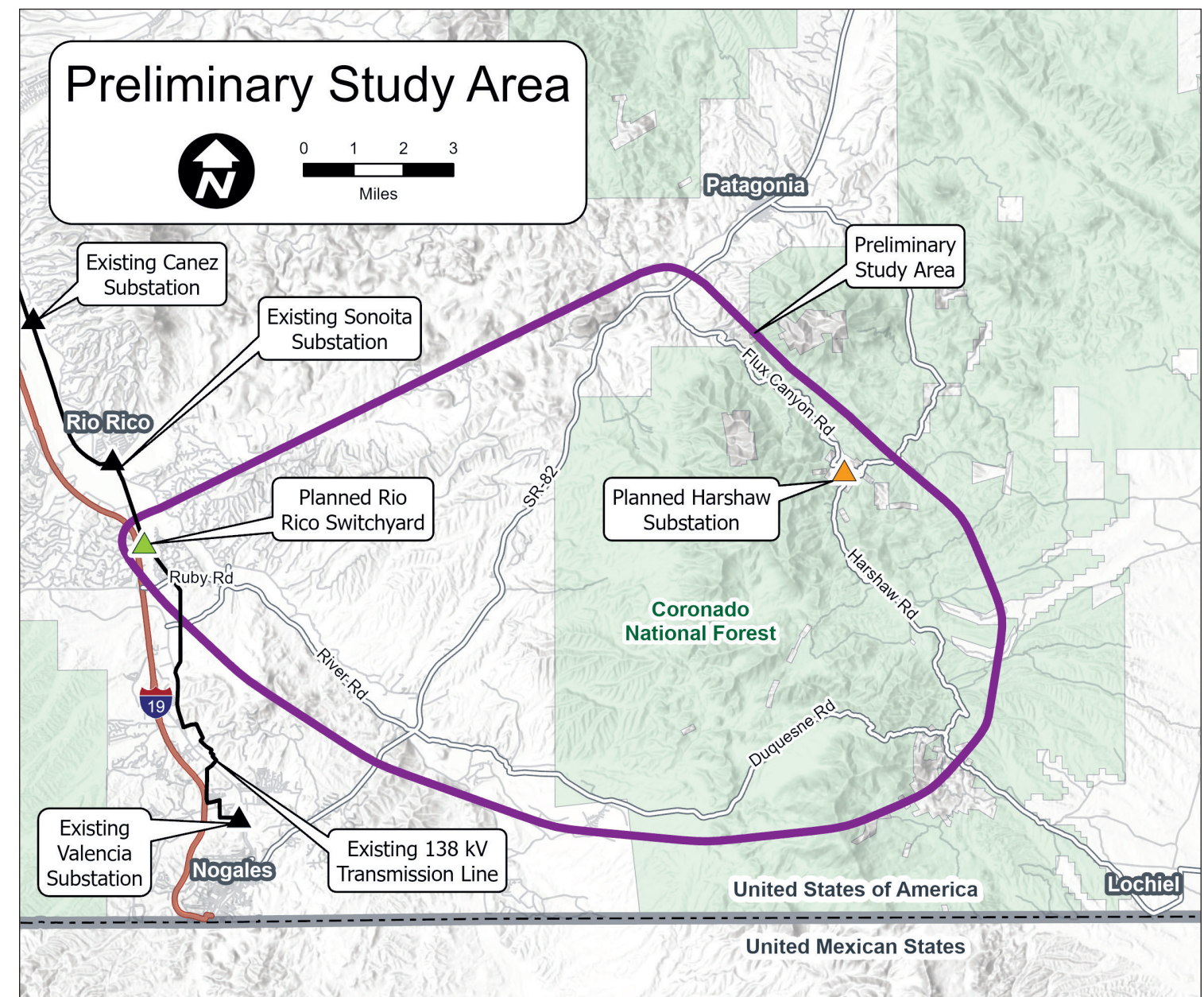
Public and agency input is an important component of the planning process for the Rio Rico-Harshaw Line, even as UNSE supports public health by practicing social distancing and other guidance from the Centers for Disease Control and Prevention.

UNSE will provide information concerning the Rio Rico-Harshaw Line and request public input through virtual presentations, newsletters, interactive survey tools, and other forms of communication, possibly including public open house meetings if they can be conducted safely. More information is available at www.uesaz.com/rio-rico-to-harshaw.

Residents and other stakeholders are always welcome to share their input by:

- Attending the virtual open house meeting listed on the cover of this newsletter
- Mailing a comment form or a letter to:
UniSource Energy Services
ATTN: Rio Rico-Harshaw
PO Box 711
Tucson, AZ 85702
- Sending comments to RR2Harshaw@uesaz.com
- Visiting uesaz.com/rio-rico-to-harshaw and filling out an online comment form.
- Calling 1-833-783-0396 and leaving a voicemail message.

Learn more at uesaz.com/rio-rico-to-harshaw.



Note: Please retain this map. It will be discussed during our Sept. 24, 2020 online meeting.

UNSE busca aporte público sobre el proyecto de línea de transmisión 138 kV e invita al público a asistir virtualmente la próxima reunión comunitaria para más información. Por favor use la información proporcionada en la segunda página de este boletín para enviar un comentario. O por favor deje un mensaje al 520-918-8399 y le regresaran su llamada. Gracias por su interés en este proyecto.



P.O. Box 711

A la atención de: Río Rico-Harshaw
Dirección interna RC131
Tucson, AZ 85701-0711

Correo de primera clase
Preclasificado
Franqueo pagado en los EE. UU.
Tucson, Arizona
Permiso n.º 21

Proyecto de la línea de transmisión Río Rico-Harshaw



Queremos saber de usted

UniSource desea saber lo que piensa en las primeras fases de una línea de transmisión planificada para satisfacer las crecientes necesidades energéticas y respaldar la fiabilidad eléctrica en el condado de Santa Cruz. Únase a nosotros en una próxima reunión abierta virtual para hacer preguntas y obtener más información sobre el proyecto.

Reunión abierta virtual

Jueves, 24 de septiembre de 2020 | 6 a 8 p. m.

PARA UNIRSE A TRAVÉS DE ZOOM:
Visite uesaz.com/rio-rico-to-harshaw para obtener el enlace y la contraseña de la reunión

PARA ESCUCHAR POR TELÉFONO:
Llame al 669-900-6833
ID del seminario web: 913 4239 0972
Contraseña: 14432319

Obtenga más información en
uesaz.com/rio-rico-to-harshaw

Modernización de la red energética Proyecto de la línea de transmisión Río Rico-Harshaw Boletín informativo n.º 1, septiembre de 2020



UniSource solicita los aportes del público para la nueva línea de transmisión de 138 kilovoltios

UNS Electric, Inc. (UNSE), una subsidiaria de UniSource Energy Services, está desarrollando planes para el nuevo proyecto de la línea de transmisión Río Rico-Harshaw de 138 kilovoltios (kV) (línea Río Rico-Harshaw). UNSE solicita los aportes del público para el proyecto y lo invita a asistir a la próxima reunión abierta virtual mencionada en este boletín informativo para hacer preguntas y enviar comentarios.

Línea Río Rico-Harshaw

La línea Río Rico-Harshaw implicará la construcción de una línea de transmisión de 138 kV de circuito único de aproximadamente 20 a 30 millas montada en estructuras monopolares de acero. El proyecto interconectará el sistema de transmisión existente de 138 kV de UNSE con la subestación Harshaw planificada a través de un parque de distribución de 138 kV planificado en Río Rico.

La línea Río Rico-Harshaw contribuirá al Proyecto Hermosa, un proyecto de exploración minera actualmente en la fase de pre-factibilidad, que es propiedad de Arizona Minerals Inc. (AMI), una subsidiaria de South32, ubicada en el condado de Santa Cruz (Proyecto Hermosa). La línea también mejorará la fiabilidad del servicio para todos los clientes de electricidad en las áreas de San Rafael Valley, Washington Camp y Lochiel del sur de Arizona. UNSE actualmente sirve al Proyecto Hermosa a través de una línea de distribución existente de 13.2 kV que no es adecuada para sustentar las necesidades energéticas anticipadas del Proyecto Hermosa. Los componentes del proyecto de la línea Río Rico-Harshaw incluyen:

- **Parque de distribución de Río Rico de 138 kV:** Se requiere un nuevo parque de distribución para conectarse al sistema de transmisión de 138 kV existente de UNSE. El parque de distribución estará ubicado al este de la carretera de acceso al Interestatal 19, aproximadamente a una milla al norte de Ruby Road.
- **Línea de 138 kV de Río Rico-Harshaw:** Una nueva línea de 20 a 30 millas de largo que se construirá entre el parque de distribución de 138 kV de Río Rico y la subestación de Harshaw.
- **Subestación de Harshaw:** La nueva línea se interconectará con una subestación planificada de 138/13.2 kV ubicada en el sitio privado del Proyecto Hermosa en el condado de Santa Cruz, aproximadamente 50 millas al sureste de Tucson y nueve millas al sureste de Patagonia, Arizona.

UNSE planea construir la línea con monopolos de Acero Corten de 75 a 110 pies de altura. Es posible que se requieran estructuras más altas en los cruces de carreteras o las líneas principales.

La línea Río Rico-Harshaw requerirá aproximadamente 100 pies de ancho de derechos de paso para pasar por tierras privadas y propiedad del gobierno en el condado de Santa Cruz.

PROCESO DE PLANIFICACIÓN

Al determinar dónde ubicar la nueva infraestructura eléctrica, UNSE considera las necesidades de energía proyectadas de los clientes, la proximidad y los posibles conflictos



Un monopo de Acero Corten típico que soporta una línea de transmisión de 138 kilovoltios.

con la infraestructura existente, los costos del proyecto, la geografía, los aportes del público y otros factores.

UNSE desarrolló un área de estudio del proyecto en función de las necesidades futuras de energía anticipadas del Proyecto Hermosa, el historial de interrupciones del suministro eléctrico, la infraestructura de distribución existente y los corredores de servicios públicos dentro del área, y el posible punto de interconexión con el sistema de transmisión de 138 kV existente de UNSE. El área de estudio y los puntos de interconexión para la línea Río Rico-Harshaw se muestran en el mapa del área de estudio preliminar (página 3).

Proyecto de la línea de transmisión Río Rico-Harshaw

UNSE completará estudios ambientales y solicitará comentarios públicos para evaluar las posibles rutas de la línea de transmisión dentro del área de estudio. UNSE también consultará con jurisdicciones federales, estatales y locales y otras partes interesadas con respecto a la línea Río Rico-Harshaw.

Cuando sea posible, UNSE utilizará los corredores de servicios públicos y transporte existentes para ayudar a minimizar cualquier impacto ambiental de la línea.

BENEFICIOS DEL PROYECTO DE UNSE

La línea Río Rico-Harshaw proporcionará una fuente de energía fiable para el Proyecto Hermosa y fomentará la confiabilidad eléctrica para más de 3,000 clientes en el área al reemplazar una parte de un circuito de bajo voltaje en el condado de Santa Cruz. Los monopolos de acero, que reemplazarían a los postes de madera existentes, y otros componentes nuevos estarán mejor equipados para soportar los daños ocasionados por condiciones climáticas graves e incendios forestales, lo que evitará interrupciones del suministro eléctrico.

Las nuevas instalaciones de más alto voltaje de la línea Río Rico-Harshaw reducirían los problemas de fiabilidad asociados a un soporte de voltaje inadecuado. La nueva línea también proporcionaría capacidad adicional que podría permitir interconexiones con futuros proyectos de energía renovable mientras apoya el desarrollo económico del área.

APROBACIONES REQUERIDAS Y CRONOGRAMA

UNSE planea solicitar una autorización de uso especial del Servicio Forestal de los EE. UU. (U.S. Forest Service, USFS) para autorizar un segmento de la línea Río Rico-Harshaw que se espera que se construya en terrenos del Bosque Nacional Coronado.

Una vez que UNSE presente la solicitud, la compañía trabajará con los funcionarios del Bosque Nacional en relación con los procedimientos y requisitos para obtener la autorización de uso especial, incluidas las evaluaciones ambientales según lo exige la Ley Nacional de Política Ambiental (National Environmental Policy Act, NEPA).

Conforme a la ley de Arizona, UNSE también debe obtener un Certificado de Compatibilidad Ambiental (Certificate of Environmental Compatibility, CEC) de la Comisión de Corporaciones de Arizona (Arizona Corporation Commission, ACC) antes de construir la línea de transmisión. UNSE espera presentar una solicitud de CEC en 2021 ante el

Comité de emplazamiento de centrales eléctricas y líneas de transmisión de Arizona (Comité de emplazamiento de líneas), que revisará la solicitud en un proceso público que permite a los vecinos y otras partes interesadas proporcionar comentarios. Si el Comité de emplazamiento de líneas otorga un CEC, se enviará a la ACC para su evaluación y aprobación final.

El calendario de desarrollo de la línea Río Rico-Harshaw dependerá en parte de la duración de los procesos de otorgamiento de permisos y el CEC. Se espera que la línea de transmisión esté en funcionamiento en 2024.

PARTICIPACIÓN PÚBLICA

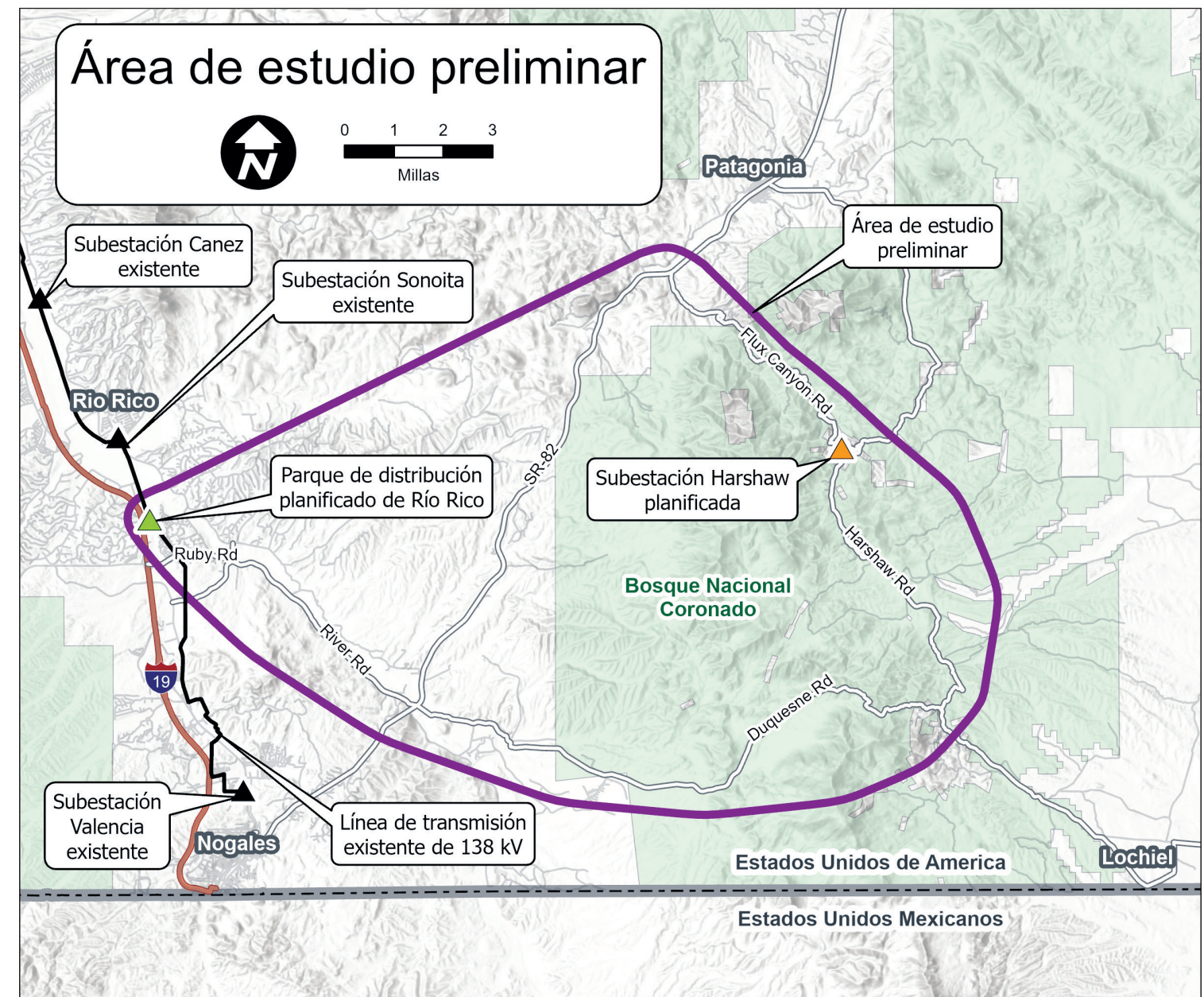
Los aportes públicos y de agencias son un componente importante del proceso de planificación de la línea Río Rico-Harshaw, incluso cuando UNSE promueve la salud pública mediante la práctica del distanciamiento social y otras pautas de los Centros para el Control y la Prevención de Enfermedades.

UNSE proporcionará información sobre la línea Río Rico-Harshaw y solicitará comentarios públicos a través de presentaciones virtuales, boletines informativos, herramientas de encuestas interactivas y otras formas de comunicación, lo que posiblemente incluya reuniones públicas abiertas si pueden realizarse de manera segura. Para obtener más información, visite www.uesaz.com/rio-rico-to-harshaw.

Los residentes y otras partes interesadas siempre son bienvenidos a compartir sus opiniones de las siguientes maneras:

- Asistir a la reunión abierta virtual que se menciona en la portada de este boletín informativo.
- Enviar por correo postal un formulario de comentarios o una carta a: UniSource Energy Services
A la atención de: Río Rico-Harshaw
PO Box 711
Tucson, AZ 85702
- Enviar comentarios a RR2Harshaw@uesaz.com
- Visitar uesaz.com/rio-rico-to-harshaw y completar un formulario de comentarios en línea.
- Llamar al 520-918-8399 y dejar un mensaje de correo de voz.

Obtenga más información en uesaz.com/rio-rico-to-harshaw.



Nota: Por favor conserve este mapa. Se analizará durante nuestra reunión en línea del 24 de septiembre de 2020.



P.O. Box 711
ATTN: Rio Rico-Harshaw
Mail Stop RC131
Tucson, AZ 85701-0711

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Rio Rico-Harshaw Transmission Line Project



Help Us Design Our Local Energy Grid

Use your phone, tablet or laptop to participate in a convenient, interactive survey that will help UniSource developing a new transmission line route. Read inside to learn how you can participate in the planning process.



Virtual Public Open House Meeting

May 13, 2021 | 6-8 p.m.

TO JOIN VIA ZOOM:

Visit uesaz.com/rio-rico-to-harshaw for the meeting link and passcode

TO LISTEN VIA TELEPHONE:

Call 1-669-900-6833 or 1-253-215-8782

Webinar ID: 983 7231 9478

Passcode: 68836350

Energy Grid Update Rio Rico-Harshaw Transmission Line Project Newsletter #2 – April 2021



UniSource Seeks Public Input on Potential Transmission Line Route Links

UNS Electric, Inc. (UNSE), a subsidiary of UniSource Energy Services, has identified potential route segments, or "links," for a planned transmission line in Santa Cruz County. The line will serve a mine exploration project while improving service for residential customers in the area.

The Rio Rico-Harshaw 138 Kilovolt (kV) Transmission Line Project will involve the construction of an approximately 20-30 mile, single-circuit transmission line that will interconnect UNSE's existing 138 kV transmission system to the planned Harshaw Substation through a planned 138 kV switchyard in Rio Rico.

The line will serve the Hermosa Project, a mine exploration project owned by Arizona Minerals Inc. (AMI), a subsidiary of South32. Hermosa Project is currently in the pre-feasibility phase. The line also will improve reliability for electric customers in the San Rafael Valley, Washington Camp and Lochiel areas. UNSE's existing 13.2 kV distribution line is not adequate to support the community's future energy needs, including the Hermosa Project's anticipated requirements.

In September 2020, UNSE held a virtual public open house meeting and gathered public input about the project. Based on comments from residents and additional study, UNSE expanded the project study area. Some recipients of this newsletter are located in the larger, revised study area and were added to the project outreach contact list.

UNSE has identified 58 potential route links that could be combined in various ways to form the final Rio Rico-Harshaw transmission line route. These route links are located on private land and in the Coronado National Forest (CNF).

Within the CNF and in accordance with U.S. Forest Service (USFS) policy, UNSE identified a preferred route that generally follows existing utility and road

corridors, including the El Paso Natural Gas Pipeline alignment and UNSE's existing 13.2 kV distribution line along Flux Canyon Road. Use of this route would minimize environmental impacts.

REQUIRED APPROVALS and TIMELINE

UNSE has submitted a Special Use Permit application to the CNF for permission to build along its preferred route through the forest. The CNF will conduct a comprehensive analysis of the effects of the new line on the environment to comply with the National Environmental Policy Act and other applicable federal statutes. Where needed, appropriate mitigation measures will be identified and implemented.

In addition to the Special Use Permit, UNSE must secure Arizona Corporation Commission (ACC) approval of a Certificate of Environmental Compatibility (CEC) before it can build the transmission line. UNSE plans to file a CEC application next year with the Arizona Power Plant and Transmission Line Siting Committee, which will review the application in a public process that provides opportunities for neighbors and other stakeholders to comment. If the Line Siting Committee grants a CEC, it will be sent to the ACC for final review and approval.

UNSE plans to place the Rio Rico-Harshaw Transmission Line into service in late 2024.

VIRTUAL PUBLIC OPEN HOUSE

UNSE invites members of the public to ask questions, submit comments and learn more about the project at our virtual open house meeting on May 13, 2021. Residents and other stakeholders are encouraged to use the identifying numbers in the enclosed map to share thoughts or concerns about specific links. For more details, including ways to participate, please view the cover of this newsletter.

ONLINE, INTERACTIVE SURVEY

UNSE invites you to participate in our easy-to-use, interactive survey. Using interactive maps and other tools, you can rank the importance of project factors and comment on specific links.

Using your mobile phone, tablet or computer, please visit the project webpage at uesaz.com/rio-rico-to-harshaw and click on the interactive survey link. The survey will accept public comments for 30 days following the virtual open house.

OTHER WAYS TO COMMENT

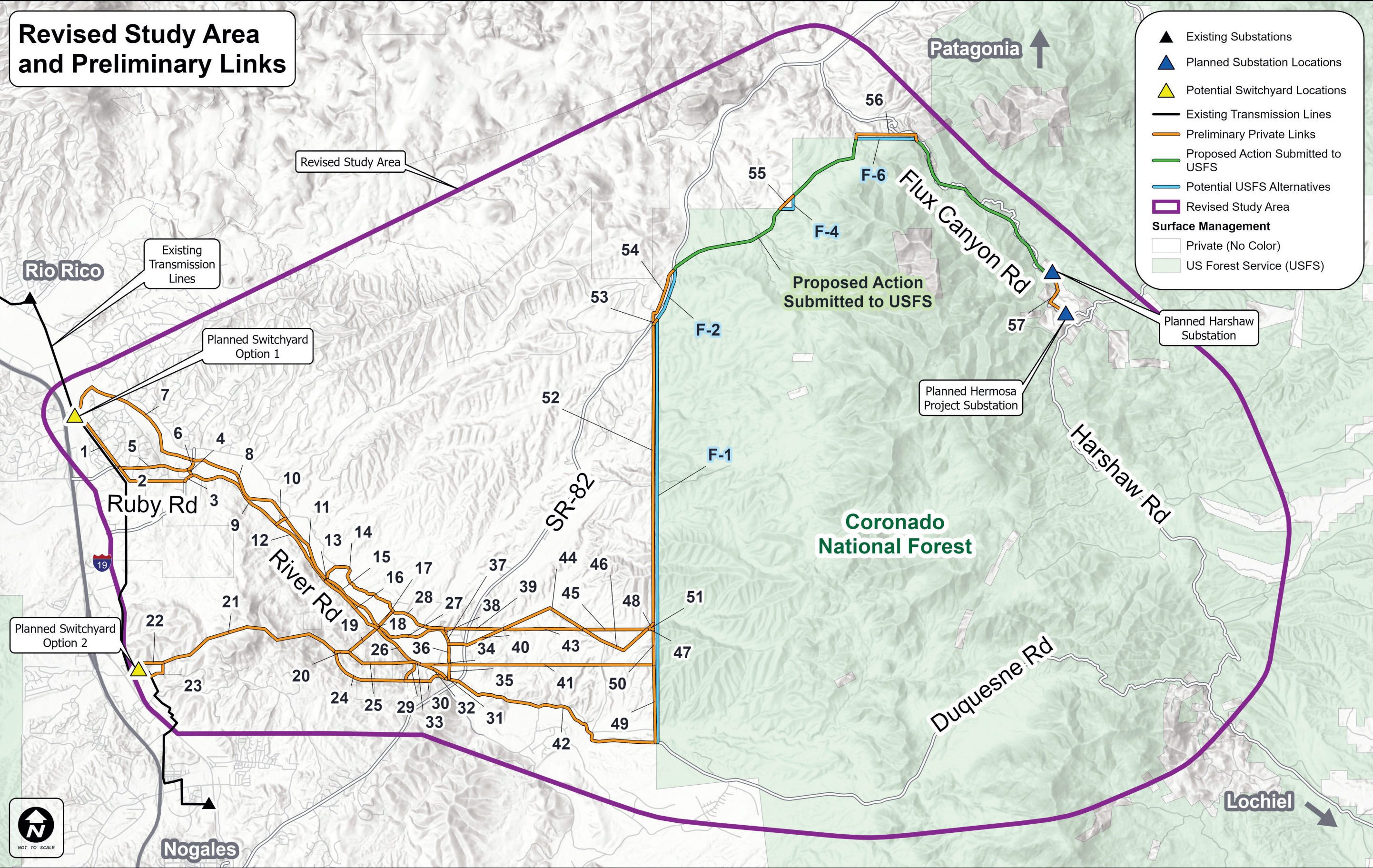
UNSE encourages residents, property owners and other stakeholders to share their input about the transmission line route by:

- Mailing the comment form or a letter with comments to:
UniSource Energy Services
ATTN: Rio Rico-Harshaw
P.O. Box 711
Tucson, AZ 85702
- Sending comments to RR2Harshaw@uesaz.com
- Visiting uesaz.com/rio-rico-to-harshaw/ and filling out an online comment form.
- Calling 1-833-783-0396 and leaving a voicemail message.

To request a printed copy of the previous newsletter, please use the contact information above.

UNS Electric, Inc. (UNSE), una subsidiaria de UniSource Energy Services, ha identificado posibles segmentos de ruta, o "enlaces", para una línea de transmisión planificada en el condado de Santa Cruz. La línea servirá para un proyecto de exploración minera mientras mejora el servicio para los clientes residenciales en el área. UNSE organizará una reunión pública virtual el 13 de mayo de 2021 de 6 a 8 p.m. Para conectarse a través de Zoom, visite uesaz.com/rio-rico-to-harshaw para obtener el enlace y la contraseña de la reunión. Para escuchar vía telefónica, llame a 1-669-900-6833 e ingrese el ID del seminario web 983 7231 9478 y contraseña 68836350. También puede visitar la página web del proyecto y participar en una encuesta interactiva. Si tiene preguntas o comentarios, no dude en contactarnos al 520-918-8399. Gracias por su interés en este proyecto.

Rio Rico-Harshaw Transmission Line Project





Atención: Río Rico-Harshaw
Dirección interna RC131
Tucson, AZ 85701-0711

Correo de primera clase
Preclasificado
Franqueo pagado en los EE. UU.
Tucson, Arizona
Permiso n.º 21

Proyecto de la línea de transmisión Río Rico-Harshaw



Ayúdanos a diseñar nuestra red energética local

Con su teléfono, tableta o computadora portátil, puede participar en una encuesta conveniente e interactiva que ayudará a UniSource a diseñar la ruta de una nueva línea de transmisión. Lea el contenido para saber cómo puede participar en el proceso de planificación.



Reunión virtual pública

13 de mayo de 2021 | de 6 a 8 p.m.

PARA UNIRSE A TRAVÉS DE ZOOM:
Visite uesaz.com/rio-rico-to-harshaw
para hallar el enlace y la contraseña de la reunión.

PARA ESCUCHAR POR TELÉFONO:
Llame al 1-669-900-6833 o al 1-253-215-8782.
ID del seminario web: 983 7231 9478
Contraseña: 68836350

Modernización de la red energética Proyecto de la línea de transmisión Río Rico-Harshaw Boletín informativo n.º 2: abril de 2021



UniSource desea conocer la opinión del público sobre los posibles enlaces de ruta de la línea de transmisión

UNS Electric, Inc. (UNSE), una subsidiaria de UniSource Energy Services, ha identificado posibles segmentos o "enlaces" de ruta para una línea de transmisión planificada en el condado de Santa Cruz. La línea ayudará a un proyecto de exploración minera y a la vez mejorará el servicio para los clientes residenciales del área.

El proyecto de la línea de transmisión Río Rico-Harshaw de 138 kilovoltios (kV) envolverá la construcción de una línea de transmisión de un solo circuito de aproximadamente 20 a 30 millas que interconectará el sistema de transmisión existente de 138 kV de UNSE con la subestación planificada en Harshaw a través de un parque de distribución de 138 kV planificado en Río Rico.

La línea ayudará al Proyecto Hermosa, un proyecto de exploración minera propiedad de Arizona Minerals Inc. (AMI), una subsidiaria de South32. El Proyecto Hermosa se encuentra actualmente en la fase de prefactibilidad. La línea también mejorará la fiabilidad del servicio para los clientes de electricidad en las áreas de San Rafael Valley, Washington Camp y Lochiel. La línea de distribución existente de 13.2 kV de UNSE no es adecuada para respaldar las futuras necesidades de energía de la comunidad, que incluyen los requisitos previstos del Proyecto Hermosa.

En septiembre de 2020, UNSE organizó una reunión abierta virtual y recibió la opinión del público sobre el proyecto. Según los comentarios de los residentes y estudios adicionales, UNSE amplió el área de estudio del proyecto. Algunos destinatarios de este boletín informativo se encuentran en el área de estudio ampliada y revisada, y se agregaron a la lista de contactos de difusión del proyecto.

UNSE ha identificado 58 posibles enlaces de ruta que podrían combinarse de diversas maneras para formar la ruta final de la línea de transmisión Río Rico-Harshaw. Estos enlaces de ruta están ubicados en tierras privadas y en el Bosque Nacional Coronado (Coronado National Forest, CNF).

Dentro del CNF y de acuerdo con la política del Servicio Forestal de los EE. UU. (U.S. Forest Service, USFS), UNSE identificó una ruta preferida que generalmente sigue los corredores de servicios públicos y carreteras, que incluye la alineación con el gasoducto de El Paso Natural Gas y la línea de distribución existente de 13.2 kV de UNSE a lo largo de Flux Canyon Road. Usar esta ruta minimizaría los impactos ambientales.

APROBACIONES OBLIGATORIAS Y CRONOGRAMA

UNSE ha enviado una solicitud de permiso de uso especial al CNF con el fin de obtener la autorización para construir su ruta preferida a través del bosque. El CNF realizará un análisis integral de los efectos que la nueva línea tendrá en el medio ambiente para cumplir con la Ley Nacional de Política Ambiental y otros estatutos federales aplicables. Cuando sea necesario, se definirán e implementarán las medidas de mitigación adecuadas.

Además del permiso de uso especial, UNSE debe obtener la aprobación del Certificado de Compatibilidad Ambiental (Certificate of Environmental Compatibility, CEC) de parte de la Comisión de Corporaciones de Arizona (Arizona Corporation Commission, ACC) antes de poder construir la línea de transmisión. UNSE planea presentar el año próximo una solicitud de CEC ante el Comité de Emplazamiento de Centrales Eléctricas y Líneas de Transmisión de Arizona, que revisará la solicitud en un proceso público que brinda la oportunidad a los vecinos y otras partes interesadas a proporcionar comentarios. Si el Comité de Emplazamiento de Líneas otorga un CEC, se enviará a la ACC para su evaluación y aprobación final.

UNSE planea poner en funcionamiento la línea de transmisión Río Rico-Harshaw a fines de 2024.

REUNIÓN VIRTUAL PÚBLICA

UNSE invita al público a hacer preguntas, enviar comentarios y obtener más

información sobre el proyecto en nuestra reunión virtual pública el 13 de mayo de 2021. Invitamos a los residentes y otras partes interesadas a usar los números de identificación en el mapa adjunto para compartir ideas o inquietudes sobre enlaces específicos. Para obtener más información, como las formas de participar, consulte la portada de este boletín informativo.

ENCUESTA INTERACTIVA EN LÍNEA

UNSE lo invita a participar en nuestra sencilla encuesta interactiva. Mediante el uso de mapas interactivos y otras herramientas, puede clasificar la importancia de los factores del proyecto y hacer comentarios sobre enlaces específicos. Con su teléfono móvil, tableta o computadora, visite la página web del proyecto en uesaz.com/rio-rico-to-harshaw y haga clic en el enlace de la encuesta interactiva. La encuesta recibirá comentarios del público durante los 30 días posteriores a la reunión virtual pública.

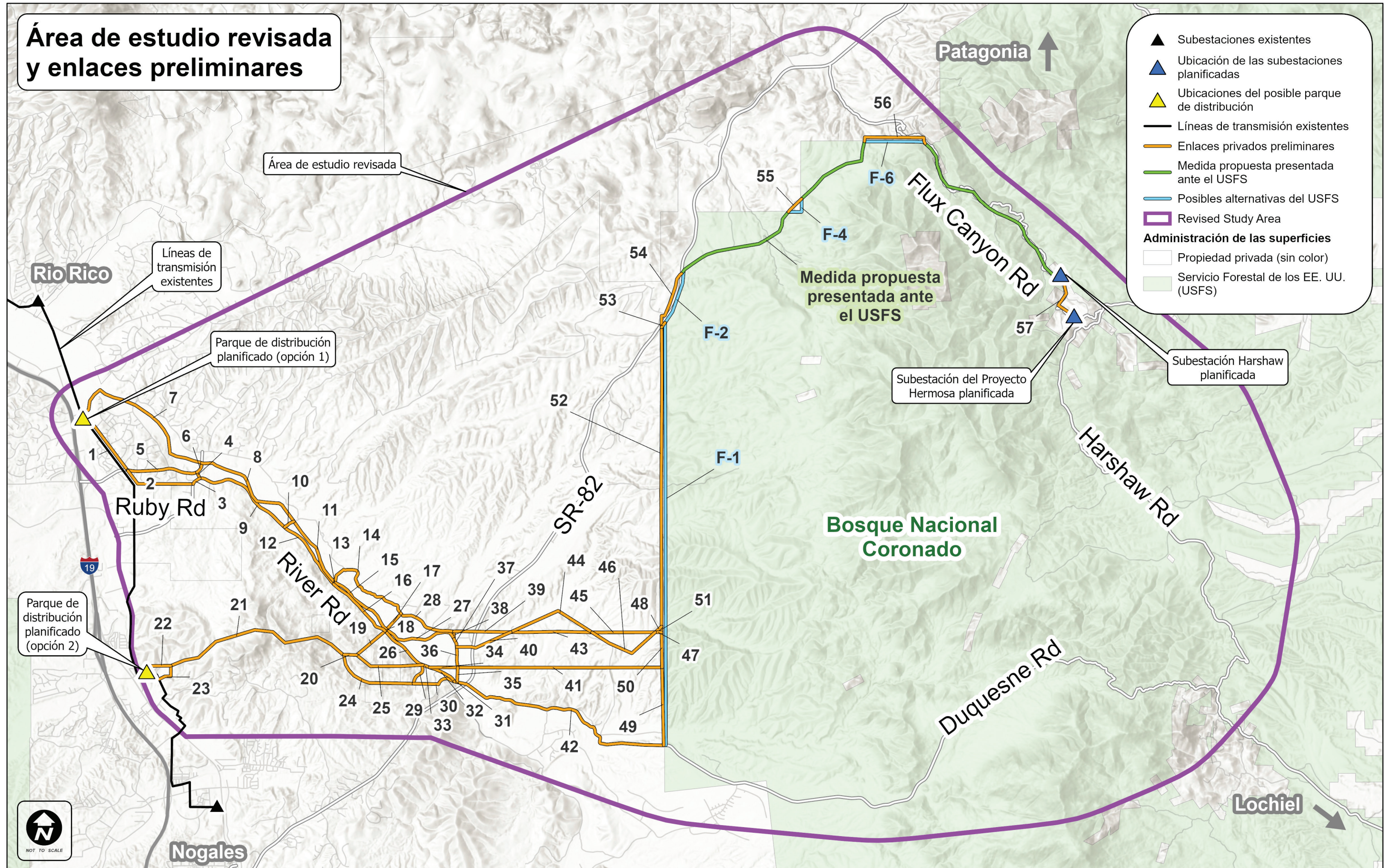
OTRAS FORMAS DE PROPORCIONAR COMENTARIOS

UNSE invita a los residentes, propietarios y otras partes interesadas a compartir sus comentarios sobre la ruta de la línea de transmisión de la siguiente manera:

- Enviando el formulario de comentarios o una carta con los comentarios por correo postal a:
UniSource Energy Services
Atención: Río Rico-Harshaw
P.O. Box 711 Tucson, AZ 85702
- Enviando comentarios a RR2Harshaw@uesaz.com.
- Visitando uesaz.com/rio-rico-to-harshaw y completando un formulario de comentarios en línea.
- Llamando al 1-833-783-0396 y dejando un mensaje de correo de voz.

Para solicitar una copia impresa del boletín informativo anterior, utilice la información de contacto indicada arriba.

Proyecto de la línea de transmisión Río Rico-Harshaw





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Energy Grid Update

Rio Rico to Harshaw 138kV Transmission Line Project

Newsletter #3 – August 2022



UniSource Seeks Public Input on New Potential Transmission Line Route Links

UNS Electric, Inc. (UNSE), a subsidiary of UniSource Energy Services, has identified new potential route segments, or "links," for a proposed transmission line in Santa Cruz County. The line will serve the Hermosa Project, a mine exploration project owned by Arizona Minerals Inc. (AMI), a subsidiary of South32, while improving service for residential and other electric customers in the San Rafael Valley, Washington Camp and Lochiel areas. UNSE's existing 13.2-kV distribution line is not adequate to support both the community's current and future energy needs and the Hermosa Project's anticipated energy requirements.

The Rio Rico-Harshaw 138-kilovolt (kV) Transmission Line Project will involve the construction of an approximately 20-30 mile, single-circuit transmission line that will interconnect UNSE's existing 138-kV transmission system to a proposed 138-kV switchyard in Rio Rico and the proposed Harshaw Substation located on private land at the end of Flux Canyon Road.

The transmission line would originate at a proposed switchyard located near Interstate 19 in the Rio Rico area and terminate at the Hermosa Project, located at the end of Flux Canyon Road on private property within the Coronado National Forest (CNF). The western portion of the line would be located on private land. UNSE is seeking approval from the U.S. Forest Service (USFS) for the majority of the eastern portion of the line, which would be located within the CNF.

UPDATE ON ROUTE LINKS

In May of 2021, UNSE held a second virtual public open house meeting and launched an interactive survey designed to gather public input about the proposed route links. Based on comments from residents, stakeholders, and additional studies, UNSE has eliminated some links from consideration while evaluating potential new links as described below.

Non-Federal Land Route Links

Previously proposed links located on private land to the south, east and west of the Nogales International Airport cannot be combined to form a viable

route alternative. UNSE is evaluating new alternative links located north and northwest of the Nogales International Airport. These route links could be combined in various ways to connect the proposed switchyard near Rio Rico to the preferred route in the Coronado National Forest. The two options for the location of the switchyard are shown on the map.

Coronado National Forest Route Links

UNSE's preferred route on USFS land, including previously proposed links located east and north of the Nogales International Airport, remains unchanged. Consistent with USFS policy, the preferred route generally follows existing utility and road corridors, including the El Paso Natural Gas Pipeline alignment and UNSE's existing 13.2-kV distribution line along Flux Canyon Road. Use of this route would minimize environmental impacts. UNSE recently submitted a Special Use Permit application to the CNF for permission to build along its preferred route on USFS land.

REQUIRED APPROVALS and TIMELINE

In conjunction with the Special Use Permit application, the CNF will conduct a comprehensive analysis of proposed line segments on National Forest System land to identify potential environmental effects. The analysis is required to comply with the National Environmental Policy Act and other applicable federal statutes. The analysis also will identify appropriate mitigation measures, if needed.

In addition to the Special Use Permit, UNSE must secure approval of a Certificate of Environmental Compatibility (CEC) from the Arizona Corporation Commission (ACC) in order to build the transmission line and the proposed switchyard. UNSE plans to file a CEC application in early 2023 with the Arizona Power Plant and Transmission Line Siting Committee, which will review the application in a public process that provides opportunities for neighbors and other stakeholders to comment. If the Line Siting Committee grants the CEC, it will be sent to the ACC for final review and approval.

UNSE is scheduling the Rio Rico-Harshaw 138-kV Transmission Line Project to be in service by late 2024.

HYBRID IN-PERSON/VIRTUAL PUBLIC OPEN HOUSE

UNSE invites members of the public to ask questions, submit comments and learn more about the project at a hybrid open house meeting on August 25, 2022. Residents, property owners and other stakeholders are encouraged to use the identifying numbers in the enclosed map to share thoughts or concerns about specific links. Details on how to participate are included on the cover of this newsletter.

OTHER WAYS TO COMMENT

UNSE encourages residents, property owners, and other stakeholders to share their input about the transmission line route by:

- Mailing the comment form or a letter with comments to:
UniSource Energy Services
ATTN: Rio Rico-Harshaw 138kV Project
P.O. Box 711
Mail Stop OH 131
Tucson, AZ 85702
- Sending comments to RR2Harshaw@uesaz.com
- Visiting uesaz.com/rio-rico-to-harshaw and filling out an online comment form
- Calling 1-833-783-0396 and leaving a voicemail message.

Previous newsletters are available on the project website or can be requested using the contact information above.

UNS Electric, Inc. (UNSE) una subsidiaria de UniSource Energy Services, ha identificado posibles segmentos nuevos de ruta, o "enlaces", para una línea de transmisión planificada en el condado de Santa Cruz. La línea servirá para un proyecto de exploración minera mientras mejora el servicio para los clientes residenciales en el área. UNSE organizará una reunión pública en persona y virtual el 25 de Agosto de 2022 de 6 a 8 p.m. Para conectarse a través de Zoom, visite uesaz.com/rio-rico-to-harshaw para obtener el enlace y la contraseña de la reunión. Para escuchar vía telefónica, llame a +1 669 444 9171 e ingrese el ID del seminario web 863 9504 2234 y contraseña 67697814. Si tiene preguntas o comentarios, no dude en contactarnos al 520-918-8399. Gracias por su interés en este proyecto

Rio Rico to Harshaw 138kV Transmission Line Project



Hybrid In-Person/Virtual Public Open House Meeting

August 25, 2022 | 6-8 p.m.

IN-PERSON:

Quality Hotel Americana Nogales-Olmec Room
639 N. Grand Ave., Nogales, AZ

VIA ZOOM:

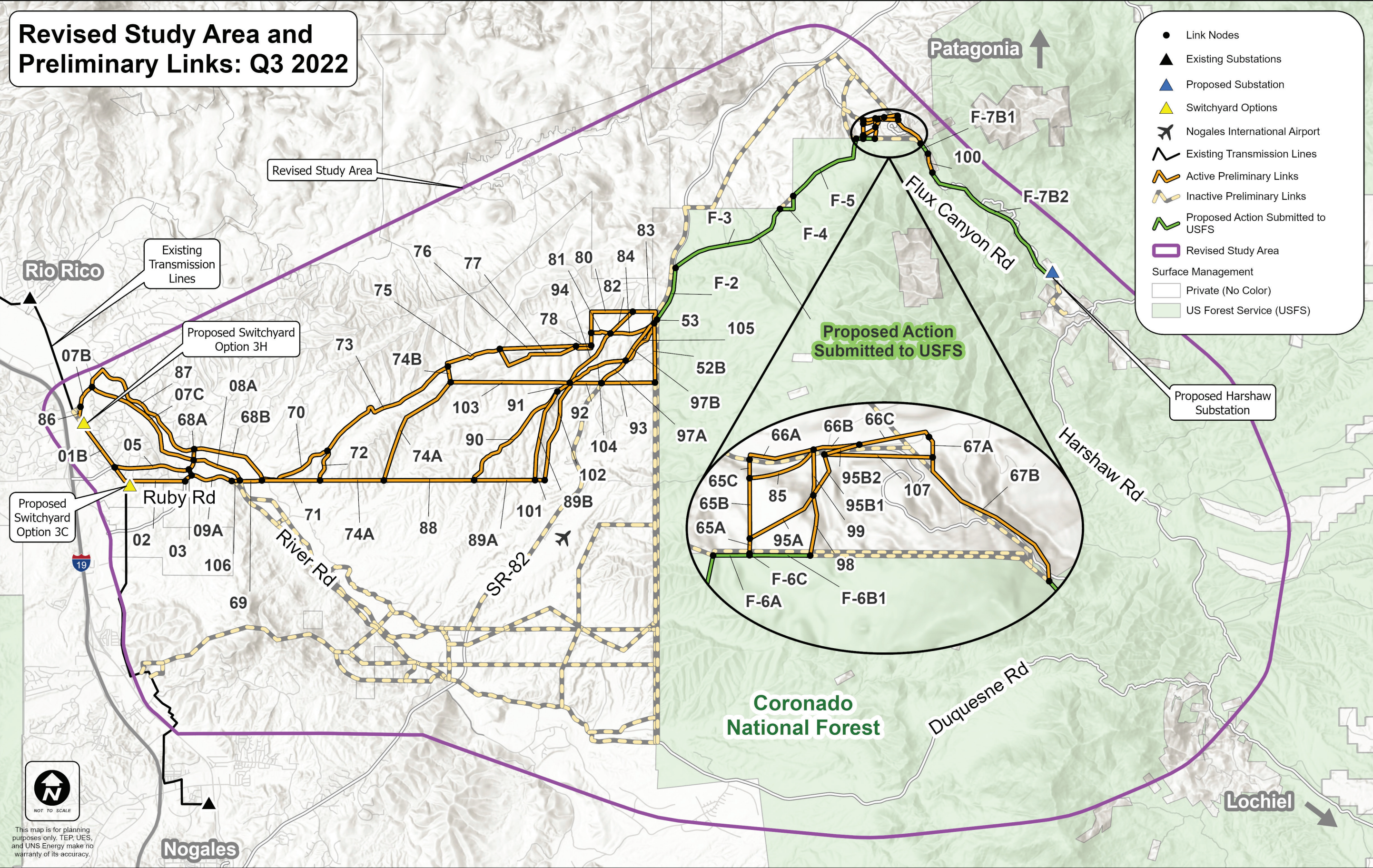
Visit uesaz.com/rio-rico-to-harshaw for the meeting link and passcode. This meeting will be recorded and posted to the project website within one week of the open house meeting.

LISTEN VIA TELEPHONE:

Call: 1 669 444 9171 or 1 669 900 6833, or 1 253 215 8782

Webinar ID: 863 9504 2234

Passcode: 67697814





P.O. Box 711
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Proyecto de la línea de transmisión de 138 kV de Río Rico a Harshaw



Reunión híbrida presencial y virtual abierta al público

August 25, 2022 | 6-8 p.m.

EN PERSONA:

Habitación Olmec en el
Quality Hotel Americana Nogales
639 N. Grand Ave., Nogales, AZ.

A TRAVÉS DE ZOOM:

Visite uesaz.com/rio-rico-to-harshaw para
obtener el enlace y la contraseña de la reunión.
Esta reunión se grabará y publicará en el sitio
web del proyecto en el plazo de una semana de
la reunión de puertas abiertas.

ESCUCHAR POR TELÉFONO:

Llame a: 1 669 444 9171 o 1 669 900 6833 o 1 253 215 8782

ID del seminario web: 863 9504 2234

Contraseña: 67697814

Modernización de la red energética

Proyecto de la línea de transmisión de 138 kV de Río Rico a Harshaw

Boletín informativo n.º 3, agosto de 2022



UniSource desea conocer la opinión del público sobre los nuevos enlaces de ruta potenciales de la línea de transmisión

UNS Electric, Inc. (UNSE), una subsidiaria de UniSource Energy Services, ha identificado nuevos segmentos potenciales o "enlaces" de ruta para una línea de transmisión propuesta en el condado de Santa Cruz. La línea prestará servicios al Proyecto Hermosa, un proyecto de exploración minera de Arizona Minerals Inc. (AMI), una subsidiaria de South32, y mejorará el servicio para clientes residenciales y otros consumidores de electricidad en las áreas de San Rafael Valley, Washington Camp y Lochiel. La línea de distribución existente de 13.2 kV de UNSE no es adecuada para respaldar las necesidades de energía presentes y futuras de la comunidad y los requisitos previstos del Proyecto Hermosa.

El proyecto de la línea de transmisión Río Rico-Harshaw de 138 kilovoltios (kV) implicará la construcción de una línea de transmisión de un solo circuito de aproximadamente 20 a 30 millas que interconectará el sistema de transmisión existente de 138 kV de UNSE con un centro de transformación de 138 kV propuesto en Río Rico y la subestación de Harshaw propuesta ubicada en terreno privado al final de Flux Canyon Road.

La línea de transmisión se originaría en un centro de transformación propuesto ubicado cerca del Interestatal 19 en el área de Río Rico y terminaría en el Proyecto Hermosa, ubicado al final de Flux Canyon Road, en una propiedad privada dentro del Bosque Nacional Coronado (Coronado National Forest, CNF). La parte oeste de la línea estaría ubicada en propiedad privada. UNSE busca obtener la aprobación del Servicio Forestal de los EE. UU. (U.S. Forest Service, USFS) para la mayor parte de la extensión al este de la línea, que estaría ubicada dentro del CNF.

ACTUALIZACIÓN DE LOS ENLACES DE RUTA

En mayo de 2021, UNSE tuvo una segunda reunión virtual abierta al público y lanzó una encuesta interactiva diseñada para recopilar información pública sobre los enlaces de ruta propuestos. Según los comentarios de residentes, partes interesadas y otros estudios, UNSE ha descartado algunos enlaces y evalúa nuevos enlaces potenciales como se describe a continuación.

Enlaces de ruta en terreno que no es federal

Los enlaces previamente propuestos ubicados en propiedad privada hacia el sur, el este y el oeste del Aeropuerto Internacional de Nogales no pueden combinarse para formar una ruta alternativa viable. UNSE está evaluando nuevos enlaces alternativos ubicados al norte y al noroeste del Aeropuerto Internacional de Nogales. Estos enlaces de ruta podrían combinarse de varias maneras para conectar el centro de transformación propuesto cerca de Río Rico con la ruta preferida del Bosque Nacional Coronado. Las dos opciones para la ubicación del centro de transformación se muestran en el mapa.

Enlaces de ruta en el Bosque Nacional Coronado

La ruta preferida de UNSE en territorio del USFS, incluidos los enlaces previamente propuestos ubicados al este y al norte del Aeropuerto Internacional de Nogales, permanece sin cambios. De acuerdo con la política del USFS, la ruta preferida generalmente sigue los corredores de servicios públicos y carreteras, incluida la alineación con el gasoducto El Paso y la línea de distribución existente de 13.2 kV de UNSE a lo largo de Flux Canyon Road. Usar esta ruta minimizaría los impactos ambientales. UNSE ha enviado una solicitud de permiso de uso especial al CNF con el fin de obtener la autorización para construir su ruta preferida en territorio del USFS.

APROBACIONES OBLIGATORIAS Y CRONOGRAMA

Junto con la solicitud de permiso de uso especial, el CNF realizará un análisis integral de los segmentos de línea propuestos en territorio del Sistema Forestal Nacional (National Forest System) para identificar posibles efectos ambientales. El análisis es necesario para cumplir con la Ley de Política Ambiental Nacional (National Environmental Policy Act) y otros estatutos federales aplicables. El análisis también identificará las medidas de mitigación adecuadas, si es necesario.

Además del permiso de uso especial, UNSE debe obtener la aprobación del Certificado de Compatibilidad Ambiental (Certificate of Environmental Compatibility, CEC) de parte de la Comisión de Corporaciones de Arizona (Arizona Corporation Commission, ACC) antes de poder construir la línea de

transmisión y el centro de transformación propuesto. UNSE planea presentar una solicitud de CEC a principios de 2023 ante el Comité de Emplazamiento de Centrales Eléctricas y Líneas de Transmisión de Arizona (Arizona Power Plant and Transmission Line Siting Committee), que revisará la solicitud en un proceso público que brinda la oportunidad a los vecinos y otras partes interesadas a proporcionar comentarios. Si el Comité de Emplazamiento de Líneas otorga el CEC, se enviará a la ACC para su evaluación y aprobación final.

UNSE tiene previsto que el proyecto de la línea de transmisión Río Rico-Harshaw de 138 kV esté en servicio a finales de 2024.

REUNIÓN HÍBRIDA, PRESENCIAL Y VIRTUAL, ABIERTA AL PÚBLICO

UNSE invita al público a hacer preguntas, enviar comentarios y obtener más información sobre el proyecto en nuestra reunión abierta híbrida el 25 de agosto de 2022. Invitamos a los residentes, a los propietarios y a otras partes interesadas a usar los números de identificación en el mapa adjunto para compartir ideas o inquietudes sobre enlaces específicos. Los detalles sobre cómo participar se incluyen en la portada de este boletín informativo.

OTRAS FORMAS DE PROPORCIONAR COMENTARIOS

UNSE invita a los residentes, propietarios y otras partes interesadas a compartir sus comentarios sobre la ruta de la línea de transmisión de la siguiente manera:

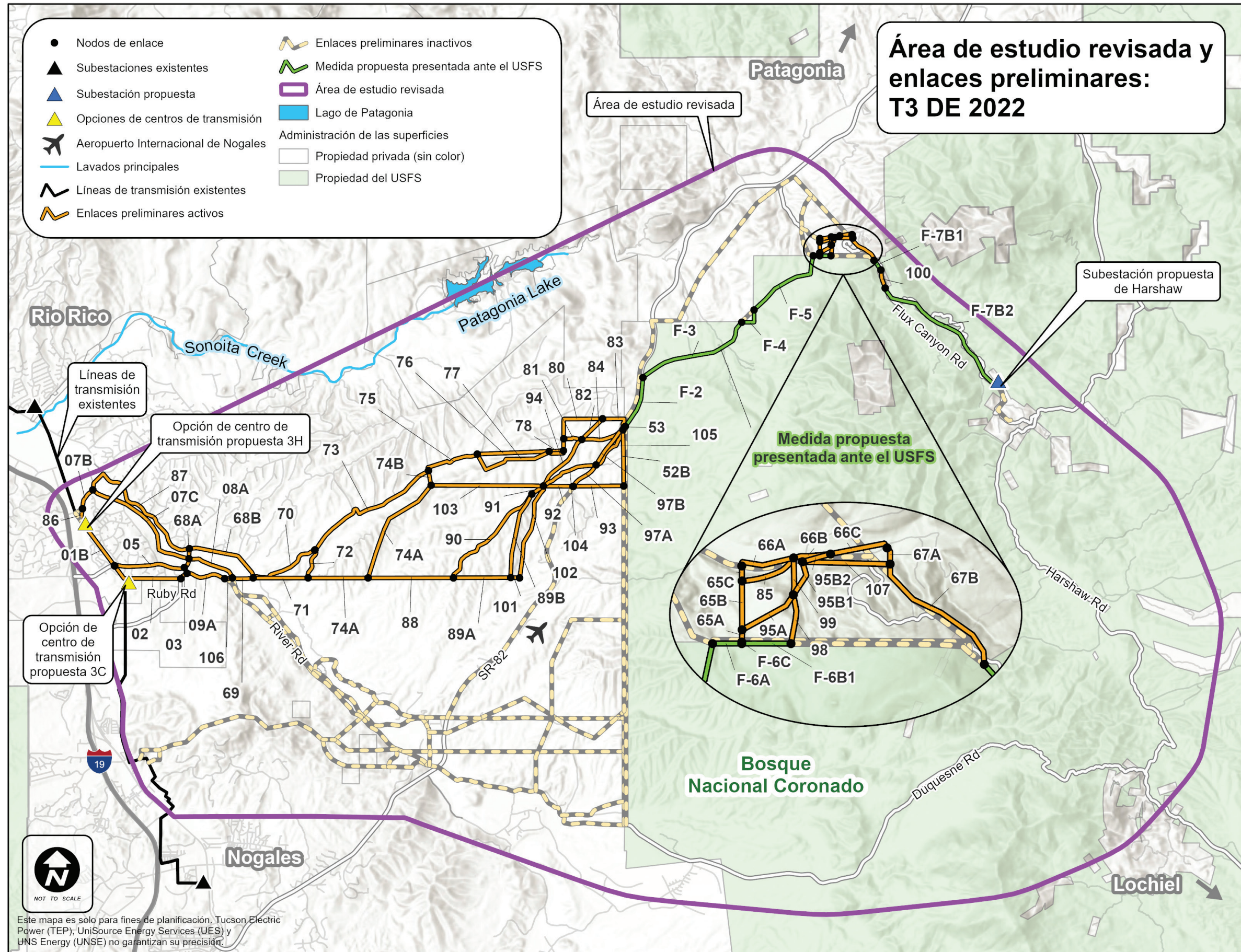
- Enviar el formulario de comentarios o una carta con los comentarios por correo postal a:

UniSource Energy Services
ATTN: Río Rico-Harshaw 138kV Project
P.O. Box 711
Mail Stop OH 131
Tucson, AZ 85702

- Enviar comentarios a RR2Harshaw@uesaz.com.
- Visitar uesaz.com/rio-rico-to-harshaw y completar un formulario de comentarios en línea.
- Llamar al 1-833-783-0396 y dejar un mensaje de correo de voz.

Los boletines informativos anteriores están disponibles en el sitio web del proyecto o se pueden solicitar con la información de contacto anterior.

Proyecto de la línea de transmisión de 138 kV de Río Rico a Harshaw



Rio Rico to Harshaw 138 Kilovolt Transmission Line Project

In-Person Public Open House Meeting | Thursday, November 17, 2022

UNS Electric, Inc., a subsidiary of UniSource Energy Services, is developing plans for the new Rio Rico to Harshaw 138 Kilovolt Transmission Line Project. We invite you to view a new interactive map on the project website that allows users to search by address and zoom in for detailed views of "links," or potential route segments, that could be combined in various ways to form a line route. Residents, property owners and other stakeholders are encouraged to use our online comment form and other methods to share thoughts or concerns about specific links.

Project website: uesaz.com/rio-rico-to-harshaw

We also invite you to attend an upcoming in-person open house meeting to learn about project updates, ask questions and submit comments.



In-Person Public Open House Meeting
Thursday, November 17, 2022 | 6–8 p.m.
Quality Hotel Americana Nogales – Mayan Room
639 N. Grand Ave., Nogales, AZ

Ways to comment:

- Fill out an online comment form
- Mail a comment form or a letter to:
UniSource Energy Services
PO Box 711
ATTN: Rio Rico-Harshaw
Mail Stop RC 131
Tucson, AZ 85702
- Send comments to RR2Harshaw@uesaz.com
- Call 1-833-783-0396 and leave a voicemail message

UNS Electric, Inc. una subsidiaria de UniSource Energy Services, ha identificado posibles segmentos nuevos de ruta, o "enlaces", para una línea de transmisión planificada en el condado de Santa Cruz. UniSource le invita a ver un nuevo mapa interactivo en el sitio web del proyecto que permite a los usuarios buscar por dirección y agrandar la imagen para obtener vistas detalladas de los enlaces. También le invitamos a asistir a la próxima reunión presencial abierta al público para conocer las actualizaciones del proyecto, hacer preguntas y enviar comentarios. La reunión se llevará a cabo el jueves 17 de noviembre de 2022, de 6 a 8 p.m., en Mayan Room en el Quality Hotel Americana Nogales, 639 N. Grand Ave., Nogales, Arizona. Si tiene preguntas o comentarios, no dude en contactarnos al 1-833-783-0396. Gracias por su interés en este proyecto.





P.O. Box 711

ATTN: Rio Rico-Harshaw

Mail Stop RC131

Tucson, AZ 85701-0711

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Permit #21

Rio Rico to Harshaw 138kV Transmission Line Project



In-Person Public Open House Meeting January 25, 2023 | 6-8 p.m.

Quality Hotel Americana Nogales-Mayan Room
639 N. Grand Ave., Nogales, Ariz.

Energy Grid Update

Rio Rico to Harshaw 138kV Transmission Line Project

Newsletter #5 – January 2023



UniSource Seeks Public Input on Final Transmission Line Routes

UNS Electric, Inc. (UNSE), a subsidiary of UniSource Energy Services, has identified a preferred route with three alternative segments for the proposed Rio Rico to Harshaw 138 Kilovolt (kV) Transmission Line Project in Santa Cruz County.

UNSE will include these routes in its application to the Arizona Corporation Commission (ACC) for a Certificate of Environmental Compatibility (CEC). The transmission line will serve the Hermosa Project, a mine exploration project owned by Arizona Minerals Inc. (AMI), a subsidiary of South32, while improving service for residential and other electric customers in the vicinity, including the Flux Canyon, San Rafael Valley, Washington Camp and Lochiel areas. UNSE's existing 13.2-kV distribution line does not have sufficient capacity to support current and future energy needs in these areas while also satisfying the Hermosa Project's anticipated energy requirements.

The Rio Rico to Harshaw Project will involve construction of an approximately 20-mile, single-circuit transmission line that will interconnect with UNSE's existing 138-kV transmission system at a proposed switchyard near Interstate 19 in the Rio Rico area. The line will end at the proposed Harshaw Substation, located at the end of Flux Canyon Road on private property within the Coronado National Forest (CNF). The western portion of the line would be located on private land or road right-of-way. Most of the eastern portion of the line would be located within the CNF. UNSE is seeking approval from the U.S. Forest Service for a permit to construct and operate the portion of the line located within the CNF.

UPDATE ON FINAL ROUTES

In November 2022, UNSE held an in-person public open house meeting to gather input on potential route links that were revised based on suitability factors and public comment.

Following this meeting, UNSE weighed additional public input and made two changes to route links under consideration. First, a route link was added on the CNF south of Flux Canyon. Second, modifications were made to route links south of the Lake Patagonia Ranch Estates neighborhood and west of State Route 82 to minimize visual impacts; those links now follow an unnamed side canyon in a northeast-to-southwest orientation from Cumero Canyon to State Route 82.

All remaining route links, together with the additional or modified links described above, were evaluated and ranked based on factors considered by the ACC in determining the environmental compatibility of a proposed transmission line. Based on this evaluation, UNSE was able to eliminate several of the route links presented in November and identify final routes that will be included in its CEC application, which it expects to file in March 2023.

Environmental Compatibility Factors

Several factors must be considered when reviewing an application for a certificate of environmental compatibility, according to Arizona Revised Statute 40-360.06. These include:

1. Wildlife and plant life
2. Scenic areas, historic sites and archaeological sites and structures
3. Environment
4. Noise emission levels and interference with communication signals
5. Potential public recreation uses
6. Existing development plans
7. Engineering feasibility and challenges
8. Project costs and potential impacts on customer rates
9. Public input

UNSE's preferred route and alternative routes are illustrated on the enclosed map. For a more detailed view of the final routes, an interactive map available on the project website at uesaz.com/rio-rico-to-harshaw allows users to search by address and zoom in for detailed views.



REQUIRED APPROVALS and TIMELINE

UNSE must secure approval of a CEC from the ACC in order to build the transmission line and the proposed switchyard. UNSE plans to file a CEC application in March 2023 with the Arizona Power Plant and Transmission Line Siting Committee, which will review the application in a public process that provides opportunities for neighbors and other stakeholders to comment. If the Line Siting Committee grants the CEC, it will be sent to the ACC for final review and approval.

Rio Rico to Harshaw 138kV Transmission Line Project

A public hearing with the Siting Committee is tentatively scheduled for April 17-21, 2023. The hearing will be held in Nogales at the Quality Hotel Americana Nogales, the same location as this month's public meeting.

In addition to the CEC, UNSE has applied for a Special Use Permit to build and operate portions of the proposed transmission line on CNF land. In conjunction with the Special Use Permit application, the CNF will conduct a comprehensive analysis of proposed line segments on National Forest System land to identify potential environmental effects. The analysis is required to comply with the National Environmental Policy Act and other applicable federal statutes. The analysis also will identify appropriate mitigation measures, if needed. This analysis is expected to begin in 2023.

UNSE expects the Rio Rico to Harshaw 138-kV Transmission Line Project to be in service by late 2024.

IN-PERSON PUBLIC OPEN HOUSE

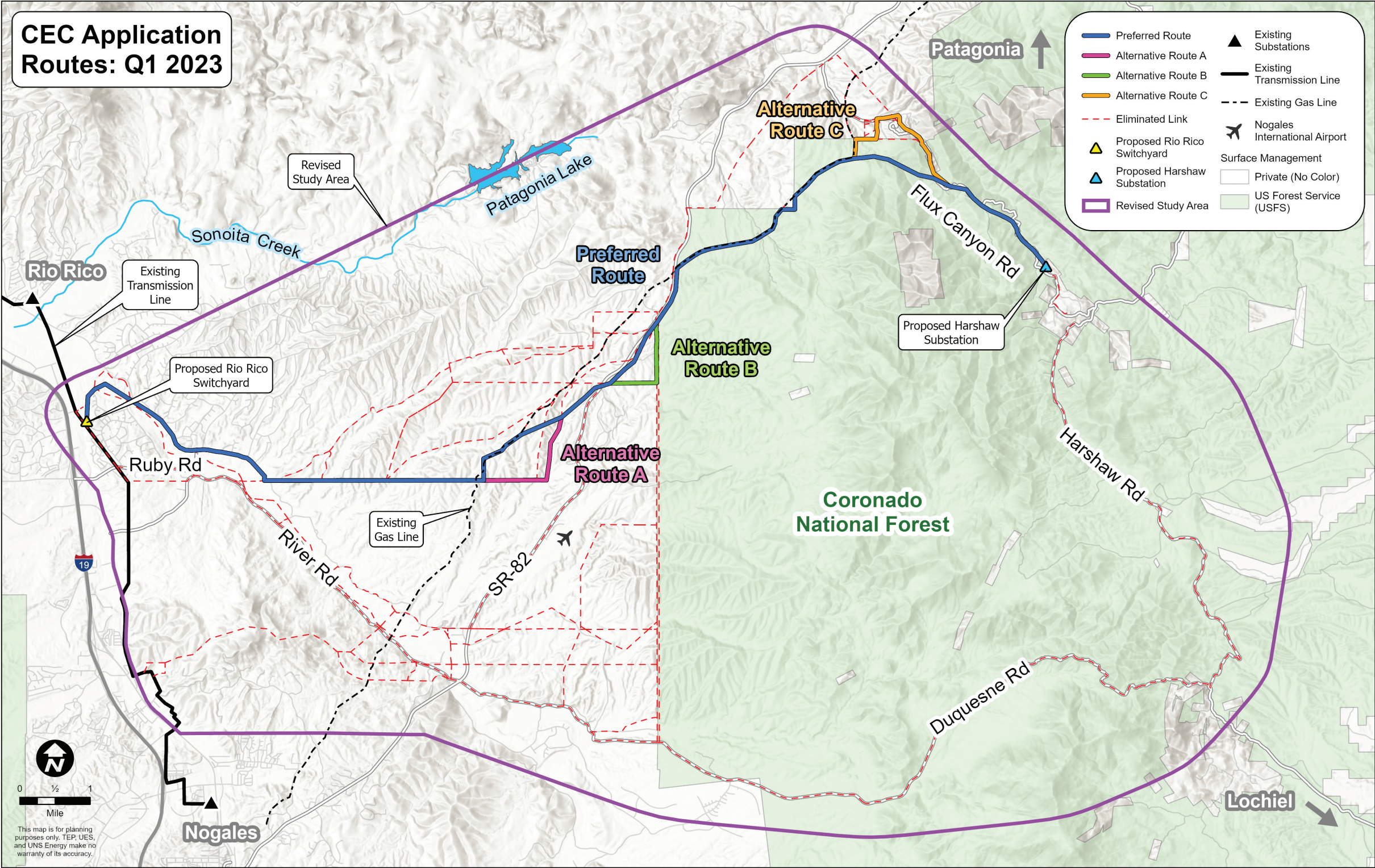
UNSE invites members of the public to ask questions, submit comments and learn more about the project at an open house meeting on January 25, 2023. Residents, property owners, and other stakeholders are encouraged to share thoughts or concerns about the preferred route and specific alternative routes. Meeting details are included on the cover of this newsletter.

OTHER WAYS TO COMMENT

UNSE encourages residents, property owners, and other stakeholders to share their input about the transmission line route by:

- Mailing a comment form or a letter with comments to:
UniSource Energy Services
ATTN: Rio Rico-Harshaw 138kV Project
P.O. Box 711
Mail Stop OH 131
Tucson, AZ 85702
- Sending comments to RR2Harshaw@uesaz.com
- Visiting uesaz.com/rio-rico-to-harshaw and filling out an online comment form
- Calling 1-833-783-0396 and leaving a voicemail message.

Previous newsletters are available on the project website or can be requested using the contact information above.



UNS Electric, Inc. (UNSE) una subsidiaria de UniSource Energy Services, ha identificado rutas finales, para una línea de transmisión planificada en el condado de Santa Cruz, que se incluirán en una solicitud a la Comisión de Corporaciones de Arizona para un Certificado de Protección Ambiental. La línea servirá para un proyecto de exploración minera mientras mejora el servicio para los clientes residenciales en el área. UNSE organizará una reunión pública en persona el 25 de Enero de 2023 de 6 a 8 p.m. Si tiene preguntas o comentarios, no dude en contactarnos al 1-833-783-0396. Gracias por su interés en este proyecto.

For a more detailed view of the final routes, an interactive map available on the project website at uesaz.com/rio-rico-to-harshaw allows users to search by address and zoom in for detailed views.





P.O. Box 711
ATTN: Rio Rico-Harshaw
Mail Stop RC131
Tucson, AZ 85701-0711

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Permit #21

Proyecto de la línea de transmisión de 138 kV de Río Rico a Harshaw



Reunión presencial abierta al público

Miércoles 25 de enero de 2023 | 6:00 p. m. a 8:00 p. m.

**Quality Hotel Americana Nogales-Mayan Room
639 N. Grand Ave., Nogales, Arizona**

Modernización de la red energética

Proyecto de la línea de transmisión de 138 kV de Río Rico a Harshaw

Boletín informativo n.º 5: enero de 2023



UniSource desea conocer la opinión del público sobre las rutas definitivas de la línea de transmisión

UNS Electric, Inc. (UNSE), una subsidiaria de UniSource Energy Services, ha identificado una ruta preferida con tres segmentos alternativos para el proyecto propuesto de línea de transmisión de Río Rico a Harshaw de 138 kilovoltios (kV) en el condado de Santa Cruz.

UNSE incluirá estas rutas en su solicitud ante la Comisión de Corporaciones de Arizona (Arizona Corporation Commission, ACC) para obtener un Certificado de compatibilidad ambiental (Certificate of Environmental Compatibility, CEC). La línea de transmisión prestará servicios al Proyecto Hermosa, un proyecto de exploración minera de Arizona Minerals Inc. (AMI), una subsidiaria de South32, y mejorará el servicio para clientes residenciales y otros consumidores de electricidad de los alrededores, incluidas las áreas de Flux Canyon, San Rafael Valley, Washington Camp y Lochiel. La línea de distribución existente de 13.2 kV de UNSE no tiene capacidad suficiente para satisfacer las necesidades energéticas actuales y futuras en estas áreas y, al mismo tiempo, satisfacer las necesidades energéticas previstas del Proyecto Hermosa.

El proyecto de Río Rico a Harshaw supondrá la construcción de una línea de transmisión de un solo circuito de aproximadamente 20 millas que se interconectará con el sistema de transmisión existente de 138 kV de UNSE en un patio de maniobras propuesto cerca de la carretera Interestatal 19 en el área de Río Rico. La línea finalizará en la subestación propuesta de Harshaw, ubicada al final de Flux Canyon Road, en una propiedad privada dentro del Bosque Nacional Coronado (Coronado National Forest, CNF). La parte oeste de la línea estaría ubicada en propiedad privada o en la servidumbre de paso de una carretera. La mayor parte de la parte este de la línea se ubicaría dentro del CNF. UNSE está buscando la aprobación del Servicio Forestal de los EE. UU. para obtener un permiso para construir y operar la parte de la línea ubicada dentro del CNF.

ACTUALIZACIÓN SOBRE LAS RUTAS FINALES

En noviembre de 2022, UNSE celebró una reunión presencial abierta al público para recopilar información sobre posibles enlaces de ruta que se revisaron en función de factores de idoneidad y comentarios públicos.

Después de esta reunión, UNSE analizó los aportes públicos adicionales y realizó dos cambios en los enlaces de ruta que se estaban considerando. En primer lugar, se añadió un enlace de ruta en el CNF al sur de Flux Canyon. En segundo lugar, se realizaron modificaciones en los enlaces de la ruta al sur del vecindario Lake Patagonia Ranch Estates y al oeste de la Ruta Estatal 82 para minimizar los impactos visuales; esos enlaces ahora siguen un cañón lateral sin nombre en una orientación

de noreste a sudoeste desde Cumero Canyon hasta la Ruta Estatal 82.

Todos los enlaces de ruta restantes, junto con los enlaces adicionales o modificados descritos anteriormente, se evaluaron y clasificaron en función de los factores considerados por la ACC para determinar la compatibilidad ambiental de una línea de transmisión propuesta. Según esta evaluación, UNSE pudo eliminar varios de los enlaces de ruta presentados en noviembre e identificar las rutas finales que se incluirán en su solicitud de CEC, que espera presentar en marzo de 2023.

Factores de compatibilidad ambiental

Se deben tener en cuenta varios factores al revisar una solicitud de certificado de compatibilidad ambiental, de acuerdo con el Estatuto Revisado de Arizona 40-360.06. Estos incluyen:

1. Fauna y flora
2. Áreas paisajísticas, lugares históricos y sitios y estructuras arqueológicos
3. Ambiente
4. Niveles de emisión de ruido e interferencia con las señales de comunicación
5. Posibles usos recreativos públicos
6. Planes de desarrollo existentes
7. Viabilidad y desafíos técnicos
8. Costos del proyecto e impacto potencial en las tarifas de los clientes
9. Aportes del público

La ruta preferida de UNSE y las rutas alternativas se ilustran en el mapa adjunto. Para obtener una vista más detallada de las rutas finales, hay disponible un mapa interactivo en el sitio web del proyecto que permite a los usuarios buscar por dirección y acercar el zoom para obtener vistas detalladas. Añadir código QR a la página del proyecto



APROBACIONES OBLIGATORIAS Y CRONOGRAMA

UNSE debe obtener la aprobación de un CEC por parte de la ACC para construir la línea de transmisión y el patio de maniobras propuesto. UNSE planea presentar una solicitud de CEC en marzo de 2023 ante el Comité de Emplazamiento de Centrales Eléctricas y Líneas de Transmisión de Arizona, que revisará la solicitud en un proceso público que brinda la oportunidad a los vecinos y otras partes interesadas a proporcionar comentarios.

Proyecto de la línea de transmisión de 138 kV de Río Rico a Harshaw

Si el Comité de Emplazamiento de Líneas otorga el CEC, se enviará a la ACC para su evaluación y aprobación final.

Está programada inicialmente una audiencia pública con el Comité de Emplazamiento del 17 al 21 de abril de 2023. La audiencia se llevará a cabo en Nogales, en el Quality Hotel Americana Nogales, el mismo lugar que la reunión pública de este mes.

Además del CEC, UNSE ha solicitado un permiso de uso especial para construir y operar partes de la línea de transmisión propuesta en terrenos del CNF. Junto con la solicitud de permiso de uso especial, el CNF realizará un análisis integral de los segmentos de línea propuestos en territorio del Sistema Forestal Nacional (National Forest System) para identificar posibles efectos ambientales. El análisis es necesario para cumplir con la Ley de Política Ambiental Nacional (National Environmental Policy Act) y otros estatutos federales aplicables. El análisis también identificará las medidas de mitigación adecuadas, si es necesario. Se prevé que este análisis comience en 2023.

UNSE espera que el proyecto de la línea de transmisión de Río Rico a Harshaw de 138 kV esté en servicio a finales de 2024.

REUNIÓN PRESENCIAL ABIERTA AL PÚBLICO

UNSE invita al público a hacer preguntas, enviar comentarios y obtener más información sobre el proyecto en una reunión abierta que se llevará a cabo el 25 de enero de 2023. Se alienta a los residentes, propietarios y otras partes interesadas a compartir sus opiniones o inquietudes sobre la ruta preferida y las rutas alternativas específicas. Los detalles de la reunión se incluyen en la portada de este boletín informativo.

OTRAS FORMAS DE PROPORCIONAR COMENTARIOS

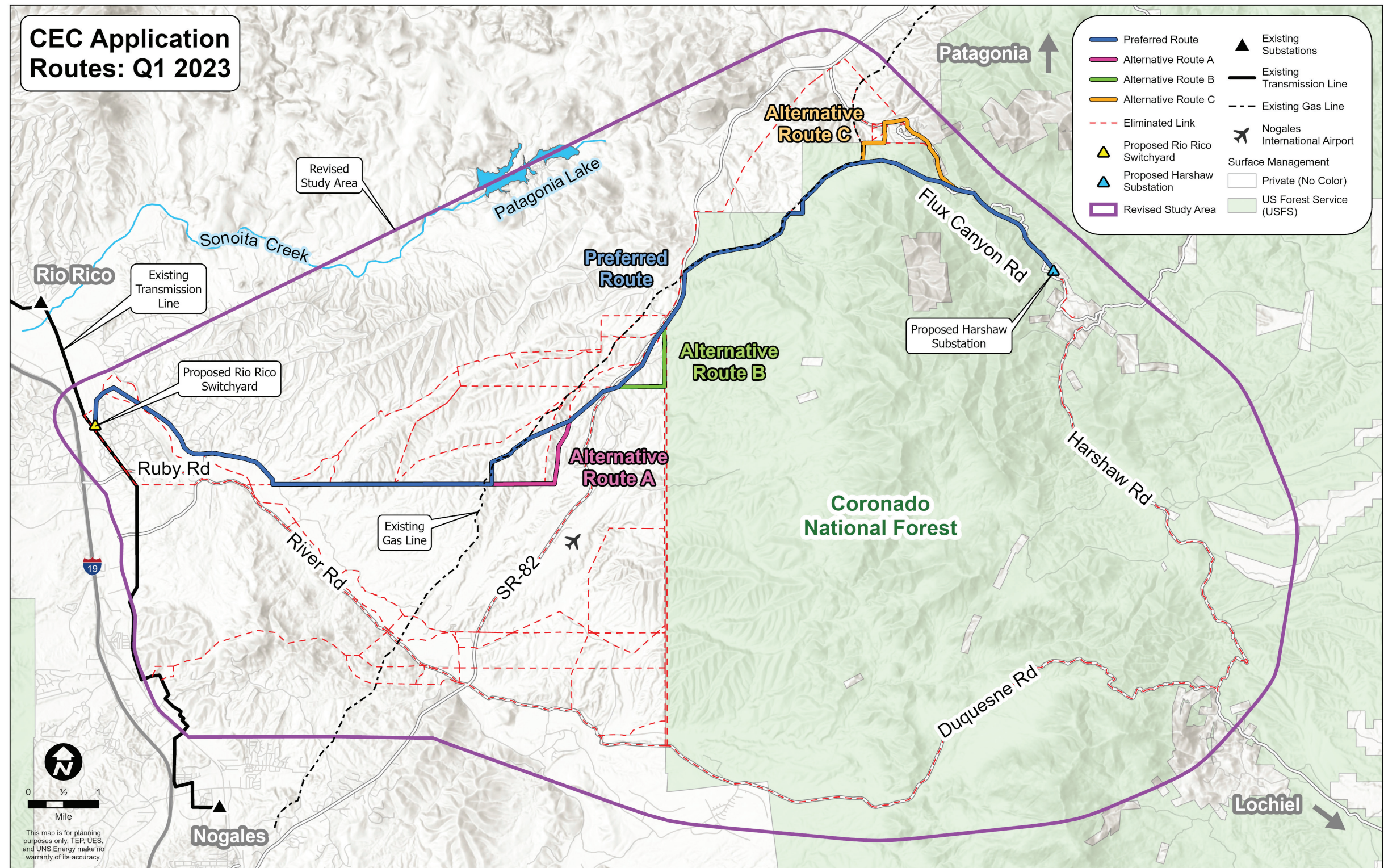
UNSE invita a los residentes, propietarios y otras partes interesadas a compartir sus comentarios sobre la ruta de la línea de transmisión de la siguiente manera:

- Enviar un formulario de comentarios o una carta con los comentarios por correo postal a:

UniSource Energy Services
A la atención de: Proyecto Río Rico-Harshaw de 138 kV
P.O. Box 711
Dirección interna OH 131
Tucson, AZ 85702

- Enviar comentarios a RR2Harshaw@uesaz.com
- Visitar uesaz.com/rio-rico-to-harshaw y completar un formulario de comentarios en línea.
- Llamar al 1-833-783-0396 y dejar un mensaje de correo de voz.

Los boletines informativos anteriores están disponibles en el sitio web del proyecto o se pueden solicitar con la información de contacto anterior.



Cochise board OKs deal to house juvenile detainees in SC County

By Shar Porier
Sierra Vita Herald

The Cochise County Board of Supervisors followed through Tuesday with a plan to end the housing of juveniles in the county detention center and send them to the Santa Cruz County facility instead.

Following the Cochise board's unanimous approval of an intergovernmental agreement that the Santa Cruz County Board of Supervisors had approved on Sept. 1, juveniles who are remanded by Cochise County judges into care will be transported to the juvenile detention center in Nogales beginning Jan. 1, 2021.

Cochise Deputy Civil County Attorney Britt Hanson, who drafted the agreement, went over the pact that will cost Cochise approximately \$675,000 a year through June 30, 2023. The annual amount could change depending on expenses for routine medical costs. Non-routine costs

for hospitalization or surgery would fall to Cochise County.

In addition, that county will incur costs for transporting its juveniles to and from the Santa Cruz County facility for court appearances. The juveniles would still be served by Cochise County probation officers.

While Cochise County School Superintendent Jacqui Clay did not think the arrangement was a good idea, was done hastily and should have included her input, Supervisor Ann English listed a number of positive results, including that the juveniles would be housed in a better facility with 24-hour medical care and "closer access to quality health care professionals" when needed while in Nogales.

She added that the Santa Cruz County Superintendent of Schools' Office "will follow all the guidelines for these kids as he has done for all of SCC."

"We put the agree-

ment together, but it was the presiding judge who made the decision on this. All across the state, counties are dropping this as they have fewer juveniles in detention facilities. We have an old facility. Santa Cruz County has a brand new facility. They have room and are willing to share with us. This is a good arrangement," she said.

The juvenile detention center in Nogales opened in 2011 with a 32-bed capacity. However, Santa Cruz County Manager Jennifer St. John previously said that current staffing levels only allow for eight beds to be filled at a time. Under the new agreement, those beds will be divided to accommodate four juvenile inmates from each county at a time.

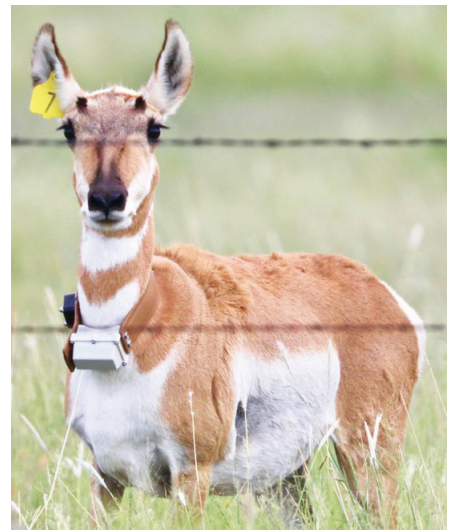
Clay, the Cochise schools superintendent argued that the arrangement will be a hardship on parents with no transportation to visit their children in Nogales. Cochise Supervisor Peggy Judd coun-

tered that technology exists via the internet for juveniles and their families to remain in contact with each other.

Cochise Sheriff Mark Dannels added that he's concerned that he doesn't have the extra transportation costs built into his 2020-2021 budget and will now have to refigure deputy time for the drive to and from Santa Cruz County.

There have been no significant concerns expressed by the Santa Cruz County government, which for years has sought ways to generate revenue from its chronically under-filled detention center. In recent months, there have been days on which the juvenile area hasn't had a single inmate.

St. John said that Santa Cruz County currently has an annual budget of about \$1.2 million for the juvenile detention center, so the cost-sharing deal with Cochise is expected to relieve the county of at least half that burden.



Right at home

The Arizona Department of Game and Fish this week posted photos of pronghorn antelope taken recently near the Elgin School. This shot shows a doe that was GPS collared as part of a translocation from New Mexico in 2014, AZGFD said.

The population of the Elgin pronghorn herd was just 81 animals fragmented into three sub-groups in 2012, according to the Arizona Antelope Foundation. But following efforts to relocate antelope from New Mexico and the Prescott area, and through the efforts of landowners and other partners, the herd now numbers approximately 250, according to a recent survey by the foundation.

A separate herd lives nearby in the San Rafael Valley of Santa Cruz County.

Photo by Betty Dickens

Public Notice Rio Rico-Harshaw Transmission Line Project

UNS Electric, Inc. (UNSE), a subsidiary of UniSource Energy Services, is developing plans for the new Rio Rico-Harshaw 138 Kilovolt (kV) Transmission Line Project. The approximately 20-30 mile 138 kV transmission line will interconnect UNSE's existing 138 kV transmission system to the planned Harshaw Substation through a planned 138 kV switchyard in Rio Rico.

UNSE is seeking public input about the project and invites you to attend an upcoming virtual open house meeting to ask questions and submit comments.

Virtual Public Open House Meeting

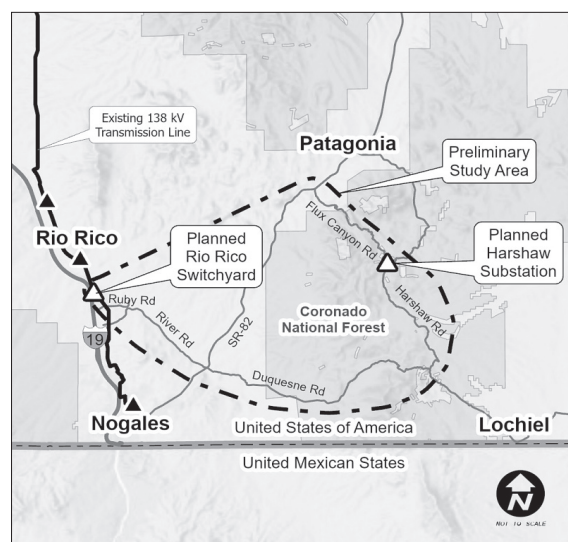
Thursday, Sept. 24, 2020 | 6-8 p.m.

TO JOIN VIA ZOOM:
Visit uesaz.com/rio-rico-to-harshaw for the meeting link and passcode

TO LISTEN VIA TELEPHONE:
Call 669-900-6833 | Webinar ID: 913 4239 0972
Passcode: 14432319

Learn more at uesaz.com/rio-rico-to-harshaw

UNSE busca aporte público sobre el proyecto de línea de transmisión 138 kV e invita al público a asistir virtualmente la próxima reunión comunitaria para más información. Para enviar un comentario, por favor deje un mensaje al 520-918-8399 y le regresaran su llamada. Gracias por su interés en este proyecto.



UniSourceEnergy
SERVICES

Apaches boys tennis passes first-round test

Nogales International

With Nogales having won four of five singles matches on Wednesday, all eyes turned to the No. 2 court, where Gabriel Corella of NHS was locked in a third-set battle with Zach Daniels of Tempe McClintock High.

If Corella could win the match, it would seal a first-round Division II state championship win for the No. 3-seeded Apaches without having to go to doubles play.

And with the home crowd rooting him on, Corella came through in the clutch to win 6-2, 2-6, 6-4.

"I'm so happy that I have a team, my family, everyone who's got my back, giving me encouraging words. And I know that I can trust them. They've come up to me, they've said, 'good job, do your best,' and they've always

kept my spirit up," an emotionally drained Corella said afterward.

His was one of two singles matches that went to a decisive third set on Wednesday, both of which were won by Nogales. Jose Rubio was the winner at No. 4 by a score of 4-6, 6-4, 7-5.

Gustavo Acosta took the No. 3 match, 7-5, 7-1. Gonzalo Armenta picked up another win for the Apaches at No. 5 singles, 6-1, 6-2; and Jacob Molera was the No. 6 winner, 6-0, 6-2. Emilio Heredia fell in the No. 1 match, 2-6, 1-6.

The Apaches, who entered the playoffs with a perfect 12-0 record, will now host No. 6-seeded Arcadia at 3 p.m. on Wednesday, May 5, in the quarterfinal round.

Corella said he thinks the challenge NHS got from No. 14-seeded McClintock can be a boost going forward.

"The first round is always



Photos by Jonathan Clark
Above: Gabriel Corella goes for a backhand during his No. 2 singles match. Right: Jose Rubio hits the ball across the net during the No. 4 singles match.



a struggle. The first round of state, all our nerves are kicking in. But it's really good to see my team, everyone performing, they're trying their best at playing, winning points and everything," he said.

As the Apaches wait for the next round of team competition, Corella will play in the state D-II singles tournament on Friday, April 30 at the Phoenix Tennis Center.

That same day, Heredia and Acosta will play in the D-II doubles tournament as the No. 1 seed. Molera and Rubio will compete in the doubles tournament as well.

Public Notice Rio Rico-Harshaw 138 Kilovolt Transmission Line Project

UNS Electric, Inc. (UNSE), a subsidiary of UniSource Energy Services, is developing plans for a transmission line in Santa Cruz County that will serve a mine exploration project while improving service for residential customers in the area. UNSE seeks public input about the project and invites you to attend an upcoming virtual open house meeting to ask questions and submit comments.

Virtual Public Open House Meeting

May 13, 2021 | 6-8 p.m.

TO JOIN VIA ZOOM:

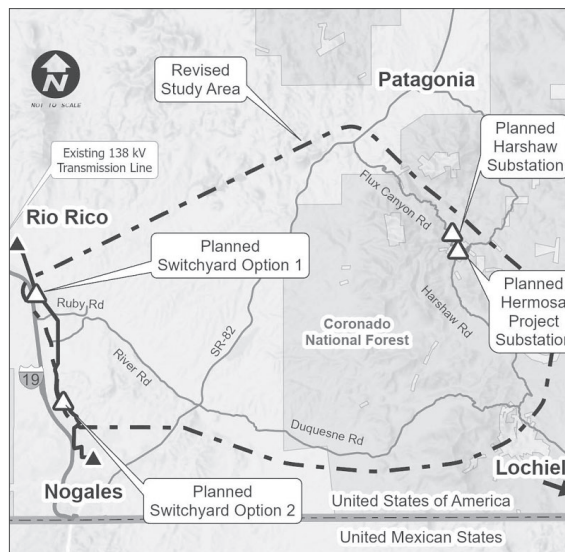
Visit uesaz.com/rio-rico-to-harshaw for the meeting link and passcode

TO LISTEN VIA TELEPHONE:

Call 1-669-900-6833 | Webinar ID: 983 7231 9478
Passcode: 68836350

You also can visit the project webpage to participate in an interactive survey. Learn more at uesaz.com/rio-rico-to-harshaw.

UNS Electric, Inc. (UNSE), una subsidiaria de UniSource Energy Services, está desarrollando planes para una línea de transmisión planificada en el condado de Santa Cruz. La línea servirá para un proyecto de exploración minera mientras mejora el servicio para los clientes residenciales en el área. UNSE lo invita a asistir a una próxima reunión virtual pública para hacer preguntas y enviar comentarios. Para participar a través de Zoom o por teléfono, utilice la información anterior. También puede visitar la página web del proyecto para participar en una encuesta interactiva. Si tiene preguntas o comentarios, no dude en contactarnos al 520-918-8399. Gracias por su interés en este proyecto.



UniSourceEnergy
SERVICES



Hays remembered for 'relentless' service to S.C. County

By Angela Gervasi
Nogales International

A moment of silence permeated through the County Complex in Nogales Tuesday as staff commemorated John Hays, who'd served as the county's floodplain coordinator for more than two decades.

Hays died on Sunday morning after an extended illness. He was 52.

Speaking Tuesday, District 3 Supervisor Bruce Bracker described Hays' passing as "sudden and a shock."

"It's a sad, sad situation," added District 2 Supervisor Rudy Molera. "I personally thank John for all his years of service."

Hays began working for the county in 1999 as a floodplain coordinator – a leadership position he would maintain until his passing.

Under the post, Hays took on the task of managing and enforcing policy within the county's flood zones: educating the public on local ordinances, providing updates on insurance requirements, and conducting flood prevention projects.

Speaking Tuesday, the supervisors underscored that in Santa Cruz County – an area plagued by flooding each monsoon season – Hays played an invaluable role.

In March, the federal government allocated millions of dollars to establish a retention basin near Ephraim Canyon, an effort that would protect residents and property in western Nogales in the event of flash flooding. Hays, Bracker said, had been instrumental in the project's development.

"Many of the large projects that we're getting done right now are because he has just been relentless in pursuing funding for them, and advocating for them," Bracker added.

Public education

Outside of his county position, Hays spent hours supporting public education – both as an adjunct professor and as a governing board member.

Hays studied geology at Northern Arizona University, and later pursued planetary geology at Brown University in Rhode Island. He car-

“Many of the large projects that we're getting done right now are because he has just been relentless in pursuing funding for them, and advocating for them.”

Bruce Bracker,
county supervisor

ried that knowledge into local classrooms, where he taught as an adjunct professor within the Santa Cruz County Provisional Community College District.

In a statement posted Tuesday, the district described Hays as an educator who “loved to share his incredible knowledge with Santa Cruz County students.”

In 2014, Hays was elected to the governing board at the Santa Cruz Valley Unified School District, where his two sons attended school.

During Hays' tenure at SCVUSD, he advocated for a variety of issues – like filing an appeal to the



File photo by Arielle Zionts
John Hays, county floodplain coordinator, speaks at a board of supervisors meeting in February 2018.

Arizona Interscholastic Association in 2015, after the AIA disqualified two students for playing a softball tournament in Mexico. Later that year, Hays penned a letter to the editor in this newspaper, urging residents to consider making a tax-deductible donation to SCVUSD to assist the district's staff amid budget cuts.

“As a band parent

myself, this stresses me as I know the importance of the arts to academic success,” he wrote at the time.

Hays continued to serve on the board until the time of his death.

A 'public servant'

Hays, an avid photographer, also documented sporting events at the district, culminating in

thousands of photographs, according to SCVUSD Communications Director Shannon Enciso.

“Mr. Hays was a compassionate public servant who was determined to make his entire county a better place for current and future generations,” Enciso said in a statement Monday.

See HAYS / Page 6

Public Notice Rio Rico to Harshaw Transmission Line Project

UNS Electric, Inc. (UNSE), a subsidiary of UniSource Energy Services, has identified new potential route segments for a proposed transmission line in Santa Cruz County. The Rio Rico-Harshaw 138-kilovolt (kV) Transmission Line Project will involve the construction of an approximately 20-30 mile, single-circuit transmission line that will interconnect UNSE's existing 138-kV transmission system to a proposed 138-kV switchyard in Rio Rico and the proposed Harshaw Substation located on private land at the end of Flux Canyon Road.

UNSE is seeking public input about the project and invites you to attend an upcoming hybrid virtual and in-person open house meeting to ask questions and submit comments.

Hybrid In-Person/Virtual Public Open House Meeting

August 25, 2022 | 6-8 p.m.

IN-PERSON:

Quality Hotel Americana Nogales-Olmec Room
639 N. Grand Ave., Nogales, AZ

VIA ZOOM:

Visit uesaz.com/rio-rico-to-harshaw for the meeting link and passcode. This meeting will be recorded and posted to the project website within one week of the open house meeting.

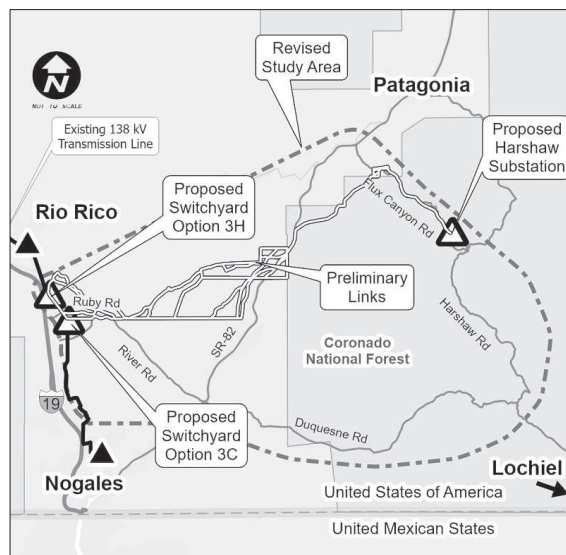
LISTEN VIA TELEPHONE:

Call: 1 669 444 9171 or 1 669 900 6833, or 1 253 215 8782

Webinar ID: 863 9504 2234

Passcode: 67697814

UNS Electric, Inc. (UNSE) una subsidiaria de UniSource Energy Services, ha identificado posibles segmentos nuevos de ruta, o "enlaces", para una línea de transmisión planificada en el condado de Santa Cruz. La línea servirá para un proyecto de exploración minera mientras mejora el servicio para los clientes residenciales en el área. UNSE organizará una reunión pública en persona y virtual el 25 de Agosto de 2022 de 6 a 8 p.m. Para conectarse a través de Zoom, visite uesaz.com/rio-rico-to-harshaw para obtener el enlace y la contraseña de la reunión. Para escuchar vía telefónica, llame a +1 669 444 9171 e ingrese el ID del seminario web 863 9504 2234 y contraseña 67697814. Si tiene preguntas o comentarios, no dude en contactarnos al 1-833-783-0396. Gracias por su interés en este proyecto.



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3 DRAWINGS

9 WINNERS

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SHERIFF

Continued from Page 15

6:58 p.m. A caller wanted to turn in some firearms after being served with an order of protection earlier that day.

9:21 p.m. The Sonoita Border Patrol Station reported having detained a 13-year-old who was driving a group of undocu-

mented immigrants.

Nov. 3

2:57 p.m. A caller from Tumacacori said he saw a man working on his house when the caller went to the post office. When the caller returned, the man was lying unconscious on the ground with a laceration to his head.

COPS

Continued from Page 15

Nov. 5

3:52 p.m. A state trooper asked for assistance with a DUI stop in which three juveniles were in the vehicle.

5:12 p.m. A caller said they had just gotten home and found that someone had broken into her house. The caller said money and her immigration papers were missing.

6:46 p.m. Someone reported that people were going in and out of an abandoned trailer after having removed boards

from the windows.

8:48 p.m. Dispatch receive a report of a Chevy Silverado that had crashed at the entrance to the Casa Bonita Apartments. The caller said there were juveniles near the truck, but they all seemed to be fine.

Nov. 4

3:24 p.m. A caller said her sister broker her bedroom window and went into her apartment.

8:39 a.m. Someone reported a stolen city-issued trash can.

2:23 p.m. A student said he just got out of school and found that his bike had been stolen. The bike

Nov. 2

2:06 p.m. A caller said his ex-business partner used his account to pay the IRS \$7,000-\$8,000.

3:18 p.m. A woman wanted to file an assault charge against a man who pushed her out of the way to break up a dog fight.

10:18 p.m. A caller said he struck a cow while driving on Pendleton Drive at Ruta Camaron.

lock was on the ground, broken.

4:40 p.m. Somebody waved down an officer and asked that they follow her in regard to a domestic violence incident in progress.

7:46 p.m. A caller said they just arrived home and found that someone had made a forced entry through the gate. The caller's 2004 Chevy Van was missing.

10:34 p.m. A 26-year-old man walked into the police department with a gunshot wound. The man's mother said it was self inflicted.

Letters
to the Editor

write us @
editorial@nogalesinternational.com

Public Notice

Rio Rico to Harshaw 138 Kilovolt Transmission Line Project

UNS Electric, Inc., a subsidiary of UniSource Energy Services, is developing plans for the new Rio Rico to Harshaw 138 Kilovolt Transmission Line Project. A new interactive map on the project website allows users to search by address and zoom in for detailed views of "links," or potential route segments, that could be combined in various ways to form a line route.

Project website: uesaz.com/rio-rico-to-harshaw



Residents, property owners and other stakeholders are encouraged to attend an upcoming in-person open house meeting to learn about project updates, ask questions and submit comments.

In-Person Public Open House Meeting

Thursday, November 17, 2022 | 6-8 p.m.

Quality Hotel Americana Nogales – Mayan Room
639 N. Grand Ave., Nogales, AZ

UNS Electric, Inc. una subsidiaria de UniSource Energy Services, ha identificado posibles segmentos nuevos de ruta, o "enlaces", para una línea de transmisión planificada en el condado de Santa Cruz. Lo invitamos a ver un nuevo mapa interactivo en el sitio web del proyecto que permite a los usuarios buscar por dirección y acercar el zoom para obtener vistas detalladas de los enlaces. UniSource lo invita a asistir a una próxima reunión presencial abierta al público para conocer las actualizaciones del proyecto, hacer preguntas y enviar comentarios. La reunión se llevará a cabo el jueves 17 de noviembre de 2022, de 6 a 8 p.m., en Mayan Room en el Quality Hotel Americana Nogales, 639 N. Grand Ave., Nogales, Arizona. Si tiene preguntas o comentarios, no dude en contactarnos al 1-833-783-0396. Gracias por su interés en este proyecto.

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Real Estate

Real Estate

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2 Awesome rentals near Rio Rico Fitness Center! 2/2/1 townhouse with carport, recently renovated with laminate floors, ac, enclosed yard, \$1095 AND a 3/2/2 house with ac, enclosed yard and AZ room \$1400. Both a must see!!

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Public Notice

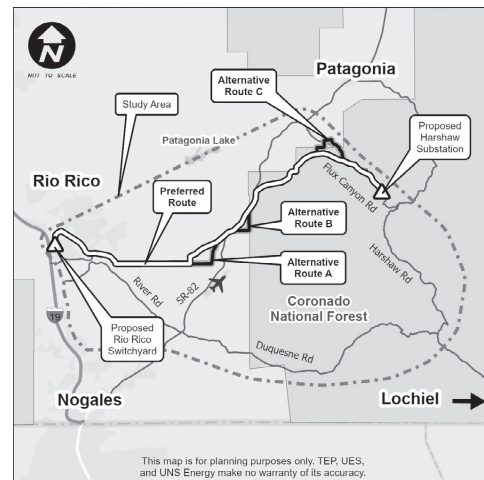
Rio Rico to Harshaw 138-Kilovolt Transmission Line Project

UNS Electric, Inc. (UNSE), a subsidiary of UniSource Energy Services, has identified a preferred route with three alternative segments for the proposed Rio Rico to Harshaw 138-Kilovolt (kV) Transmission Line Project in Santa Cruz County. UNSE will include these routes in its application to the Arizona Corporation Commission for a Certificate of Environmental Compatibility.

The transmission line will serve a mine exploration project while improving service for residential and other electric customers. Residents, property owners and other stakeholders are encouraged to attend an upcoming meeting to learn about project updates, ask questions and submit comments.

In-Person Public Open House Meeting

Wednesday, January 25, 2023 | 6-8 p.m.
Quality Hotel Americana Nogales – Mayan Room
639 N. Grand Ave., Nogales, Ariz.



UNS Electric, Inc. (UNSE), una subsidiaria de UniSource Energy Services, ha identificado una ruta preferida con tres segmentos alternativos para el proyecto propuesto de línea de transmisión de Rio Rico a Harshaw de 138 kilovoltios (kV) en el Condado de Santa Cruz. UNSE incluirá estas rutas en su solicitud a la Comisión de Corporaciones de Arizona para obtener un Certificado de compatibilidad ambiental. La línea de transmisión abastecerá a un proyecto de exploración minera y a la vez mejorará el servicio para los clientes residenciales y otros clientes de electricidad. Se alienta a los residentes, propietarios y otras partes interesadas a asistir a una reunión presencial abierta al público el miércoles 25 de enero de 2023 de 6:00 p. m. a 8:00 p. m. para conocer las actualizaciones del proyecto, hacer preguntas y enviar comentarios. Gracias por su interés en este proyecto.

UniSourceEnergy
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uesaz.com/rio-rico-to-harshaw



From: Ortiz Y Pino, Christopher
Sent: Thursday, January 12, 2023 1:48 PM
To: Rio Rico to Harshaw Line Project
Subject: Rio Rico to Harshaw 138-kV Transmission Line Newsletter
Attachments: UES RioRicoHarshaw Newsletter.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Hello,

UNSE would like to share with you a virtual copy of the latest Rio Rico to Harshaw 138-kV Transmission Line project Newsletter (Attached) and invite you to the upcoming Open House to be held on **Wednesday, January 25, 2023 at the Quality Hotel Americana in Nogales.** The hard copy of the Newsletters will arrive in your mailbox soon. However, due to equipment failures, we are unable to get the Newsletter to you with the advanced notice that we originally intended. If you are receiving this email, it is because you have provided comments on the project in the past. As active participants in the public process, we want to ensure you have ample time to review the latest information and can plan accordingly to attend the next Open House.

Project Website:

<https://www.uesaz.com/rio-rico-to-harshaw/>

Interactive Map:

<https://www.uesaz.com/maps/rio-rico-to-harshaw/>

MetroQuest Survey:

<https://live.metroquestsurvey.com/?u=ak55p#!/?p=web>

Please share with your community!

Thank you

Chris Ortiz y Pino
Environmental & Land Use Planner
Tucson Electric Power



**Application for a Certificate of Environmental
Compatibility**

**Rio Rico to Harshaw
138 Kilovolt Transmission Line Project**

Exhibit J-9

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Rio Rico to Harshaw 138kV Transmission Line Project

VIRTUAL OPEN HOUSE MEETING #1

SEPTEMBER 24, 2020



September 2020

Agenda

- Welcome, Introductions and Q & A Format
- Project Overview
- Benefits
- Study Area & Project Description
- Project Details: Transmission Line
- Project Details: Switchyard
- Processes
 - National Environmental Policy Act – United States Forest Service Implementation
 - Arizona Corporation Commission Certificate of Environmental Compatibility
- Schedule & Next Steps
- How to Comment
- More Information
- Questions

Agenda



Welcome & Introductions

- Welcome, Introductions and Q & A Format
- Project Overview
- Benefits
- Study Area & Project Description
- Project Details: Transmission Line
- Project Details: Switchyard
- Processes
 - National Environmental Policy Act – United States Forest Service Implementation
 - Arizona Corporation Commission Certificate of Environmental Compatibility
- Schedule & Next Steps
- How to Comment
- More Information
- Questions

- Welcome
- Introductions
 - UES Line Siting Team
- How to Ask Questions

Agenda



Project Overview

- Welcome, Introductions and Q & A Format
 - Project Overview
 - Benefits
 - Study Area & Project Description
 - Project Details: Transmission Line
 - Project Details: Switchyard
 - Processes
 - National Environmental Policy Act – United States Forest Service Implementation
 - Arizona Corporation Commission Certificate of Environmental Compatibility
 - Schedule & Next Steps
 - How to Comment
 - More Information
 - Questions
-
- Serve the Hermosa Project, a mine exploration project currently in the pre-feasibility phase.
 - Address service reliability for all electric customers in the San Rafael Valley, Washington Camp, and Lochiel areas of Southern Arizona.

Agenda

- Welcome, Introductions and Q & A Format
- Project Overview
- Benefits
- Study Area & Project Description
- Project Details: Transmission Line
- Project Details: Switchyard
- Processes
 - National Environmental Policy Act – United States Forest Service Implementation
 - Arizona Corporation Commission Certificate of Environmental Compatibility
- Schedule & Next Steps
- How to Comment
- More Information
- Questions

Benefits

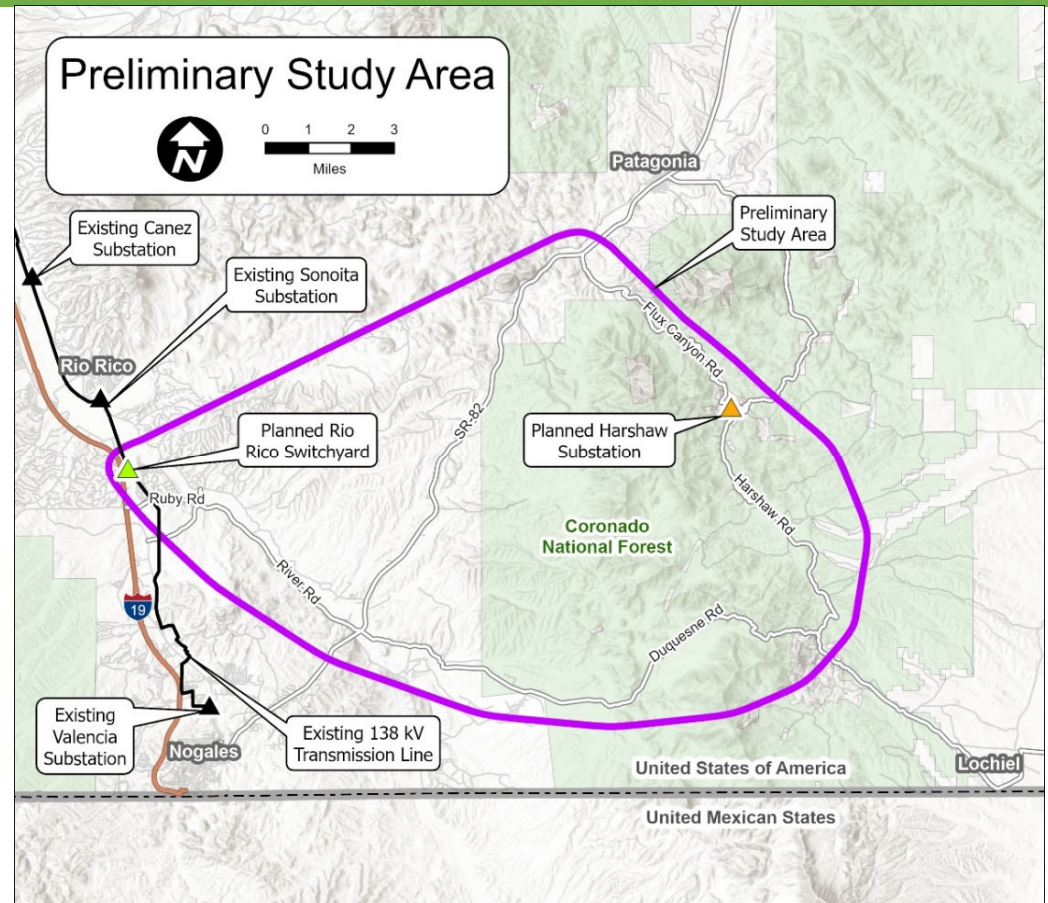
- Provide a more reliable power source for the Hermosa Project and more than 3,000 customers in the area.
- New, higher-voltage facilities would reduce potential reliability issues associated with inadequate voltage support.
- Provide additional capacity that could allow interconnections with future renewable energy projects while supporting economic development in the area.

Agenda

Study Area & Project Description

- Welcome, Introductions and Q & A Format
- Project Overview
- Benefits
- Study Area & Project Description
- Project Details: Transmission Line
- Project Details: Switchyard
- Processes
 - National Environmental Policy Act – United States Forest Service Implementation
 - Arizona Corporation Commission Certificate of Environmental Compatibility
- Schedule & Next Steps
- How to Comment
- More Information
- Questions

- 138kV transmission line between the planned Rio Rico Switchyard and the planned Harshaw Substation.
- Approximately 20-30 mile, single-circuit 138 kV transmission line mounted on steel monopole structures.



Agenda

Project Details: Transmission Line

- Welcome, Introductions and Q & A Format
- Project Overview
- Benefits
- Study Area & Project Description
- Project Details: Transmission Line ←
- Project Details: Switchyard
- Processes
 - National Environmental Policy Act – United States Forest Service Implementation
 - Arizona Corporation Commission Certificate of Environmental Compatibility
- Schedule & Next Steps
- How to Comment
- More Information
- Questions

- Self-weathering steel monopoles 75-110 feet tall.
- Up to 100-foot-wide right-of-way.



Agenda

- Welcome, Introductions and Q & A Format
- Project Overview
- Benefits
- Study Area & Project Description
- Project Details: Transmission Line
- Project Details: Switchyard
- Processes
 - National Environmental Policy Act – United States Forest Service Implementation
 - Arizona Corporation Commission Certificate of Environmental Compatibility
- Schedule & Next Steps
- How to Comment
- More Information
- Questions

Project Details: Example Switchyard in the TEP system



Agenda

Processes



- Welcome, Introductions and Q & A Format
- Project Overview
- Benefits
- Study Area & Project Description
- Project Details: Transmission Line
- Project Details: Switchyard
- Processes
 - National Environmental Policy Act – United States Forest Service Implementation
 - Arizona Corporation Commission Certificate of Environmental Compatibility
- Schedule & Next Steps
- How to Comment
- More Information
- Questions

United States Forest Service Application

- Special Use Permit
 - National Environmental Policy Act (NEPA) Analysis
 - Resource Studies
 - Public & Stakeholder Scoping
 - National Historic Preservation Act/Endangered Species Act Consultations
 - NEPA Documentation
 - Forest Service Determination
 - Environmental Assessment (Finding of No Significant Impact), or
 - Environmental Impact Statement

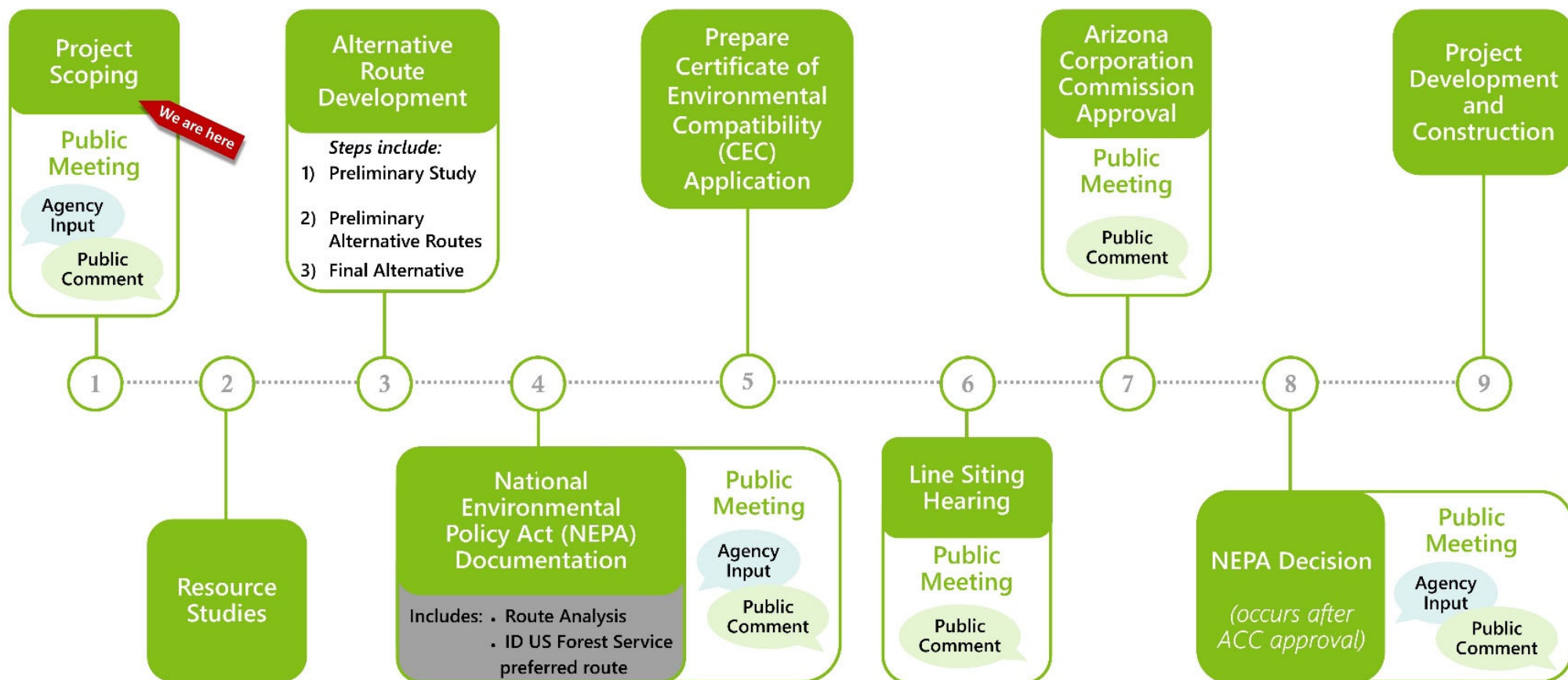
Agenda

Processes



- Welcome, Introductions and Q & A Format
- Project Overview
- Benefits
- Study Area & Project Description
- Project Details: Transmission Line
- Project Details: Switchyard
- Processes
 - National Environmental Policy Act – United States Forest Service Implementation
 - Arizona Corporation Commission Certificate of Environmental Compatibility
- Schedule & Next Steps
- How to Comment
- More Information
- Questions

- Arizona Corporation Commission Certificate of Environmental Compatibility
- UES' Line Siting Process (see chart next page)



Agenda

Schedule

- Welcome, Introductions and Q & A Format
- Project Overview
- Benefits
- Study Area & Project Description
- Project Details: Transmission Line
- Project Details: Switchyard
- Processes
 - National Environmental Policy Act – United States Forest Service Implementation
 - Arizona Corporation Commission Certificate of Environmental Compatibility
- Schedule & Next Steps
- How to Comment
- More Information
- Questions



- Q3 2020-Q2 2021: Outreach, Preliminary studies, Preliminary route development
- Q2-Q3 2021: Outreach, Environmental Analysis/Documentation
- Q4 2021: ACC CEC Application, Line Siting Hearing (Nov 2021)
- Q1-Q2 2022: ACC Decision, USFS NEPA Determination
- Q3-Q4 2022: Engineering design, Right-of-Way acquisition, Permitting
- Q4 2022-Q2 2024: Construction
- May 2024: Project In-service Date

Agenda

How to Comment

- Welcome, Introductions and Q & A Format
- Project Overview
- Benefits
- Study Area & Project Description
- Project Details: Transmission Line
- Project Details: Switchyard
- Processes
 - National Environmental Policy Act – United States Forest Service Implementation
 - Arizona Corporation Commission Certificate of Environmental Compatibility
- Schedule & Next Steps
- How to Comment
- More Information
- Questions



- Seeking input and comment on:
 - Study Area boundary
 - Opportunities
 - Constraints
 - Any concerns

Agenda

How to Comment

- Welcome, Introductions and Q & A Format
- Project Overview
- Benefits
- Study Area & Project Description
- Project Details: Transmission Line
- Project Details: Switchyard
- Processes
 - National Environmental Policy Act – United States Forest Service Implementation
 - Arizona Corporation Commission Certificate of Environmental Compatibility
- Schedule & Next Steps
- How to Comment
- More Information
- Questions



- Mail a comment form or a letter to: UniSource Energy Services ATTN: Rio Rico-Harshaw PO Box 711 Tucson, AZ 85702
- Send comments to RR2Harshaw@uesaz.com
- Visit uesaz.com/rio-rico-to-harshaw and fill out an online comment form
- Call 1-833-783-0396 and leave a voicemail message in English
- Deje un mensaje al 520-918-8399 y le regresaran su llamada

Agenda

- Welcome, Introductions and Q & A Format
- Project Overview
- Benefits
- Study Area & Project Description
- Project Details: Transmission Line
- Project Details: Switchyard
- Processes
 - National Environmental Policy Act – United States Forest Service Implementation
 - Arizona Corporation Commission Certificate of Environmental Compatibility
- Schedule & Next Steps
- How to Comment
- More Information
- Questions

More Project Information

For more project information please visit the project webpage:

<https://www.uesaz.com/rio-rico-to-harshaw/>

Here, you will find:

- Project details including the project newsletter
- A print copy and recording of this presentation
- Commonly asked questions & answers

In future, you will find:

- Resource studies and analyses
- Public and stakeholder comments and UES responses

Agenda

- Welcome, Introductions and Q & A Format
- Project Overview
- Benefits
- Study Area & Project Description
- Project Details: Transmission Line
- Project Details: Switchyard
- Processes
 - National Environmental Policy Act – United States Forest Service Implementation
 - Arizona Corporation Commission Certificate of Environmental Compatibility
- Schedule & Next Steps
- How to Comment
- More Information
- Questions



Questions?

Agenda

Meeting Ended

- Welcome, Introductions and Q & A Format
- Project Overview
- Benefits
- Study Area & Project Description
- Project Details: Transmission Line
- Project Details: Switchyard
- Processes
 - National Environmental Policy Act – United States Forest Service Implementation
 - Arizona Corporation Commission Certificate of Environmental Compatibility
- Schedule & Next Steps
- How to Comment
- More Information
- Questions

A recording of the meeting will be available on the Project webpage after Monday, September 28th. It can be found at the following location;

<https://www.uesaz.com/rio-rico-to-harshaw/>

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**Application for a Certificate of Environmental
Compatibility**

**Rio Rico to Harshaw
138 Kilovolt Transmission Line Project**

Exhibit J-10

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Rio Rico to Harshaw 138kV Transmission Line Project

VIRTUAL OPEN HOUSE MEETING #2

MAY 13, 2021



May 2021

Welcome & Introductions

- Welcome
- Introductions
 - UES Line Siting Team
- How to Ask Questions

Rio Rico to Harshaw 138kV Transmission Line Project

Asking Questions and Submitting Comments

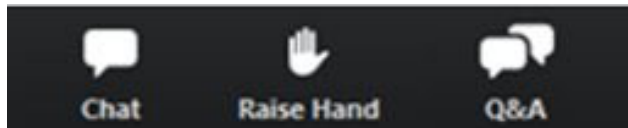
- This webinar is set up to bring attendees into the webinar in listen-only mode to minimize background noise
- UNSE encourages attendees to ask questions. There will be a formal Q & A session at the end of the presentation
- Other ways to learn and comment. Please visit: <https://www.uesaz.com/rio-rico-to-harshaw/>
- Here you will find;
 - More information about the Project
 - Past meeting materials
 - Additional ways in which to provide comments

Rio Rico to Harshaw 138kV Transmission Line Project

Asking Questions and Submitting Comments

- Asking a WRITTEN question:

- Click the “Q&A” button
- Type your question
- Select “send”
- Moderator will facilitate answering questions at the end of the presentation



- Asking a VERBAL question:

- Raise your hand using “Raise Hand” button or *9 from the phone
- Moderator will call your name if submitted online or call out your last 4 digits of phone number
- Unmute your microphone by clicking the unmute button (online) or by pressing *6 (phone) to ask your question



Rio Rico to Harshaw 138kV Transmission Line Project

Why a Virtual Open House?

- UNSE must obtain a Certificate of Environmental Compatibility (CEC) from the Arizona Power Plant & Line Siting Committee
- Federal, state, and local ordinances, as well as guidance from public health officials, continue to advise against larger in-person public gatherings

Agenda

- Welcome, Introductions and Q & A Format
- Project Overview
- Benefits
- Revised Study Area & Project Description
- Project Details: Transmission Line
- Project Details: Switchyard
- Processes
 - National Environmental Policy Act – United States Forest Service Implementation
 - Arizona Corporation Commission Certificate of Environmental Compatibility
- Alternative Route Links Analysis
- Schedule & Next Steps
- How to Comment
- More Information
- Questions

Project Overview

- Serve the Hermosa Project, a mine exploration project currently in the pre-feasibility phase.
- Address service reliability for all electric customers in the San Rafael Valley, Washington Camp, and Lochiel areas of Southern Arizona.

Benefits

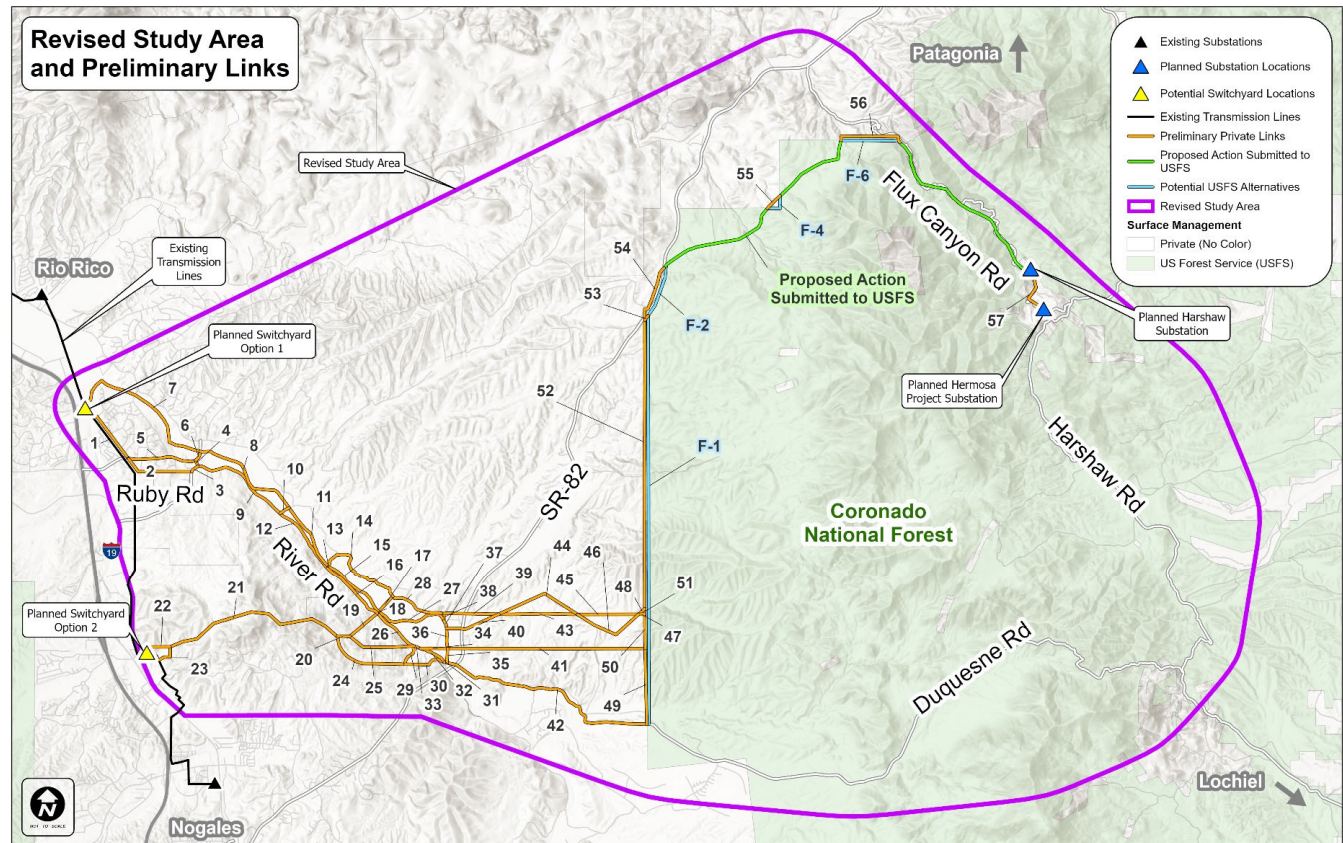
- Provide a more reliable power source for the Hermosa Project and more than 3,000 customers in the area.
- New, higher-voltage facilities would reduce potential reliability issues associated with inadequate voltage support.
- Provide additional capacity that could allow interconnections with future renewable energy projects while supporting economic development in the area.

Revised Study Area & Project Description

Study area revised based on public comment to include an additional potential switchyard location in Nogales.

138kV transmission line between a planned switchyard in Rio Rico or Nogales and the planned Harshaw Substation.

Approximately 20-30 mile, single-circuit 138 kV transmission line mounted on steel monopole structures.



Project Details: Transmission Line

- Self-weathering steel monopoles 75-110 feet tall.
- Up to 100-foot-wide right-of-way when not in road right-of-way.



Project Details: Example Switchyard in the TEP system



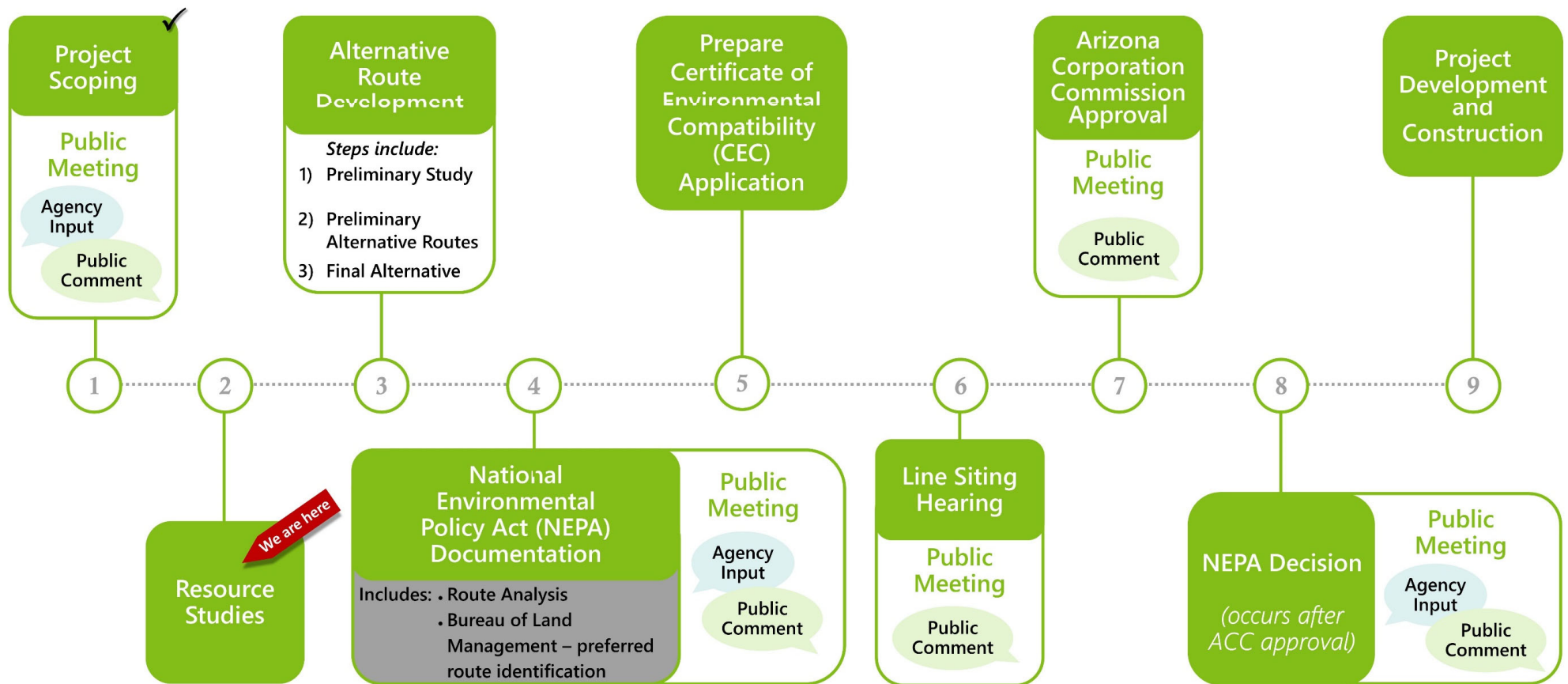
USFS Process

United States Forest Service Application

- Special Use Permit
 - National Environmental Policy Act (NEPA) Analysis
 - Resource Studies
 - Public & Stakeholder Scoping
 - National Historic Preservation Act/Endangered Species Act Consultations
 - NEPA Documentation
 - Forest Service Determination

Other Processes

- Arizona Corporation Commission Certificate of Environmental Compatibility
- Unisource's Line Siting Process (see chart next page)



Routing Philosophy

When developing a project UNSE makes every effort to:

- Design routes that will utilize existing road rights-of-way and utility corridors in an effort to minimize disturbance to surrounding areas. This also gives UNSE the flexibility to improve aesthetics by undergrounding or retiring existing distribution facilities
- Work with neighbors and other stakeholders to identify concerns and develop alternatives that are in the best interest of the community

Routing Criteria

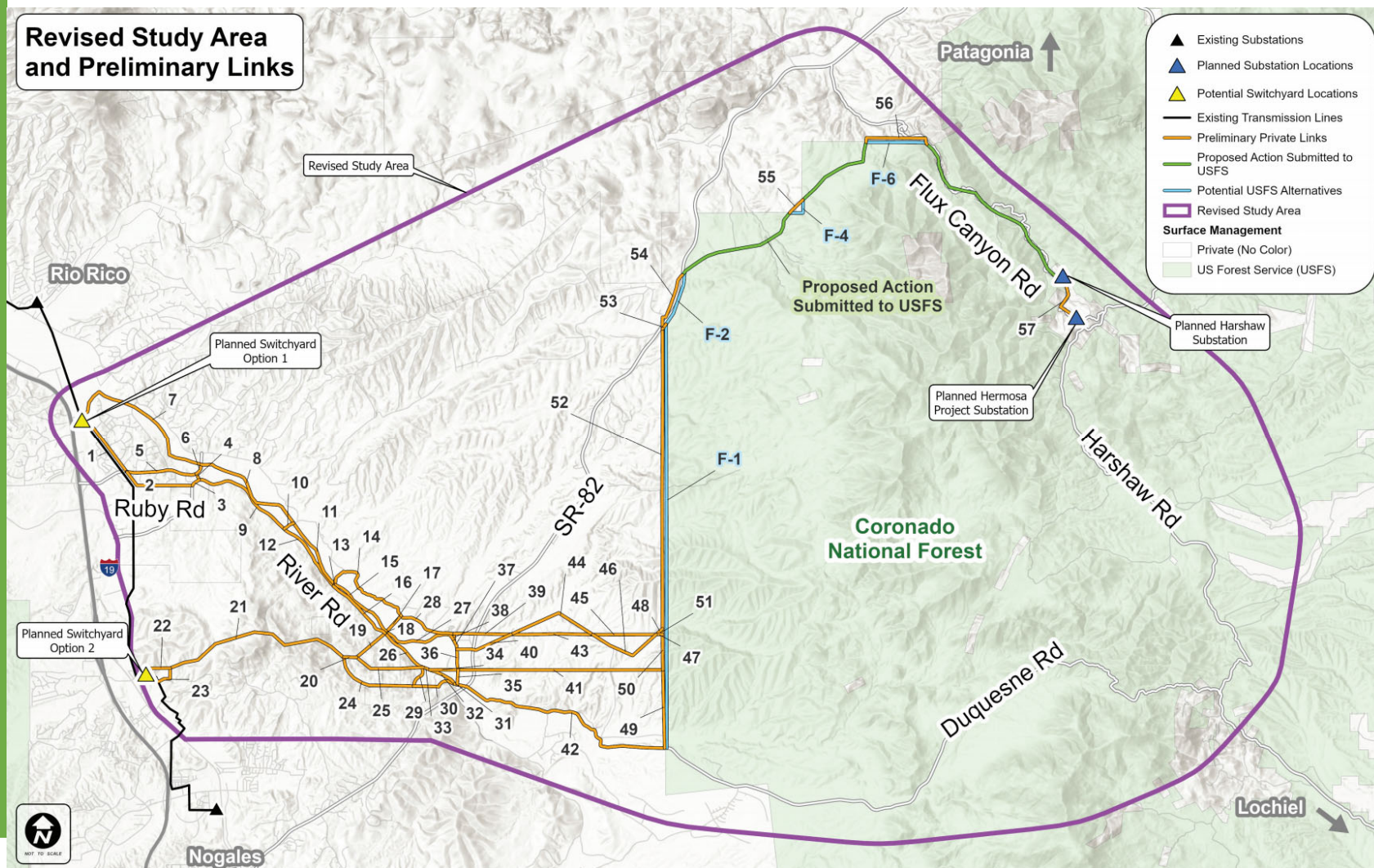
In addition to the design considerations on the previous slide, UNSE also analyzes specific criteria in developing and selecting alternative routes. These criteria include:

- Total environment (fish, wildlife, plants)
- Existing state, local government, and private development plans including residential use
- Noise
- Recreational impacts
- Scenic areas, historic sites & structures, archaeological sites
- Interference with communication facilities
- Technical aspects
- Cost
- Other applicable federal and state laws

Alternative Route Links Identification

- UNSE has identified 57 potential line route links that could be combined in various ways to form route alternatives, and eventually a final route
- Residents and other stakeholders are encouraged to use the identifying numbers in the map to share thoughts or concerns about specific line route links.
- Based on the results of criteria analysis and public/stakeholder comment, some links may be removed, others added, and alternative routes identified for future comment.
- UNSE has also identified a Proposed Action and submitted an application to the USFS for a route within the Forest.

Revised Study Area and Preliminary Links



MetroQuest Survey Application

Rio Rico-Harshaw 138kV Transmission Line Project

More at: <https://www.uesaz.com/rio-rico-to-harshaw/>

1

WELCOME

Help Design Our Energy Grid

Learn more about this project before you begin the survey.

Project Summary

UNS Electric, Inc. (UNSE), a subsidiary of UniSource Energy Services, plans to construct and operate a new 138 kilovolt (kV) transmission line to serve the Hermosa Project and improve electric reliability for UNSE customers in the San Rafael Valley, Washington Camp, and Lochiel areas of Southern Arizona. The Project will connect to UNSE's existing 138 kV transmission system through the planned 138/13.2 kV Hermosa Substation.


Help Design Our Energy Grid

Here, you can learn more about the project before providing feedback.

Click through the buttons to learn more.

Next

AMU will be responsible for the development and construction costs associated with the transmission line. Project costs will not be incorporated into rates paid by UNSE customers.



2

CRITERIA RANKING

3

ROUTE LINKS - PRIVATE LAND

4

ROUTE LINKS - CORONADO FOREST

5

FINAL THOUGHTS

[Privacy](#) - [About MetroQuest](#)

Rio Rico-Harshaw 138kV Transmission Line Project

More at: <https://www.uesaz.com/rio-rico-to-harshaw/>

2

CRITERIA RANKING

3

ROUTE LINKS - PRIVATE LAND

4

ROUTE LINKS - CORONADO FOREST

5

FINAL THOUGHTS

Route Links on and adjacent to Private Land

To comment on a link, please zoom in or out, then drag and drop a map marker

Like

Comment

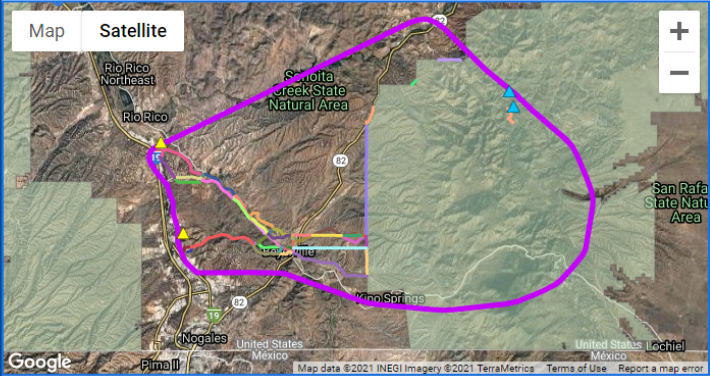
Concern

Sensitive Receptor

Important Resource


Map

Satellite



Legend

[Privacy](#) - [About MetroQuest](#)

**UniSourceEnergy**
SERVICES

<https://www.uesaz.com/rio-rico-to-harshaw/>

19

Schedule

- Q3 2020-Q2 2021: Outreach, Preliminary studies, Preliminary route development
- Q2 2021-Q2 2022: Outreach, Environmental Analysis/Documentation
- Q2 2022: ACC CEC Application, Line Siting Hearing (Aug 2022)
- Q4 2022: ACC Decision, USFS NEPA Determination
- Q4 2022-Q3 2023: Engineering design, Right-of-Way acquisition, Permitting
- Q4 2023-Q4 2024: Construction
- December 2024: Project In-service Date

How to Comment

- Seeking input and comment on:
 - Opportunities & Constraints related to links
 - Any other concerns
- Comment by:
 - Mail a comment form or a letter to: UniSource Energy Services ATTN: Rio Rico-Harshaw
PO Box 711 Tucson, AZ 85702
 - Send comments to RR2Harshaw@uesaz.com
 - Visit uesaz.com/rio-rico-to-harshaw and fill out an online comment form
 - Call 1-833-783-0396 and leave a voicemail message in English
 - Deje un mensaje al 520-918-8399 y le regresaran su llamada

More Project Information

For more project information please visit the project webpage:

<https://www.uesaz.com/rio-rico-to-harshaw/>

Here, you will find:

- Project details including the project newsletter
- A print copy and recording of this and previous presentations
- Commonly asked questions & answers
- A link to the MetroQuest Survey

In future, you will find:

- Resource studies and analyses
- Public and stakeholder comments and UES responses

Questions?

Meeting Coordinators Available

Please raise hand to ask a question.

A recording of the meeting will be available on the Project webpage after Monday, May 17th. It can be found at the following location:

<https://www.uesaz.com/rio-rico-to-harshaw/>

**Application for a Certificate of Environmental
Compatibility**

**Rio Rico to Harshaw
138 Kilovolt Transmission Line Project**

Exhibit J-11

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Rio Rico to Harshaw 138kV Transmission Line Project

OPEN HOUSE MEETING #3

AUGUST 25, 2022



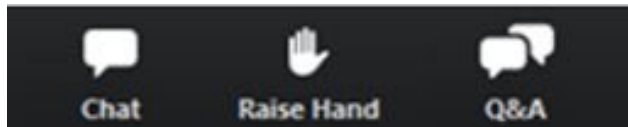
August 2022

Rio Rico to Harshaw 138kV Transmission Line Project

Asking Questions and Submitting Comments

- Asking a WRITTEN question:

- Click the “Q&A” button
- Type your question
- Select “send”
- Moderator will facilitate answering questions at the end of the presentation



- Asking a VERBAL question:

- Raise your hand using “Raise Hand” button or *9 from the phone
- Moderator will call your name if submitted online or call out your last 4 digits of phone number
- Unmute your microphone by clicking the unmute button (online) or by pressing *6 (phone) to ask your question
- Verbal comments will be limited to two minutes



Agenda

- Introductions
- Purpose and Need
- USFS Application Process
- Line Siting Process
- Revised Links & Project Description
- Preliminary Route Links
- Routing Criteria
- Project Details: Switchyard
- Project Details: Transmission Line
- Schedule
- More Information
- How to Comment
- Questions

Purpose and Need

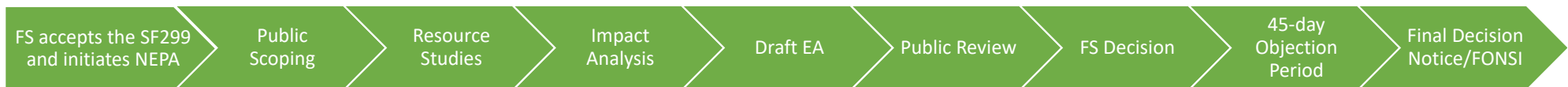
- Respond to a service request to serve the Hermosa Project, a mine exploration project currently in the pre-feasibility phase.
- Address service reliability for all electric customers in the San Rafael Valley, Washington Camp, and Lochiel areas of Southern Arizona.
- New, higher-voltage facilities would reduce potential reliability issues associated with inadequate voltage support.
- Provide additional capacity that could allow interconnections with future renewable energy projects while supporting economic development in the area.

USFS Application Process

1. Special Use Permit

2. National Environmental Policy Act (NEPA) Analysis

- Public Involvement (Scoping, DEA Review, Objection Period)
- Description of Proposed Action and Alternatives
- Disclosure of the Effects

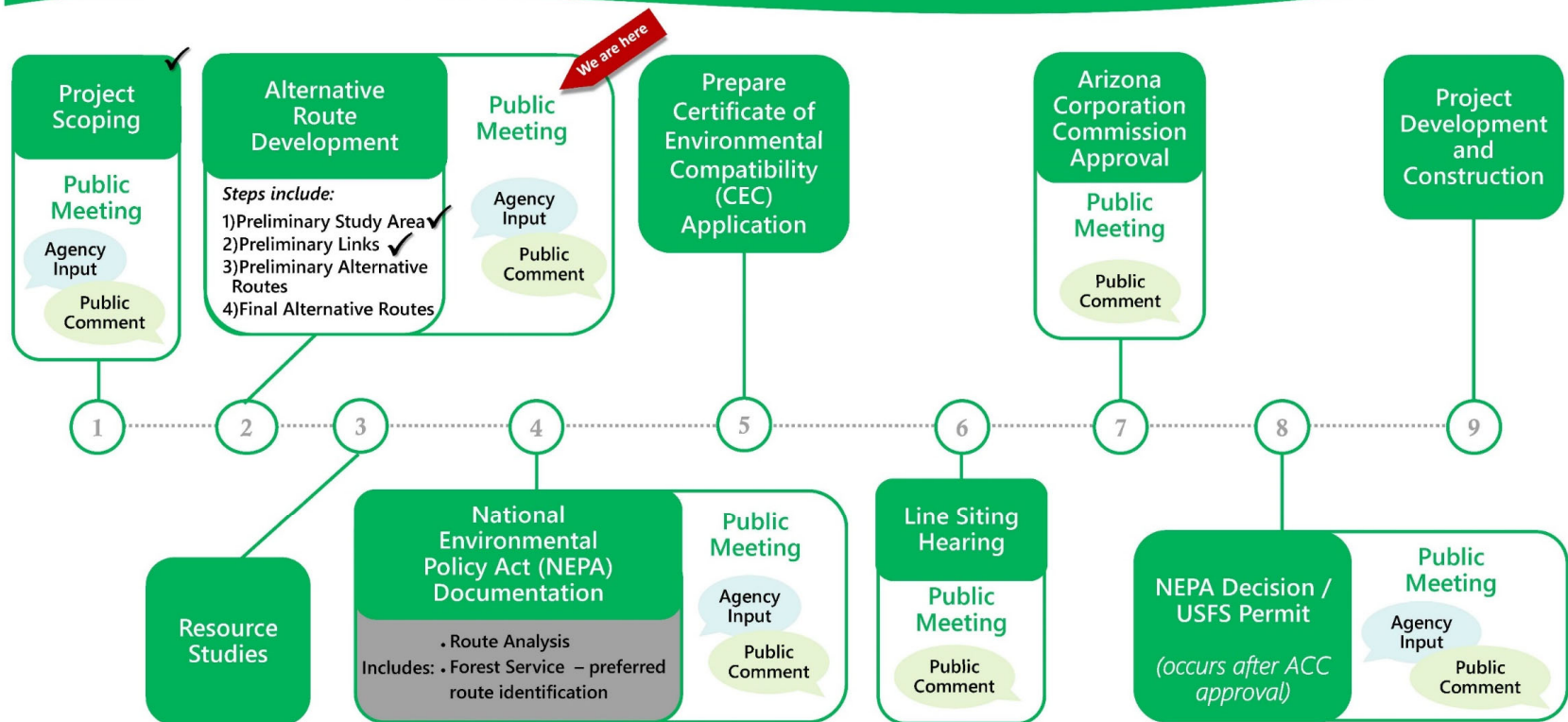


Line Siting Process

- UniSource's Line Siting Process
 - Determine routes through public outreach and environmental evaluation
- Arizona Corporation Commission Certificate of Environmental Compatibility
 - State required analysis to confirm route with most public benefit and least environmental impact

Rio Rico to Harshaw 138kV Transmission Line Project

UniSourceEnergy
SERVICES

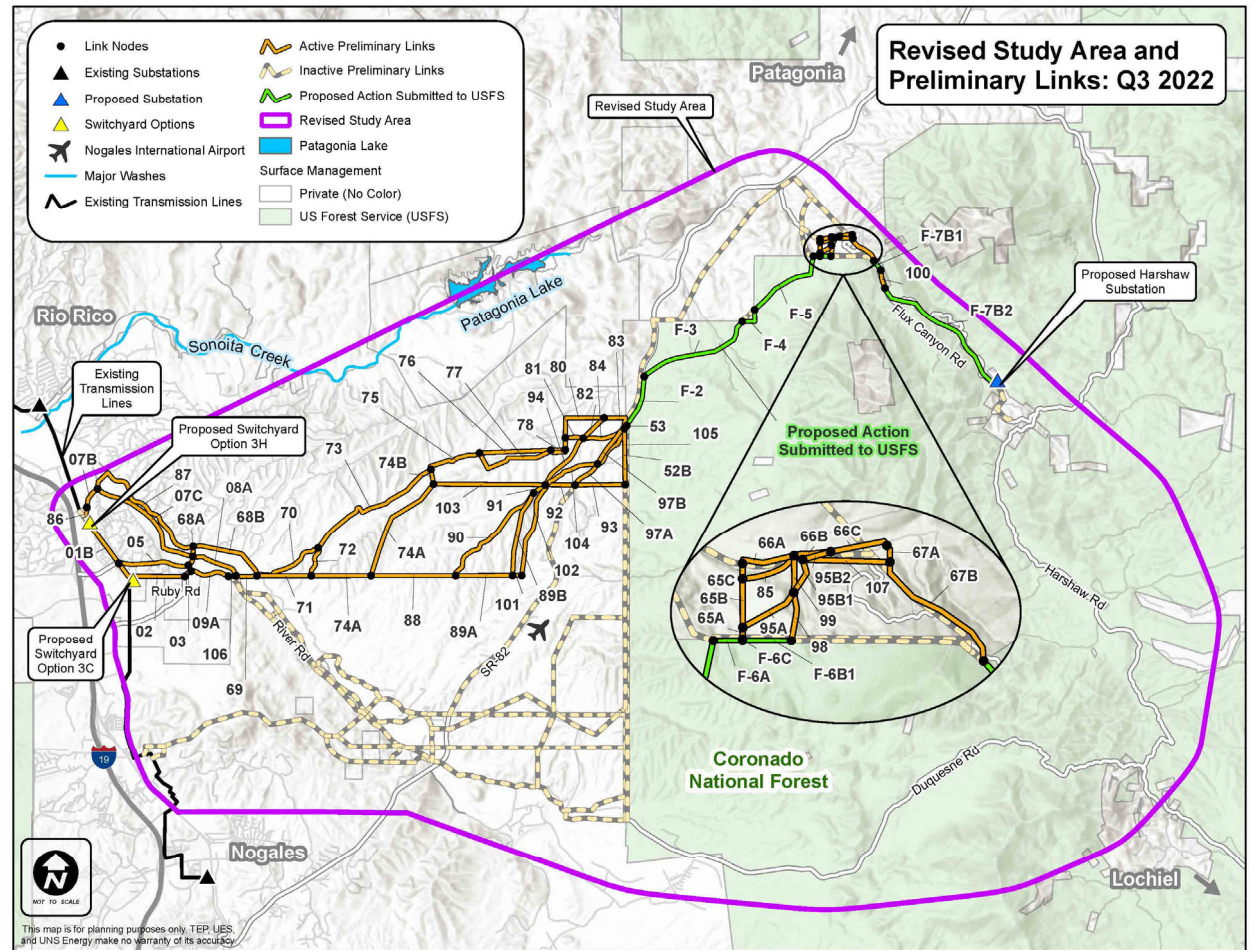


Revised Links & Project Description

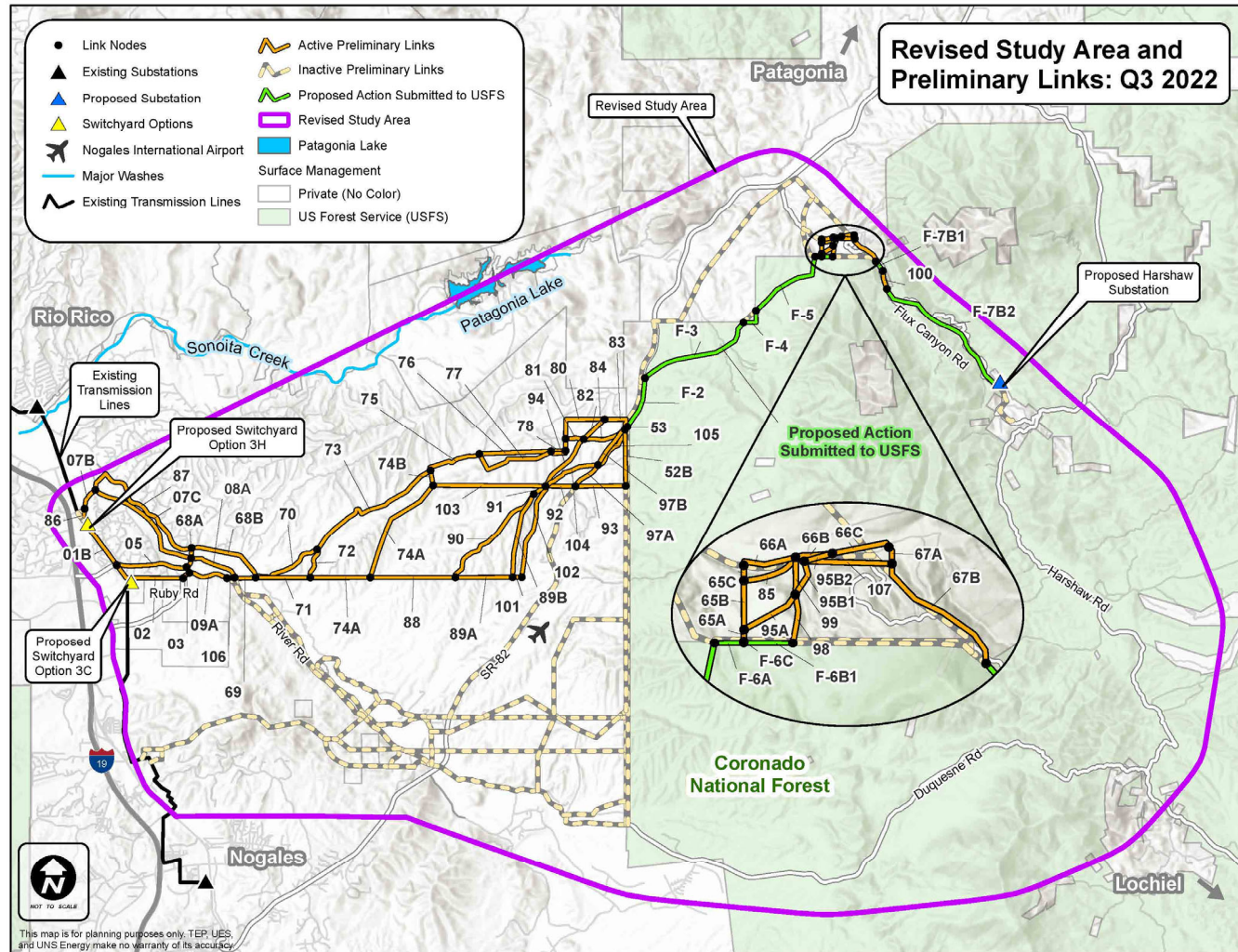
Additional links included for consideration as a result of public outreach and airport airspace requirements.

138kV transmission line between a planned switchyard in Rio Rico and the planned Harshaw Substation.

Approximately 20-30 mile, single-circuit 138 kV transmission line mounted on steel monopole structures.



Preliminary Route Links



Routing Criteria

In addition to the design considerations on the previous slide, UNSE also analyzes specific criteria in developing and selecting alternative routes. These criteria include:

- Total environment (fish, wildlife, plants)
- Existing state, local government, and private development plans including residential use
- Noise
- Recreational impacts
- Scenic areas, historic sites & structures, archaeological sites
- Interference with communication facilities
- Technical aspects
- Cost
- Other applicable federal and state laws

Project Details: Example Switchyard in the TEP system



Project Details: Transmission Line

- Self-weathering steel monopoles 75-110 feet tall.
- Up to 100-foot-wide right-of-way when not in road right-of-way.



Schedule

- Q3 2020-Q2 2021: Outreach, Preliminary studies, Preliminary route development
- Q2 2021-Q4 2022: Outreach, Environmental Analysis/Documentation, Links Development, Alternative Route Development
- Q1-2 2023: ACC CEC Application, Line Siting Hearing (Apr 2023)
- Q3 2023: ACC Decision
- Q3 2023-Q4 2023: Engineering design, Right-of-Way acquisition, Permitting
- Q4 2023: USFS NEPA Determination
- Q1 2024-Q4 2024: Construction
- December 2024: Project In-service Date

More Project Information

For more project information please visit the project webpage:

<https://www.uesaz.com/rio-rico-to-harshaw/>

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- Project details including the project newsletter
- A print copy and recording of this presentation
- Commonly asked questions & answers

In future, you will find:

- Resource studies and analyses
- Public and stakeholder comments and UES responses

How to Comment

- Mail a comment form or a letter to: UniSource Energy Services ATTN: Rio Rico-Harshaw PO Box 711 Tucson, AZ 85702
- Send comments to RR2Harshaw@uesaz.com
- Visit uesaz.com/rio-rico-to-harshaw and fill out an online comment form
- Call 1-833-783-0396 and leave a voicemail message in English
- Deje un mensaje al 1-833-783-0396 y le regresaran su llamada

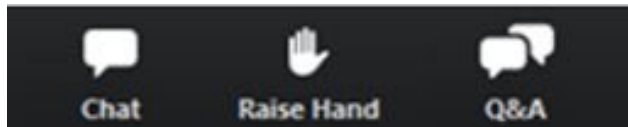
Questions?

Rio Rico to Harshaw 138kV Transmission Line Project

Asking Questions and Submitting Comments

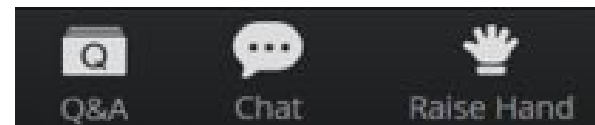
- Asking a WRITTEN question:

- Click the “Q&A” button
- Type your question
- Select “send”
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- Asking a VERBAL question:

- Raise your hand using “Raise Hand” button or *9 from the phone
- Moderator will call your name if submitted online or call out your last 4 digits of phone number
- Unmute your microphone by clicking the unmute button (online) or by pressing *6 (phone) to ask your question
- Verbal comments will be limited to two minutes



Questions?

**The team is standing by for
additional questions**

**Application for a Certificate of Environmental
Compatibility**

**Rio Rico to Harshaw
138 Kilovolt Transmission Line Project**

Exhibit J-12

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Rio Rico to Harshaw 138kV Transmission Line Project

OPEN HOUSE MEETING #4

NOVEMBER 17, 2022



August 2022

Purpose and Need

- Respond to a service request to serve the Hermosa Project, a mine exploration project currently in the pre-feasibility phase.
- Address service reliability for all electric customers in the San Rafael Valley, Washington Camp, and Lochiel areas of Southern Arizona.
- New, higher-voltage facilities would reduce potential reliability issues associated with inadequate voltage support.
- Provide additional capacity that could allow interconnections with future renewable energy projects while supporting economic development in the area.

Project Overview

138kV transmission line between a planned switchyard in Rio Rico and the planned Harshaw Substation.

Approximately 20-30 mile, single-circuit 138 kV transmission line mounted on steel monopole structures.



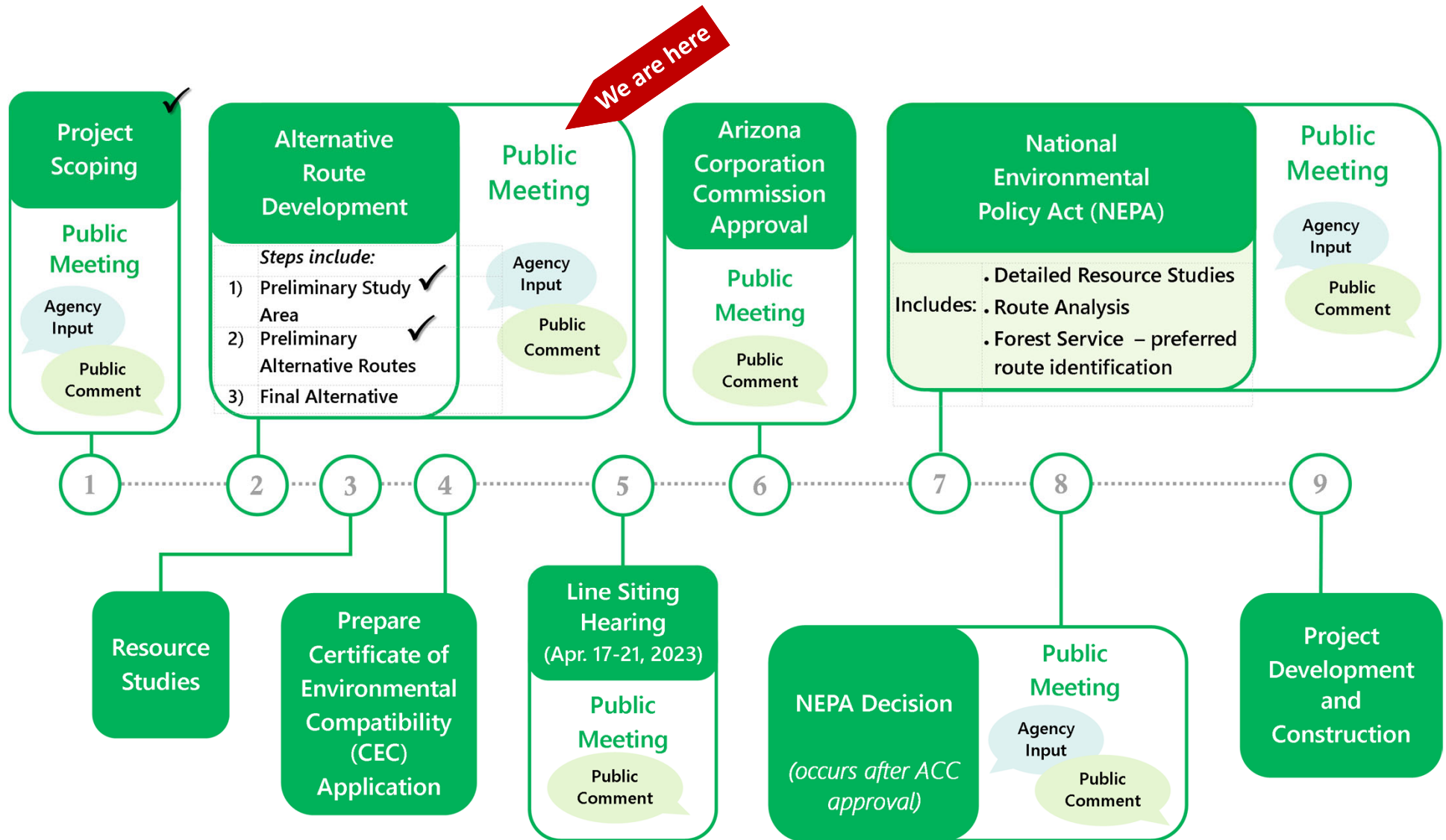
Project Details: Example Switchyard in the TEP system



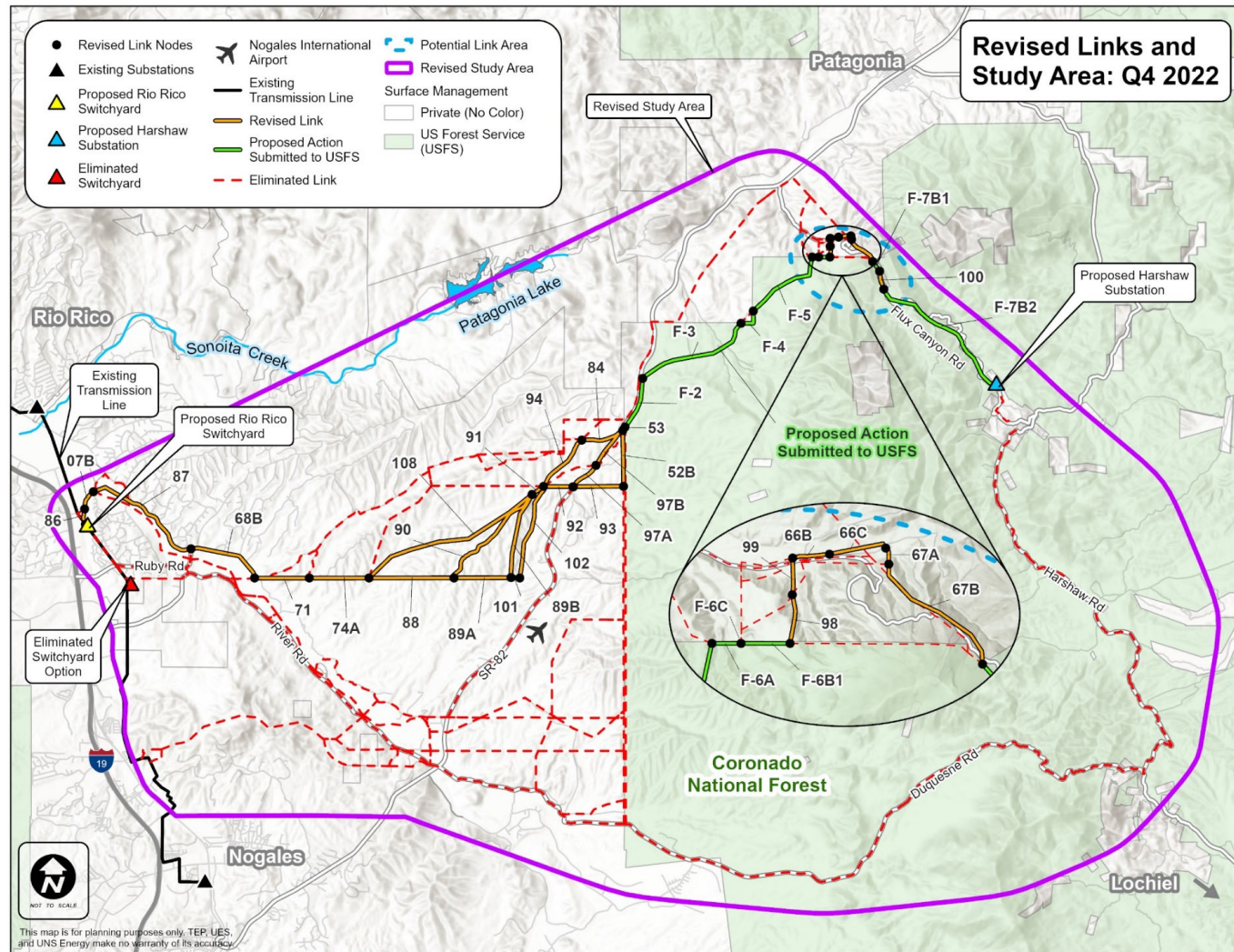
Project Details: Transmission Line

- Self-weathering steel monopoles 75-110 feet tall.
- Up to 100-foot-wide right-of-way when not in road right-of-way.





Line Siting – Revised Links



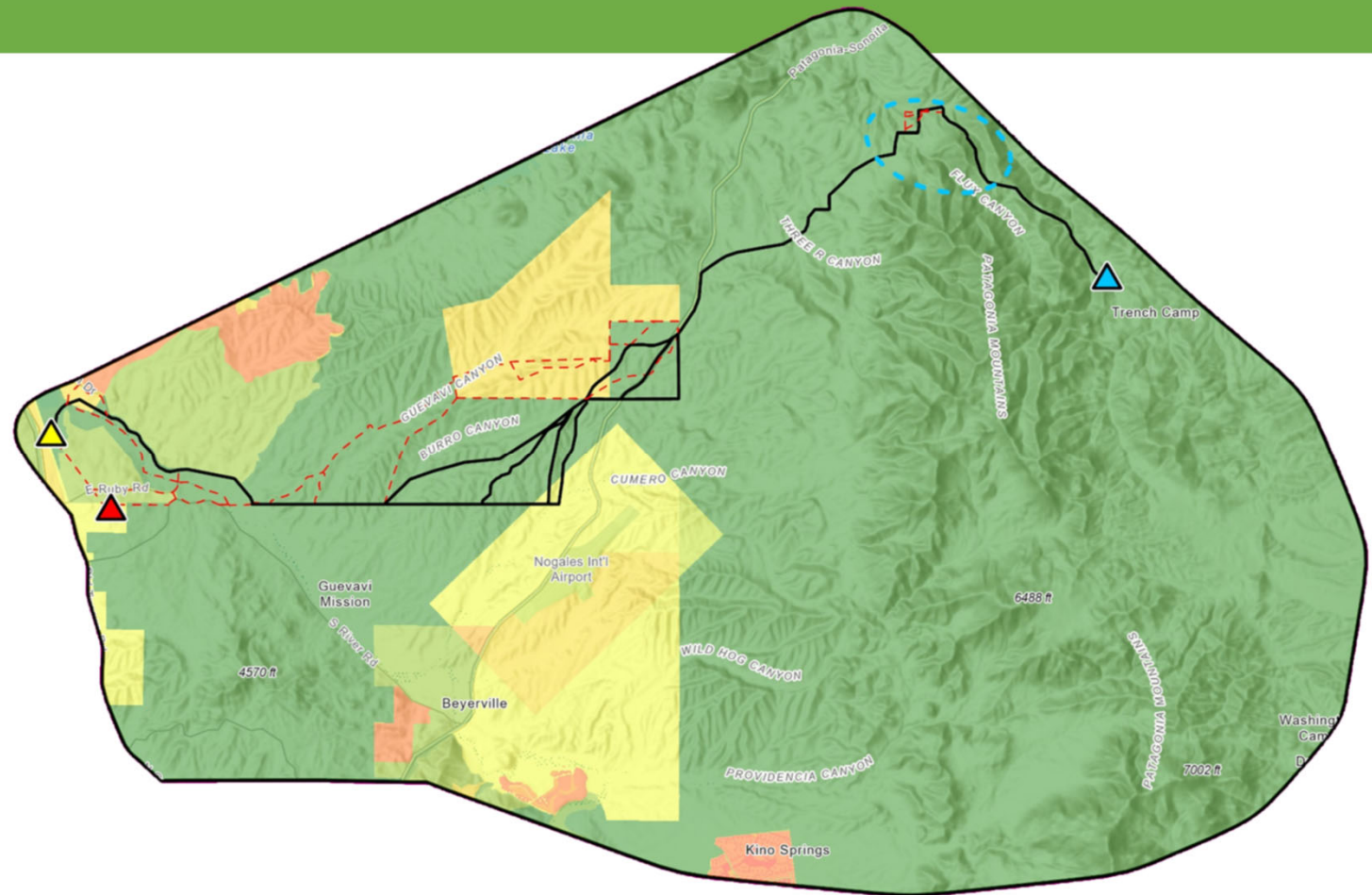
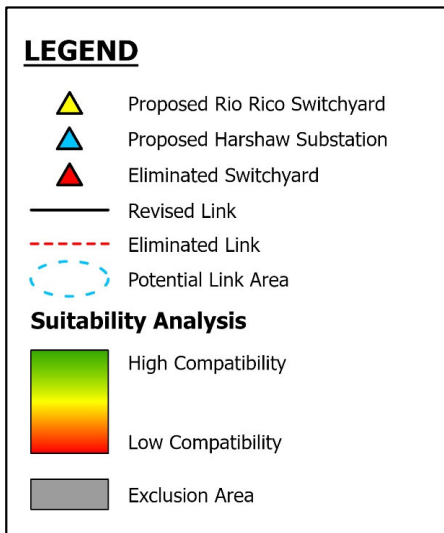
Routing Criteria

UNSE analyzes specific criteria in developing and selecting alternative routes.

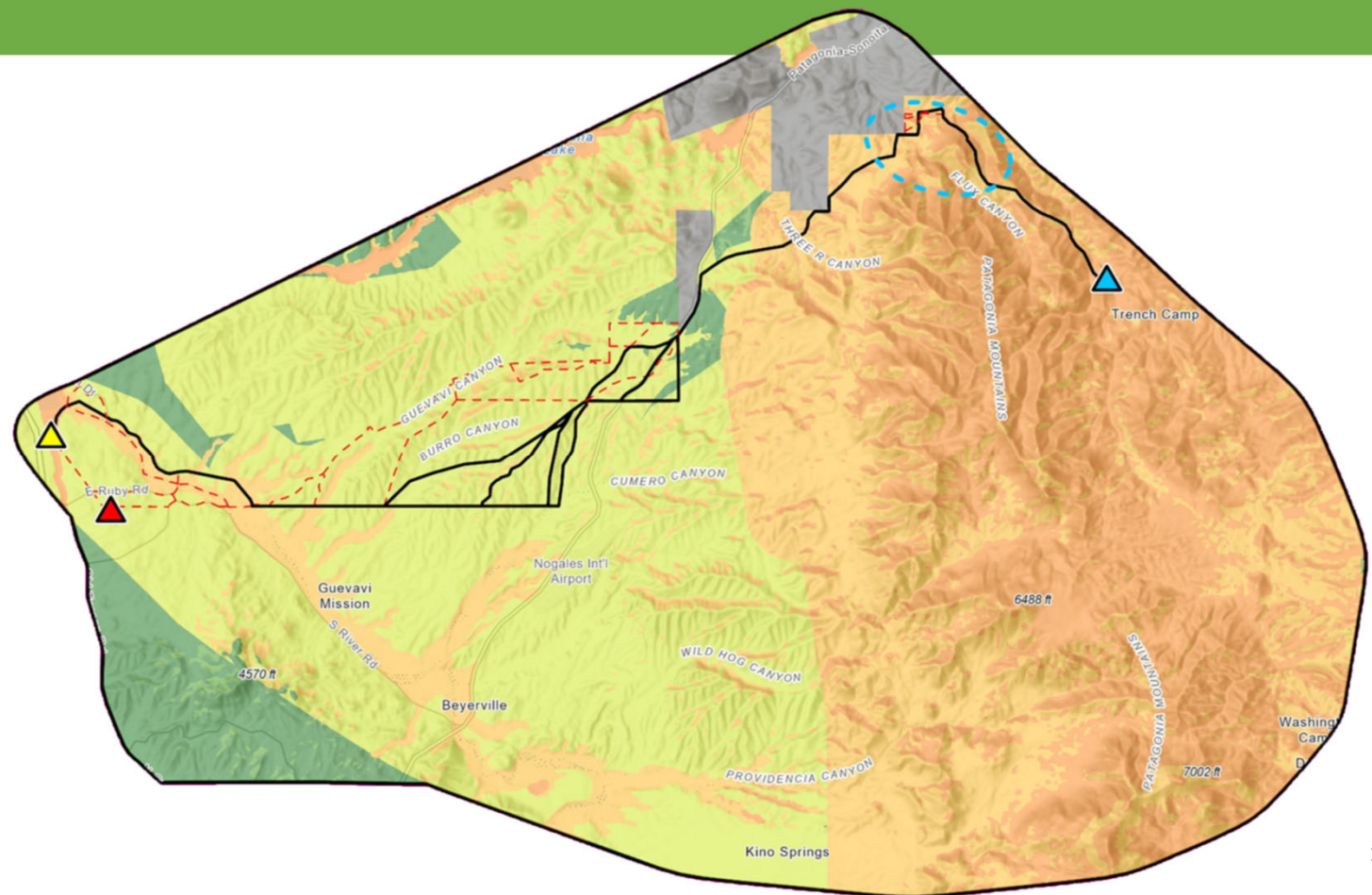
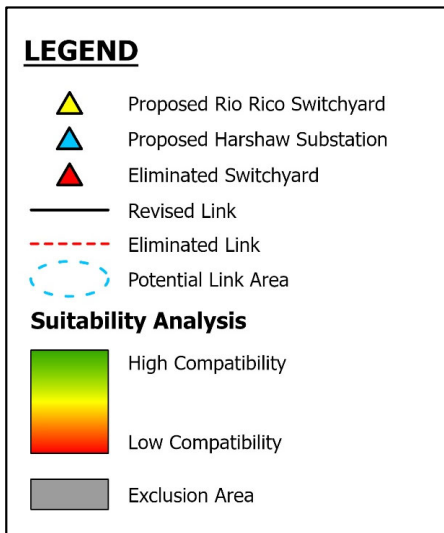
These criteria include:

1. Total environment (fish, wildlife, plants)
2. Existing state, local government, and private development plans including residential use
3. Noise
4. Recreational impacts
5. Scenic areas, historic sites & structures, archaeological sites
6. Interference with communication facilities
7. Technical aspects
8. Cost
9. Other applicable federal and state laws

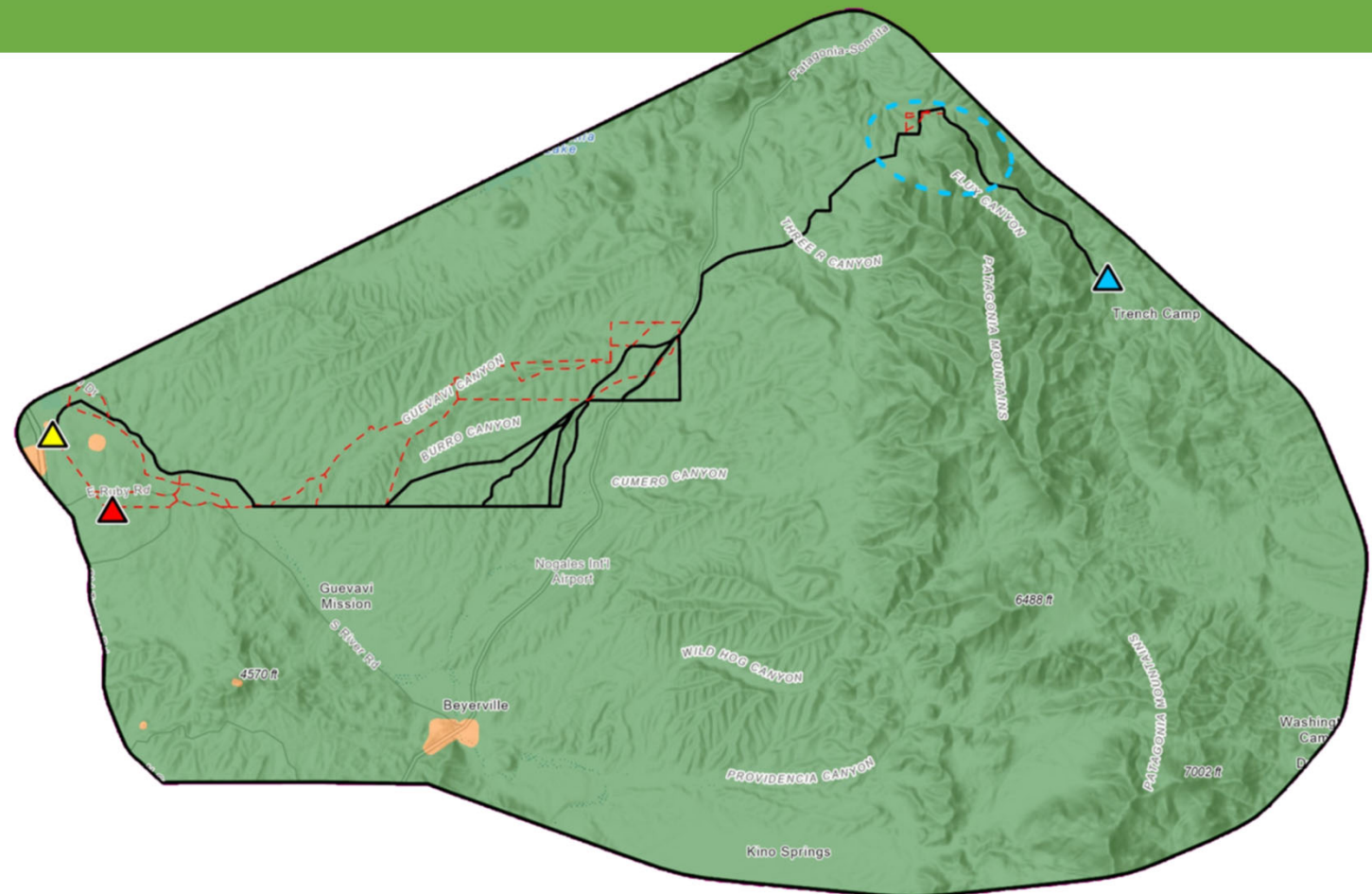
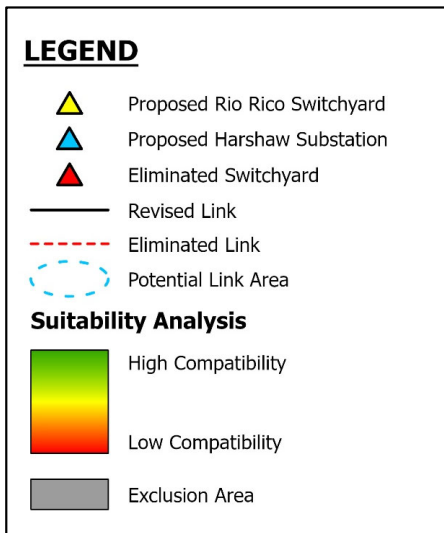
Criteria 1 – Existing Plans



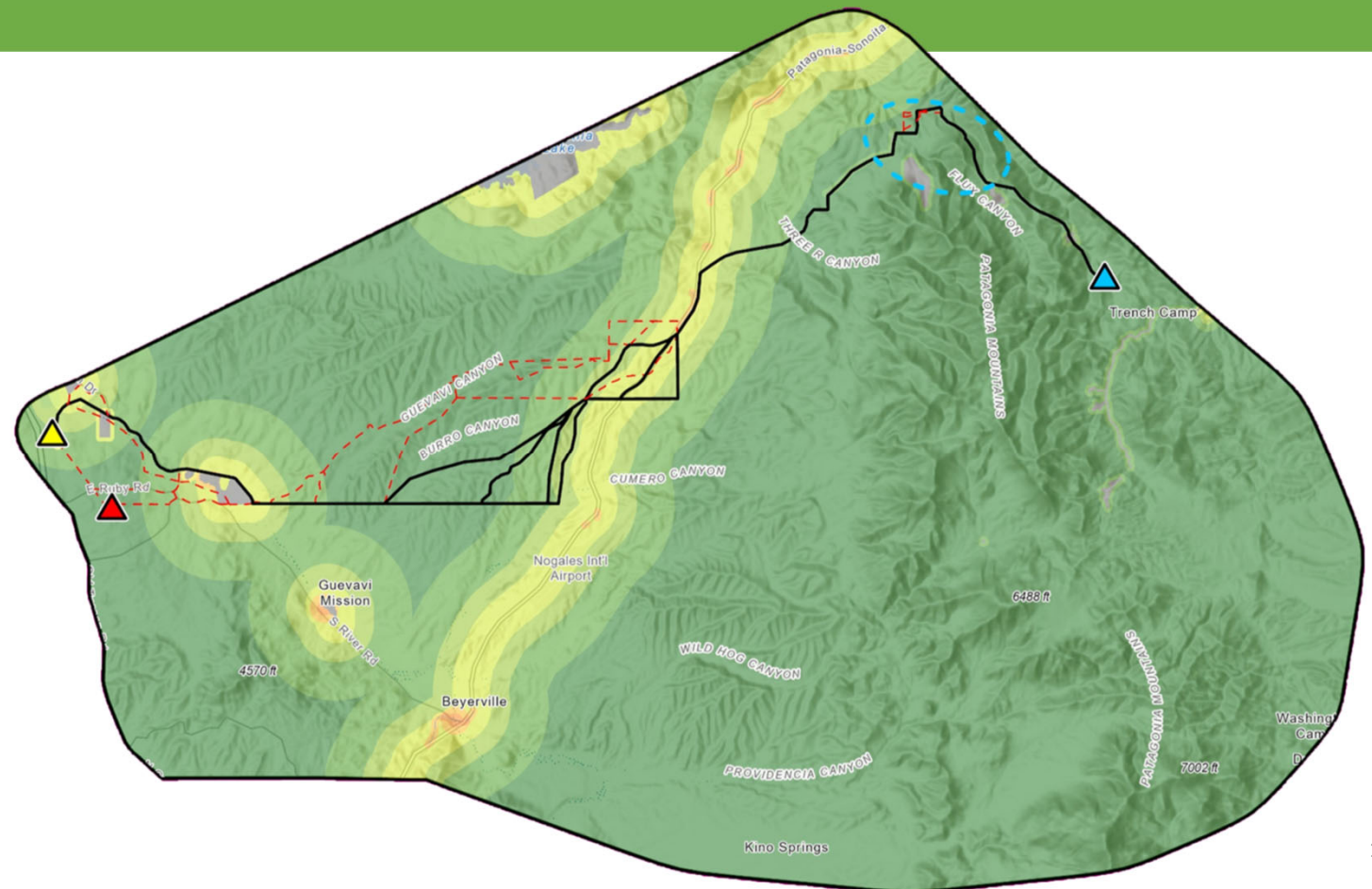
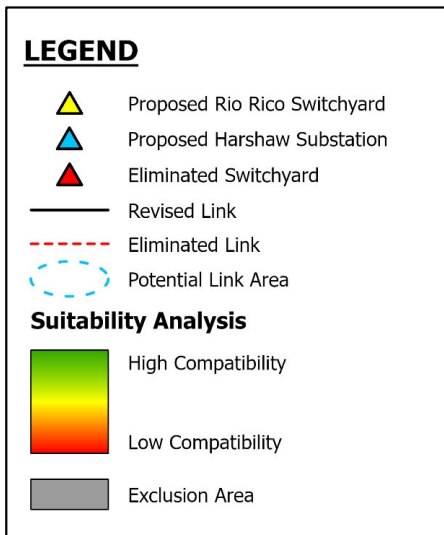
Criteria 2 – Biological Resources



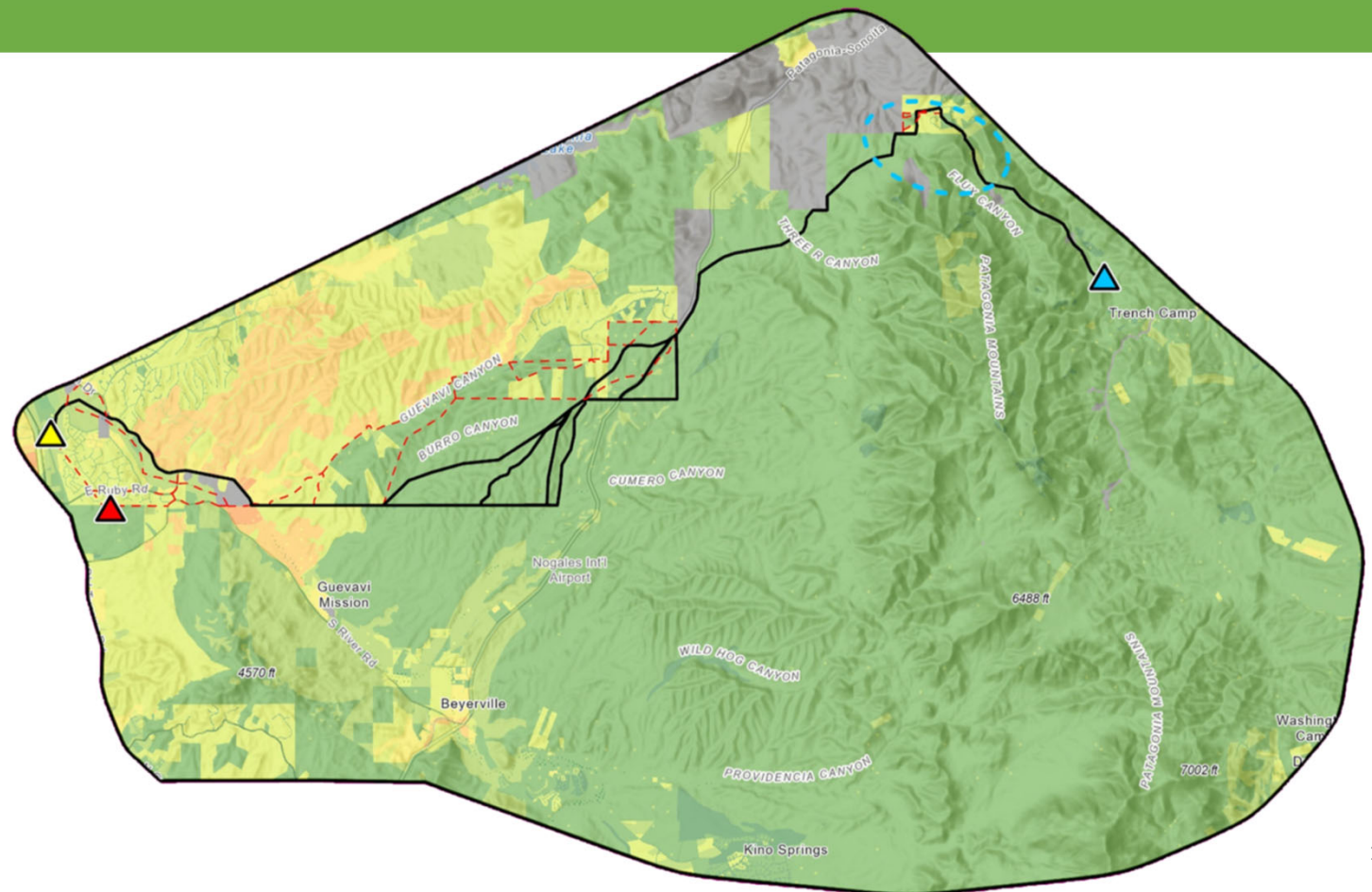
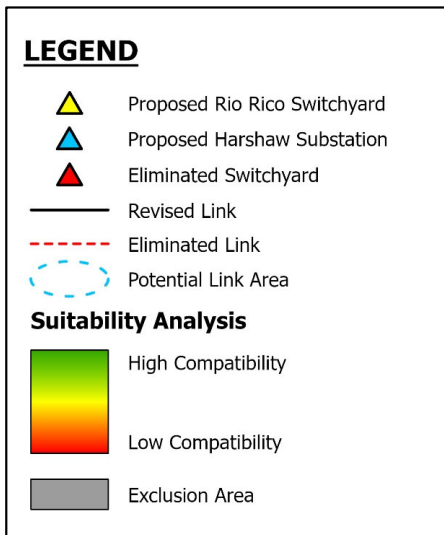
Criteria 3 – Noise & Communication



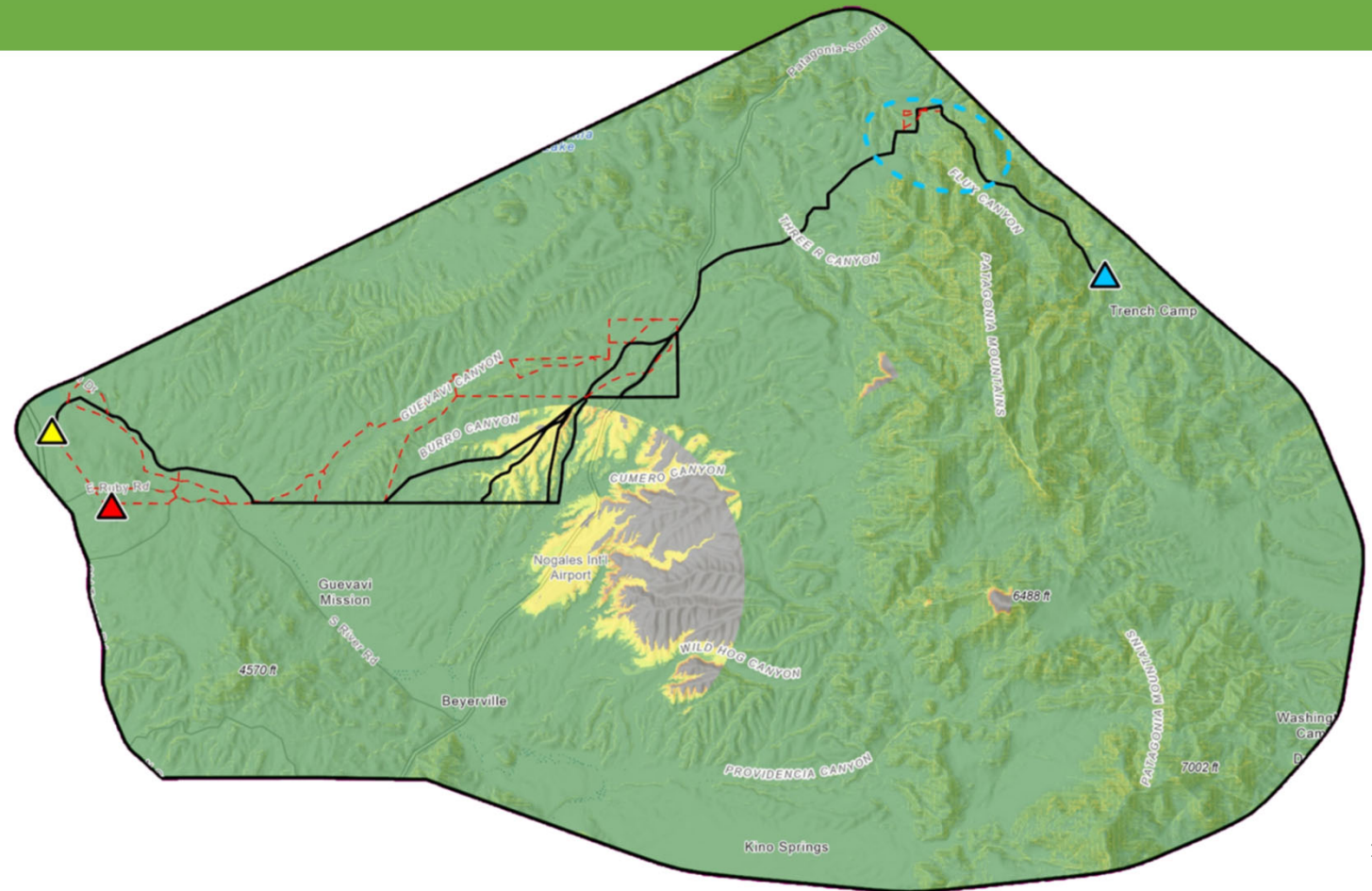
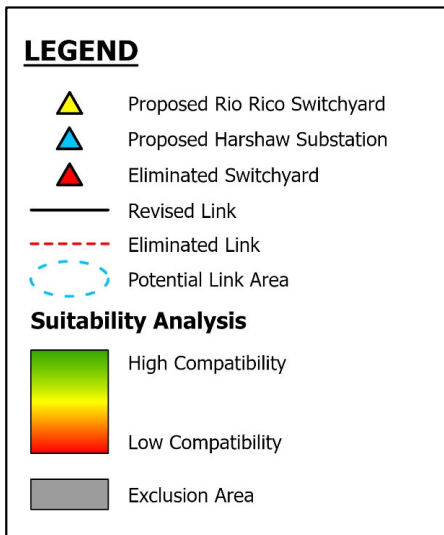
Criteria 4 – Scenic & Cultural Resources



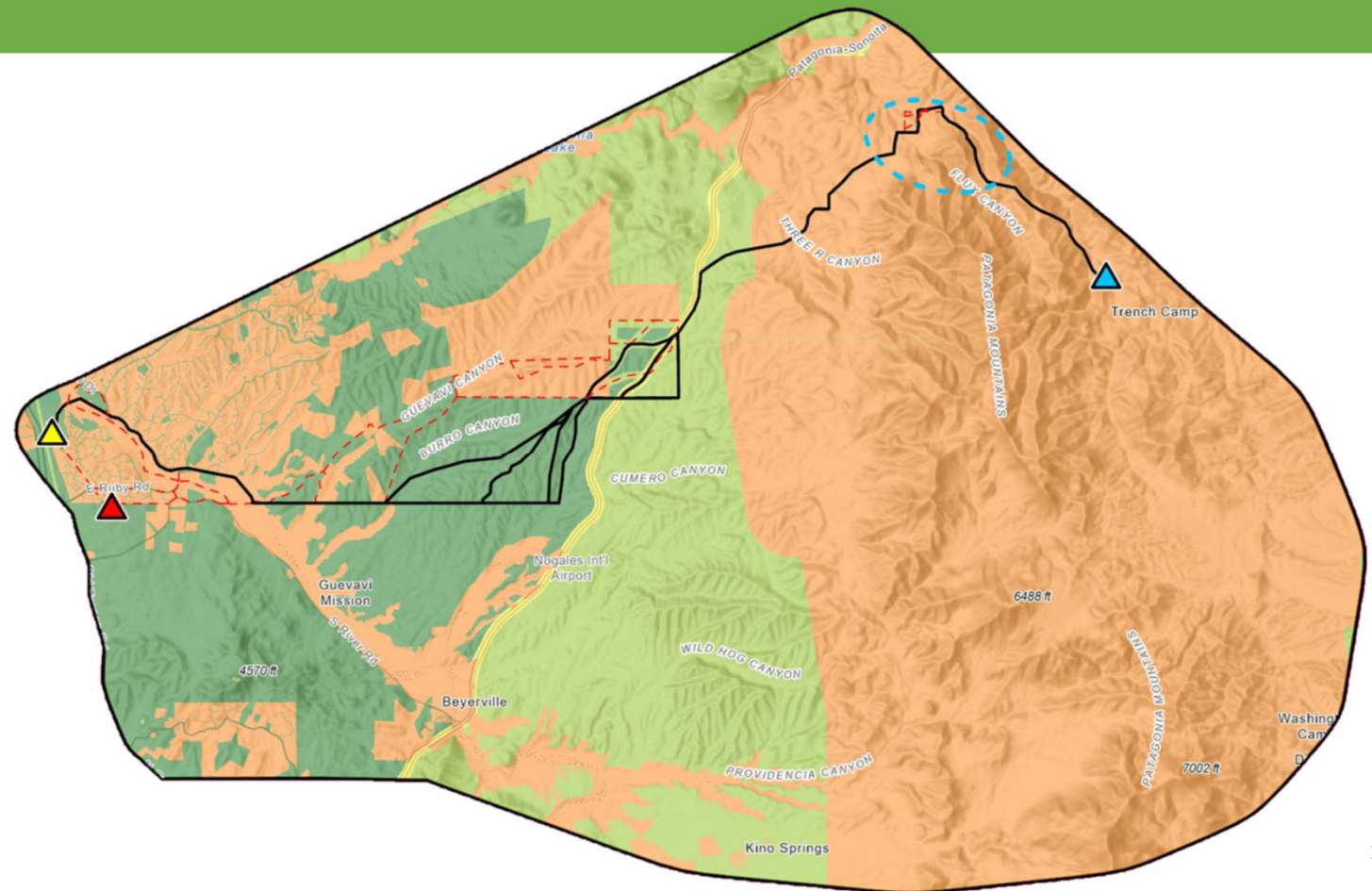
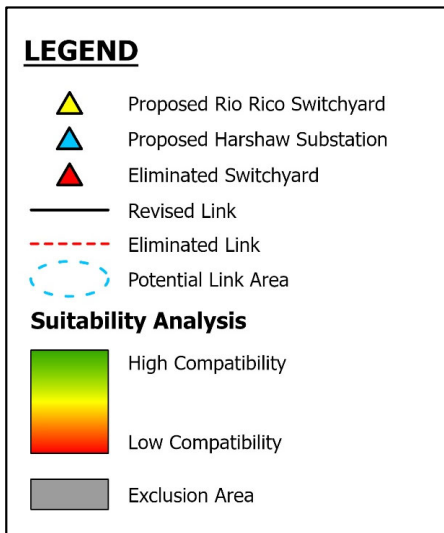
Criteria 5 – Total Environment



Criteria 6 – Construction & Maintenance



Criteria 7 – Outreach



Composite Suitability Models

Criteria models are weighted differently based on model and added together.

Criteria 7 x Weight



Criteria 6 x Weight



Criteria 5 x Weight



Criteria 4 x Weight



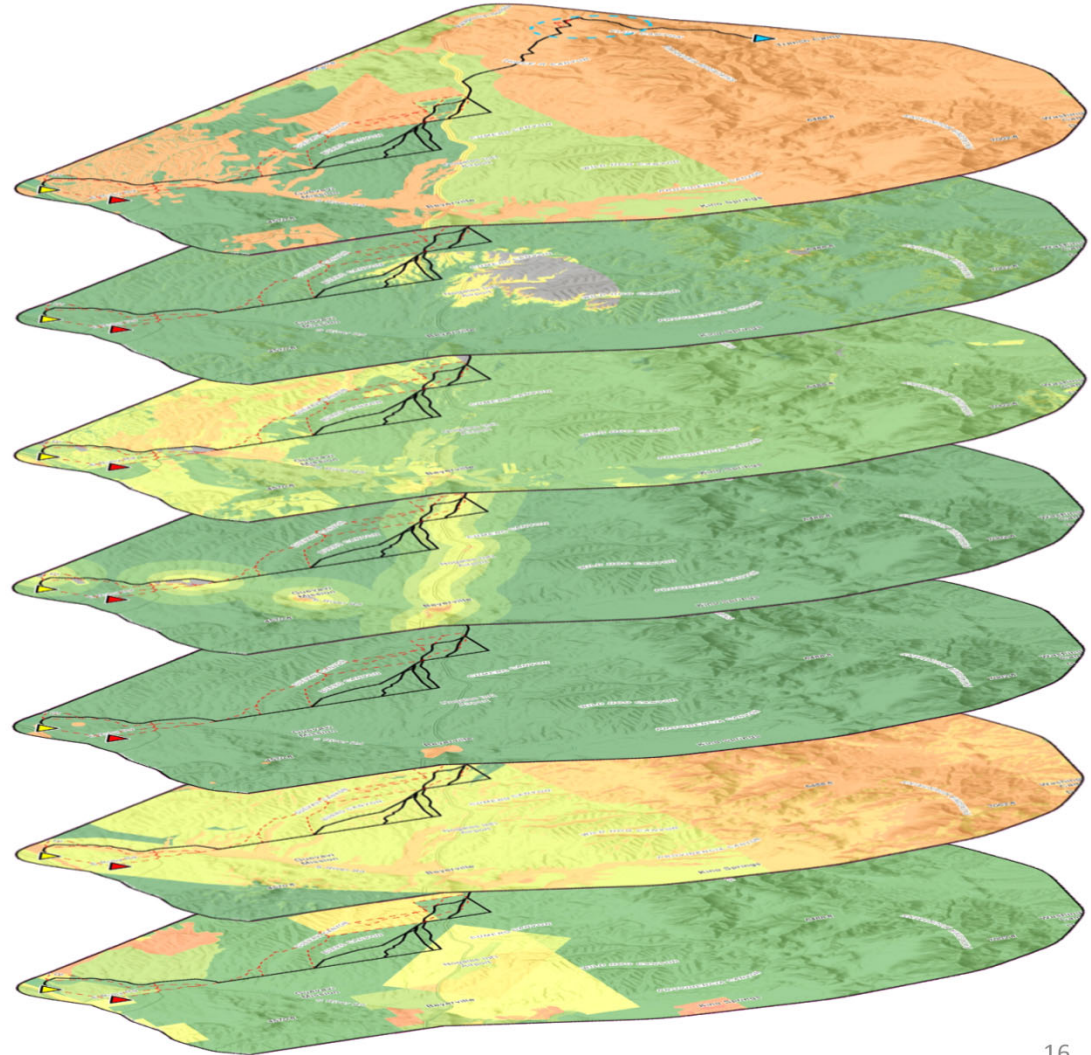
Criteria 3 x Weight



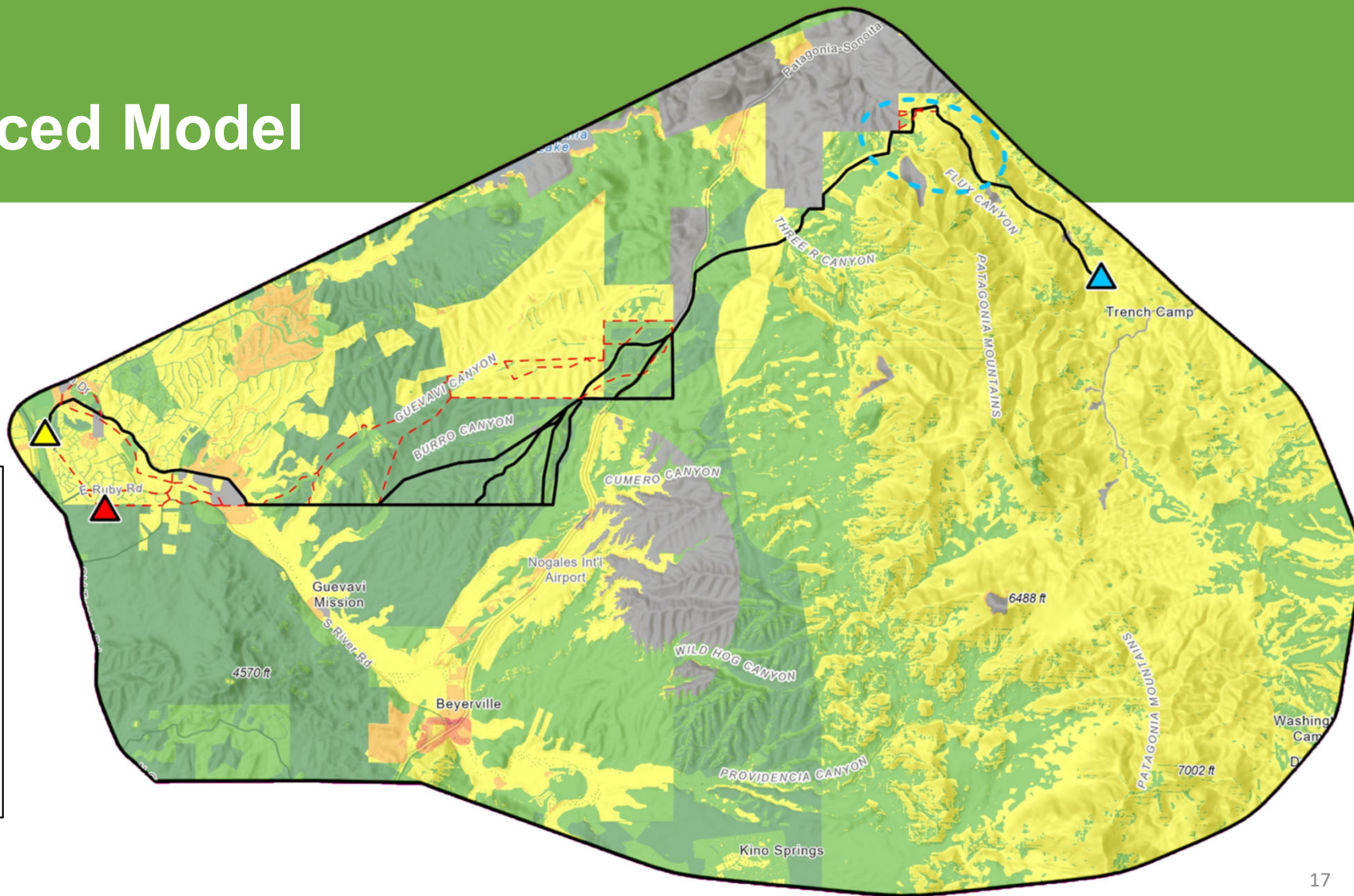
Criteria 2 x Weight



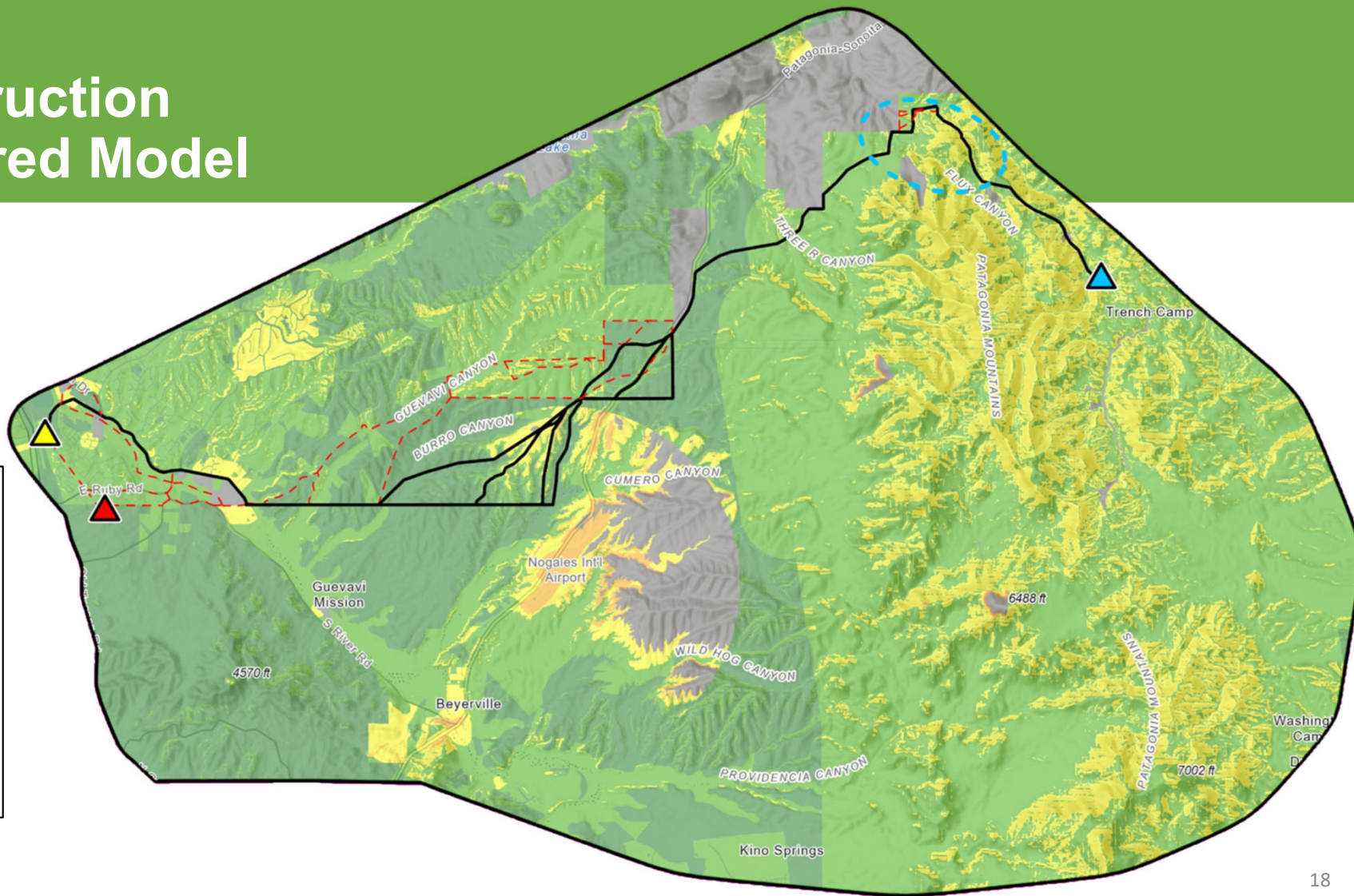
Criteria 1 x Weight



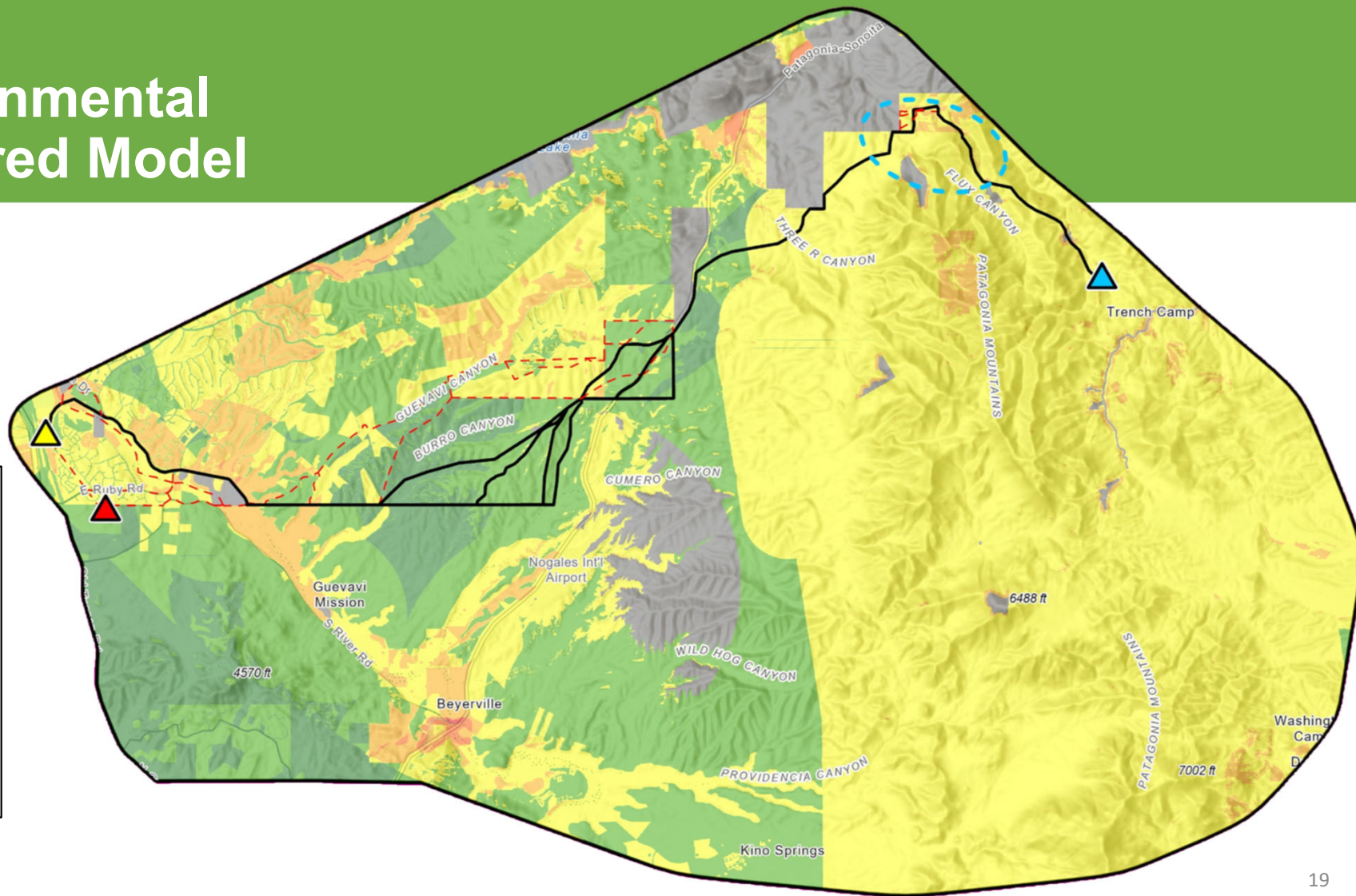
Balanced Model



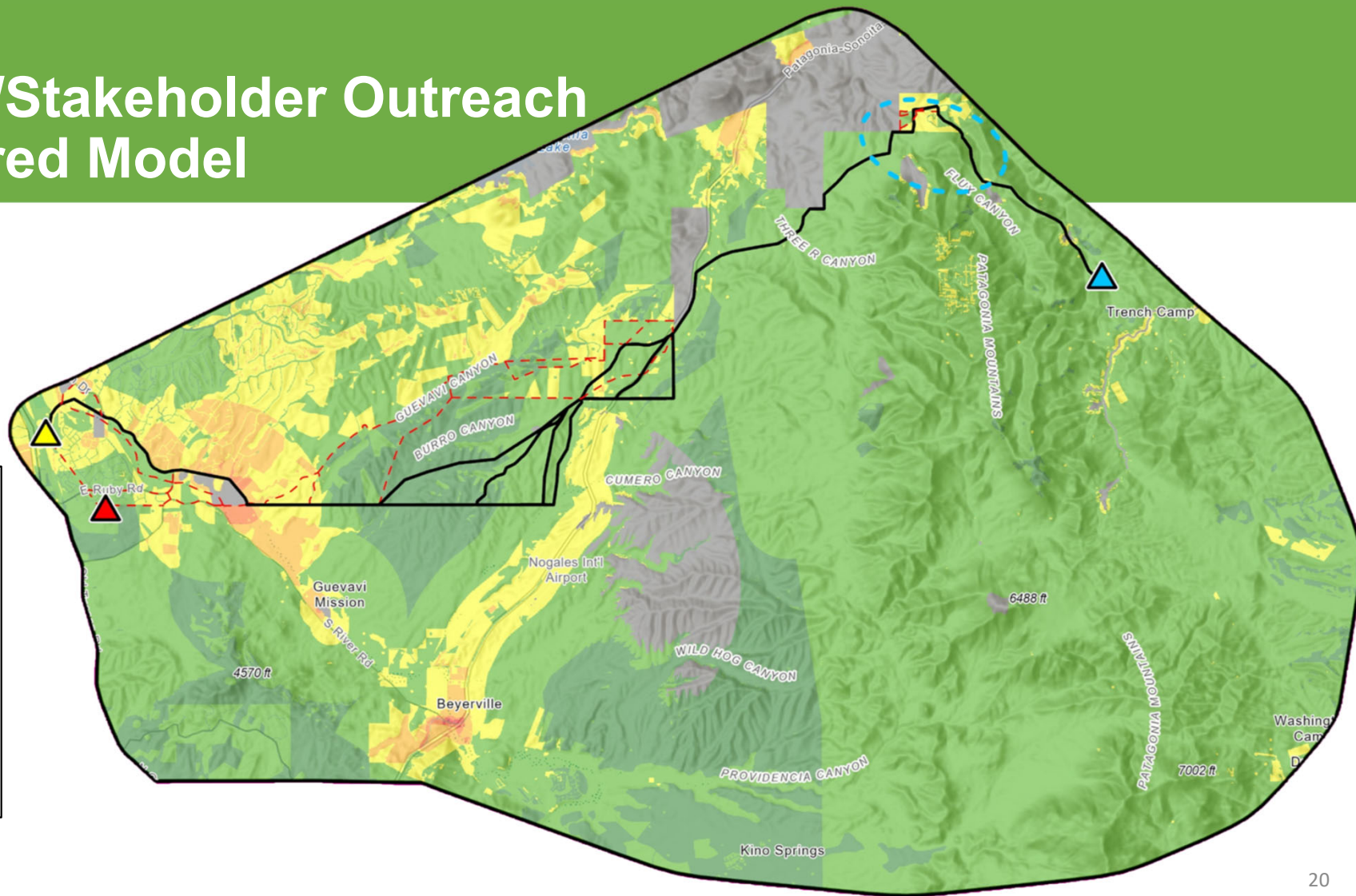
Construction Preferred Model



Environmental Preferred Model



Public/Stakeholder Outreach Preferred Model



Next Steps

- Nov. 2022 – Outreach on Revised Links
- Jan. 2023 – Preferred Route and Alternatives Routes
- March 3, 2023 – File Application for CEC
- April 17-21, 2023 – Line Siting Hearing
- May/June 2023 – ACC Approval of CEC

More Project Information

For more project information please visit the project webpage:

<https://www.uesaz.com/rio-rico-to-harshaw/>

Here, you will find:

- Project details including the project newsletter
- A print copy and of this presentation
- Commonly asked questions & answers
- Interactive survey link

How to Comment

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- Send comments to RR2Harshaw@uesaz.com
- Visit uesaz.com/rio-rico-to-harshaw and fill out an online comment form or use the Interactive Survey to provide further input
- Call 1-833-783-0396 and leave a voicemail message in English
- Deje un mensaje al 1-833-783-0396 y le regresaran su llamada

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**Application for a Certificate of Environmental
Compatibility**

**Rio Rico to Harshaw
138 Kilovolt Transmission Line Project**

Exhibit J-13

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Rio Rico to Harshaw 138kV Transmission Line Project

OPEN HOUSE MEETING #5

JANUARY 25, 2023



January 2023

Agenda

- Purpose and Need
- Project Overview
- Final Proposed Routes
- Siting Process – how we arrived at final proposed routes
- Next Steps

Purpose and Need

- Respond to a service request to serve the Hermosa Project, a mine exploration project currently in the pre-feasibility phase.
- Address service reliability for all electric customers in the San Rafael Valley, Washington Camp, and Lochiel areas of Southern Arizona.
- New, higher-voltage facilities would reduce potential reliability issues associated with inadequate voltage support.
- Provide additional capacity that could allow interconnections with future renewable energy projects while supporting economic development in the area.

Project Overview

138kV transmission line between a planned switchyard in Rio Rico and the planned Harshaw Substation.

Approximately 20 mile, single-circuit 138 kV transmission line mounted on steel monopole structures.



Project Details: Example Switchyard in the UNS system

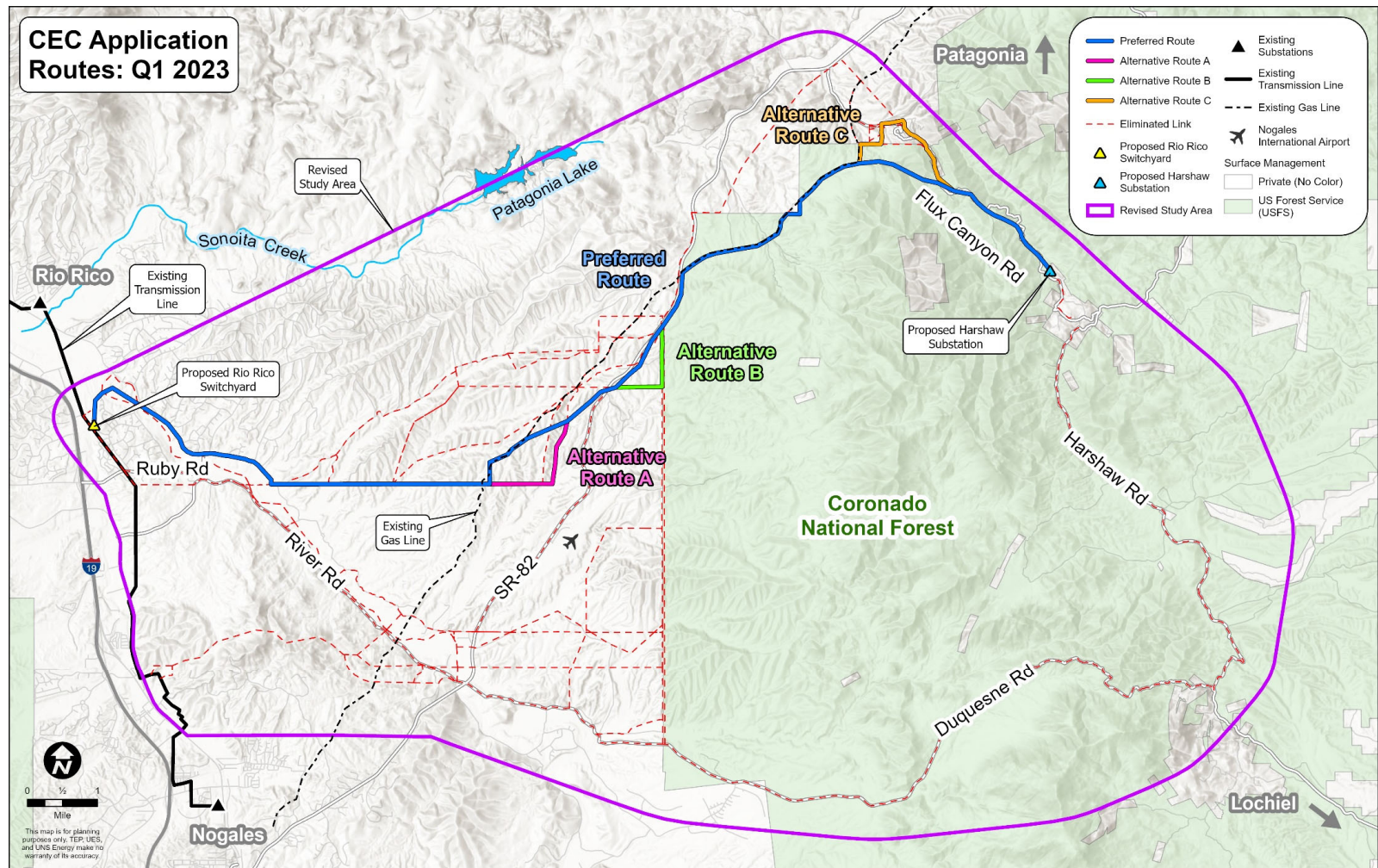


Project Details: Transmission Line

- Self-weathering steel monopoles 75-110 feet tall.
- Up to 100-foot-wide right-of-way when not in road right-of-way.

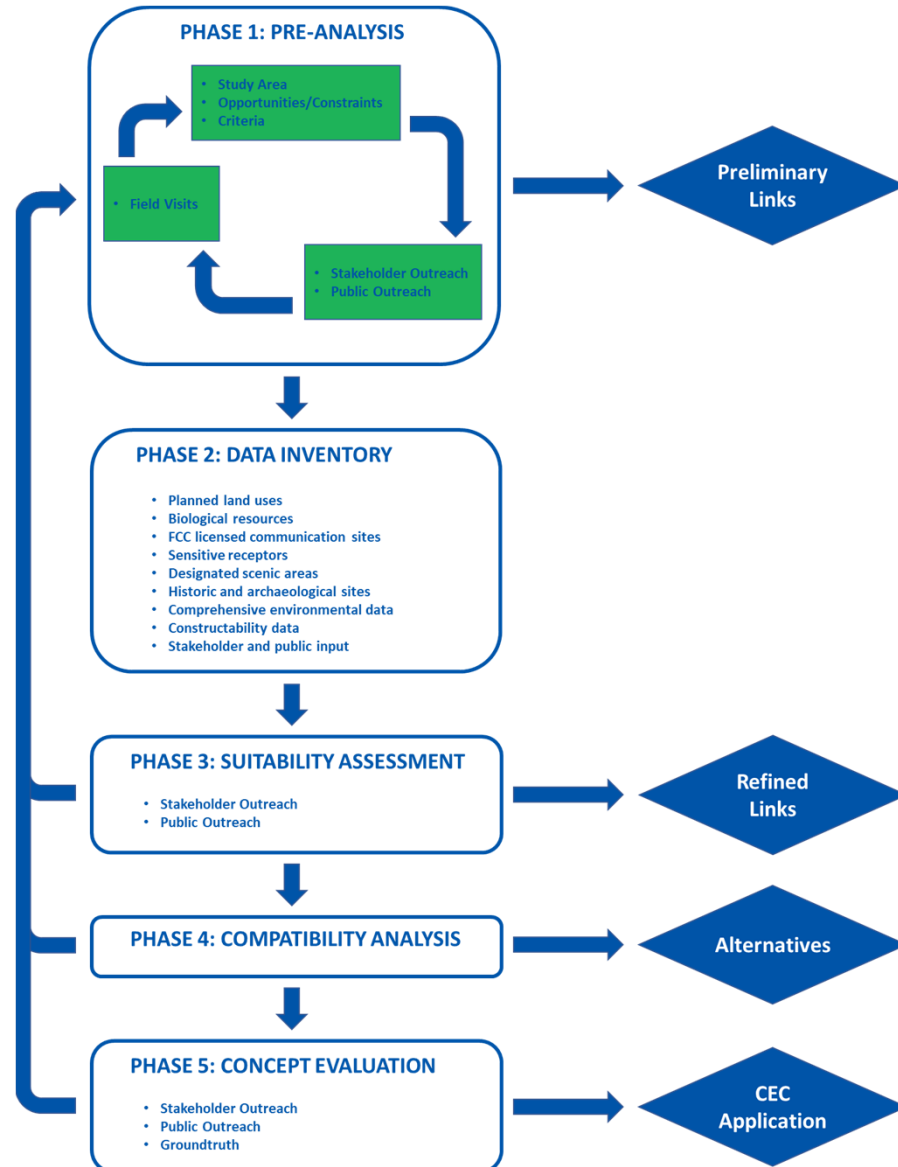


Line Siting – Final Proposed Routes

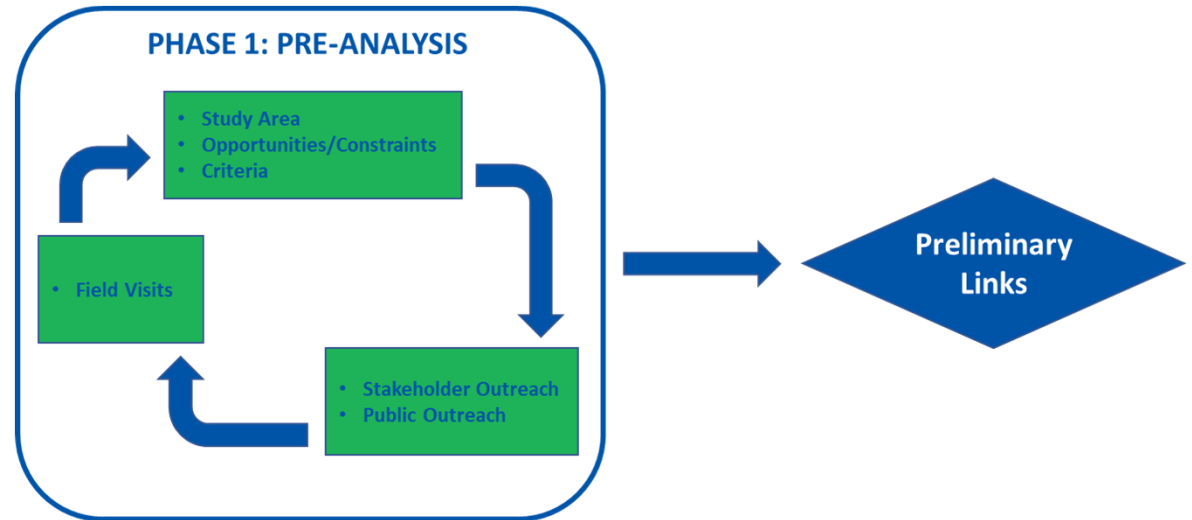
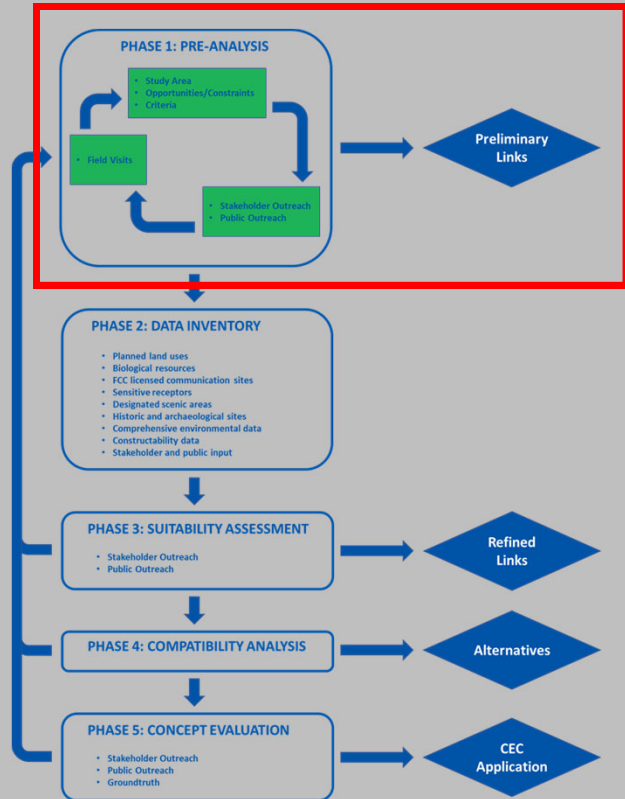


Siting Process

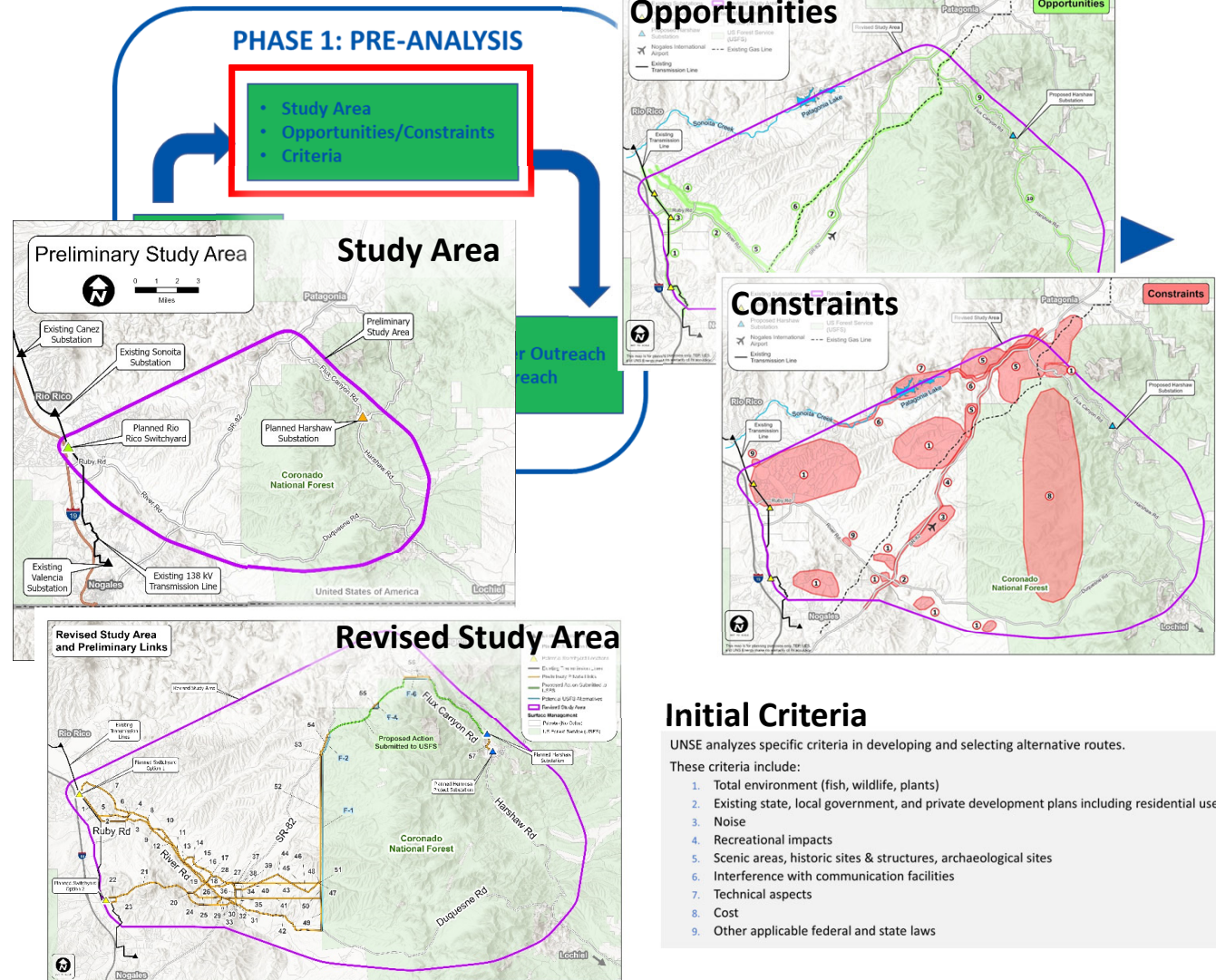
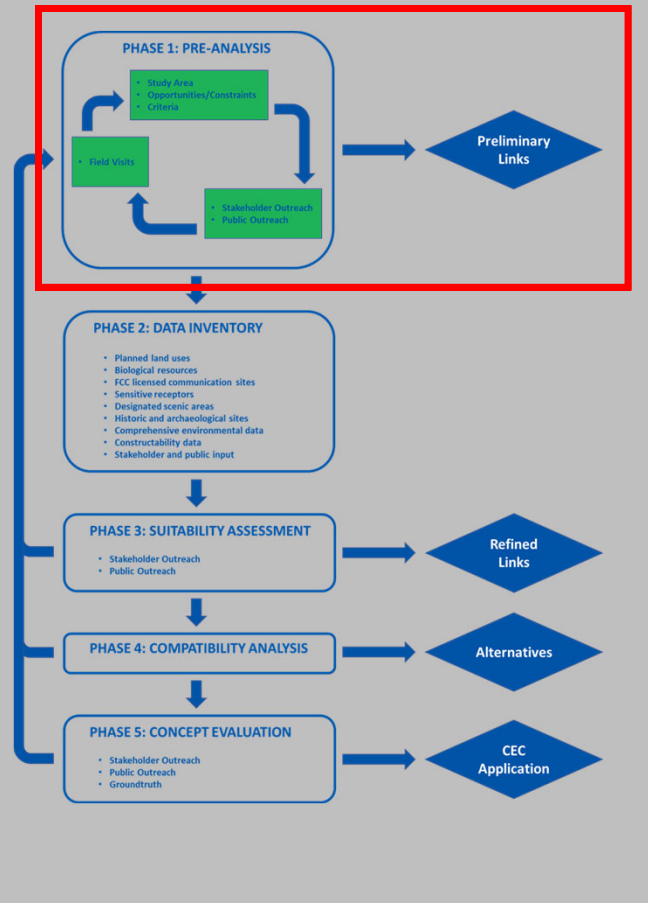
Environmental planning process followed to identify and assess potential transmission line routes.



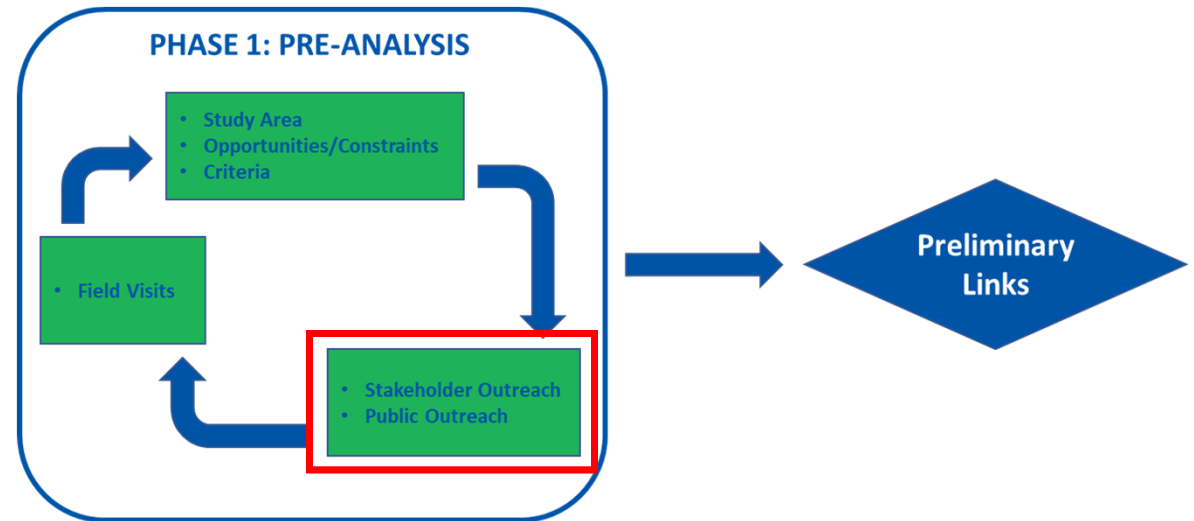
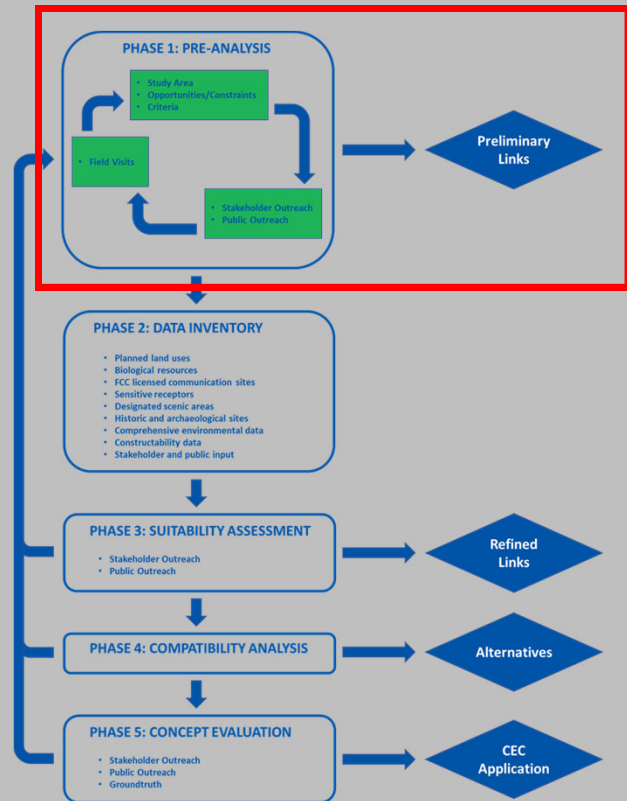
Siting Process



Siting Process



Siting Process



September 24, 2020

Public Open House #1 (virtual)

May 13, 2021

Public Open House #2 (virtual)

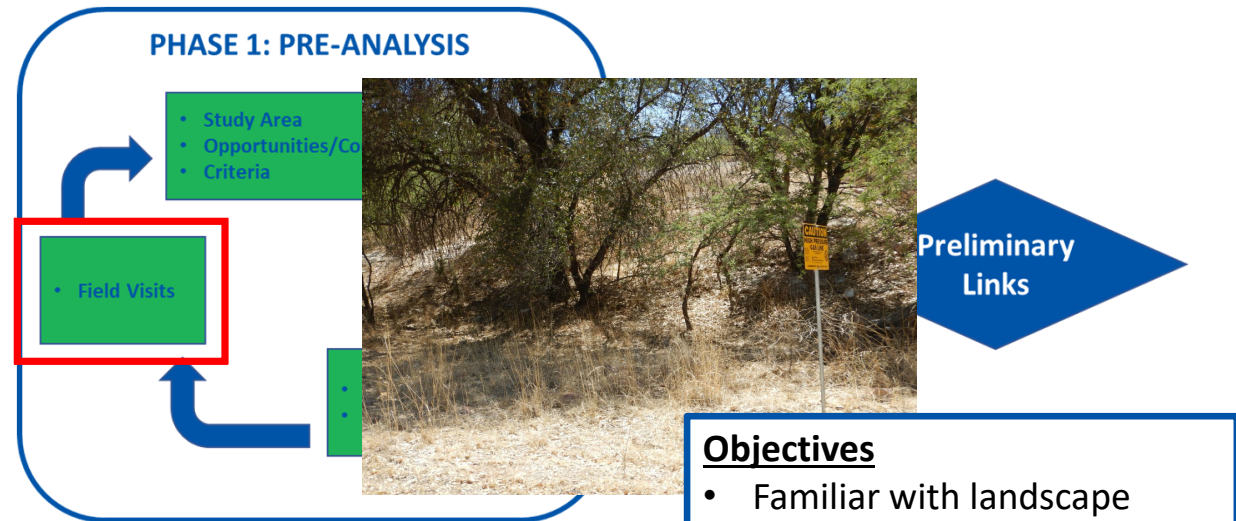
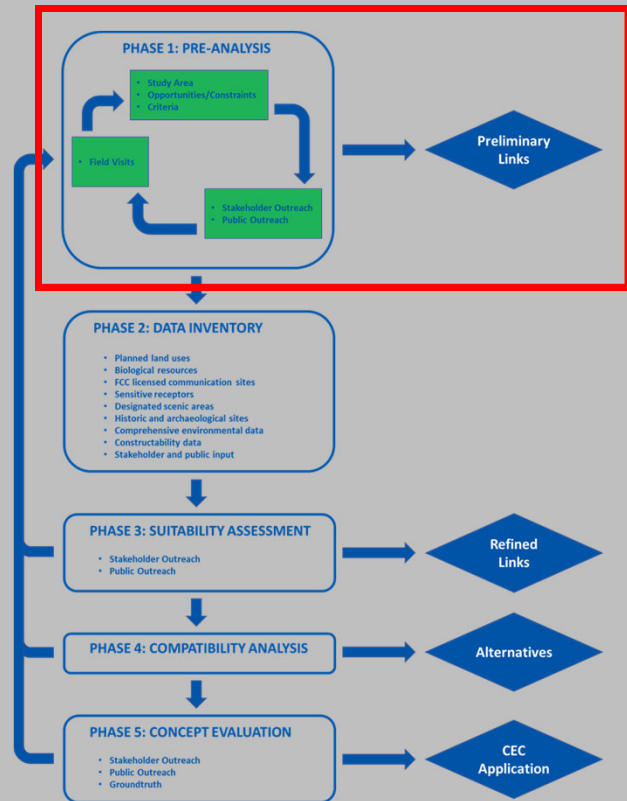
August 18, 2022

Stakeholder Meeting #1 (virtual)

August 25, 2022

Public Open House #3 (hybrid)

Siting Process

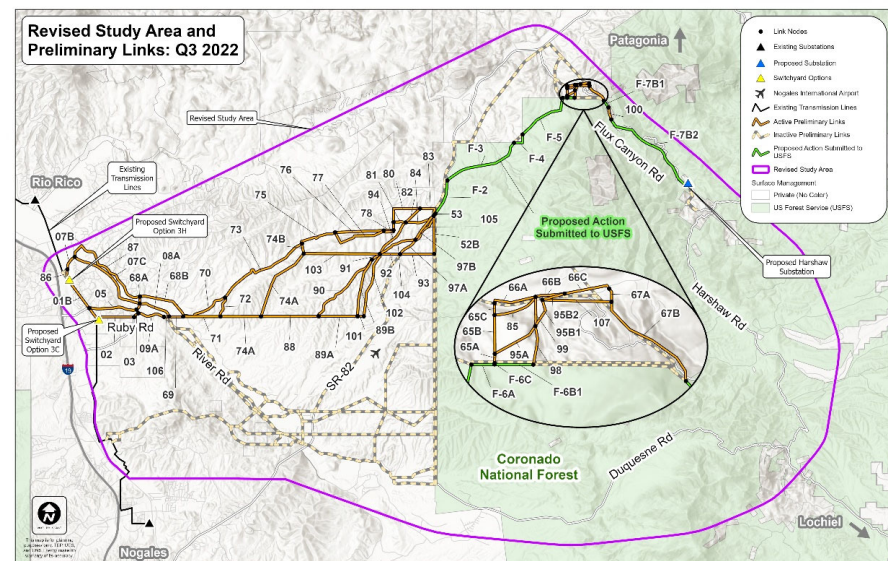
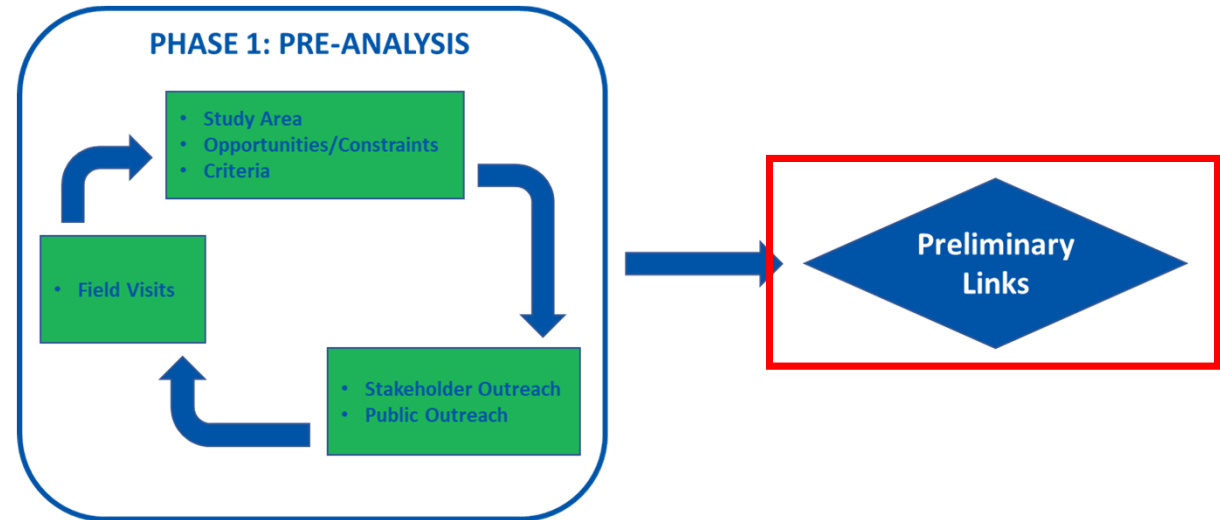
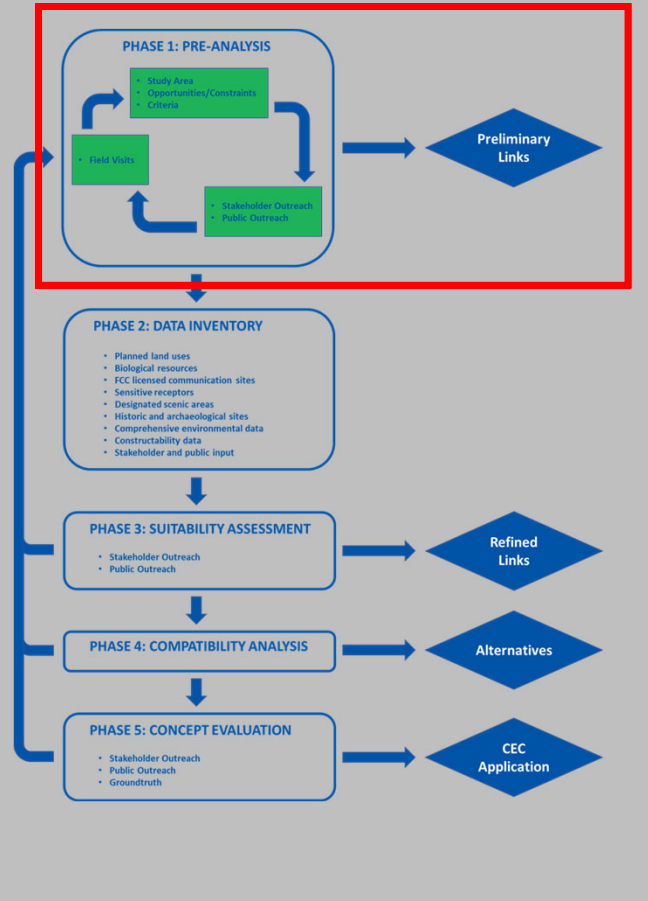


Objectives

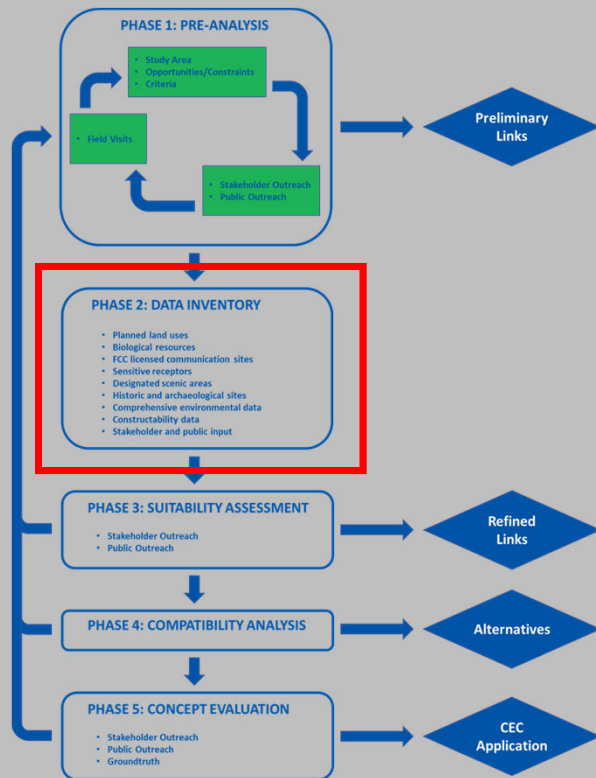
- Familiar with landscape character and geography
- Existing land use inventory
- Ground truth opportunities/constraints
- Develop links



Siting Process



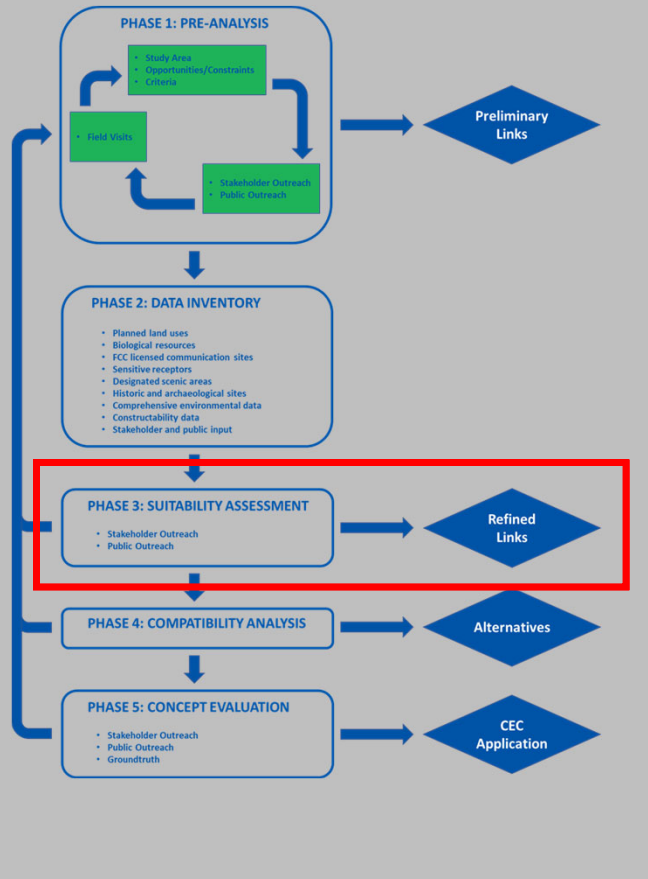
Siting Process



PHASE 2: DATA INVENTORY

- Planned land uses
- Biological resources
- FCC licensed communication sites
- Sensitive receptors
- Designated scenic areas
- Historic and archaeological sites
- Comprehensive environmental data
- Constructability data
- Stakeholder and public input

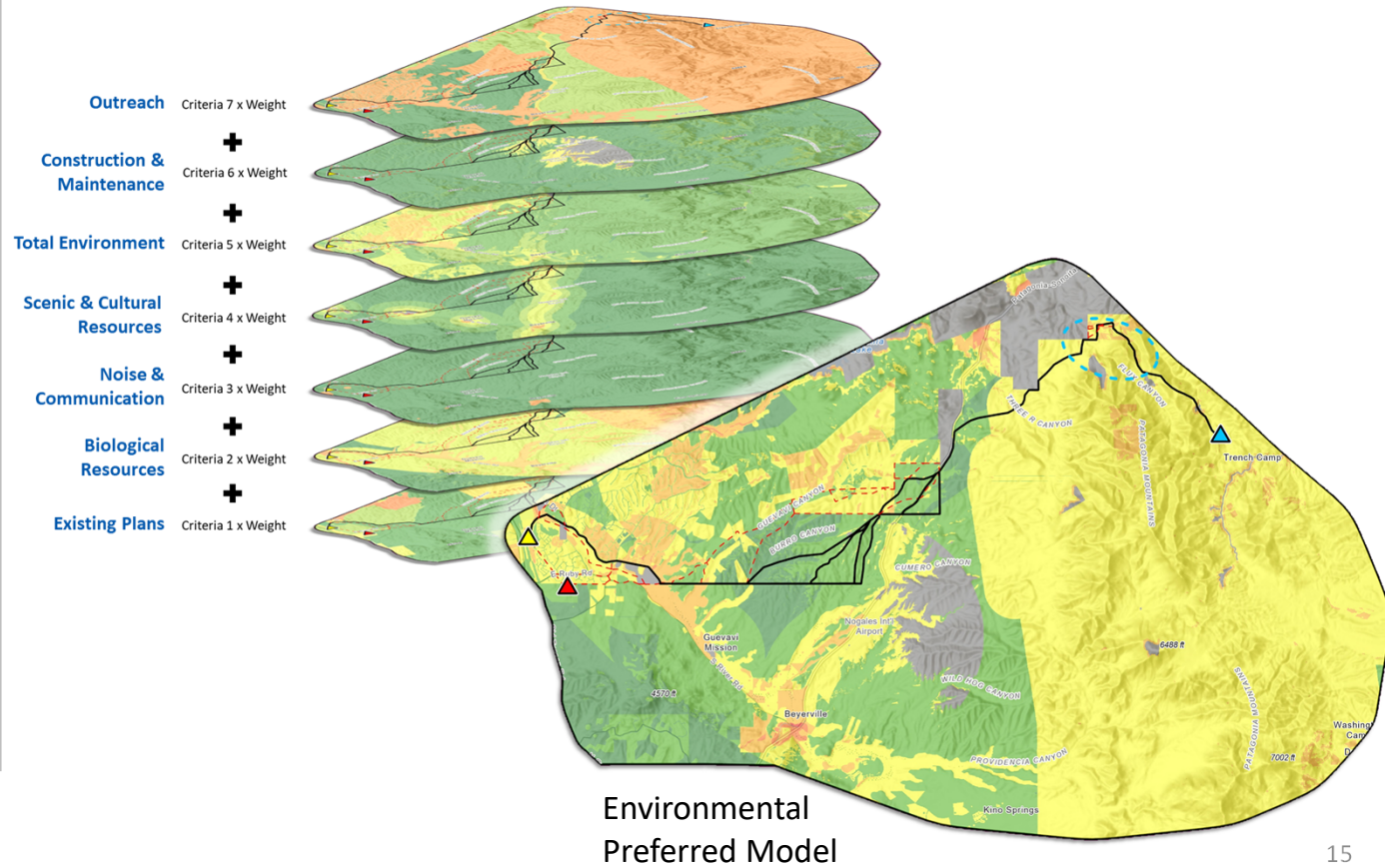
Siting Process



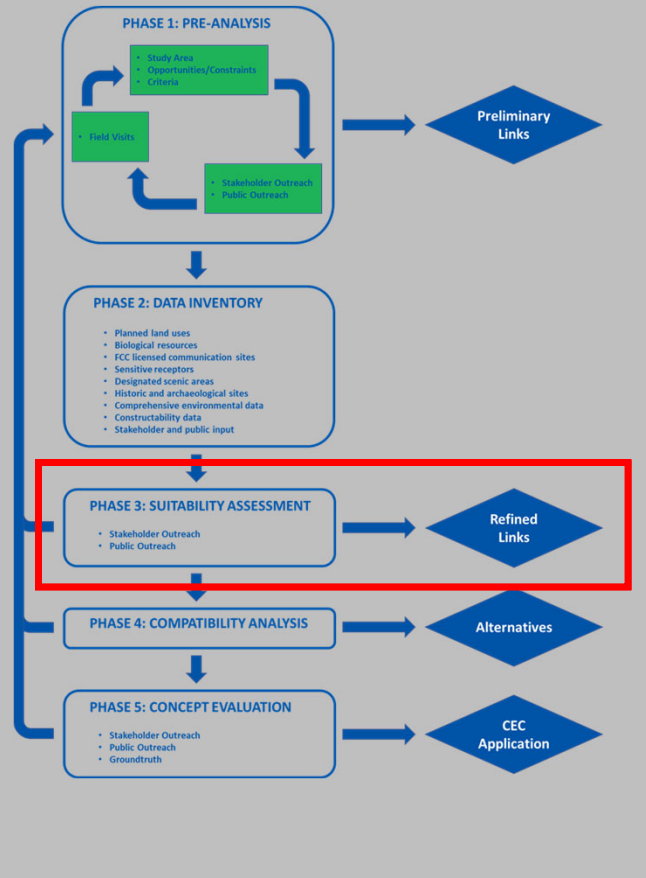
PHASE 3: SUITABILITY ASSESSMENT

- Stakeholder Outreach
- Public Outreach

Refined Links



Siting Process



PHASE 3: SUITABILITY ASSESSMENT

- Stakeholder Outreach
- Public Outreach



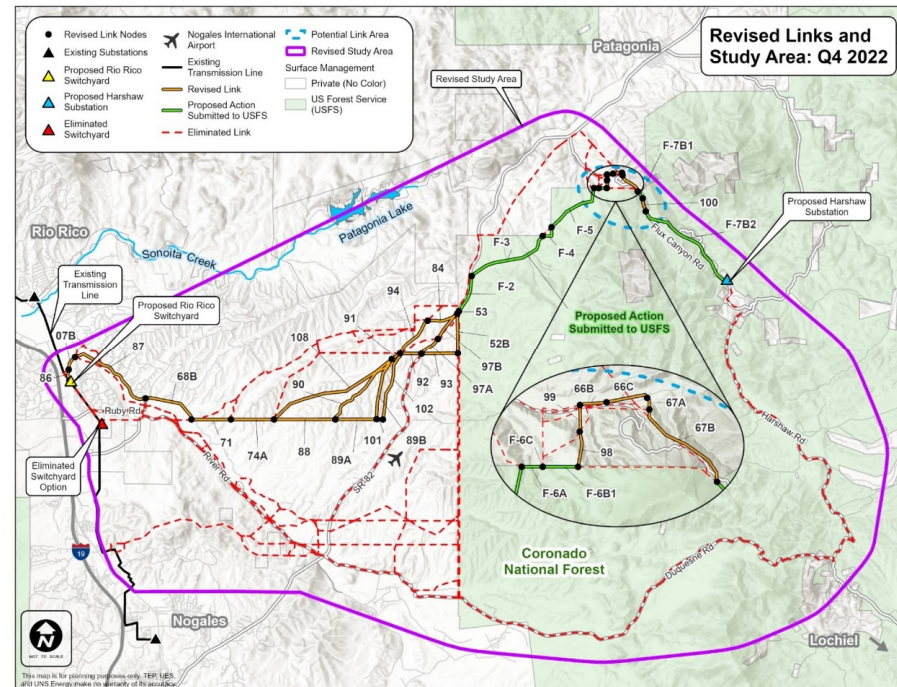
**Refined
Links**

November 15, 2022

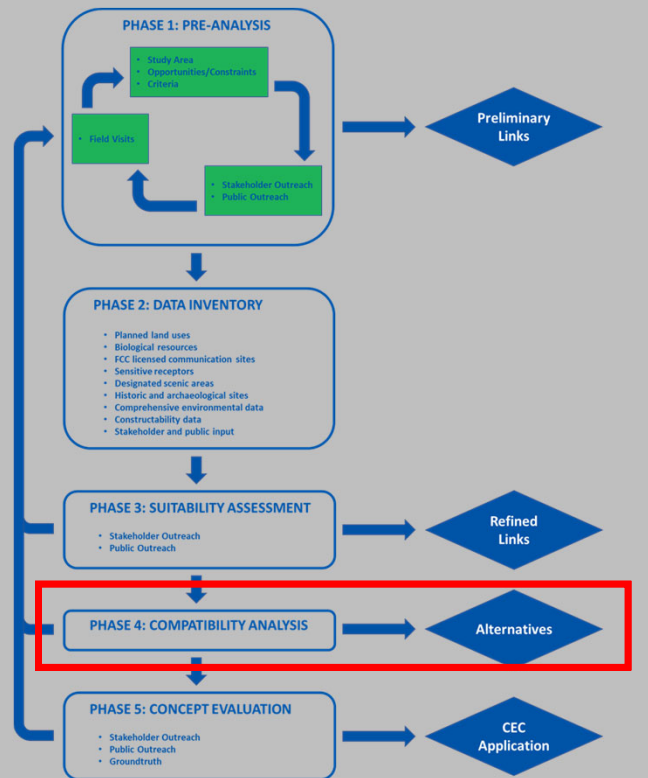
Stakeholder Meeting #2 (virtual)

November 17, 2022

Public Open House #4 (in-person)



Siting Process



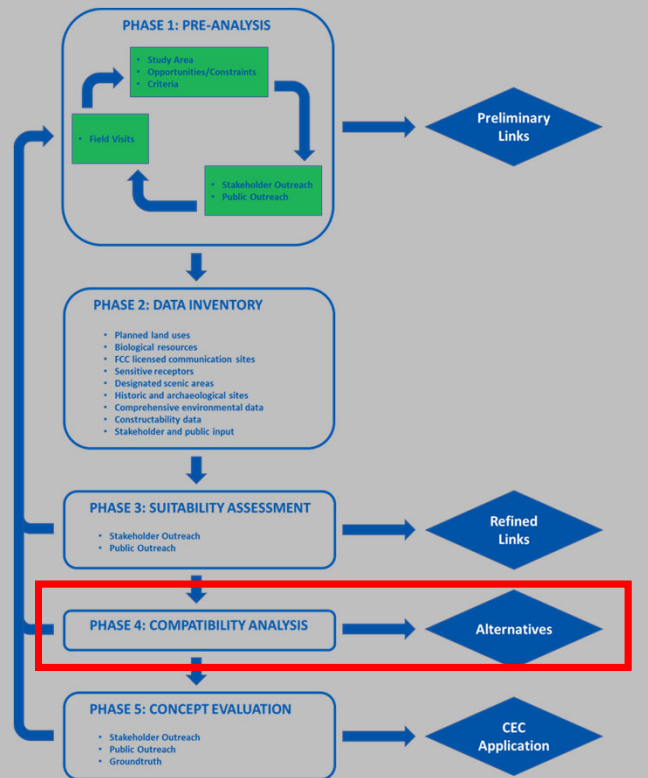
PHASE 4: COMPATIBILITY ANALYSIS

Alternatives

ARS 40-360.06

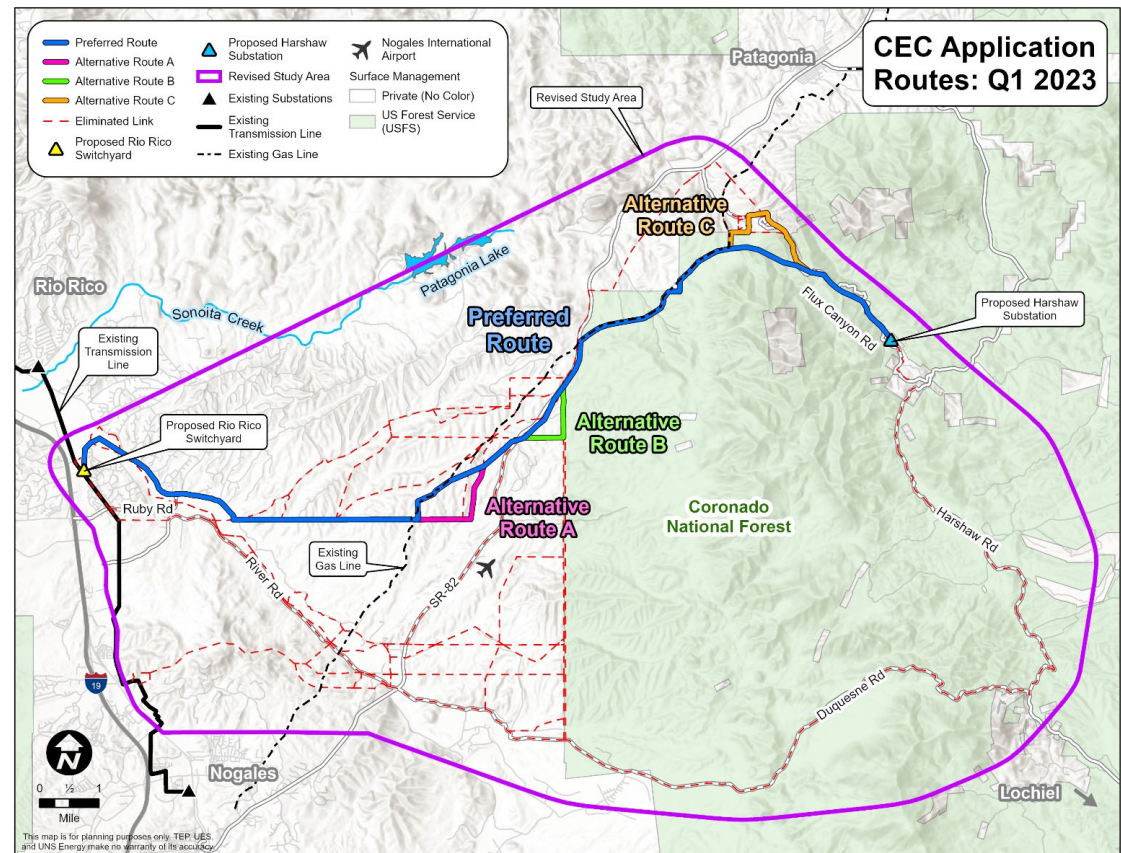
1. Existing plans of this state, local government and private entities for other developments at or in the vicinity of the proposed site.
2. Fish, wildlife and plant life and associated forms of life on which they are dependent.
3. Noise emission levels and interference with communication signals.
4. The proposed availability of the site to the public for recreational purposes, consistent with safety considerations and regulations.
5. Existing scenic areas, historic sites and structures or archaeological sites at or in the vicinity of the proposed site.
6. The total environment of the area.
7. The technical practicability of achieving a proposed objective and the previous experience with equipment and methods available for achieving a proposed objective.
8. The estimated cost of the facilities and site as proposed by the applicant and the estimated cost of the facilities and site as recommended by the committee, recognizing that any significant increase in costs represents a potential increase in the cost of electric energy to the customers or the applicant.
9. Any additional factors that require consideration under applicable federal and state laws pertaining to any such site.

Siting Process

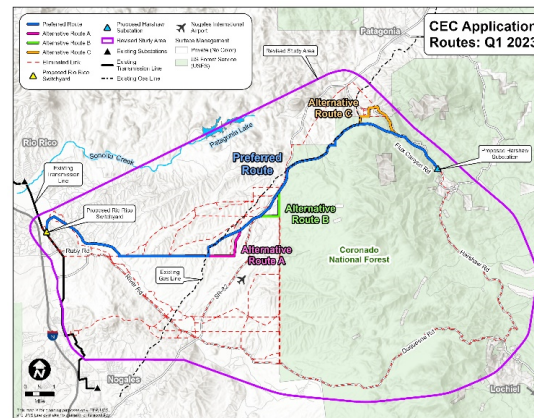
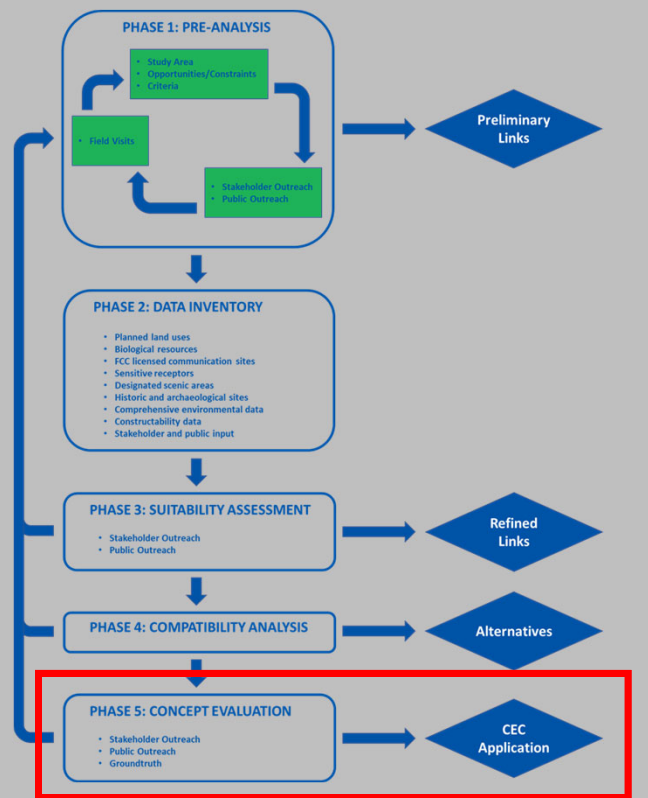


PHASE 4: COMPATIBILITY ANALYSIS

Alternatives



Siting Process

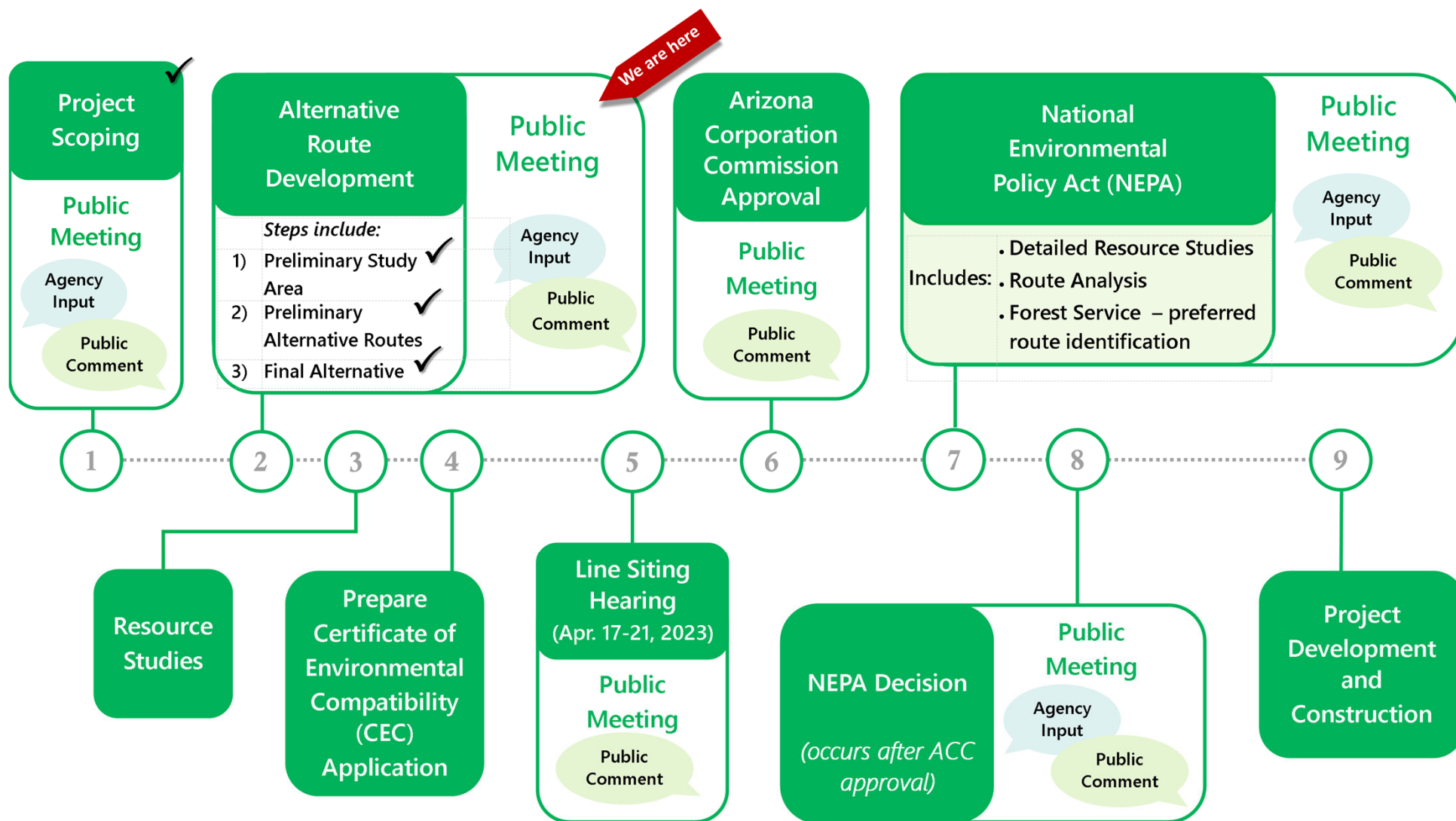


Public Open House

January 25, 2023 6:00-8:00pm
Quality Hotel Americana Nogales

File CEC Application (tentative)
March 3, 2023

Line Siting Hearing (tentative)
April 17-21, 2023
Quality Hotel Americana Nogales



Next Steps

- March 3, 2023 – File Application for CEC
- April 17-21, 2023 – Line Siting Hearing
- May/June 2023 – ACC Approval of CEC
- TBD – USFS review under NEPA

More Project Information

For more project information please visit the project webpage:

<https://www.uesaz.com/rio-rico-to-harshaw/>

Here, you will find:

- Project details including the project newsletter
- A print copy and of this presentation
- Commonly asked questions & answers

How to Comment

- Mail a comment form or a letter to: UniSource Energy Services ATTN: Rio Rico-Harshaw PO Box 711 Tucson, AZ 85702
- Send comments to RR2Harshaw@uesaz.com
- Visit uesaz.com/rio-rico-to-harshaw and fill out an online comment form
- Call 1-833-783-0396 and leave a voicemail message in English
- Deje un mensaje al 1-833-783-0396 y le regresaran su llamada

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**Application for a Certificate of Environmental
Compatibility**

**Rio Rico to Harshaw
138 Kilovolt Transmission Line Project**

Exhibit J-14

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Welcome

Please Sign In

Bienvenidos

(Hablamos español)

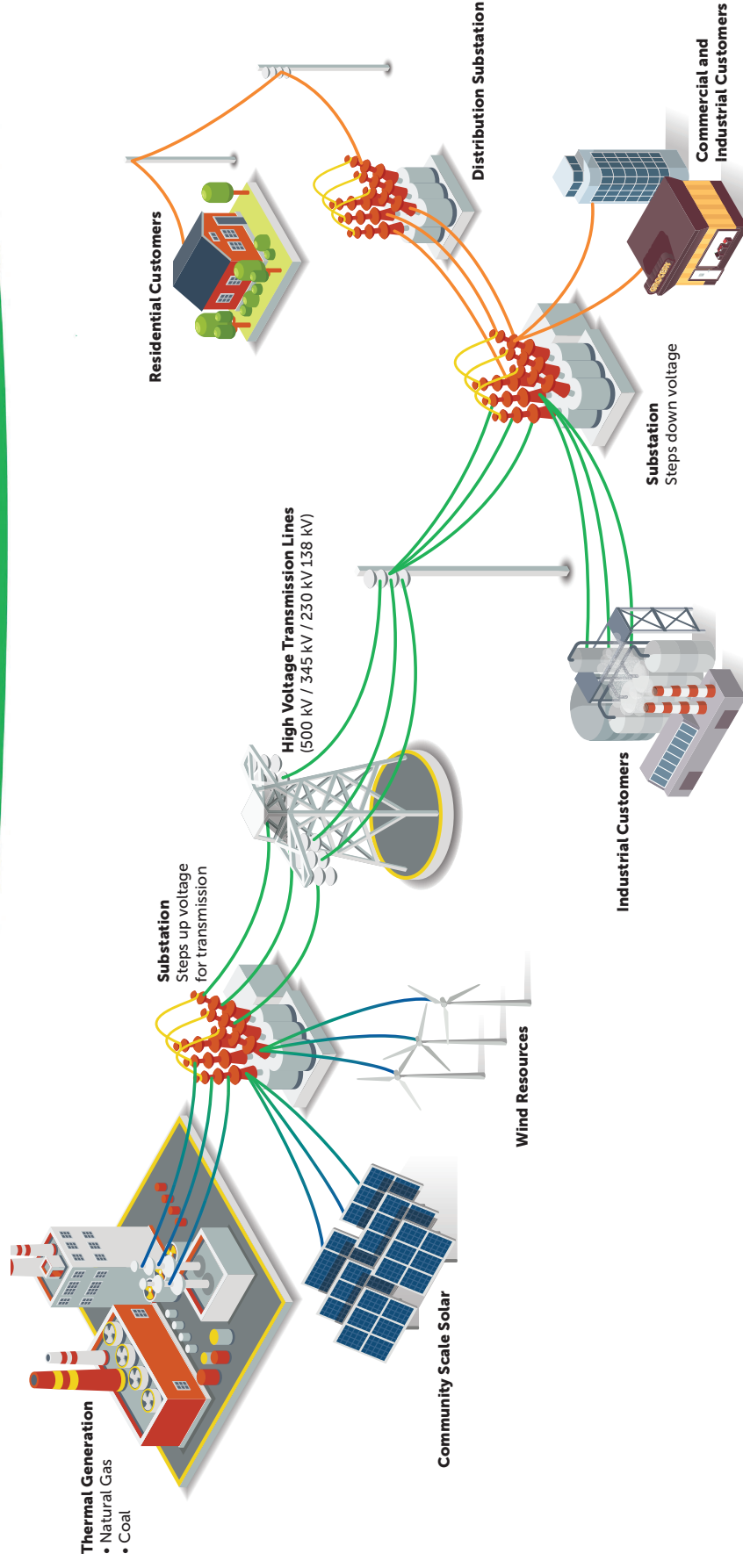
Por Favor Regístrese

For more information / Para más información:

www.uesaz.com/rio-rico-to-harshaw

Rio Rico to Harshaw 138kV Transmission Line Project

UniSourceEnergy SERVICES



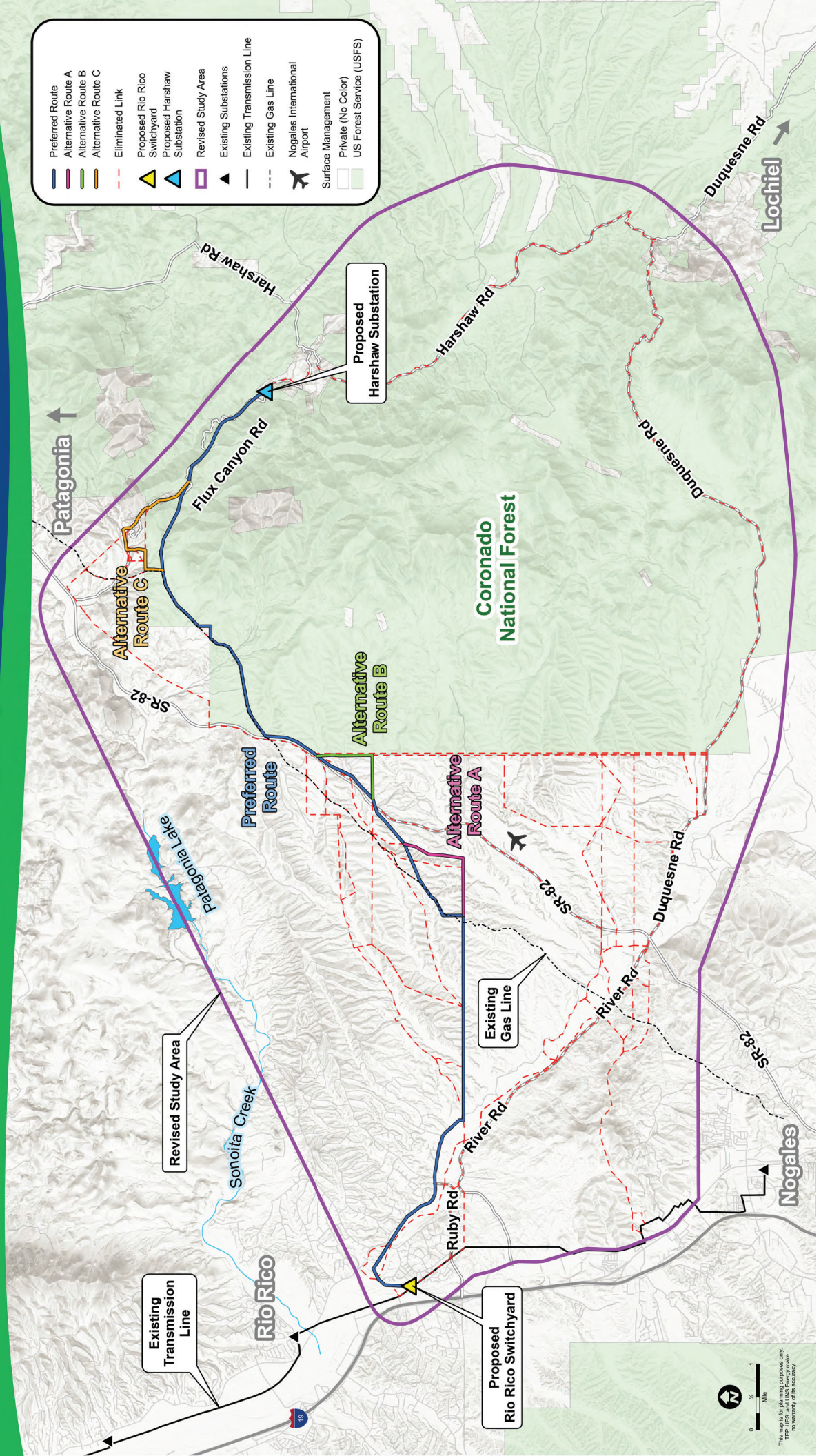
Generation

Transmission

Sub-Transmission and Distribution

Rio Rico to Harshaw 138kV Transmission Line Project

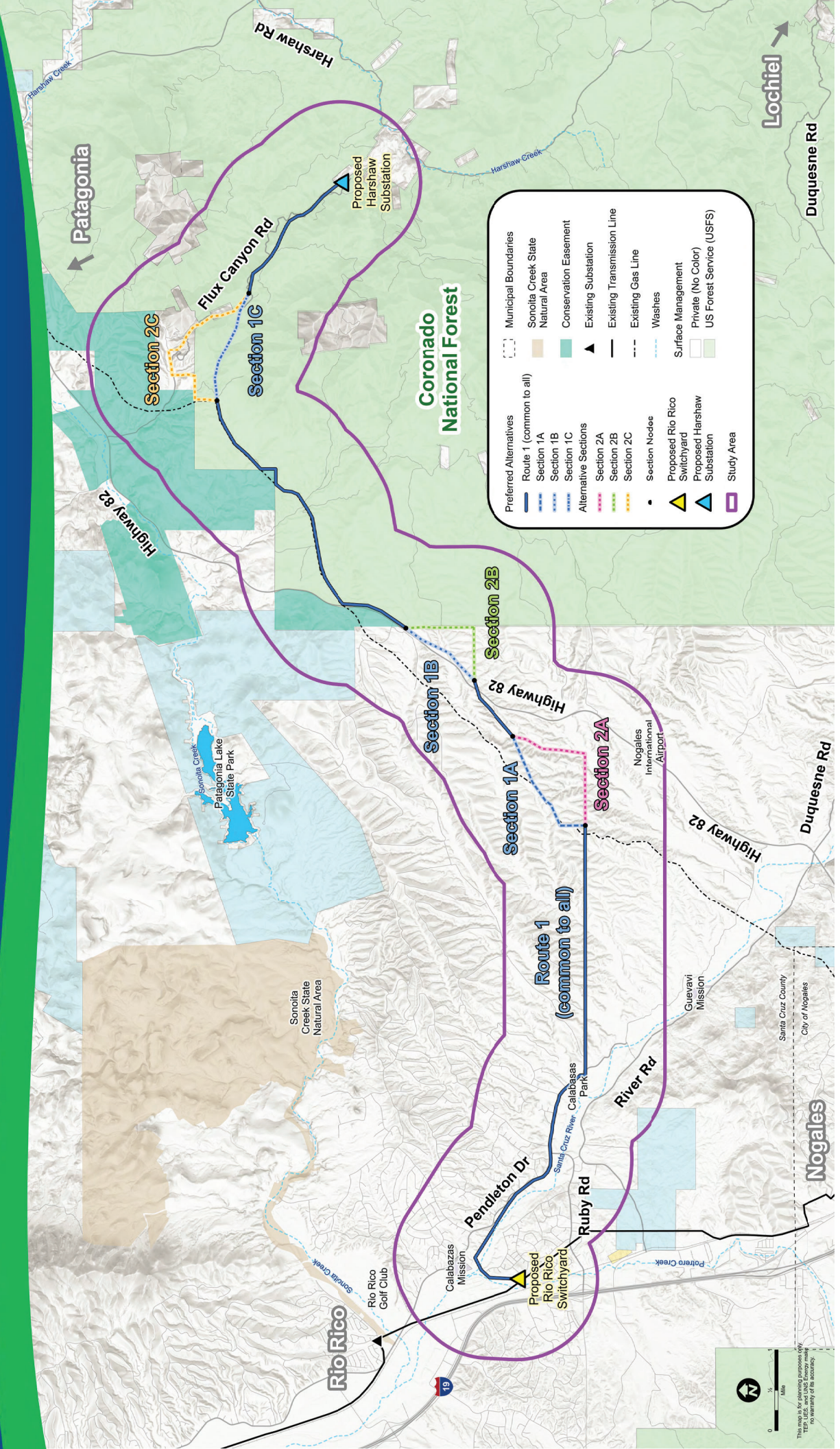
UniSourceEnergy
SERVICES



This map is for planning purposes only.
TEP, LIES, and UNCE Energy make
no warranty of its accuracy.

Rio Rico to Harshaw 138kV Transmission Line Project

UniSourceEnergy
SERVICES

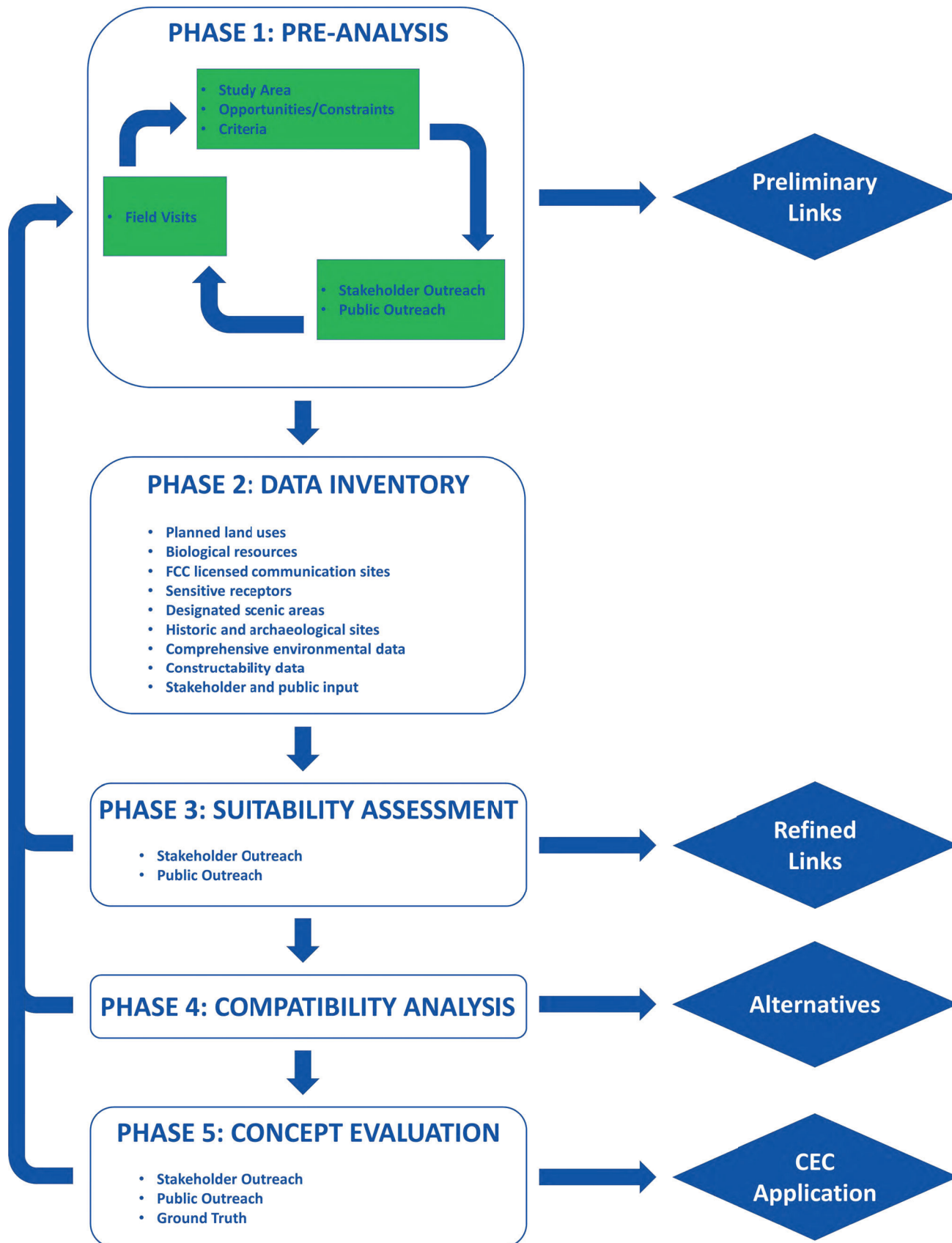


INTERACTIVE MAP STATION



**See where you live in
relation to the project**

SITING PROCESS



The Arizona Corporation Commission will consider several factors before approving a Certificate of Environmental Compatibility. These factors, used by UNS to analyze potential line routes, include:



Wildlife and plant life



Scenic areas, historic sites and archaeological sites and structures



Environment



Noise emission levels and interference with communication signals



Potential public recreational uses



Existing development plans



Engineering feasibility and challenges



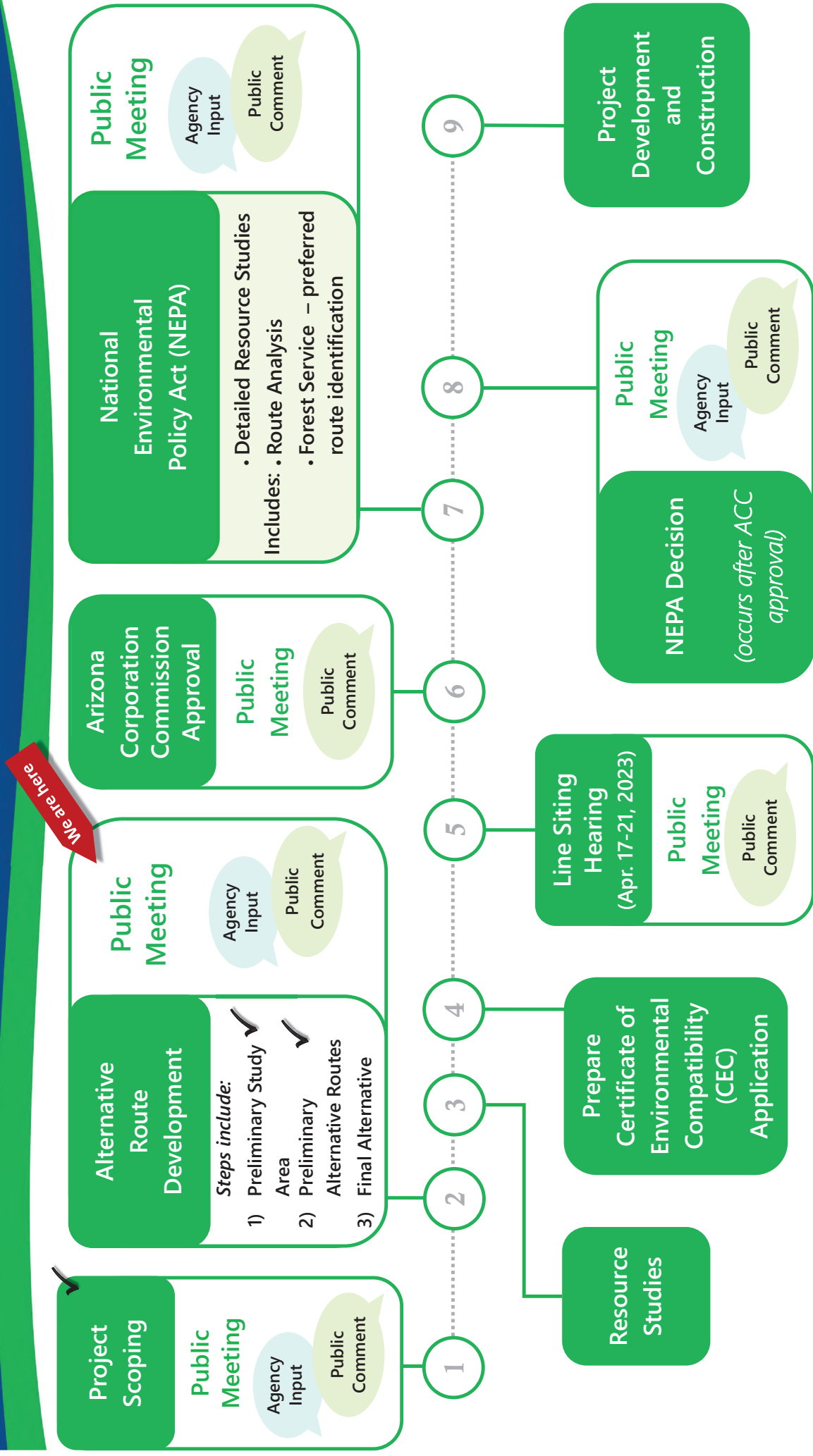
Project costs and potential impacts on customer rates



Public input

Rio Rico to Harshaw 138kV Transmission Line Project

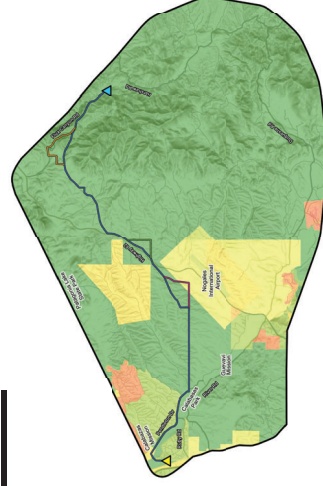
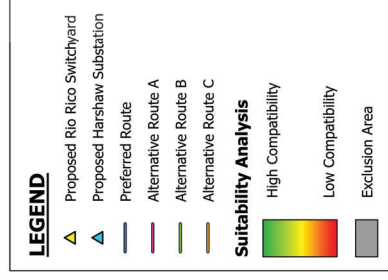
UniSourceEnergy
SERVICES



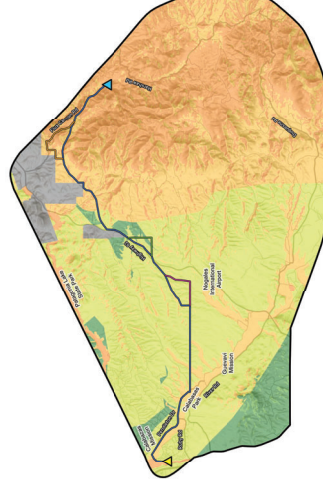
Rio Rico to Harshaw 138kV Transmission Line Project

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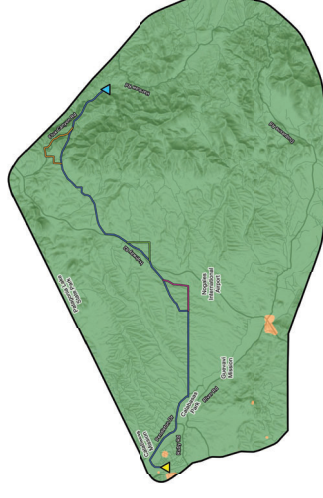
Suitability Factors



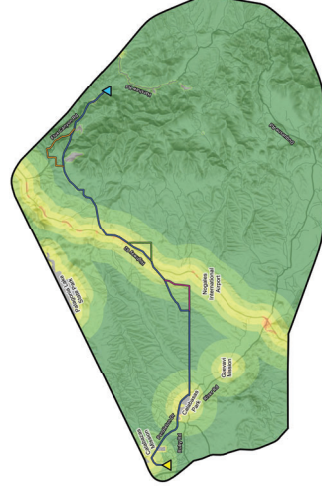
Existing Development Plans



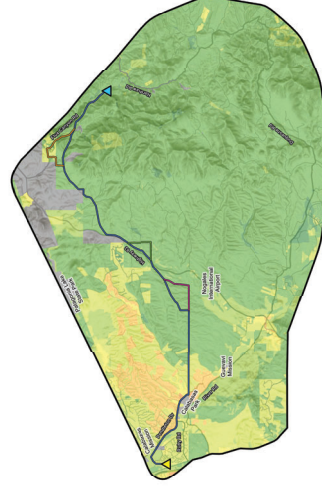
Wildlife and Plant Life



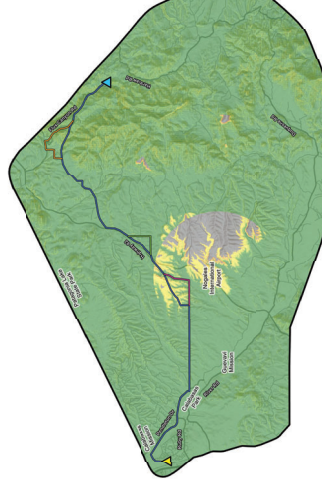
Noise Emissions/
Communication Interference



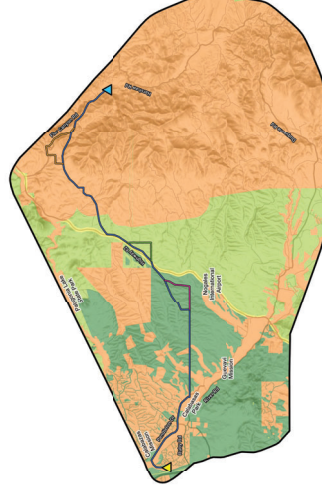
Scenic Areas and
Historic/Archaeological Sites



Total Environment

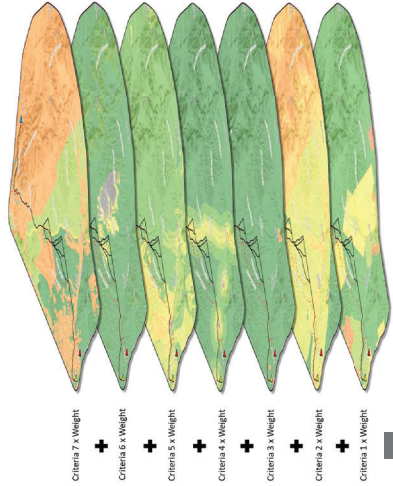


Engineering Feasibility

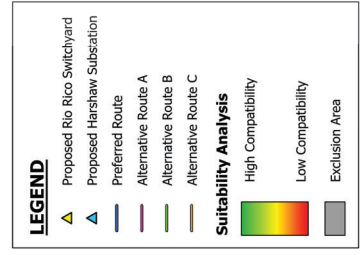
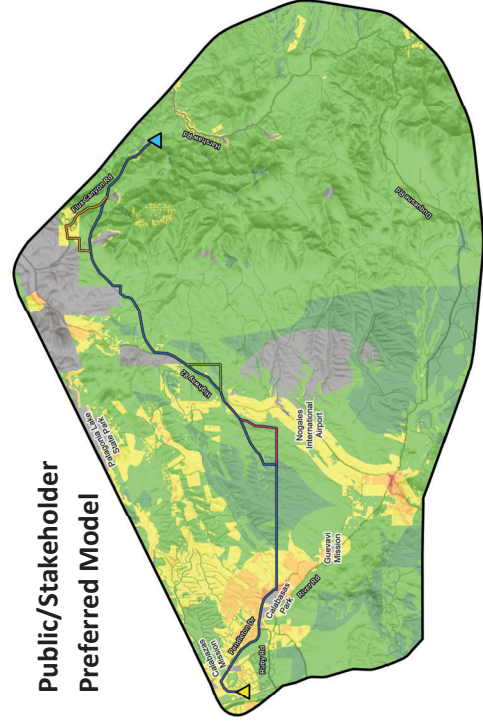
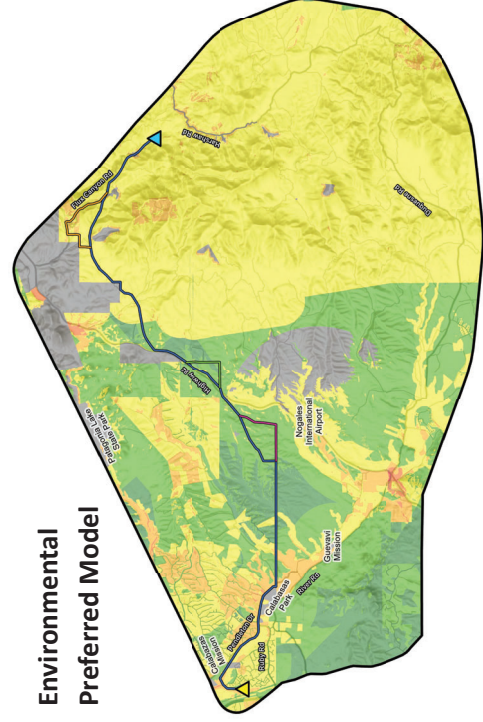
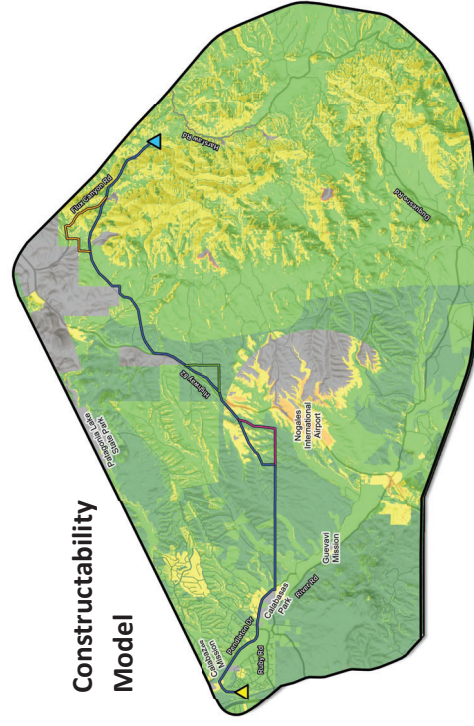
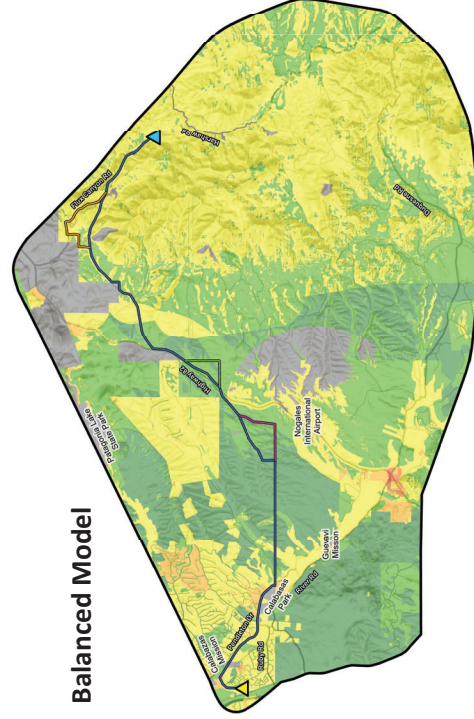


Public/Stakeholder Input

Composite Suitability Models



Suitability factor models are weighted differently based on model and added together.



Pole Characteristics

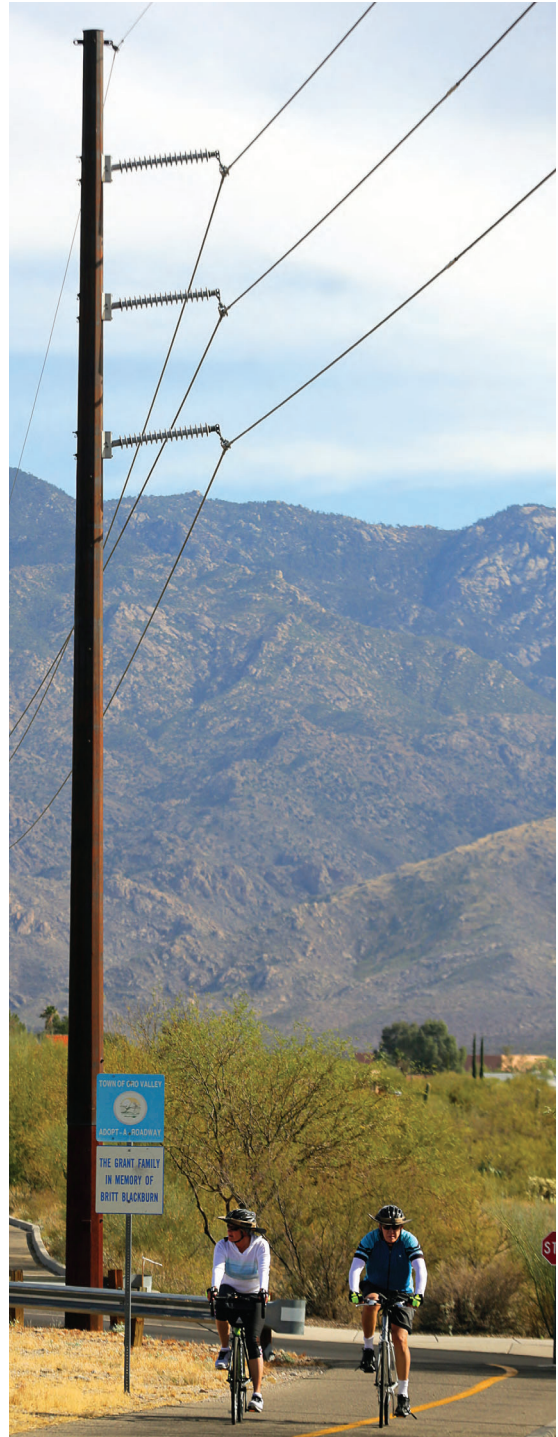
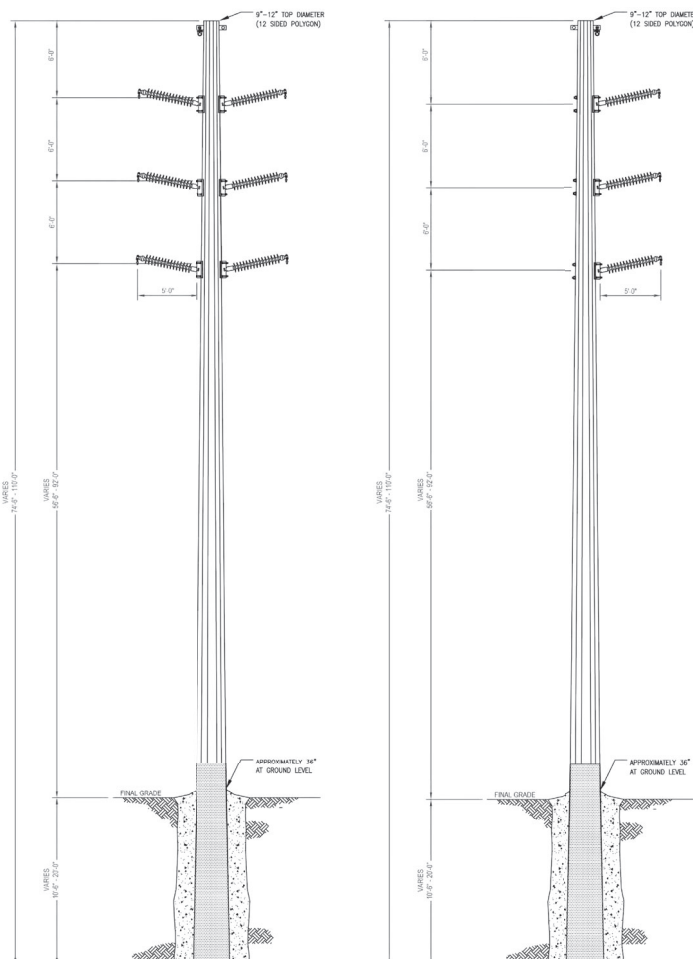
Type: Tubular weathering steel monopoles

Pole height: Typically 75-110 feet

Span length: 600-1,000 feet
(distance between poles)

Poles per mile: 5-9 Structures

Right of way width: Up to 100 feet



A typical weathering steel monopole supporting a 138 kilovolt transmission line

Rio Rico to Harshaw 138kV Transmission Line Project

UniSourceEnergy
SERVICES

	<p>TEMPORARY VISUAL IMPACT AND DISTURBANCE</p> <ul style="list-style-type: none"> Continuous disturbance along right of way. Minimum 30' wide. Typical trench created for duct bank is 4' wide by 5' deep. Width and depth will increase with slope in terrain. Access roads adjacent to trench continuously for access. Vault excavation typically 30' long by 10' wide. Work area 75' by 75' for equipment. Located every ~4000' due to cable length. Linear earthwork including excavation, cutting, and benching of hills to install duct bank. Minimum of 3.5 acres of disturbance per mile. 	<p>UNDERGROUND TRANSMISSION</p> <ul style="list-style-type: none"> Disturbance occurs at transmission pole locations, typically every 500' to 700' for 138 kV. Temporary disturbance at pole locations varies but typical at 138 kV is 50' by 75'. Access roads only to pole locations. Use of existing roads. Wire pulling sites typically 100' by 300'. Minimal earthwork, mainly clearing of large vegetation along right of way, and removal of all vegetation at pole locations. Minimum of 0.7 acres of disturbance per mile. 	
	<p>PERMANENT VISUAL IMPACT AND DISTURBANCE</p> <ul style="list-style-type: none"> Right of way will need to be kept clear of large vegetation to prevent root damage. Access required to vaults for inspection. No infrastructure visible except for high visibility markers and vault manhole caps. Scar of earthwork will remain. 	<p>OVERHEAD TRANSMISSION</p> <ul style="list-style-type: none"> Right of way will need to be kept clear of large vegetation to maintain clearances to overhead conductors. Access not required to all poles, but preferred for maintenance. Poles and wires will be visible. Standard poles are self-rusting steel to blend with surroundings and limit visual impact. 	
	<p>MAINTENANCE / OPERATIONS</p> <ul style="list-style-type: none"> Crews require special training, none currently at UNS. Inspections require line to be out of service for worker safety. Annual outage for inspections, typically 1 to 2 days per vault/mile. 5 year inspection would increase outage to 3-5 days per vault. Minimized risk of unplanned outage due to weather. In the event of cable failure, locating fault is difficult and can take specialized equipment. Once failure point is located, repair can take days to months depending on spare materials onsite. 	<ul style="list-style-type: none"> Utilize existing UNS maintenance personnel and training. Annual visual inspection does not require outage, typically 2 hours/mile. Most maintenance can occur while line is energized. Higher risk of unplanned outage due to weather. Locating failure points is performed visually typically within hours; repairs can often be completed within a day. 	
	<p>IMPACT TO THE ENVIRONMENT</p> <ul style="list-style-type: none"> Construction of duct bank has substantial environmental impacts. If environmentally/culturally sensitive areas exist, trenchless installation can be utilized. Length limited; significantly increases cost. Large impact to wildlife, water, & environment during construction. Less impact to wildlife, water, environment after installation. Low wildfire risk along underground route. 	<ul style="list-style-type: none"> Overhead lines can typically span environmentally/culturally sensitive areas. Lines are designed to mitigate risks to wildlife such as birds. Wildfire risk is low on overhead lines with proper maintenance and vegetation management program. UNS has robust operational procedures in place. 	

Rio Rico to Harshaw 138kV Transmission Line Project

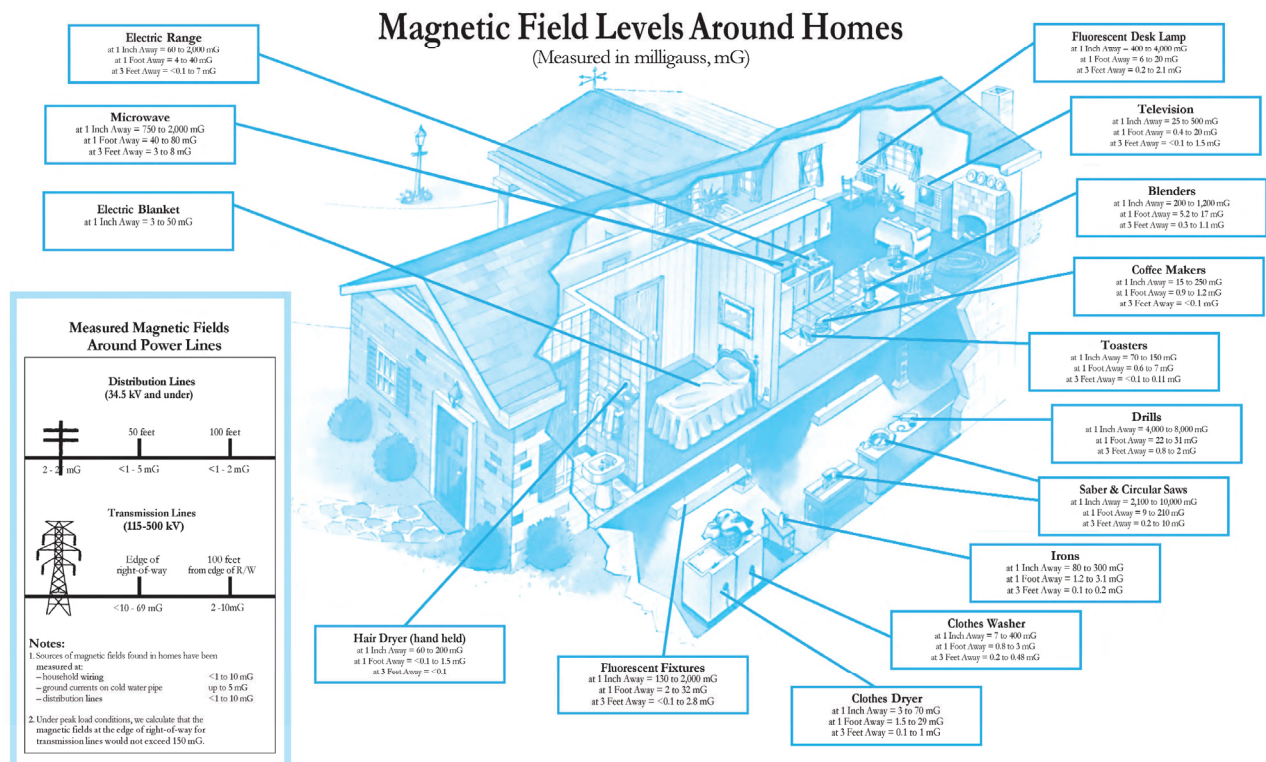


UNDERGROUND TRANSMISSION		OVERHEAD TRANSMISSION
ELECTRIC & MAGNETIC FIELDS	<ul style="list-style-type: none">Electric fields from underground lines are negligible.Magnetic fields are generally higher than overhead lines directly above duct bank but decrease rapidly with distance.Values are typically negligible at edge of right of way.	<ul style="list-style-type: none">Electric & Magnetic fields are found within transmission right of way.Values are typically negligible at edge of right of way.
TRANSMISSION COSTS	<ul style="list-style-type: none">Typically 6 to 12 times the cost of overhead but can be higher based on project constraints. Average 10 times.	<ul style="list-style-type: none">About \$2-3M per mile of overhead transmission line.
ENGINEERING AND OPERATIONS LIMITATIONS	<ul style="list-style-type: none">Underground cable and associated equipment life expectancy is approximately 50-60 years.Underground transmission lines typically experience higher line losses than overhead transmission lines.Underground transmission lines typically carry less power and require larger or multiple cables to carry similar power to overhead transmission lines.Typically underground lines are limited to approximately 20 miles due to operational impacts.Lines require long sweeping turns both vertically and horizontally which creates difficulty in hilly/mountainous environments.	<ul style="list-style-type: none">Overhead transmission line expected life range is over 80 years.Overhead transmission lines typically experience less line loss than underground transmission lines.Overhead transmission lines can carry more power than underground transmission lines.No length limit to overhead transmission lines.Can be installed in difficult terrain without significant impact to the environment.
CONSTRUCTION CHALLENGES	<ul style="list-style-type: none">Vegetation clearing required along right-of-way.Large amount of grading and excavation required.Jack and bore or horizontal directional drilling installations may be required for environmental and road crossings which are impactful to surrounding environment.Road or lane closures common for routes along highways.Could restrict access to homes for periods of time.Presence of rock or hard soils can increase time and effort and have significant cost impacts.	<ul style="list-style-type: none">Vegetation clearing required along right-of-way.Construction along roads could require lane closure and traffic control during day.Subsurface conditions such as rock has minimal impact on installation time.

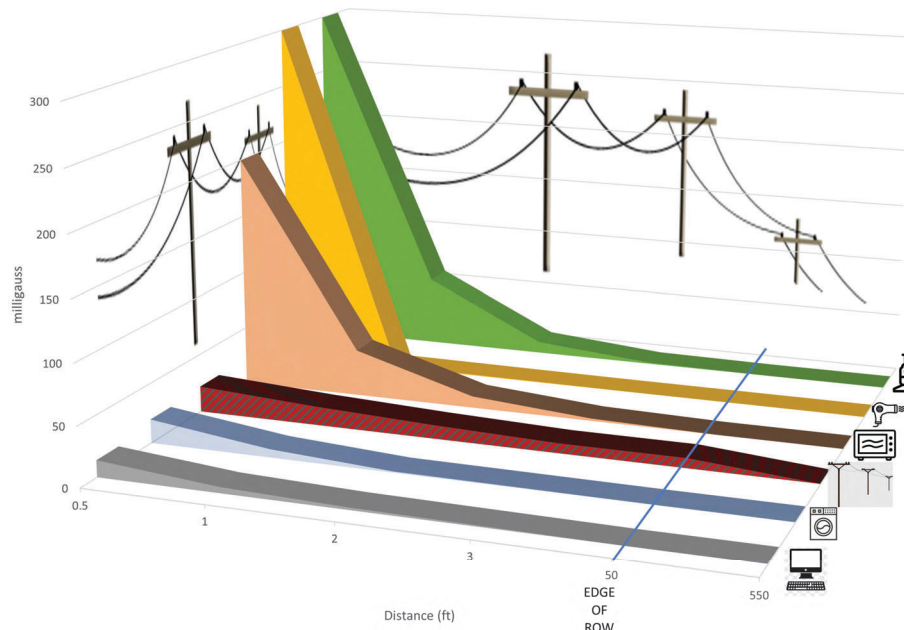


An electric magnetic field is an invisible force field that occurs naturally (e.g., lightning and the Earth's magnetic field), and also as a byproduct of technology. Electric magnetic fields surround any electrical device, such as appliances, house wiring, and power lines. They are emitted by electrically powered systems that light, cool and heat our homes, provide our communications and entertainment, and support other aspects of our modern lifestyle. The transmission, distribution and use of electric power results in weak electric and magnetic fields.

Comparing the magnetic field levels of appliances to electric transmission and distribution lines, you can see that many common household items produce a higher field than an electric power transmission and distribution system.



EMFs weaken significantly as they extend away from the source. TEP designs and builds its equipment to meet or exceed national building and safety standards. Median magnetic field strength, measured in milliGauss (mG), for common household items and overhead power lines is shown in the chart below.



Scientists continue to research health risks from electromagnetic fields and radiation from high voltage power lines (EMF/EMR). It is understood that the greater the distance and the less time you spend near the source, the lower your exposure. Based on research to date, given the distance to the powerlines within their 50- to 100-foot-wide rights-of-way, EMF/EMR exposure of 138kV line from a nearby residence would be very low, comparable to appliances in your home, or even less.

**Application for a Certificate of Environmental
Compatibility**

**Rio Rico to Harshaw
138 Kilovolt Transmission Line Project**

Exhibit J-15

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Comment Method:**Comment Date****Support Project**☐**Alternative Preferred****Category****Concerns Topics****Heard About****Issues/Phone Message/Comments**

No se que contestar. Pido mil disculpa tengo 89 años por eso no quiero echar mentiras. Pues tengo mi hija de 63 años pero no esta bien. (I don't know what to answer. I apologize a thousand time. I am 89 years old and I don't want to lie. I have a 63 year old daughter, but she is not well.)

Additional Info

Pues no se que contestar. (I don't know what to answer.)

Requested Info

Pues lo que hagan esta bien por mi. (What they are doing is fine for me.)

Comment Method:

Comment Date

Support Project

☐

Alternative Preferred

Category

Resident in Study Area

Concerns Topics

Other

Heard About

Newsletter Mailing

Issues/Phone Message/Comments

La entrada a Ruby Rd. es una entrada muy congestionada, sea mas deficiil el trafico. (The entrance to Ruby Rd is very congested. Traffic will be more difficult.)

Additional Info

Requested Info

Comment Method:**Comment Date****Support Project**☐**Alternative Preferred****Category**

Business Owner in Study Area

Concerns Topics

Other, Environment

Heard About

Newsletter Mailing

Issues/Phone Message/Comments

As long as the project follows existing routes and does not damage environment, gives jobs to the suffering community and does not leave our residents hoping for some economic relief I have no issues. Prep for the future- don't need another TEXAS.

Additional Info

I'm a retired phone company employee and have worked side by side with line crews, engineers and gas crews. I have an eye for the future and am familiar with preventive and future development of services.

Requested Info

Environmental, Indian sacred grounds, and waterways that might be impacted.

Comment Method: Comment Form**Comment Date****Support Project**☐**Alternative Preferred****Category**

Resident in Study Area

Concerns TopicsHealth, Appearance,
Location, Other, Historic,
Environment**Heard About**

Word of Mouth

Issues/Phone Message/Comments

The values of my properties will drop due to eye sore. Health risk to me and my family "3 grandchildren live here" Due to the 138 kilovolt electro magnetic fields. My view of the Patagonia Mountains will be obstructed by the poles and conductors. The endangered Grey Hawk lives here.

Additional Info

Relocation of graves on an existing 1800's cemetery. Violation of the State Highway Scenic Corridor. My house sits on a hill so the proposed 138kV line would be in view from my front window. Health of my farm animals. I am not willing to sign for any R/W.

Requested Info

I would like to see more details on our proposed routes. Your Map is very cluttered. The diameter of the proposed poles.

Comment Method: Comment Form**Comment Date****Support Project**☐**Alternative Preferred****Category**

Resident in Study Area

Concerns Topics**Heard About**

Newsletter Mailing

Issues/Phone Message/Comments

La unica preocupacion es que ocurran apagones de noche, porque al dormir necesito maquina respiradora por tener apnea de sueño. (The only worry is that power outages will happen at night. Because I need a respirator machine to sleep for my sleep apnea.)

Additional Info

Ninguna. Solo buen servicio. 7/12 (None. Only good service. 7/12)

Requested Info

Posibles, transformadores auxiliares para tiempos de "apagones" (Possibly, auxiliary transformers for power outages.)

Comment Method: Comment Form**Comment Date****Support Project**☐**Alternative Preferred****Category**Resident in Study Area, Live/Work
near Study Area**Concerns Topics****Heard About**

Newsletter Mailing

Issues/Phone Message/Comments

El proyecto de linea o lineas de transmission son de sumo interes que deben verificar el terreno y situacion de negocios y transito de transporte vial y peatonal en el mismo. Por lo demas todos debemos confiar en que ustedes y los ingenieros que trabajn en el mismo. (The line project or transmission lines are of great interest. They should verfiy the land and location of businesses and transit of vehicle and pedestrian traffic, furthermore, we should be able to trust you all and the engineers that are working on it.)

Additional Info**Requested Info**

Comment Method: Comment Form

Comment Date 8/25/2022

Support Project

☐

Alternative Preferred

Category Resident in Study Area

Concerns Topics

Location

Heard About Newsletter Mailing

Issues/Phone Message/Comments

We are against the transmission line being built along Sonoita Creek Ranch Rd. Please use another route.

Additional Info

Requested Info

Comment Method: Comment Form**Comment Date** 8/25/2022**Support Project** ☐**Alternative Preferred****Category** Resident in Study Area, Live/Work
near Study Area**Concerns Topics** Location**Heard About** Newsletter Mailing**Issues/Phone Message/Comments**

We do not want high voltage transmission lines in our backyard over our corrals, barn and garden.

Additional Info

I believe that line from Rio Rico to Soldier Basin to Harshaw is the best alternative.

Requested Info

Comment Method: Comment Form**Comment Date** 8/25/2022**Support Project** ☐**Alternative Preferred****Category** Resident in Study Area**Concerns Topics** Health, Location**Heard About** Other**Issues/Phone Message/Comments**

Health and safety

Additional Info

Do not use #05 (Ruby Rd). These lines should be put away from homes. There are plenty of areas that do not have homes nearby where you can put these lines.

Requested InfoElectronic and magnetic fields

Comment Method: Comment Form**Comment Date** 8/25/2022**Support Project**☐**Alternative Preferred****Category** Resident in Study Area**Concerns Topics**Health, Appearance,
Location, Other**Heard About** Newsletter Mailing**Issues/Phone Message/Comments**

Route through Flux Canyon area is invasive: eyesore, health, property values, quality of life, stress. In particular F-6BI through NFS is within 20' of our house. The line does not benefit us.

Additional Info

Impacts on residents

Requested Info

Comment Method: Comment Form**Comment Date** 10/17/2022**Support Project**☐**Alternative Preferred****Category** Resident in Study Area**Concerns Topics**Appearance, Location,
Environment**Heard About** Word of Mouth**Issues/Phone Message/Comments**

The reason we bought land on Lado de Loma is because of the natural beauty, the views of hills & mountain range, the quiet of the environment, & proximity to the lake. These lines & poles will ruin this.

Additional Info

On our property, there is a natural water hole for livestock. We have our water well adding water to this water hold. We don't want the livestock negatively affected by large power poles & buzzing electricity sounds.

Requested Info

Where exactly are the large 110' steel poles going to go (proposed)?

Comment Method: Comment Form**Comment Date** 10/24/2022**Support Project** ☐**Alternative Preferred****Category** Resident in Study Area**Concerns Topics** Health, Location, Other,
Underground, Environment**Heard About** Other**Issues/Phone Message/Comments**

Potential to damage habitat of more than 100 threatened endangered and sensitive species in the study area, loss of property value, loss of property access when easements may be required, possible health effects of exposure to EMF.

Additional Info

Avoid the Lake Patagonia Ranch Estates area & Circle Z Ranch. Bury the line, have the mine pay for it. The mine has unlimited funds.

Requested Info

Impact on threatened, endangered, and sensitive species in the study area. Impact on property values in the study area.

Comment Method: Comment Form**Comment Date** 10/24/2022**Support Project**☐**Alternative Preferred****Category** Resident in Study Area**Concerns Topics**Health, Appearance,
Location, Other,
Environment**Heard About** Word of Mouth**Issues/Phone Message/Comments**

Loss of livestock land, destruction of views, detrimental to biodiverse endangered species area, destruction of land, cancer risks of transmission lines, lowering of property values, destruction of aesthetics to artists, damage to ecotourism, damage to world renowned bird sanctuary, loss of dark sky, etc., etc., etc.!

Additional Info

Stay out of Patagonia Ranch Estates A+B, stay out of Circle Z Historical Dude Ranch - oldest dude ranch in Arizona, stay off of Scenic Route AZ State Rte 82, stay out of Coronado National Forest. Stay out of designated bird sanctuaries and endangered species migration routes.

Requested Info

Independent environmental impact studies including endangered species and world renowned bird sanctuary and migration route impacts.

Comment Method: Comment Form**Comment Date** 11/17/2022**Support Project** ☐**Alternative Preferred****Category** Resident in Study Area**Concerns Topics** Appearance, Location,
Underground**Heard About** Other**Issues/Phone Message/Comments**

I am now building my home and cannot imagine having my serenity and pristine views obstructed by power lines. My wish is to have the lines as far away as possible, perhaps in the green zone, located in the mountains.

Additional Info

Underground lines where possible would be very good possibly for residents.

Requested Info

The April meeting and the approved project determination of lines and their location.

Comment Method: Comment Form**Comment Date** 11/17/2022**Support Project** ☐**Alternative Preferred****Category****Concerns Topics****Heard About** Newsletter Mailing**Issues/Phone Message/Comments**

F-6A leads to F-6BI which is directly behind our home, 98 goes through our property - this is unacceptable. The Flux Canyon area is a scenic neighborhood with elderly and toddlers too.

Additional Info

Please focus outside the Flux road area, where people do not live! South of the road - up Flux Canyon west would be preferred.

Requested Info

This route as it progresses.

Comment Method: Comment Form

Comment Date 11/17/2022

Support Project

☐

Alternative Preferred

Category Live/Work near Study Area

Concerns Topics

Underground

Heard About Public Meeting, Word of Mouth

Issues/Phone Message/Comments

Should be underground

Additional Info

Requested Info

Comment Method: Comment Form**Comment Date** 11/17/2022**Support Project**☐**Alternative Preferred****Category** Resident in Study Area**Concerns Topics**Appearance, Location,
Underground**Heard About** Word of Mouth**Issues/Phone Message/Comments**

Reduce visibility of new line from existing properties in Lake Patagonia Estates. Proposed routes that run south and as far east from airport would be preferred. Use forest land rather than area by populated residences.

Additional Info

Aesthetics and if underground runs by populated areas would be better.

Requested Info

None

Comment Method: Comment Form**Comment Date** 11/17/2022**Support Project**☐**Alternative Preferred****Category** Resident in Study Area**Concerns Topics**Appearance, Location,
Underground, Environment**Heard About** Project Website, Newsletter Mailing,
Public Meeting, Word of Mouth**Issues/Phone Message/Comments**

Ruin our view we have purchased & currently building. Destroy natural parts of our property & animal habitat.

Additional Info

Go underground

Requested InfoOther alternatives

Comment Method: Comment Form**Comment Date** 11/17/2022**Support Project** ☐ **Alternative Preferred****Category** Resident in Study Area**Concerns Topics** Location**Heard About** Word of Mouth**Issues/Phone Message/Comments**

We own property on San Gabriel. Do not support 84 + 94. Do not prefer. Prefer 52B + 102 + 89B. Prefer.

Additional Info**Requested Info**

Comment Method: Comment Form**Comment Date** 11/17/2022**Support Project** ☐**Alternative Preferred****Category** Resident in Study Area, Business
Owner in Study Area**Concerns Topics** Health, Location**Heard About** Public Meeting**Issues/Phone Message/Comments**

High power lines near our homes. Some residents are sensitive to electricity. The area is a haven for electricity sensitive people.

Additional Info

Don't go down Flux Canyon Road - use Forest - 8R Canyon. Not 68B - 86C

Requested Info

Comment Method: Comment Form**Comment Date** 11/17/2022**Support Project** ☐**Alternative Preferred****Category** Resident in Study Area, Business
Owner in Study Area, Live/Work near
Study Area, Special Interest Group**Concerns Topics** Health, Cost, Appearance,
Location, Other,
Underground, Environment**Heard About** Public Meeting, Word of Mouth**Issues/Phone Message/Comments**

- 1) Damage to property value
- 2) Damage to the environment – including wildlife + native plants – I am a wildlife biologist
- 3) Noise + visual pollution
- 4) Fire hazard
- 5) Electromagnetic effects on health

Additional Info

- 1) Avoid residential areas completely – esp. in the Patagonia area
- 2) Put at least some short sections below ground to minimize visual pollution
- 3) Have S32 (the mine) pay for all of this project – i.e. no future cost to UniSource customers
- 4) Underground line by airport + near entrance to Lake Patagonia Rd.
- 5) Avoid entry to Lake Patagonia Rd.

Requested Info

- Ongoing decisions about route
 - Any environmental mitigations to help lessen the impact on our fragile ecology
-

Comment Method: Comment Form**Comment Date** 11/17/2022**Support Project** ☐**Alternative Preferred****Category** Resident in Study Area, Business
Owner in Study Area, Live/Work near
Study Area, Special Interest Group**Concerns Topics** Health, Cost, Appearance,
Location, Other,
Underground, Environment**Heard About****Issues/Phone Message/Comments**

- 1) Effects on the natural environment – wildlife/native plants/erosion
- 2) Decrease in property values
- 3) Noise pollution – humming/droning sounds
- 4) Increased fire hazards
- 5) Visual blight

Additional Info

- Make S32 mining operation pay for the long term maintenance of this line – do not pass the costs onto your average customer
- Do not go back on your word. Your map eliminated any route through the Lake Patagonia Estates area – keep them eliminated
- Underground lines by airport and entrance to Lake Pat. Rd.

Requested Info

- Ongoing updates on routes
 - Any efforts to mitigate environmental effects
-

Comment Method: Comment Form**Comment Date** 11/17/2022**Support Project**☐**Alternative Preferred****Category** Resident in Study Area, Live/Work
near Study Area**Concerns Topics** Appearance, Location,
Other, Environment**Heard About** Word of Mouth**Issues/Phone Message/Comments**

Patagonia Lake Estates is a well established neighborhood whose residents value their homes, property & beautiful vistas. This is why we live here. Transmission lines are unsightly, are a danger to the environment (massive fire hazard), damage property values & endanger wildlife.

Additional Info

I am greatly opposed to your transmission line running through our neighborhood. I believe you need to show more respect to the residents/citizens of Arizona. Spend the extra money to route the line away from our community you will still be profiting greatly using AZ land.

Requested Info

Some solid proof that you will actually address our concerns and change the route of your transmission line.

Comment Method: Comment Form**Comment Date** 11/17/2022**Support Project** ☐**Alternative Preferred****Category** Resident in Study Area**Concerns Topics** Location**Heard About****Issues/Phone Message/Comments**

I am president of the HOA - B. All residents are opposed to lines in Lake Patagonia Ranch. We do not support 84 & 94. Prefer 92, 93, 52B.

Additional Info

Our preference is to go East from the junction of 93 & 52B.

Requested Info

Please send us all updates on the ACC siting committee meeting to be held on this project on April 17-21 in Nogales.

Comment Method: Comment Form**Comment Date** 1/25/2023**Support Project** ☐**Alternative Preferred****Category** Resident in Study Area**Concerns Topics** Location, Other**Heard About** Newsletter Mailing, Public Meeting**Issues/Phone Message/Comments**

Proximity to our home - preferred route 95 is okay*, alternate route 75 is not acceptable, it borders our home on 2 sides. *we will see line clearly from our home.

Additional Info

Why was Soldier Basin route not even considered? What was in McCain/US Forest Service letter that caused Harshaw/Desquene Rd. to be discounted + 0 possibility as a route?

Requested Info

McCain/USFD letter; Soldier Basin reasons; preferred route in Flux Canyon wash

Comment Method: Comment Form**Comment Date** 1/25/2023**Support Project**☐**Alternative Preferred****Category** Live/Work near Study Area**Concerns Topics** Other, Underground,
Environment**Heard About** Newsletter Mailing**Issues/Phone Message/Comments**

I am concerned with environmental devastation. It seems the lines should be buried underground.

Additional Info**Requested Info**

What are you proposing to do with the power lines and poles that go exclusively to the mine when the mine closes?

Comment Method: Comment Form

<u>Comment Date</u>	1/25/2023	<u>Support Project</u>	<input type="checkbox"/>	<u>Alternative Preferred</u>
<u>Category</u>	Resident in Study Area	<u>Concerns Topics</u>	Appearance, Other, Underground, Environment	
<u>Heard About</u>	Project Website, Newsletter Mailing, Public Meeting, Word of Mouth			

Issues/Phone Message/Comments

Unsightly, effects to nature, views and property values!!!

Additional Info

Bury the lines!!!

Requested Info

Yes

Comment Method: WuFoo/Online**Comment Date** 9/8/2020**Support Project** ☐**Alternative Preferred****Category** Resident in Study Area, Live/Work
near Study Area**Concerns Topics****Heard About** Newsletter Mailing**Issues/Phone Message/Comments**

This upgrade is sorely needed. The wood power lines are old and service is unpredictable during wind or rain. Monopoles and renewable energy sources are a sign from a forward looking energy company whose customers are working and learning from home and require dependable energy to power our computers, etc..
Bring it on!

Additional Info**Requested Info**

Comment Method: WuFoo/Online**Comment Date** 9/15/2020**Support Project**☐**Alternative Preferred****Category** Resident in Study Area, Live/Work
near Study Area**Concerns Topics** Cost, Location, Other,
Environment**Heard About** Other**Issues/Phone Message/Comments**

How much will the transmission lines cost?

Who is expected to pay for them?

How will their installation affect Flux Canyon Rd? Does the plan include upgrading the road?

Where, exactly are the lines proposed to go?

What sort of environmental impact analyses of their installation have been done so far?

Additional Info**Requested Info**

Comment Method: WuFoo/Online**Comment Date** 9/15/2020**Support Project** ☐**Alternative Preferred****Category** Resident in Study Area**Concerns Topics** Other, Environment**Heard About** Newsletter Mailing, Word of Mouth**Issues/Phone Message/Comments**

1. Protection of water (aquifer & surface)
 2. Protection of wildlife, especially threatened & endangered species
 3. Preservation of the environment
 4. Respect for the local community
 5. Transparency in public communication
- Don't destroy the environment!
Respect the human beings & wildlife who live here!

Additional Info**Requested Info**

Comment Method: WuFoo/Online

Comment Date 9/15/2020

Support Project ☐

Alternative Preferred

Category

Resident in Study Area, Business
Owner in Study Area, Live/Work near
Study Area

Concerns Topics

Cost

Heard About

Project Website, Newsletter Mailing,
Public Meeting, Word of Mouth

Issues/Phone Message/Comments

What is the estimated cost of this project? How will it be paid for?

Additional Info

Requested Info

Comment Method: WuFoo/Online**Comment Date** 9/15/2020**Support Project** ☐**Alternative Preferred****Category** Live/Work near Study Area**Concerns Topics** Cost, Other, Environment**Heard About** Newsletter Mailing**Issues/Phone Message/Comments**

What impact will this have on the wildlife and plants in the area? What kind of traffic will be involved?
How will this be paid for?

Additional Info**Requested Info**

Comment Method: WuFoo/Online**Comment Date** 9/15/2020**Support Project** ☐**Alternative Preferred****Category** Live/Work near Study Area, Special
Interest Group**Concerns Topics** Cost, Location, Other**Heard About** Word of Mouth**Issues/Phone Message/Comments**

The degradation of this whole area, from mining in general, power lines, roadbuilding, etc., is a huge concern for us. We are half-year residents of Patagonia and hunt, hike, and horseback ride in Harshaw area.

Who will pay for the power line and how much will it cost?

Will Flux Canyon Road be further developed to accommodate this line?

Additional Info

The specific plans for placement of the power line.

When the public will be able to comment on these plans.

Requested Info

Comment Method: WuFoo/Online**Comment Date** 9/16/2020**Support Project** ☐**Alternative Preferred****Category** Other Interested Party**Concerns Topics** Cost, Other**Heard About** Word of Mouth**Issues/Phone Message/Comments**

What is the cost of this project?

Who is going to pay for this project?

Does the plan include upgrading Flux Canyon rd?

If so, what are the plans for this?

How will this project affect supplies to Washington Camp & Duquesne?

Additional Info**Requested Info**

Comment Method: WuFoo/Online**Comment Date** 9/18/2020**Support Project**☐**Alternative Preferred****Category** Live/Work near Study Area**Concerns Topics**Cost, Other, Underground,
Environment**Heard About** Other**Issues/Phone Message/Comments**

Above ground power lines are by now a major source endangering life and property. The economic value of new power lines needs to be considered in terms of the cost of damage power lines can inflict or indirectly, the cost of new mines to the environment. UniSource should become transparent on what new power lines means to "the People", not just a few mining stakeholders, and initiate a Referendum so people have a direct vote for or against. Please note the link below but I hope you are aware already about the situation the West is in today....
<https://apnews.com/d2c2ea5bcee64a08a52dc06bb4da4337>

Additional Info**Requested Info**

Comment Method: WuFoo/Online**Comment Date** 9/23/2020**Support Project** ☐**Alternative Preferred****Category** Resident in Study Area, Business
Owner in Study Area, Special Interest
Group**Concerns Topics** Health, Cost, Location,
Environment**Heard About** Public Meeting**Issues/Phone Message/Comments**

I live on flux canyon road. Will this road be affected by the proposed line? This is a small endangered canyon with abundant wild life and narrow blind curves. It should not be used for mining interests. Where exactly will the line be? I live here, right here, where the line will pass? Are there health issues that this may cause? This is a project without any value to local residents. Wildlife will be devastated. Our water supply is already in trouble. My water comes from flux and alum canyons. The cost, both in dollars and in environmental damage, of this proposed project. Who pays what?

Additional Info**Requested Info**

Comment Method: WuFoo/Online**Comment Date** 9/24/2020**Support Project** ☐**Alternative Preferred****Category** Resident in Study Area, Business
Owner in Study Area**Concerns Topics** Cost, Location, Other**Heard About** Word of Mouth**Issues/Phone Message/Comments**

What is the cost of this project?
Who will pay for the project?
What road improvements are planned for Flux Canyon Road?
Where precisely will the proposed substations be located?

Additional Info

I will participate in the ACC process and in the Forest Service NEPA process. This proposed project is an example of corporate welfare: we the people pay for a benefit for corporate profits. The residential property owners could receive improved reliability without the installation of a transmission line whose sole purpose is to provide power to a corporate operation.

Requested Info

Please add me to the mailing list of any future newsletter mailings. I did not receive this through the mailing. How did you choose recipients?

Comment Method: WuFoo/Online

Comment Date 9/24/2020

Support Project

☐

Alternative Preferred

Category Resident in Study Area

Concerns Topics Other

Heard About

Issues/Phone Message/Comments

Is there a possibility of this project needing to purchase right of way from private property?

Additional Info

Requested Info

Comment Method: WuFoo/Online

Comment Date 9/24/2020

Support Project ☐

Alternative Preferred

Category Live/Work near Study Area

Concerns Topics

Heard About Newsletter Mailing

Issues/Phone Message/Comments

No comment provided.

Additional Info

Requested Info

Comment Method: WuFoo/Online**Comment Date** 9/24/2020**Support Project** ☐**Alternative Preferred****Category** Live/Work near Study Area**Concerns Topics** Cost**Heard About** Newsletter Mailing**Issues/Phone Message/Comments**

How would a project like this be funded? Are current Unisource customers paying for this project, or might they pay for it in the future ? What is the cost of this project?

Additional Info**Requested Info**

Comment Method: WuFoo/Online**Comment Date** 9/24/2020**Support Project** ☐**Alternative Preferred****Category** Live/Work near Study Area**Concerns Topics** Cost, Appearance, Location**Heard About****Issues/Phone Message/Comments**

I totally oppose this project to run a power line through this unspoiled scenic area to the purpose of providing power to one commercial enterprise that should not go forward in the first place. Who is paying for this power line? Why don't you run these lines in your back yard and see how the community feels about it? All stakeholders should be considered, not just one corporation. The community should come first.

Additional Info**Requested Info**

Comment Method: WuFoo/Online**Comment Date** 10/6/2020**Support Project**☐**Alternative Preferred****Category** Live/Work near Study Area**Concerns Topics**Cost, Appearance, Other,
Environment**Heard About** Project Website, Public Meeting**Issues/Phone Message/Comments**

Just don't do it. Who is paying for the study?

This UGLY eyesore in the center of one of the greatest bio-diverse regions in the world?

"Doesn't decrease property values?" What study was done on this? This is simply not true.

OK. We can go along with this as long as EVERY member of your Board agrees to have one pole set up within 1/4 mile of their residence.

Come on folks, don't pave paradise to put up a power pole so that these Aussies can rip out our minerals and sell them to China.

This is not silly. It is stupid and short sighted.

Additional Info**Requested Info**

Comment Method: WuFoo/Online**Comment Date** 10/18/2020**Support Project** ☐**Alternative Preferred****Category** Resident in Study Area**Concerns Topics**Cost, Appearance, Other,
Underground, Historic,
Environment**Heard About** Project Website, Newsletter Mailing,
Public Meeting**Issues/Phone Message/Comments**

Protecting unique wildlife habitat

Fire risk

Character of landscape and scenic views

Cultural history and values

Additional Info

1. Recent, high-quality evidence concerning fire risk associated with new transmission and distribution lines, taking into account information on vegetation types and severe weather events in study area (wind and lightning)
2. Detailed analysis of relative costs and benefits to South32, versus the approximately 3000 individuals who are described as suffering from occasional service outages at present. Why isn't the primary user (South32) bearing the percentage of the new line's cost that is proportional to its benefit?
3. Undergrounding the proposed line
4. Plans for decommissioning the line when South32 terminates mining operations in the area
5. To what extent has the potential for adding capacity to existing infrastructure been explored, and what are the costs and benefits?
6. To what extent have clearance estimates taken the impact of frequent high winds and lightning strikes in the area into account?
7. How, and how much, monitoring is planned to ensure that sparking, downed lines, etc. do not result in fires?
8. Who will be financially responsible for any fires linked to the project? (during and after construction)

Requested Info

Comment Method: WuFoo/Online

Comment Date 4/26/2021

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Health

Heard About

Newsletter Mailing

Issues/Phone Message/Comments

My wife can't live near high power lines, she has a pacemaker.

Additional Info

Requested Info

Comment Method: WuFoo/Online**Comment Date** 5/15/2021**Support Project** ☐**Alternative Preferred****Category**Resident in Study Area, Business
Owner in Study Area, Live/Work near
Study Area, Special Interest Group,
Other Interested Party**Concerns Topics**

Other

Heard About

Project Website, Word of Mouth

Issues/Phone Message/Comments

Please remind Roberto and advise the members of the route selection committee that there are only a few people/families that own most of the vacant land in the study area and they have been working cooperatively to plan for and attract the additional industry that is urgently needed in the area between the Santa Cruz River and the Coronado National Forest. Including for a bi-national industrial park, new border crossing, development near the airport and the long-standing need for rail and interstate highway bypasses on the East side of Ambos Nogales.

Additional Info

That planning now needs to be coordinated with this planning. So the future power needs and supply can and will be available and possibly also for the related industrial growth in Sonora and more specifically on the 20,000 acres directly South of the Buena Vista Ranch. The people most familiar with this planning are myself, Mariposa Properties in Nogales and the owners of the Buena Vista Ranch land and is coordinating this planning with the Mexican land owners and State and Federal Government authorities.

Requested Info

Working cooperatively to explore the possibility that this routing and the required right-of-way(s) could be combined with those that will be required for the rail and highway by-passes South from Rio Rico to the border and beyond and for which considerable planning has already been done both as above and by the State of Sonora many years ago.

Comment Method: WuFoo/Online**Comment Date** 9/9/2022**Support Project** ☐**Alternative Preferred****Category** Resident in Study Area**Concerns Topics** Health, Other**Heard About** Newsletter Mailing**Issues/Phone Message/Comments**

I attended the Aug 25 2022 meeting remotely, and would like an update on when the transcript, and more importantly the detailed map and additional simulations you showed, will be made available to the public. I visited the ESRI site (I believe they created the detailed map) but it requires a password. This is my third formal request for a map with sufficient resolution to actually be informative to those of us who live in the study area.

Additional Info

The document you provide concerning the impact on property values is extremely one-sided, and the statistical analyses it reports are nonsensical. There are many more published analyses that could provide a more balanced view (e.g., Von Winterfeldt et al., Delaney & Timmons).

Also, please note that the "the absence of evidence" is NOT "evidence of absence." There are numerous reports, including from the sites you list, that indicate insufficient evidence to draw conclusions about impacts of ELFEM exposure on most aspects of human health, and some evidence that ELFEM exposure increases the risk of childhood leukemia (see IARC Monograph 2002 V 80).

Requested Info

When you will make the interactive map you promised at the meeting, and simulations in the study area near Lake Patagonia estates, available to the public?

Comment Method: WuFoo/Online**Comment Date** 9/10/2022**Support Project**☐**Alternative Preferred****Category** Resident in Study Area, Other
Interested Party**Concerns Topics** Appearance, Other,
Environment**Heard About** Newsletter Mailing**Issues/Phone Message/Comments**

This will greatly decrease our property values and mar a beautiful landscape.

Additional Info

I am disturbed by the amount of water that this mine will use and the environmental damage that will follow.

Requested Info

Comment Method: WuFoo/Online**Comment Date** 9/13/2022**Support Project** ☐**Alternative Preferred****Category** Resident in Study Area, Live/Work
near Study Area, Special Interest
Group**Concerns Topics** Other, Environment**Heard About** Other**Issues/Phone Message/Comments**

I have several concerns.

one I am in the study zone and have not been notified about any projects. I have attended the first meeting in 2021 via zoom and followed the meeting instructions to be put on the mailing notification list and have NEVER been notified.

Please add me.

the company selected for the Environmental Impact Study has the wrong goals and should be dismissed, for the following reasons;

their goal stated on their website is:specialized and challenging projects primarily serving the mining industry in Nevada, and throughout the west.

Utility and mining companies

We combine best practices with innovative approaches in a collaborative working dynamic that delivers the best possible outcomes for our clients.

Their goal should be to identify the impacts and come up with solutions.

Environmental Company hired to do the study. A study that DOES NOT include

Species specific studies

No migratory studies for birds

No plant species studies

Not in the field, done from a desk in an office not from here with no knowledge of local life.

This company should be dismissed.

I am writing all of this to the Arizona

<https://www.epa.gov/aboutepa/forms/contact-epa>

Certificate of Environmental Compatibility (CEC) from the Arizona Corporation Commission (ACC) before constructing the transmission line.

UNSE expects to file a CEC application in 2023 with the Arizona Power Plant and Transmission Line Siting Committee (Line Siting Committee),

<http://webuat.azcc.gov/arizona-power-plant/line-siting-committee>

https://eweb.irwaonline.org/eweb/upload/web_sepoct_2016_Translines.pdf

this project has been rejected by the Department of Forestry and our land is in connection with the Coronado National forest and we share the same flora and fauna. and this proposed study does not include species specific studies..

I have worked with other companies in their right to develop and there is a right way to do this and this is the wrong way.

I appose this project in its current form.

Additional Info

Comment Method: WuFoo/Online

I want to be on the notification email and mail please

Requested Info

I would like ALL correspondence and a copy of the EIR. sent to my home address

Comment Method: WuFoo/Online**Comment Date** 9/22/2022**Support Project**☐**Alternative Preferred****Category** Resident in Study Area**Concerns Topics** Appearance, Location**Heard About** Newsletter Mailing**Issues/Phone Message/Comments**

Totally opposed to power lines running thru our hoa, Lake Patagonia Estates. I have 90,000 dollars invested in Property and over 600,000 dollars in building investments, for the purpose of living with great views and quality of living. This project would ruin everything for us. Please consider an alternate plan. Thank you.

Additional Info

Plans

Requested Info

Comment Method: WuFoo/Online**Comment Date** 10/13/2022**Support Project** ☐**Alternative Preferred****Category** Resident in Study Area, Live/Work
near Study Area**Concerns Topics** Health, Appearance,
Location, Other**Heard About** Project Website**Issues/Phone Message/Comments**

There is no way I am living with 100ft power lines going down my road, in front and behind my property. The EMF's alone would make living under those conditions a health hazard and destroy the beauty of where I live. Not to mention decimating the value of my property. I will not accept looking at these awful poles, 75-110 feet high and some even higher???? Are you insane putting these in a residential area???? Patagonia lake is renowned for its spacious beauty and you want to turn it into a substation!

Additional Info**Requested Info**

Comment Method: WuFoo/Online**Comment Date** 10/13/2022**Support Project**☐**Alternative Preferred****Category** Resident in Study Area**Concerns Topics**Health, Appearance,
Location, Other,
Environment**Heard About** Project Website, Word of Mouth**Issues/Phone Message/Comments**

We are FULLY against this proposed line running anywhere near Lado de Loma dr. This area is a pristine, rural and beautiful area in the Patagonia Lake Estates and the proposed line would fully take away the natural beauty of this area.

We also run a wellness retreat which is our dream and passion project and building these lines on or near lado de loma would completely impact that business and take away from the "healing, wellness and tranquility" of what we offer our guests. Guests that come from all over the country for birding, hiking and visiting the town of Patagonia and Nogales.

This business is also our retirement plan. This line would destroy what we have built and the money we have put into this property in order to create a natural healing space.

Additional Info

Also, the health implications of living near these powerful lines. We would have to sell our dream home and business and move away from the area.

Requested Info

Comment Method: WuFoo/Online**Comment Date** 11/1/2022**Support Project** ☐**Alternative Preferred****Category** Resident in Study Area**Concerns Topics** Underground, Environment**Heard About** Word of Mouth**Issues/Phone Message/Comments**

This letter is written to ask for certain accommodations for the Rio Rico Hershaw 138 kv power line, so the power is safe and reliable.

Dependable and safe electricity is needed for the Hermosa 32 mine and the surrounding neighborhood.

We in this area are used to outages every time we have a wind event or Monsoon. The study area for this 138 kv power line is prone to wind, with the wind comes the risk of fire. The mine needs power it can count on for employee safety and to control the amount of water pumped into Hershaw creek.

This power source can not be intermittent.

I am asking that this power source be underground for reliability and safety.

This will be a new line let's do it right.

I would like these comments to be included in any hearings or proceedings concerning the Rio Rico Hershaw 138 KV transmission line.

Additional Info

these animals have been found and recorded in the study area please add them to your species studies

Elegant Trogon - rare tropical species

1

- Western Yellow-billed Cuckoo - federally threatened
- Osprey - locally rare
- Zone-tailed Hawk - predominantly tropical species
- Gray Hawk - relatively few breeding pairs in the entire U.S.
- Golden Eagle - locally rare
- Montezuma Quail - game bird with yearly fluctuating populations
- Southwestern Willow Flycatcher - federally endangered
- Jaguar - federally & globally endangered
- Ocelot - federally & globally endangered
- Mountain Lion - locally rare key predator
- American Black Bear - locally rare
- White-nosed Coati - unique tropical species
- American Badger - locally rare
- Collared Peccary - important prey species and ecological catalyst
- Antelope Jackrabbit - currently greatly diminished in numbers
- Mexican Long-tongued Bat - U.S. Fish & Wildlife Service Species of Special Concern
- Lesser Long-nosed Bat - rare
- Mule Deer - sensitive species & key prey item
- Whitetail Deer - sensitive species & key prey item
- Regal Horned Lizard - populations crashed within the last few decades
- Great Plains Skink - recorded in area, but previously thought not to live here
- Gila Monster - CITES listed

Comment Method: WuFoo/Online

- Desert Box Turtle - populations greatly diminished and at risk
- Sonoran Desert Toad - declining populations

In addition to the species list above, many other locally rare or accidental species make appearances on occasion, including:

- Elf - a rare Mexican stray butterfly
- Streak-backed Oriole

Requested Info

time line for approvals

Comment Method: WuFoo/Online

<u>Comment Date</u>	11/1/2022	<u>Support Project</u>	<input type="checkbox"/>	<u>Alternative Preferred</u>
<u>Category</u>	Resident in Study Area, Live/Work near Study Area	<u>Concerns Topics</u>		Health, Appearance, Location, Other, Environment
<u>Heard About</u>	Newsletter Mailing, Public Meeting, Other			

Issues/Phone Message/Comments

I have MANY issues. Eyesore, destruction of habitat, loss of property value, deterrence to bird flight and migration, health concerns, etc. My view looks directly toward the big wash between the end of Ranchero Ct. and the adjoining residential area on Baca Ct. The wash is a grazing area for longhorn cattle, and includes a pond. It is prime habitat for many mammals and birds, including the endangered gray hawk. I use this area regularly for recreation and know it well. Despite your stated interest in listening to public input, it's clear from the work already being done (major roadwork through the wash leading to an existing power pole on the corner of my lot) that you already decided some time ago what you intended to do and are just going through the motions regarding public input. All this to power a mine that will make a few wealthy Australians even wealthier —selling out to corporate interests over the interests of homeowners who will have to bear the consequences.

Additional Info**Requested Info**

Comment Method: WuFoo/Online**Comment Date** 11/3/2022**Support Project** ☐**Alternative Preferred****Category** Resident in Study Area**Concerns Topics** Location**Heard About** Word of Mouth**Issues/Phone Message/Comments**

The proposed routing through a private community along private roads, on private property concerns me. Please advise the details of virtual access to the Nov 17 meeting.

Additional Info**Requested Info**

Comment Method: WuFoo/Online**Comment Date** 11/4/2022**Support Project** ☐**Alternative Preferred****Category** Resident in Study Area, Business
Owner in Study Area, Live/Work near
Study Area, Special Interest Group**Concerns Topics** Health, Appearance,
Location, Other,
Underground, Environment**Heard About** Project Website, Newsletter Mailing,
Public Meeting, Word of Mouth,
Other**Issues/Phone Message/Comments**

As a 15 year resident and small business owner at Lake Patagonia Ranch Estates, I am strongly opposed to the proposed Power Line that you are contemplating through the Lake Patagonia Ranch Estates Residential area - between Rio Rico and the town of Patagonia. Instead, an underground route near the Nogales International Airport is a much more viable solution for everyone involved, and would diminish the multiple concerns of all the vocal homeowners that vehemently oppose the numerous negative impacts you will cause in our peaceful neighborhood.

Given the immediate proximity of Lake Patagonia State Park and adjoining Sonoita Creek State Natural Area, the Lake Patagonia Ranch Estates Neighborhood, and the exact location of this tranquil residential area forms a vital wildlife travel corridor for innumerable species, linking the Coronado National Forest to the south and Lake Patagonia State Park/Sonoita Creek State Natural Area to the north. As a result, it is host to a broad spectrum of native species.

As a small nature-based business owner, for the past 15 years we have led Birding & Biodiversity Birding Tours for all the AZ Birding Festivals and countless Birders from around the world. Therefore, we have meticulously monitored exactly which species occur in our 42-acre parcel off of the Circulo Montana road in the Lake Patagonia Ranch Estates Residential area. This includes 165 bird species, including Species of special concern that have been recorded:

Elegant Trogon - rare tropical species
 Western Yellow-billed Cuckoo - federally threatened
 Osprey - locally rare
 Zone-tailed Hawk - predominantly tropical species
 Gray Hawk - relatively few breeding pairs in the entire U.S.
 Golden Eagle - locally rare
 Montezuma Quail - game bird with yearly fluctuating populations
 Southwestern Willow Flycatcher - federally endangered
 Jaguar - federally & globally endangered
 Ocelot - federally & globally endangered
 Mountain Lion - locally rare key predator
 American Black Bear - locally rare
 White-nosed Coati - unique tropical species
 American Badger - locally rare
 Collared Peccary - important prey species and ecological catalyst
 Antelope Jackrabbit - currently greatly diminished in numbers
 Mexican Long-tongued Bat - U.S. Fish & Wildlife Service Species of Special Concern
 Lesser Long-nosed Bat - rare

Comment Method: WuFoo/Online

Mule Deer - sensitive species & key prey item
 Whitetail Deer - sensitive species & key prey item
 Regal Horned Lizard - populations crashed within the last few decades
 Great Plains Skink - recorded in area, but previously thought not to live here
 Gila Monster - CITES listed
 Desert Box Turtle - populations greatly diminished and at risk
 Sonoran Desert Toad - declining populations

In addition to the species list above, many other locally rare or accidental species make appearances on occasion, including:

Elf - a rare Mexican stray butterfly
 Streak-backed Oriole
 Peregrine Falcon & many others

Therefore, one of my main objections against any version of a power line route coming through the Lake Patagonia area concerns biodiversity. Our Sky Islands region is world renowned for the number of different wildlife and native plant species it contains. The Center for Biological Diversity, based in Tucson, has identified our Sky Islands region as one of their priority areas for global biodiversity conservation. So have Defenders of Wildlife, Sky Islands Alliance, The Nature Conservancy, and eminent Harvard biologist E.O.Wilson. Here are some highlights of our biodiversity, which would be irreparably harmed by an above-ground power line placed in the Lake Patagonia area:

Over 500 species of birds - among the highest totals of any region in North America and including:
 the most hummingbird species of any U.S. state
 the most sparrow species on Earth
 many "Mexican Specialty" species, more reminiscent of the tropics, such as Elegant Trogon, Varied Bunting, and Montezuma Quail
 About 108 mammal species - the most in North America, including:
 4 species of felines, including endangered Jaguars and Ocelots
 4 species of Skunk
 White-nosed Coati and other mammals more typical of the tropics
 29 species of Bat
 More reptiles species, including lizards and snakes, than any comparable area in North America
 The most Bee species on Earth
 More than 60 species of land snails, some endemic to the region
 More ant species than any other temperate area on the planet
 About 2,100 species of plants in the U.S. portion of the Sky Islands

Santa Cruz County, is one of the most diverse areas for native flora and fauna - exactly where you are proposing to alter and destroy habitat via your new Power Line. Inherently, your Power Line will create a wide swath of habitat destruction and disruption in our residential area. And to make matters worse, ironically, this Power Line will only serve ONE CUSTOMER - an even more destructive mining company.

Without a doubt, it is all of our collective responsibilities to protect our unique local natural environments for future generations. Biodiversity is the foundation for a sustainable economy based on renewable natural resources. Unless

Comment Method: WuFoo/Online

current and future development is done carefully, thoughtfully, and wisely we easily can destroy and squander the very qualities that make this part of Arizona's Sky Islands so special. Our area is highly fragile, so please, choose the least environmentally destructive Power Line route. Clearly this route, should not come through the Lake Patagonia area.

In addition, this project will negatively impact all our property values by ramrodding a Power Line through the Lake Patagonia Ranch Estates area as you would be greatly destroying and disturbing the plants and wildlife of this key region - something that many residents moved here to enjoy and protect! Certainly, we have all made substantial financial investments over decades to live in a wild rural area far away from EMF's, noise pollution, habitat destruction, erosion, fire hazards, visual blights, reduced property values, and other major negative effects that your proposed Power Line would cause.

Therefore, on behalf of all the residents at the Lake Patagonia Ranch Estates, I urge you to help protect our Sky Islands region for generations to come by placing your Power Line underground by the Nogales International Airport - using existing roads and infrastructure - instead of ruining the natural environment in our exclusively residential area.

As it stands today, I completely oppose this project in its current form. PLEASE STOP considering the Lake Patagonia Ranch Estates in your Power Line route plans to avoid further neighborhood disturbances and upheaval.

Additional Info

This Power Line, which would serve only ONE CUSTOMER - an environmentally destructive mine - should NOT be put through ANY residential area.

Requested Info

A thorough, unbiased, third-party environmental assessment with Environmental Experts studying such a critical issue at ground level. We need "boots on the ground" before we forever destroy the unique biodiversity that makes this area a tourism hot spot in the country!

Comment Method: WuFoo/Online**Comment Date** 11/4/2022**Support Project** ☐**Alternative Preferred****Category** Resident in Study Area, Business
Owner in Study Area, Live/Work near
Study Area, Special Interest Group**Concerns Topics** Health, Appearance,
Location, Other,
Underground, Environment**Heard About** Project Website, Newsletter Mailing,
Public Meeting, Word of Mouth**Issues/Phone Message/Comments**

I am writing this letter in strong protest to the proposed power lines that potentially will be put through the Lake Patagonia Ranch Estates area in between Rio Rico and the town of Patagonia. An underground route near the Nogales International Airport is a much more viable solution for everyone involved and would negate any concerns of local homeowners.

One of my main complaints against any version of a power line route coming through the Lake Patagonia area concerns biodiversity. Our Sky Islands region is world renowned for the number of different wildlife and native plant species it contains. The Center for Biological Diversity, based in Tucson, has identified our Sky Islands region as one of their priority areas for global biodiversity conservation. So have Defenders of Wildlife, Sky Islands Alliance, The Nature Conservancy, and eminent Harvard biologist E.O. Wilson. Here are some highlights of our biodiversity, which would be irreparably harmed by an above-ground power line placed in the Lake Patagonia area:

Over 500 species of birds - among the highest totals of any region in North America and including:

the most hummingbird species of any U.S. state

the most sparrow species on Earth

many "Mexican Specialty" species, more reminiscent of the tropics, such as Elegant Trogon, Varied Bunting, and Montezuma Quail

About 108 mammal species - the most in North America, including:

4 species of felines, including endangered Jaguars and Ocelots

4 species of Skunk

White-nosed Coati and other mammals more typical of the tropics

29 species of Bat

More reptiles species, including lizards and snakes, than any comparable area in North America

The most Bee species on Earth

More than 60 species of land snails, some endemic to the region

More ant species than any other temperate area on the planet

About 2,100 species of plants in the U.S. portion of the Sky Islands

Within Santa Cruz County, one of the most diverse areas for native flora and fauna is exactly where you are proposing to alter and destroy habitat via your new power line. Further, the line will only serve one customer - an even more destructive mining company. Taken by itself, your power line will create a wide swath of habitat destruction and disruption. When added to the other planned developments of Santa Cruz County, the power line will be one of many such destructive activities. Thus, the expression "death by a thousand cuts" comes to mind.

Comment Method: WuFoo/Online

Given the immediate proximity of Lake Patagonia State Park and adjoining Sonoita Creek State Natural Area, the Lake Patagonia Ranch estates region is host to a broad spectrum of native species. Over the years some residents have meticulously monitored exactly which species occur here. This includes 165 bird species recorded on just one 42-acre parcel off of the Circulo Montana road. Species of special concern that have been recorded in the Lake Patagonia Ranch Estates area include:

Elegant Trogon - rare tropical species
Western Yellow-billed Cuckoo - federally threatened
Osprey - locally rare
Zone-tailed Hawk - predominantly tropical species
Gray Hawk - relatively few breeding pairs in the entire U.S.
Golden Eagle - locally rare
Montezuma Quail - game bird with yearly fluctuating populations
Southwestern Willow Flycatcher - federally endangered
Jaguar - federally & globally endangered
Ocelot - federally & globally endangered
Mountain Lion - locally rare key predator
American Black Bear - locally rare
White-nosed Coati - unique tropical species
American Badger - locally rare
Collared Peccary - important prey species and ecological catalyst
Antelope Jackrabbit - currently greatly diminished in numbers
Mexican Long-tongued Bat - U.S. Fish & Wildlife Service Species of Special Concern
Lesser Long-nosed Bat - rare
Mule Deer - sensitive species & key prey item
Whitetail Deer - sensitive species & key prey item
Regal Horned Lizard - populations crashed within the last few decades
Great Plains Skink - recorded in area, but previously thought not to live here
Gila Monster - CITES listed
Desert Box Turtle - populations greatly diminished and at risk
Sonoran Desert Toad - declining populations

In addition to the species list above, many other locally rare or accidental species make appearances on occasion, including:

Elf - a rare Mexican stray butterfly
Streak-backed Oriole
Peregrine Falcon
...& many others

Thus, it is all of our collective responsibilities to protect our local natural environments for future generations. Biodiversity is the foundation for a sustainable economy based on renewable natural resources. Unless current and future development is done carefully, thoughtfully, and wisely we easily can destroy and squander the very qualities that make this part of Arizona's Sky Islands so special. Our area is highly fragile, so the least environmentally destructive power line route must then be chosen. Clearly this route, then, should not come through the Lake

Comment Method: WuFoo/Online

Patagonia area. Further, this exact location forms a vital wildlife travel corridor for innumerable species, linking the Coronado National Forest to the south and Lake Patagonia State Park/Sonoita Creek State Natural Area to the north.

By ramrodding a power line through the Lake Patagonia Ranch Estates area you would be greatly destroying and disturbing the plants and wildlife of this key region - something that many residents moved here to enjoy and protect. What no one moved here for is the habitat destruction, noise, erosion, fire hazards, visual blights, reduced property values, and other major negative effects that your proposed power line would bring.

Clearly, the best solution to protect our Sky Islands region is to place your power line underground by the Nogales International Airport - using existing roads and infrastructure - and not to ruin the natural environment in an exclusively residential area. As it stands, I completely oppose this project in its current form. Stop considering the Lake Patagonia Ranch Estates in your powerline route plans.

Additional Info

This powerline, which would serve only one customer - an environmentally destructive mine - should NOT be put through ANY residential area. Period.

Requested Info

Why the so-called environmental assessment will not even have people studying the issue at ground level. Without "boots on the ground" any such study is a farce an an affront to anyone's intelligence. I am a Wildlife Biologist and Naturalist living in the study zone and know all to well the devastating impacts such a power line project will have on the area's fragile environment.

Comment Method: WuFoo/Online**Comment Date** 11/13/2022**Support Project** ☐**Alternative Preferred****Category** Resident in Study Area, Business
Owner in Study Area, Live/Work near
Study Area**Concerns Topics** Location, Environment**Heard About** Newsletter Mailing**Issues/Phone Message/Comments**

AMI is a 100% foreign owned subsidiary of the Australian company, South 32. The total acreage of their project is less than 700 acres of private land. They propose a lifespan for this project to be about 20 years. This small, foreign, short-lived company should not permanently change a 30 mile stretch of the very scenic SE Santa Cruz County. Not only will this intrusive power line last much longer than 20 years it will also encourage other electric power users to establish intrusive projects within our National Forest. This new line that is to service one company should not be allowed to create a very long-term change that affects all of the residents in SE Santa Cruz County.

Additional Info**Requested Info**

Comment Method: WuFoo/Online**Comment Date** 11/15/2022**Support Project** ☐**Alternative Preferred****Category** Resident in Study Area, Live/Work near Study Area, Other Interested Party**Concerns Topics** Health, Cost, Appearance, Location, Other, Underground, Environment**Heard About** Project Website, Newsletter Mailing, Public Meeting, Word of Mouth, Other**Issues/Phone Message/Comments**

- 1- Health concerns of people living adjacent to new proposed lines.
- 2- Property values will go down.
- 3- Easement encroachment on property owners. Loss of use of property. Affect on property both physical and aesthetically.
- 4- Affect on wildlife. Disruption of biodiversity of this area.
- 5- Environmental impact. Fire hazard of above ground lines in an area very susceptible to fire due to high winds and lightning.
- 6-The (Electric and Magnetic Fields) and (Property Value Study Information) items that are posted on your website seem to be outdated and/or irrelevant to this area. Please provide relevant information on these topics.

Additional Info

<https://www.hdrinc.com/insights/top-5-reasons-use-underground-transmission-lines>

Requested Info

- 1- The specific reasons why some routes were already eliminated from the study
 - 2-The project description says 20 to 30 miles of new lines.Could someone show the 20 mile option and the 30 mile option.
 - 3-Are there preliminary estimates of cost for all the routes shown? Have underground options been included in any estimates? Has there been any thought given to a solar generation plant for the mine requirements?
 - 4-Who pays for maintenance of the system after construction. What are the long term plans for decommissioning or re-distribution?
-

Comment Method: WuFoo/Online**Comment Date** 11/16/2022**Support Project** ☐**Alternative Preferred****Category** Resident in Study Area, Business
Owner in Study Area, Live/Work near
Study Area**Concerns Topics** Appearance, Location,
Renewable Energy**Heard About** Newsletter Mailing**Issues/Phone Message/Comments**

AMI is a 100% owned subsidiary of the foreign company South 32.

South 32 has few than 700 acres of private land they can mine.

South 32 says it plans to have a 20-year life span for this project.

A 30-mile 138 Kilovolt Transmission line cutting across our very scenic County would be a terrible eyesore for us.

I do not believe that one foreign company on a very small parcel of land surrounded by National Forest that says it will be working for 20 years should have the power to change our scenic view for the long foreseeable future.

This project should not be permitted.

On-site renewable energy should be created for such an isolate, rural mining project.

Additional Info

This project should not be permitted.

Requested Info

Comment Method: WuFoo/Online**Comment Date** 11/18/2022**Support Project** ☐**Alternative Preferred****Category** Resident in Study Area**Concerns Topics**Location, Underground,
Environment**Heard About****Issues/Phone Message/Comments**

under grounding the power lines would stop the negative affect of wild life and migratory birds.

Eco tourism is a way for people in our community to pay for their homes. Many people rent out their homes, or rooms in their homes. The activities that draw people into our area are the birds and animals.

The best birding time is March thru September.

Part-time Patagonia resident, novelist and screenwriter – Legends of the Fall – Jim Harrison hit the nail on the head when he called the area “preposterously beautiful.” The best months for birding are March through September as migrant hummingbirds, warblers, vireos, flycatchers, orioles and tanagers pass through, joining strays from Mexico and resident hummers and breeders.

Patagonia is a gateway community for the Arizona Trail and has local trails for shorter jaunts. It is only a few miles to Patagonia Lake State Park, which offers a variety of recreational options, including boat rentals. The Tucson Audubon Society operates the famous Paton Hummingbird Center, a long-time favorite for birders from all over the world. Just down the road from Paton’s on the edge of town, the Nature Conservancy manages the world-renowned Patagonia-Sonoita Creek Preserve.

Patagonia is a year-round destination for active outdoor recreation: camping, boating, fishing, mountain biking and bird-watching are enjoyable and accessible year-round.

A butterfly garden, gazebo, and shaded picnic tables are found in Patagonia’s tree-lined central park, where festivals, concerts, and barbecues punctuate the seasons. Visitors strolling along the main streets find a number of galleries and boutiques catering to shoppers seeking that special artisan-crafted gift. Founded as a mining and ranching center, the town has evolved to become as a haven for artists, artisans, and nature lovers.

Since there are limited hotel rooms available most people rent air B and Bs.

Benefits to the community from Ecotourism:

- sustainable rural development based on environmental protection
- the creation of jobs
- education and awareness about endangered animals and climate change
- the improvement of life quality for locals
- understanding of and sensitivity towards other cultures

The effect of such large above ground powerlines to the birds and mammals will detoured, or change completely their migration and negatively affect the community.

Additional Info

Please consider getting power from the other direction and arranging a lease with the other power company. By doing this you will keep the power line out of the National Forest.

Requested Info

Comment Method: WuFoo/Online

For Safe and reliable Power that should be the standard you strive for.
most Power companies are now undergrounding all power lines for safety no fires, and reliability. our current overground powerlines go out every time, every time it is windy or raining. This is not reliable.
underground these lines.

Comment Method: WuFoo/Online**Comment Date** 11/20/2022**Support Project** ☐**Alternative Preferred****Category** Resident in Study Area**Concerns Topics** Appearance, Location,
Environment**Heard About** Public Meeting**Issues/Phone Message/Comments**

Looking at your map, my evaluation suggests these links: 71, 74B, 88, 89A, 101, 102, 92, (staying south of Link 92 and South of White Oak Ranch would be preferable. There is a large drainage which crosses Hwy. 82.) 93, 52B, 53.

US Forest Service Lands are preferable to private particularly south of Flux Canyon and the private in holdings. The routing in Flux Canyon (private lands) seems very messy.

Existing right of ways should be considered over new corridors.

Consideration of the view sheds in this unique ecosystem and the protection of the grasslands, which are rare, should be a priority in the siting for this powerline.

Additional Info

Having the towers blend to the background of sky and grassland is an important factor in managing the visual impacts of the powerline.

The use of the lighter shaded galvanized towers in most instances blend better than the darker rust colored towers. The strong light and blue sky in Arizona assist the lighter color to fade into the sky and horizon.

Requested Info

Comment Method: Voicemail/Toll-Free

Comment Date 9/11/2020

Support Project ☐

Alternative Preferred

Category

Concerns Topics

Heard About

Issues/Phone Message/Comments

No comment given.

Additional Info

Requested Info

Comment Method: Voicemail/Toll-Free**Comment Date** 5/3/2021**Support Project** ☐**Alternative Preferred****Category** Resident in Study Area**Concerns Topics****Heard About** Newsletter Mailing**Issues/Phone Message/Comments**

Me acabo de llegar una hoja de que es de los recibos de la luz y quería saber sobre de qué se trata esto? Nosotros vivimos en Nogales Arizona. A page just arived in the mail like the ones with my light bill. I wanted to know what it is about. We live in Nogales Arizona.

Additional Info**Requested Info**

Comment Method: Voicemail/Toll-Free**Comment Date** 8/9/2022**Support Project**☐**Alternative Preferred****Category****Concerns Topics**

Other

Heard About**Issues/Phone Message/Comments**

Called asking where their property was in relation to the links in the map. They weren't able to tell easily where they lived on the map.

Additional Info**Requested Info**

Comment Method: Voicemail/Toll-Free**Comment Date** 8/10/2022**Support Project** ☐**Alternative Preferred****Category****Concerns Topics**

Other

Heard About**Issues/Phone Message/Comments**

Called the Customer Service Line because when they looked on the project website there was only old information. They then asked about the distribution line south of the proposed Harshaw substation and whether or not it would be fixed.

Additional Info**Requested Info**

Comment Method: Voicemail/Toll-Free

Comment Date 8/10/2022

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Other

Heard About

Issues/Phone Message/Comments

Confused by the numbers on the map. Would like a key for what all the numbers mean.

Additional Info

Requested Info

Comment Method: Voicemail/Toll-Free

Comment Date 8/10/2022

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Other

Heard About

Issues/Phone Message/Comments

Want to learn more about the project.

Additional Info

Want to know where my property is in relation the line.

Requested Info

What is the line for? How can I listen to the meeting on August 25?

Comment Method: Voicemail/Toll-Free**Comment Date** 8/10/2022**Support Project**☐**Alternative Preferred****Category****Concerns Topics**

Location

Heard About**Issues/Phone Message/Comments**

Very concerned about the links that are all around their property. They were confused as to what the numbers meant. They asked about the difference between the active and inactive preliminary links.

Additional Info**Requested Info**

Comment Method: Voicemail/Toll-Free

Comment Date 8/12/2022

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Other

Heard About

Issues/Phone Message/Comments

On behalf of her grandfather who received a newsletter. Would like a follow up call to find out more about the project.

Additional Info

Requested Info

Comment Method: Voicemail/Toll-Free

Comment Date 8/12/2022

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Other

Heard About

Issues/Phone Message/Comments

I own a few lots in Rio Rico and I would like some more information on the project and whether it concerns my property.

Additional Info

Requested Info

Comment Method: Voicemail/Toll-Free**Comment Date** 10/11/2022**Support Project**☐**Alternative Preferred****Category****Concerns Topics**

Location

Heard About**Issues/Phone Message/Comments**

I am a property owner in Lake Patagonia Ranch Estates and I would like to express my opposition to the Rio Rico to Harshaw 138kV transmission line if it crosses residential property line. I think it would be better if it were aligned with SR 82 and away from private property. I would appreciate your consideration.

Additional Info**Requested Info**

Comment Method: Voicemail/Toll-Free**Comment Date** 10/17/2022**Support Project**☐**Alternative Preferred****Category****Concerns Topics**

Location

Heard About**Issues/Phone Message/Comments**

Property owner at Lake Patagonia Ranch estates, I vehemently oppose the power line coming through the area and on the Scenic Route. I really hope you go somewhere else with the line that does not benefit Arizonans at all.

Additional Info**Requested Info**

Comment Method: Voicemail/Toll-Free**Comment Date** 10/17/2022**Support Project**☐**Alternative Preferred****Category****Concerns Topics**

Appearance, Location

Heard About**Issues/Phone Message/Comments**

I live at Patagonia lake Ranch estates, I live on Lado de Loma. There are some major concerns that our neighborhood will be used as a pathway for the powerline. I really want to gather some factual information and I would like to hear from someone directly because it seems very vague where you want to put the line.

Additional Info**Requested Info**

Comment Method: Voicemail/Toll-Free**Comment Date** 12/13/2022**Support Project** ☐**Alternative Preferred****Category****Concerns Topics****Heard About****Issues/Phone Message/Comments**

I'd like to speak with one of your outreach people about the Harshaw line project please. Thank you, I look forward to your call.

Additional Info**Requested Info**

Comment Method: Voicemail/Toll-Free**Comment Date** 12/15/2022**Support Project** ☐**Alternative Preferred****Category****Concerns Topics****Heard About****Issues/Phone Message/Comments**

I've been leaving messages looking for someone to call me back. I live at lake Patagonia and I am coming up to Tucson on the 22nd, and I would like to meet with somebody to talk to get a firmer understanding of the routes you all are looking at for the power line. Please call me back so I can schedule a get together so I can look at this stuff with somebody. Thank you

Additional Info**Requested Info**

Comment Method: Voicemail/Toll-Free**Comment Date** 1/23/2023**Support Project** ☐**Alternative Preferred****Category****Concerns Topics****Heard About****Issues/Phone Message/Comments**

I am calling from Illinois and I have property in the Rio Rico area in Santa Cruz County. I am wondering if the transmission line is near my property. I would appreciate a call back thank you.

Additional Info**Requested Info**

Comment Method: Voicemail/Toll-Free**Comment Date** 2/2/2023**Support Project**☐**Alternative Preferred****Category****Concerns Topics**

Location

Heard About**Issues/Phone Message/Comments**

I own property in Santa Cruz County and it appears, first of all the map we got, the information we got on your open house, we just received today so we were unable to make the meeting to ask more questions. But it appears that the preferred route of your line is close to our property in the edge of royal roads estate??, we also have property off Patagonia hwy. I would like to understand how close to our property this line is, does it cross the property, not that I would be upset I just want to know where the line is going to be.

Additional Info**Requested Info**

Comment Method: MetroQuest

Comment Date 5/3/2021

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Location

Heard About

Issues/Phone Message/Comments

Link F-2; I do prefer this line is on the south eastern side of Hwy 82 so it does not effect the sonoita creek

Additional Info

Requested Info

Comment Method: MetroQuest**Comment Date** 5/3/2021**Support Project**☐**Alternative Preferred****Category****Concerns Topics**

Location, Environment

Heard About**Issues/Phone Message/Comments**

Link F-2; Special Species Habitat

Additional Info

This area is an oasis for migrating species. Please put this line on the other side of SR-82. The Sonoita creek habitat especially under drought conditions is very sensitive not to mention it feeds into Patagonia Lake

Requested Info

Comment Method: MetroQuest

Comment Date 5/3/2021

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Location, Environment

Heard About

Issues/Phone Message/Comments

Link F-2 disrupts environment

Additional Info

I'm concerned about Sonoita Creek and its eco system especially migrating birds and as a water source feeding into the Patagonia Lake

Requested Info

Comment Method: MetroQuest

Comment Date 5/7/2021

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Location

Heard About

Issues/Phone Message/Comments

Link 21

Additional Info

Requested Info

Comment Method: MetroQuest

Comment Date 5/14/2021

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Location, Historic

Heard About

Issues/Phone Message/Comments

Link 14, 15; Historic site or structure

Additional Info

Mission Los Santos

Requested Info

Comment Method: MetroQuest

Comment Date 5/14/2021

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Location, Environment

Heard About

Issues/Phone Message/Comments

Link 5; Disrupts fish, wildlife or plant habitat

Additional Info

Requested Info

Comment Method: MetroQuest

Comment Date 5/14/2021

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Location

Heard About

Issues/Phone Message/Comments

Link 5; concern

Additional Info

Requested Info

Comment Method: MetroQuest**Comment Date** 5/24/2021**Support Project**☐**Alternative Preferred****Category****Concerns Topics**

Appearance, Location

Heard About**Issues/Phone Message/Comments**

Link 54; Safety issue

Additional Info

Crossing HI 82 will put the lines next to the mailboxes of over 50 households. Residents of Lake Patagonia Ranch (HOA) stop here daily for mail. Also all campers and RVs going to Patagonia Lake State Park or the Sonoita Creek Natural Area will pass along this high traffic area. Keeping the line on the other side of 82 would be much safer. Also some homes in the HOA will have these lines in their viewshed and near their homes, especially on Azteca Ct.

Requested Info

Comment Method: MetroQuest

Comment Date 5/24/2021

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Location

Heard About

Issues/Phone Message/Comments

Link F-2

Additional Info

Requested Info

Comment Method: MetroQuest**Comment Date** 5/25/2021**Support Project**☐**Alternative Preferred****Category****Concerns Topics**

Location, Environment

Heard About**Issues/Phone Message/Comments**

Link 54; Special Species Habitat

Additional Info

Patagonia Lake has over 300 migratory and local birds. It is a unique resource. Birders come from around the world because Sonita Creek and the Lake are an important bird area. Migration is an issue along the length of highway 82. that should be addressed in your planning

Requested Info

Comment Method: MetroQuest

Comment Date 5/28/2021

Support Project ☐

Alternative Preferred

Category

Concerns Topics

Heard About

Issues/Phone Message/Comments

Outside of Study Area

Additional Info

Requested Info

Comment Method: MetroQuest**Comment Date** 5/31/2021**Support Project**☐**Alternative Preferred****Category****Concerns Topics**

Environment

Heard About**Issues/Phone Message/Comments**

West of Mine, not near links

Additional Info

This is my and every American's public land. It is not for one foreign company to use and destroy the natural beauty and disrupt the wildlife

Requested Info

Comment Method: MetroQuest

Comment Date 6/1/2021

Support Project ☐

Alternative Preferred

Category

Concerns Topics

Heard About

Issues/Phone Message/Comments

Not near Link; Noise/Communications interference

Additional Info

Requested Info

Comment Method: MetroQuest**Comment Date** 6/1/2021**Support Project** ☐**Alternative Preferred****Category****Concerns Topics**

Environment

Heard About**Issues/Phone Message/Comments**

Outside of Study Area; Safety issue

Additional Info

We had our second Harshaw area fire today that each required large tanker aircraft, observer planes, and fire fighters on the ground to contain. We are experiencing drought and everything organic is subject to combustion if it is exposed to high-energy power lines and/or maintenance that requires ignition for any operation. This is the most fire-prone region in southern Arizona. Each of the "exemplars" shown in (separate) propaganda is imperiled by this proposed development.

Requested Info

Comment Method: MetroQuest**Comment Date** 6/2/2021**Support Project**☐**Alternative Preferred****Category****Concerns Topics**

Environment

Heard About**Issues/Phone Message/Comments**

Outside of Study Area; Disrupts fish, wildlife or plant habitat

Additional Info

This area is famous for its biological diversity and physical beauty. Any high-power electrical field could cause combustion of plant and mineral storage yards and the murder of thousands of wildlife and plants including large pines and mariposa. The blockage of animal migration could literally result in species extinction.

Requested Info

Comment Method: MetroQuest

Comment Date 6/5/2021

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Environment

Heard About

Issues/Phone Message/Comments

West of Mine, not near links; Special Species Habitat

Additional Info

Requested Info

Comment Method: MetroQuest

Comment Date 11/17/2022

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Appearance, Location,
Other

Heard About

Issues/Phone Message/Comments

Link 92; Is too visible

Additional Info

Destroys property value based on view of land

Requested Info

Comment Method: MetroQuest

Comment Date 11/17/2022

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Health, Location,
Environment

Heard About

Issues/Phone Message/Comments

Link 94; Noise/Communications interference

Additional Info

electromagnetic field in a lightning field

Requested Info

Comment Method: MetroQuest

Comment Date 11/17/2022

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Location, Environment

Heard About

Issues/Phone Message/Comments

Link 90; Disrupts environment

Additional Info

major animal corridor

Requested Info

Comment Method: MetroQuest

Comment Date 11/17/2022

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Location, Underground

Heard About

Issues/Phone Message/Comments

Link 94; Is on/near my property

Additional Info

if this is the route, should be underground along this stretch

Requested Info

Comment Method: MetroQuest

Comment Date 11/18/2022

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Appearance, Location,
Underground, Environment

Heard About

Issues/Phone Message/Comments

Link 94; Is on/near my property

Additional Info

I have a 800,000 dollar investment on going. This route will affect nature in the area and our view from our home being built. Please seek an alternative or go under ground.

Requested Info

Comment Method: MetroQuest

Comment Date 11/18/2022

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Location, Underground

Heard About

Issues/Phone Message/Comments

Link 92; Is on/near my property

Additional Info

Put undergrounds

Requested Info

Comment Method: MetroQuest

Comment Date 11/18/2022

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Location, Underground

Heard About

Issues/Phone Message/Comments

Link 91; Is too visible

Additional Info

Put underground

Requested Info

Comment Method: MetroQuest

Comment Date 11/18/2022

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Location, Underground

Heard About

Issues/Phone Message/Comments

Link 102; Is too visible

Additional Info

Put underground

Requested Info

Comment Method: MetroQuest

Comment Date 11/18/2022

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Location, Underground

Heard About

Issues/Phone Message/Comments

Link 94; Is on/near my property

Additional Info

Put underground

Requested Info

Comment Method: MetroQuest

Comment Date 11/21/2022

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Appearance, Location

Heard About

Issues/Phone Message/Comments

Link 94; Is too visible

Additional Info

is too close to this residence and too visible by our home

Requested Info

Comment Method: MetroQuest

Comment Date 11/21/2022

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Appearance, Location

Heard About

Issues/Phone Message/Comments

Link 94

Additional Info

Too close to this residence and too visible for neighbors to north including us.

Requested Info

Comment Method: MetroQuest

Comment Date 11/21/2022

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Appearance, Location

Heard About

Issues/Phone Message/Comments

Link 92; Is too visible

Additional Info

Too close to residence and too visible from many homes just north including ours.

Requested Info

Comment Method: MetroQuest

Comment Date 11/21/2022

Support Project ☐

Alternative Preferred

Category

Concerns Topics

Heard About

Issues/Phone Message/Comments

Like link 89A

Additional Info

Requested Info

Comment Method: MetroQuest

Comment Date 11/21/2022

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Location

Heard About

Issues/Phone Message/Comments

Link 102; Can this route move east nearer to 82?

Additional Info

Requested Info

Comment Method: MetroQuest

Comment Date 11/21/2022

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Location

Heard About

Issues/Phone Message/Comments

Link 101; Can this route continue closer to 82 and then head north?

Additional Info

Requested Info

Comment Method: MetroQuest

Comment Date 11/21/2022

Support Project ☐

Alternative Preferred

Category

Concerns Topics

Heard About

Issues/Phone Message/Comments

Like link 88

Additional Info

Requested Info

Comment Method: MetroQuest

Comment Date 11/21/2022

Support Project ☐

Alternative Preferred

Category

Concerns Topics

Heard About

Issues/Phone Message/Comments

Like link 101/102; Does not disrupt my view

Additional Info

Run line NE directly to south end of segment. This puts it as far as possible from residences noted above.

Requested Info

Comment Method: MetroQuest**Comment Date** 11/21/2022**Support Project**☐**Alternative Preferred****Category****Concerns Topics**

Location

Heard About**Issues/Phone Message/Comments**

Link 91,102,92,94

Additional Info

All of the above. This possible node is too close to several homes (and not far from my home). Find a route that is south of this to cross over or link to the existing poles on highway 82 to go north.

Requested Info

Comment Method: MetroQuest

Comment Date 11/21/2022

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Location

Heard About

Issues/Phone Message/Comments

Link 94; Is on/near my property

Additional Info

Requested Info

Comment Method: MetroQuest

Comment Date 11/21/2022

Support Project ☐

Alternative Preferred

Category

Concerns Topics

Heard About

Issues/Phone Message/Comments

Like link 93; Does not disrupt my view

Additional Info

Run line directly from this point SW to east end of segment 101. This puts it as far as possible from residences noted above including ours.

Requested Info

Comment Method: MetroQuest

Comment Date 11/21/2022

Support Project ☐

Alternative Preferred

Category

Concerns Topics

Heard About

Issues/Phone Message/Comments

Like link 89A; Has minimal disruption to environment

Additional Info

This symmetric route follows existing corridors and minimize astetic impact

Requested Info

Comment Method: MetroQuest**Comment Date** 11/21/2022**Support Project**☐**Alternative Preferred****Category****Concerns Topics**

Appearance, Location

Heard About**Issues/Phone Message/Comments**

Link 98; Is too visible

Additional Info

Someone pays alot of taxes and has invested heavily to live here. Now someone elses interests will supercede without consideration all for profit

Requested Info

Comment Method: MetroQuest**Comment Date** 12/4/2022**Support Project**☐**Alternative Preferred****Category****Concerns Topics**

Health, Location

Heard About**Issues/Phone Message/Comments**

Link 84; Is on/near my property

Additional Info

We don't want this anywhere near our property, we plan to retire here. The EMF's are horrendous and can cause severe illness.

Requested Info

Comment Method: MetroQuest

Comment Date 12/17/2022

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Location

Heard About

Issues/Phone Message/Comments

Link 97B,52B, 53; Is on/near my property

Additional Info

Requested Info

Comment Method: MetroQuest

Comment Date 12/18/2022

Support Project ☐

Alternative Preferred

Category

Concerns Topics

Heard About

Issues/Phone Message/Comments

Like link 93; Does not disrupt my view

Additional Info

Requested Info

Comment Method: MetroQuest

Comment Date 12/19/2022

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Location

Heard About

Issues/Phone Message/Comments

Link 84; Is on/near my property

Additional Info

Requested Info

Comment Method: MetroQuest

Comment Date 12/20/2022

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Location

Heard About

Issues/Phone Message/Comments

Link F-2; Is on/near my property

Additional Info

Requested Info

Comment Method: Email**Comment Date** 9/23/2020**Support Project** ☐**Alternative Preferred****Category****Concerns Topics**

Other

Heard About**Issues/Phone Message/Comments****Additional Info**

I would like to be notified of all meetings and filings for the Rio Rico to Harshaw power line.

I would like to see the location for the powerLine being proposed.

I would like to know the strength of the power line being proposed, the height of the poles and their locations

Requested Info

Comment Method: Email**Comment Date** 11/29/2020**Support Project** ☐**Alternative Preferred****Category** Live/Work near Study Area**Concerns Topics** Other**Heard About****Issues/Phone Message/Comments**

Lake Patagonia Ranch Property Owners Association A (LPRPOA) would like to be on your mailing list for all community communications regarding the proposed Rio Rico to Harshaw transmission line.. LPRPOA represents 172 property owners near SR 82 and Lake Patagonia Road.

Also, just a head-up, the link for making a comment is not operational.

Additional Info**Requested Info**

Comment Method: Email**Comment Date** 2/26/2021**Support Project** ☐**Alternative Preferred****Category****Concerns Topics**

Other

Heard About**Issues/Phone Message/Comments**

Per our conversation;

You were going to look into why I was not on the mailing list since my home is in the study zone, and I filled in the form on the website.

You were going to make sure I am on the list.

Send me an email invite for the next zoom meeting,

I can't remember that date.

You were going to see where the labels for the public notification came from, since I checked with the county registrars and I am listed as the owner and my address is correct.

I would like to be kept informed of proposed routes, filing of environmental reports,

Meetings, changes in proposed project, and public comment deadlines.

Additional Info**Requested Info**

Comment Method: Email**Comment Date** 3/1/2021**Support Project**☐**Alternative Preferred****Category****Concerns Topics**Location, Other,
Environment**Heard About** Project Website**Issues/Phone Message/Comments**

I live in Patagonia, and am concerned about the proposal to put a major transmission line through the study area you have mapped in your website <https://www.uesaz.com/rio-rico-to-harshaw/>.

* When will the public be informed of the specific routes you are exploring, both within the current study area, and the "alternative routes" that are mentioned?

* The study area is a scientifically identified area of critical biodiversity. What steps are being taken to evaluate the effects of 20-30 miles of 100 foot wide interruption in pristine countryside? Who is doing the study?

Additional Info**Requested Info**

Comment Method: Email**Comment Date** 3/1/2021**Support Project** ☐**Alternative Preferred****Category** Live/Work near Study Area**Concerns Topics** Location**Heard About****Issues/Phone Message/Comments**

Here's some more input.

You seem to be studying a route through the Circle Z Guest Ranch and the Nature Conservatory.

You are kidding right?

Are the Aussies really making this SO attractive for you in terms of monthly utility bills?

Why not grow more sensitive to the world and less to money grubbing miners?

Additional Info**Requested Info**

Comment Method: Email

Comment Date 3/19/2021

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Other

Heard About

Issues/Phone Message/Comments

Was hoping on an update for the next meeting?
It was mentioned in our last email April or May.

Additional Info

Requested Info

Comment Method: Email

Comment Date 6/1/2021

Support Project ☐

Alternative Preferred

Category

Concerns Topics

Heard About

Issues/Phone Message/Comments

How can I access a recording of this event? Thank you.

Additional Info

Requested Info

Comment Method: Email**Comment Date** 2/1/2022**Support Project** ☐**Alternative Preferred****Category** Stakeholder**Concerns Topics** Location**Heard About** Other**Issues/Phone Message/Comments**

After speaking with Mr. Waldrup (FAA), and Renee Darling with Tucson Electric Power Company (TEPC), we have made a determination. FAA recommends TEPC utilize the Eastern proposed link. If the Eastern link cannot be utilized and TEPC has to use the Western link, FAA recommends the minimum distance between the outer perimeter of the CBP site and the link tower be at least, if not more than the height of the link tower. (80'-120') This minimum distance will protect the CBP site from a possible tower fall, and protect the site from signal interference. TEPC stated that the link towers have 600' spacing. This spacing can be manipulated. FAA recommends that there be a tower placed 500' south of the CBP site and 100' North to reduce compromising CBP view shed. If there are any questions or concerns, please let me know.

Additional Info**Requested Info**

Comment Method: Email**Comment Date** 8/12/2022**Support Project** ☐**Alternative Preferred****Category****Concerns Topics**

Other

Heard About**Issues/Phone Message/Comments**

Thank you for soliciting queries.

The information disseminated to date, while quite extensive, is missing some critical information.

Questions:

1.How tall are the proposed towers/monopoles? What is the pole diameter and the proposed pole color? Will they have horizontal crossbeams their tops, and if so, how wide?

2.What is the spacing between the towers/poles?

3.How wide would be the right-of-way underneath the wires? Would it be cleared to ground level?

4.What is the mean height of the trees in the segments running through National Forest (specifically, the segments F-2 through F-5 and segment F-7B2)?

Many thanks in advance for providing specific quantitative answers to these questions.

Additional Info**Requested Info**

Comment Method: Email**Comment Date** 8/13/2022**Support Project**☐**Alternative Preferred****Category****Concerns Topics**

Other

Heard About**Issues/Phone Message/Comments**

We received the mailing with the map and preliminary links yesterday. Please explain how we can identify and locate the numbered links - this map is so general that it is impossible for stakeholders to interpret or make comments. (The so-called high resolution .pdf on your website is identical to the mailing.) Please send additional details on the map as soon as possible, so that we can prepare to participate virtually in the Aug 25 meeting.

Thank you, and thanks in advance for letting me know that you received this message.

Additional Info**Requested Info**

Comment Method: Email**Comment Date** 8/16/2022**Support Project** ☐**Alternative Preferred****Category****Concerns Topics**

Location

Heard About**Issues/Phone Message/Comments**

I am a property owner within the Harshaw Transmission Line proposal. You have sent me a bulletin including a map of the revised study area and preliminary links (Q3 2022). The map, however, has little value in locating links with owners' properties because of any identifying labels that owners could use to locate their specific locations such as other roads like Patagonia Lake Road or Acorn Dr. ,in my case. Even routes such as the El Paso Gas Line which you said the Transmission Line would follow are not labeled on the map. As a result, when you wrote in your newsletter that property owners..are encouraged to use identifying numbers on the map to share thoughts or concerns, we can't do that because we can't figure out where we are on your map.

I have two properties within the revised study area. I would like to know where exactly which link numbers are the closest to these properties as I can tell that they are in my neighborhood. Even if they do not abut my property, the presence of the lines , their construction and visibility, will affect my living environment just as the other pending disruptions by South32 will do.

Please send me a more specific map which shows my properties on your links map so I can respond as you urged me to in your newsletter. You can send it to this email address or my mailing address.

Additional Info**Requested Info**

Comment Method: Email**Comment Date** 8/26/2022**Support Project**☐**Alternative Preferred****Category****Concerns Topics**Appearance, Location,
Other, Environment**Heard About****Issues/Phone Message/Comments**

I live in the lake Patagonia states properties. I am extremely concerned about the projected new powerline construction on 82. I am retired and part of my income is from a small Airbnb I run from my home. The draw for people to my business is partly the view and partly the birding. From my home Patagonia's are viewable from the guest bedroom. The projected construction would place the pole line across the view. Just as importantly, I am extremely concerned about the effects that it will have on wildlife. 80 to 90% of all my guests have come specifically for the birding. Prior to retirement I was a lineman. I worked in close connection with power and I'm well aware of how wildlife can be affected by the electrical currents. There is always a hum around that voltage. There is the potential for static electricity to build up around the area. Many times I have stood underneath these lines while I was working and the hairs on my arms would stand on end. Animals are much more affected by this type of phenomenon than humans. Patagonia lake and the area around it are homes to many special species. Birding is a draw not just for my Airbnb but economically for the entire area. The animals in the area help balance the natural setting. Disrupting this natural setting well, in my opinion and many others, cause untold harm. As you well know, there are many ground or a shrub nesting birds. Removing their habitat and encroaching on their safe space merely for the sake of additional power to a business is not worth the loss and damage to this sanctuary area. People move here for the quiet and the sense of nature. The construction of this type of powerline will be detrimental to people selling property. New buyers will not be drawn here because what used to be a draw would be gone. I understand that the idea of making money off of this short term is probably very enticing but the long-term effects on homeowners, wildlife, and visitors to this area will be detrimental to all.

Additional Info**Requested Info**

Comment Method: Email**Comment Date** 9/1/2022**Support Project**☐**Alternative Preferred****Category****Concerns Topics**

Other

Heard About**Issues/Phone Message/Comments**

As an affected community resident, I attended the August 25 in-person meeting at the Americana Hotel in Nogales. At the event, there were numerous maps, visuals, slide shows that showed more detailed information than is available in the only map that is currently available.

When I asked to get a copy of some of the information displayed at the event, I was told that they would all be put on the website. To date, the information obtainable at the website has not changed: there are no additional maps or photos.

Please notify me when you do provide the information promised.

Additional Info**Requested Info**

Comment Method: Email**Comment Date** 9/1/2022**Support Project** ☐**Alternative Preferred****Category****Concerns Topics**

Other

Heard About**Issues/Phone Message/Comments**

We appreciated the opportunity to participate in the recent (Aug 25) zoom call on the Rio Rico to Harshaw transmission line plans.

At that meeting, I again requested a more detailed map of the revised study area (as I had done a few weeks before the meeting). In response the presenters displayed a detailed interactive map including what appeared to be individual lot lines in the Lake Patagonia estates area. They also told us that they would “see if they could make the map accessible” to us after the meeting.

I’m sure you understand that it is impossible to have a discussion of the study area and links without having a decent map. I don’t see the map on the website as of today. Please let us know when you make it available, ideally through the website but if not by emailing us the link that you used at the meeting. And if you are not making it available, please explain the reason for that too.

We would also appreciated being notified when the finalized simulations, including the areas north and west of Ruby Road, are available.

Additional Info**Requested Info**

Comment Method: Email**Comment Date** 10/11/2022**Support Project**☐**Alternative Preferred****Category****Concerns Topics**

Location

Heard About**Issues/Phone Message/Comments**

I am a Lake Patagonia Ranch Estates property owner and I am in opposition to this project if it would cut thru private land owners property. If I am reading the proposed transmission line route it looks like it would follow existing utility and road corridors, i.e., State route 82, in which case I would not be opposed to. I do hope that that is the case.

Additional Info**Requested Info**

Comment Method: Email**Comment Date** 11/1/2022**Support Project** ☐**Alternative Preferred****Category****Concerns Topics****Heard About****Issues/Phone Message/Comments**

Could you please share with me the time line for picking the route for the Rio Rico Hershaw power line, then getting the approved Environmental certificate and then the Power line committee approval?

Is there a time when UniSource will narrow down the routes?

Additional Info**Requested Info**

Comment Method: Email

Comment Date 11/5/2022

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Heard About

Issues/Phone Message/Comments

We are owners of a lot in the Kino Springs development.

Will the transmission line have any effect on our property, which is currently undeveloped??

Additional Info

Requested Info

Comment Method: Email**Comment Date** 11/10/2022**Support Project** ☐**Alternative Preferred****Category****Concerns Topics****Heard About****Issues/Phone Message/Comments**

We received the attached notice regarding the proposed Rio Rico to Harshaw Transmission Line Project in proximity to the address referenced above. Based on the interactive map on the project website, it does not look like our property will be impacted. Can you please confirm that the project will not impact our site, and that no rights (permanent, temporary, or otherwise) will be acquired from our property?

Additional Info**Requested Info**

Comment Method: Email**Comment Date** 11/13/2022**Support Project**☐**Alternative Preferred****Category****Concerns Topics**Appearance, Location,
Other, Environment**Heard About****Issues/Phone Message/Comments**

As a resident of Lake Patagonia Ranch Estates I wish to submit the following points for your consideration.

1. Why run high voltage lines through a neighborhood of year round residents when there is vacant land close by?
2. Any spark from the lines would quickly cause a devastating, expensive fire. Lake Patagonia is not in a Fire District and is dependent on response from Patagonia's volunteer fire department.
3. The visual detracting, increased fire risk and need for easements thru private property for maintenance purposes will all negatively impact the property values.

Thank you in anticipation of your addressing these issues and/or finding an alternate route through unpopulated land.

Additional Info**Requested Info**

Comment Method: Email**Comment Date** 11/14/2022**Support Project** ☐**Alternative Preferred****Category****Concerns Topics**Health, Location, Other,
Environment**Heard About****Issues/Phone Message/Comments**

I am a property owner within Lake Patagonia Ranch Estates and I am vehemently opposed to the proposed routing of UniSource Energy's 138kv transmission line from Rio Rico to Patagonia Hills running through Lake Patagonia Ranch Estates for several reasons:

1. Fire danger. Our area has been severely impacted by drought for several decades and is currently an abundant source for fuel for a wildfire. We just need to look to California and the devastating impact PG&E's transmission line-caused fires have had. We most definitely do not want that to occur in our area. Further, we are not in a fire district, relying instead on the Patagonia Volunteer Fire department.
2. Transmission lines devalue property. They are visually repugnant and adversely impactful to their surrounding environment. Who wants to live among transmission lines?
3. High-power transmission lines have been associated with a number of health problems -- including childhood cancers -- which cannot and must not be ignored.
4. Lastly, why in the world would UniSource propose running its line through a beautiful, 40-year old community such as Lake Patagonia Estates, as well as devaluing neighboring communities, when there are massive amounts of wide open, undeveloped land within Santa Cruz County?

I implore you: Please do not adversely impact our community, our environment, our lifestyle, our children, and our property values by the placement of this transmission line through Lake Patagonia Ranch Estates.

Additional Info**Requested Info**

Comment Method: Email**Comment Date** 11/14/2022**Support Project**☐**Alternative Preferred****Category****Concerns Topics**Health, Appearance,
Location, Other,
Environment**Heard About****Issues/Phone Message/Comments**

We have lived at Lake Patagonia Ranch since 1998. We moved from Phoenix to enjoy clean air, hiking and the beautiful country. I am writing this email in opposition to the proposed routing of UniSource Energy's 138kv transmission line from Rio Rico to the Hermosa mine in the Patagonia hills through Lake Patagonia Ranch Estates for several reasons:

1. Fire danger. Southern Arizona has been in a decades-long drought and our recent monsoons have left an environment with dry vegetation and plenty of grasses - perfect conditions for a wildfire. I don't need to remind you about California and the devastating impact PG&E's transmission line-caused fires. We do not want that to occur in our area. In addition, Lake Patagonia Estates is not located in a fire district, We rely on the Patagonia Volunteer Fire Department, a small organization that is very good at what they do but has limited resources.
2. Transmission lines devalue property. They visually pollute the skyline and negatively impact wildlife and the surrounding environment. As a retired couple on a fixed income, our home is an important asset and we need to protect its value.
3. High-power transmission lines have been associated with a number of health problems -- including childhood cancers. We have a number of young families living here that should be considered.

There are large amounts of open and undeveloped land in Santa Cruz County and we wonder why UniSource would choose to run your lines through an established neighborhood with a 40 year history? Surely, there are other routes under consideration that do not disrupt residential neighborhoods?

Once again, my husband and I oppose the placement of this transmission line through Lake Patagonia Ranch Estates.

Thank you for your consideration.

Additional Info**Requested Info**

Comment Method: Email**Comment Date** 11/15/2022**Support Project** ☐**Alternative Preferred****Category****Concerns Topics****Heard About****Issues/Phone Message/Comments**

I am unable to access the interactive map for the RR2 Harshaw project. I have been able to in the past. It seems to be password protected. I have attended meetings and would like to make further comments on route selections.

Additional Info**Requested Info**

Comment Method: Email**Comment Date** 11/16/2022**Support Project**☐**Alternative Preferred****Category****Concerns Topics**

Location, Environment

Heard About**Issues/Phone Message/Comments**

My wife and I have just purchased 30 acres on Baca Road this past March. We were stunned to learn about the plans to create transmission lines across this area. Why is it necessary to construct in this location and what is the justification for building them at all? Is this endeavor going to improve quality of life? Or is it serving a financial mining objective which has an unknown result? Such speculation, as mining has always been, should be researched thoroughly as to avoid environmental risk to those whose lives might be compromised. The hubris behind the horrific California fires a few years have largely been left at the doorstep of the Electrical companies. This should be the road map to avoid.

Please reconsider your plans.

Additional Info**Requested Info**

Comment Method: Email**Comment Date** 11/16/2022**Support Project** ☐**Alternative Preferred****Category****Concerns Topics**

Location, Environment

Heard About**Issues/Phone Message/Comments**

I am a Board member of Patagonia Area Resource Alliance, a non-profit organization working to protect the Patagonia Mountains and Sonoita Creek Watershed from the impacts of 21st century industrialized mining. Thank you for the opportunity to again comment about the proposed Rio Rico to Harshaw 138kV Transmission Line Project. I repeat these comments shared during the August 25, 2022 public meeting:

1. This region is identified by scientists as one of the top regions in the world most in need of protection for species survival.* There are significant concerns about the disruption of the habitat for more than the 100 federally endangered, threatened, and sensitive species known to inhabit this area. It is critical to take every precaution necessary to protect the wildlife (whether four legged, two legged, multilegged, or winged).
2. A chapter in my life is as the co-owner of a power line construction company. I was not the technical person, but I know enough to challenge the statement that this proposed line will improve service for residential and other electric customers in the San Rafael Valley, Washington Camp, and Lochiel areas. It is my understanding that the transmission line will stop at South32's to be built sub-station and will then be stepped down to continue on the existing distribution line that serves those residential customers. I have heard that the existing distribution line is unreliable and it should also be physically replaced if this project goes forward. Otherwise, UniSource is making an empty promise to residential customers to gain approval of this project.

Additional Info**Requested Info**

Comment Method: Email**Comment Date** 11/17/2022**Support Project** ☐**Alternative Preferred****Category****Concerns Topics**

Location, Other, Historic

Heard About**Issues/Phone Message/Comments**

I am opposed to this project as it goes along the Santa Cruz River area/flood plains. I live in the Kino Springs/Estancia Yerba Buena Area and in view of this potential project.

This potential line will go along the Santa Cruz River flood plain and the community in Kino Springs /Estancia Yerba Buena that has spent the time and expense to have no overhead utilities services. It is a historic valley and a quiet beautiful place.

This potential transmission line also will go over the Hwy 82, a Scenic Highway.

I am less than a mile (as the bird flies) from this proposed project, I live on Mission Court, near the former Kino Springs Golf Course Club House, and will be able to see this transmission lines if completed as proposed. This area , the former Golf Course Club, has a new direction and this transmission lines will not be at all be the right fit next to a eco community and affect our values.

I oppose this transmission line and the UES / mine project should find another path.

Additional Info**Requested Info**

Comment Method: Email**Comment Date** 11/21/2022**Support Project** ☐**Alternative Preferred****Category****Concerns Topics**

Location, Environment

Heard About**Issues/Phone Message/Comments**

Please reconsider your decision and move the proposed line to LINKS 92 to 93 across HW 82.

This would avoid a route through Lake Patagonia Estates.

We home and land owners are here because we value and appreciate the beauty of this area.

Lake Patagonia is a very popular area that is populated and enjoyed by many .

We are under a drought, the vegetation is extremely dry. It would not take much to spark a fire.We are all aware of the Transmission lines sparks that caused incredible devastation to the homes and land in California.

We in Lake Patagonia ranch are not in a Fire District. We rely entirely on the Patagonia Volunteer Fire Department for emergencies.

There is open land that you could use to save our neighborhood.We are all responsible tax paying Arizona citizens , we just want to protect our hard earned neighborhood.

Additional Info**Requested Info**

Comment Method: Email**Comment Date** 1/13/2023**Support Project** ☐**Alternative Preferred****Category****Concerns Topics**

Location

Heard About**Issues/Phone Message/Comments**

This is only showing the northern route. Have you abandoned consideration of the southern route via the Duquesne Road, that would bring this new power line close to Kino Village and be only about 3 miles North of the border at the Buena Vista Ranch immediately West of the Coronado Forest.. Where we are actively negotiating for a new border crossing and a bi-national Industrial Park; which would create a huge new power need opportunity for Unisource to sell power and possibly also export it to the eastern side of Nogales Sonora. Where there is a lot of new residential growth spreading East and a lot more may be required, to accommodate a lot of the “near shoring” industrial repatriation that the U.S. Federal Government is now actively encouraging.

If we get that new crossing approval, there is a strong possibility/probability that the Hermosa Mine will want to use it to get their ores to smelters; which may also now be in Mexico, because the U.S. Government also does not want them to pursue their original plan which was to ship most of the ore to China for smelting.

South32 could be very helpful getting us the crossing approval all of this will require; which could then also be very good for Unisource’s growth opportunities. Could Unisource help us with that?

Hopefully I will have a chance to meet you and to discuss these possibilities with some of your planners, at your Information Meeting at the Americana Hotel on January 25th.

Additional Info**Requested Info**

Comment Method: Email**Comment Date** 1/23/2023**Support Project** ☐**Alternative Preferred****Category****Concerns Topics**

Health, Environment

Heard About**Issues/Phone Message/Comments**

Below, undersigned provides a response to the invitation in your newsletter received by email on January 12, 2023, to comment on the plans of UNSE to install a 20 mile long, 138 kV transmission line from a new switchyard in Rio Rico, to a new "Harshaw Substation" near the site of the AMI/South32 Hermosa Mine, the main user of the transmitted power. It is understood that comments received may be used as input in the UNSE application for a Certification of Environmental Compatibility (CEC) to be granted by the Arizona Corporation Commission (ACC).

It is further understood from your newsletter that most of the east part of the line follows Flux Canyon Road in the Patagonia Mountains, Santa Cruz County, which is public land managed by the Coronado National Forest (CNF) and is part of the Sonoita Creek watershed of which the alluvial aquifer is the main source of water for area residents and where endangered species have been identified in the past. The CEC application precedes a Special Use Permit application where CNF will conduct an environmental impact study that may lead to mitigation measures UNSE has to implement in order to comply with federal standards.

Concerns about public safety and health as well as protection of the environment, led to the following comments on the content of an ACC regulated CEC for the proposed transmission line:

1.The factors considered by ACC in reviewing a CEC application are, as mentioned in the newsletter, listed in ARS 40-360-06. This section reads in article (A) as follows: " The committee (ACC?) may approve or deny an application and may impose reasonable conditions on the issuance of a certificate of environmental compatibility and in so doing shall consider the following factors as a basis for its action with respect to the suitability of either plant or transmission line siting plans:....", and then lists nine factors you also refer to in the newsletter. Unfortunately, these are powerless regulations when only "compatibility" is demanded and not "compliance" and when the ACC only "may impose reasonable conditions" - and not "shall adhere" to (next quote is from the last part of factor # 9) ".....

Applicable federal and state laws".

2.In your newsletter, you do not mention ARS 40-360-06(B), which states that "The committee (ACC?) shall give special consideration to the protection of areas unique because of biological wealth or because they are habitats for rare and endangered species". Again, "special consideration" is a vague and ill-defined term but nowhere in your newsletter you mention to which statutes of which Arizona agency you will adhere to when it comes to protect rare and endangered species.

3.In your newsletter, you do not mention ARS 40-360-06©(1) either; It includes: "... that the applicant comply (sic) with all applicable Air and water pollution control standards and regulations, but shall not require....compliance with performance standards other than those established by the agency having primary jurisdiction over a particular pollution source". Transmission lines may not emit pollutants directly but they will indirectly via significantly enhanced erosion due to soil disturbance and removal of vegetation along the route of the line. As a result, increased water pollution from leached heavy metals is to be expected (see next item). In Arizona water quality is under the jurisdiction of the Arizona Department of Environmental Quality (ADEQ) and the corresponding regulations and rules apply to your application as well, including the general obligation "to demonstrate that there is no cause or contribution to an exceedance of water quality standards". It is not mentioned in your newsletter that UNSE has recognized this "control and performance" obligation.

4.In the context of metal mobility in the Patagonia Mountains, the University of Arizona thesis of K. Eddleman on bio-

Comment Method: Email

accumulation of heavy metals, published in 2012 and reviewed and funded by US Geological Survey (USGS) and CNF, shows that Flux Canyon is among the locations with soils and grasses contaminated with heavy metals leached from legacy mining waste piles and acid-leaking tunnels as well as from naturally exposed, mineralized rock. The hazards these processes impose on public health and environment already led in 2007 to the designation of the Patagonia Mountains by USGS, as a Mineralized Eco System for which additional CEC factors may have to be included, as suggested by USGS.

5.The danger of above-ground transmission lines causing wildfires is well documented, especially for areas that experience long periods of drought and intense monsoon storms, like Arizona. Adding another above-ground line, traversing mountainside grasslands and heavily wooded areas at higher elevations, should therefore be avoided at all costs to protect public and private property as well as the biodiversity the area is well known for. This is not mentioned anywhere as a CEC factor, nor is it mentioned in your newsletter.

6.In view of the above it is important to quote ARS 40-336 where ACC “may” use its power to “promote and safeguard the health and safety of its employees, passengers, customers and the public....”. Fire and aquifer water pollution hazards are certainly within the range where ACC may “....require the performance of any other act which health and safety requires”. Although the ACC is not obliged to impose safety measures, your newsletter does not indicate how the mentioned safety hazards are going to be addressed to start with.

Herewith I respectfully request a timely notice of receipt of this email as I cannot attend the mentioned open house meeting on January 25, 2023, in Nogales. Undersigned also submitted much less elaborate comments using the limited space available by your web link.

Additional Info**Requested Info**

Comment Method: Email**Comment Date** 1/26/2023**Support Project** ☐**Alternative Preferred****Category****Concerns Topics****Heard About****Issues/Phone Message/Comments**

I hope this email finds you well! I work for the Nogales-Santa Cruz County Chamber of Commerce. I am reaching out today to request information that can be shared within our network regarding the Rio Rico-Harshaw 138kV Transmission Line Project.

Please add this email address to receive any newsletters, community announcements, etc., in which the Chamber will share updates through its social media channels and weekly newsletters.

We greatly appreciate any assistance that you can provide.

Additional Info**Requested Info**

Comment Method: Email**Comment Date** 1/30/2023**Support Project** ☐**Alternative Preferred****Category****Concerns Topics****Heard About****Issues/Phone Message/Comments**

We have attended previous meetings for the Rio Rico-Harshaw Transmission Line Project and requested to be added to stakeholder distribution list. It seems that we are not receiving the newsletters, so we were not notified of the most recent public outreach meeting.

Could you please confirm that the following individuals (listed below) are added to the stakeholder list? And could we receive a copy of the presentation materials from last week?

I look forward to hearing from you. Thank you.

Additional Info**Requested Info**

Comment Method: Other**Comment Date** 8/18/2022**Support Project** ☐**Alternative Preferred****Category****Concerns Topics** Other**Heard About****Issues/Phone Message/Comments**

I've spoken to Roberto about this as well as I noticed that Melanie Lawson from South32 is on, but Santa Cruz would just like to continue the discussion on the potential to have broadband or some kind of fiber optics or point to point as you guys built this and so if we could continue that discussion we would love to continue to have this.

Additional Info**Requested Info**

Comment Method: Other**Comment Date** 8/18/2022**Support Project** ☐**Alternative Preferred****Category****Concerns Topics**

Other

Heard About**Issues/Phone Message/Comments**

To that point that, and thank you for bringing that up. The states this last legislative session did create the broadband office to the ACA, the Arizona Commerce Authority, and there is going to be some federal funds coming in so I really encourage all of you to have conversations with the state in regards to funding and moving that forward in regards to broadband because it's very important. Again, thank you for bringing that up.

Additional Info**Requested Info**

Comment Method: Other

Comment Date 8/18/2022

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Cost

Heard About

Issues/Phone Message/Comments

What is the estimated cost of building this line?

Additional Info

Requested Info

Comment Method: Other**Comment Date** 8/18/2022**Support Project** ☐**Alternative Preferred****Category****Concerns Topics**Cost, Other, Renewable
Energy**Heard About****Issues/Phone Message/Comments**

With that being said, I don't understand how it would not impact ratepayers. This project being paid. Can you elaborate?

Additional Info

In regards to solar, is there going to be anything that's out there by mine? In the presentation there was renewable energy mentioned, and I'm just wondering how that would play out in regards to that to this project.

In regards to that, recharge stations, any plans for that as well? Because right now the state of Arizona has been talking about actually doing that through ADOT, again, with federal funding, and I'm wondering if TEP was going to be planning on doing recharge stations. I mean, the opportunities there we talked about fiber, we talked about renewable energy, so let's talk about the recharging stations.

That is correct, Evs.

Requested Info

Thank you. Right now ADOT is having these conversations regarding these recharge stations, so I encourage TEP and South32 to be part of those conversations. And if whatever I can do to assist this is really going to help my constituents in that area in all that we're talking about, so please, use me as a connector. I would really like this to happen. Appreciate it.

And if I may, I'm going to put my contact information if someone can email me so that I can start having those conversations. I usually work with Steven from TEP. And so if that's the person, I see somebody nodding, is that the person I need to? Okay, I can start with Steve.

Okay. Thank you. So, Adriana will be getting contact with Steve and then if you can coordinate this I would like to have that, sorry I won't take up the rest of the meeting. Thanks.

Comment Method: Other

Comment Date 8/18/2022

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Location

Heard About

Issues/Phone Message/Comments

Are these routes mostly affecting ranch grazing area or are they mostly affecting areas where there are residential lots?

Additional Info

Requested Info

Comment Method: Other**Comment Date** 8/25/2022**Support Project** ☐**Alternative Preferred****Category****Concerns Topics**

Other

Heard About**Issues/Phone Message/Comments**

Zoom in to street parcel level it looks like the routes are now in my and other front yards as precious routes. Just curious because you can't really see where a line is with respect to a particular neighborhood or something like that. I understand the concepts that you were just are talking about by the airport because I know if I remember correctly that you thought your more appropriate routes were down River Road and now they're cutting across. It's just hard to see exactly where something is in such a large area and down to specific levels, we can't see roads or streets, subdivisions stuff like that but yes, I saw you had the wow I didn't realize they were that many parcels.

Additional Info

Yeah, I know I live in an area where only a quarter of the lots are built on.

So, is this map online?

Requested Info

Could you pan to the east? Where's 74? I think it was 74 was 73, 75, I guess.

OK so now I see where I'm like halfway between 76 and the park so it may have an impact but it's like I look out and if something's there it's going to be there. That's good you're just showing there I could almost zero in what I think is my parcel.

Comment Method: Other

Comment Date 8/25/2022

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Heard About

Issues/Phone Message/Comments

The website mentioned that you've done visual simulations for the CEC, can you show those, or can we access them?

Additional Info

Requested Info

Comment Method: Other**Comment Date** 8/25/2022**Support Project** ☐**Alternative Preferred****Category****Concerns Topics**

Location

Heard About**Issues/Phone Message/Comments**

I represent quite a few people in Flux Canyon that are not speaking right now who do not want this giant powerline to go through the bottom of our beautiful canyon it would be ugly, it would be dangerous, I know you've got plenty of data it to tell me it won't be dangerous but and it's sort of like well back in 2018 somebody said that you know the forest service said that this is preferred and so this is what we're going to do and the whole line doesn't even need to be anywhere near here, it could be the line they also want to make the road through Flux Canyon for their 80 ore trucks a day, it doesn't need to go through our populated area, it could go through Soldier Basin but it seems like everything's already been decided. UniSource has decided this, TEP has decided that forest service, and the people who live here have no say in it, can you address that?

Additional Info

I understand that, and I understand that you guys are looking at a best route would be whatever is going to cost less money and as you say less maintenance or whatever and less interference from the forest service but that should not be the only criteria that you're using here and as a citizen as the property owner that is directly involved here, I really don't feel like we, what you're going to say oh well if you send a letter will evaluate it, we'll send you back a little form letter and it'll say oh yeah it's Leslie sorry but we still want to put this line and we want this hundred foot easement right through your property, my line would be that the one that's labeled 66A that's what goes through my property and really you know we've listen to you but we're not going to do anything about it because we already decided back in 2018. Now nobody in Flux Canyon knew that this was decided in 2018, you wait until we got a newsletter from you two weeks ago right saying that this meeting was going to be held, that's not time at all.

Requested Info

Comment Method: Other

Comment Date 8/25/2022

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Other

Heard About

Issues/Phone Message/Comments

Why was the proposed route in Flux Canyon labeled as 98 abandoned?

Additional Info

Requested Info

Comment Method: Other**Comment Date** 8/25/2022**Support Project** ☐**Alternative Preferred****Category****Concerns Topics**

Location

Heard About**Issues/Phone Message/Comments**

I asked about having more detailed maps and was told we'd see one tonight.

It's not even so much the specific properties it's just that you send out these my maps that make it basically incomprehensible to give us any time to see what's actually being proposed so it seems kind of disingenuous to send out such lack of precision so no I don't have a specific property in mind I just would like to be able to look at the various drainages and look at the various properties and understand what's actually being proposed here so that's I guess will you be able to see this pop-up map in the future and ponder it or is this our one chance?

The previously proposed links that are no longer under consideration I was interested in the specific barriers that you saw to using to that being a viable alternative, I'm assuming that they were private property considerations weighed into that, but were there other considerations that prevented the previous map from being considered?

Additional Info

So, is the only the airport?

So, the current lines that are there are short enough, but the proposed towers would not be short enough?

I assume the people in Lochiel in the San Rafael valley have electricity service now I'm just curious why the decision was made to build a brand-new line rather than retrofitting some of the existing lines? It's shorter from Lochiel to Hermosa for example then from Nogales or Patagonia Lake to Hermosa

Requested Info

Thank you.

Right, and the distribution lines aren't on the map that we received, right?

OK, thank you

Comment Method: Other

Comment Date 8/25/2022

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Other

Heard About

Issues/Phone Message/Comments

Timeline for reducing route selection?

Additional Info

Requested Info

Comment Method: Other

Comment Date 8/25/2022

Support Project ☐

Alternative Preferred

Category

Concerns Topics

Heard About

Issues/Phone Message/Comments

How tall are the towers?

Additional Info

Requested Info

Comment Method: Other

Comment Date 8/25/2022

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Appearance

Heard About

Issues/Phone Message/Comments

Will the project consider visual resources and the type of tower used for this project?

Additional Info

Requested Info

Comment Method: Other**Comment Date** 8/25/2022**Support Project** ☐**Alternative Preferred****Category****Concerns Topics**

Location

Heard About**Issues/Phone Message/Comments**

I am one of the people that live in Flux Canyon and that you want a 100 foot easement to basically go through my front yard for this line and there's other people also that live in Flux Canyon so are you really saying that you're choosing to go through the bottom of Flux Canyon for the benefit of the mine rather than go through the forest service because you don't want to deal with any more forest service bureaucracy? You would rather ruin the property values and the lives of the families that live in Flux Canyon.

Additional Info

When was this letter?

Yeah but that's not true because the distribution line that exists right there goes through Circle Z property and it goes like right above my property but the Arizona Land and Water Trust said that they would not allow that so now you're going to make a whole new route that would go through the bottom of Flux Canyon where everyone lives. And why are we following something from Senator McCain from 2018? The forest service should not I mean obviously they would like it to not be through their lands but obviously I and the other people who own land and live in Flux Canyon would not like this line to be down in the bottom

Requested Info

OK so you're just saying that you're going to prefer anything that somebody from the forest service said instead of actually talking to the people that that you're going to be impacting?

All right I just hope you will listen to the regular citizens instead of all of the governmental agencies

Comment Method: Other

Comment Date 8/25/2022

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Environment

Heard About

Issues/Phone Message/Comments

Does the forest service consider the full length of the project or just a portion on any forest service lands?

Additional Info

Requested Info

Comment Method: Other

Comment Date 8/25/2022

Support Project

☐

Alternative Preferred

Category

Concerns Topics

Underground, Renewable
Energy

Heard About

Issues/Phone Message/Comments

Has your customer or UniSource considered underground or solar?

Additional Info

Requested Info

Comment Method: Letter**Comment Date** 10/16/2020**Support Project**☐**Alternative Preferred****Category** Business Owner in Study Area**Concerns Topics**Location, Other, Historic,
Environment, Renewable
Energy**Heard About****Issues/Phone Message/Comments**

We are submitting our comments of concern over parcels which are within the high voltage transmission line preliminary study area. We represent the owners of parcels within your study area. We are adamantly opposed to the construction of this line across any of our parcels. First of all, 3625 acres within this study are protected by a perpetual conservation easement, established and recorded on September 19, 2013 with the Arizona Land and Water Trust. This property possesses important wildlife habitat, biological diversity, ranching and its ranching heritage, plus significant riparian areas that are of great importance to the residents of Santa Cruz County and the state of Arizona. A high voltage transmission line through our property would adversely affect the well established and recognized value of this properties contribution to the inherent conservation values.

Secondly, Circle Z Ranch is the oldest continuously operating dude ranch in the state of Arizona. Established in 1926 we contribute greatly to the tourism industry in this area. The reason people from around the world to our ranch and are attracted to this area is due to the unobstructed vistas, the conservation values, and for the enjoyment of a protected open space that has become quite rare in our society. A high voltage transmission line would adversely affect the tourism value of our land and would more than likely severely affect our ability to offer the quality vacations our guests have been accustomed to.

Thirdly, the Hermosa mining executives have in the past put pressure on us to sell property for their use, and we have adamantly refused their pressure. Subsequently they have purchased numerous properties surrounding us, often paying way more than market value for these purchases. They have also said numerous times they could easily undo the conservation easement on our property. This is a legally binding document and cannot be dismissed, even for the mining industry. When the mining executives first approached us with their "plan", it was to purchase our property in Flux Canyon so they could construct a solar based power generation facility that would power their mining operation. Now that they have purchased many parcels of land in and around Patagonia and in the Flux Canyon area, why are they not constructing their own power generation facilities? Why should this area become an industrial complex with high voltage power lines polluting the vistas?

We are very concerned with the construction of this power line and encourage the Unisource to help the mines identify less intrusive and more sustainable power resources.

Additional Info**Requested Info**

Comment Method: Letter**Comment Date** 9/14/2022**Support Project**☐**Alternative Preferred****Category****Concerns Topics**Appearance, Location,
Other, Environment**Heard About****Issues/Phone Message/Comments**

I am a property owner in the Patagonia Lake area and would really hate to see your power lines go through that area just because it's cheaper! It's a beautiful part of our state. We have lots of wildlife in that area. To put those lines there would uproot the wildlife, vegetation would be removed, say nothing about the people that have homes there. Power lines would obstruct views, noise from the lines would be intrusive and distract from the awesome, peaceful quiet. I'm sure getting power from one area to another is important but there has to be a better way that won't make such an impact on the beautiful area.

Additional Info**Requested Info**

Comment Method: Letter**Comment Date** 11/17/2022**Support Project** ☐**Alternative Preferred****Category****Concerns Topics**Health, Appearance,
Location, Other,
Underground, Environment**Heard About****Issues/Phone Message/Comments**

To whom it may concern at Unisource,

I am writing this letter in strong protest to the proposed power lines that potentially will be put through the Lake Patagonia Ranch Estates area in between Rio Rico and the town of Patagonia. An underground route near the Nogales International Airport is a much more viable solution for everyone involved and would negate any concerns of local homeowners.

One of my main complaints against any version of a power line route coming through the Lake Patagonia area concerns biodiversity. Our Sky Islands region is world renowned for the number of different wildlife and native plant species it contains. The Center for Biological Diversity, based in Tucson, has identified our Sky Islands region as one of their priority areas for global biodiversity conservation. So have Defenders of Wildlife, Sky Islands Alliance, The Nature Conservancy, and eminent Harvard biologist E.O. Wilson. Here are some highlights of our biodiversity, which would be irreparably harmed by an above-ground power line placed in the Lake Patagonia area:

- Over 500 species of birds - among the highest totals of any region in North America and including:
 - most hummingbird species of any U.S. state
 - most sparrow species on Earth
 - many "Mexican Specialty" species, more reminiscent of the tropics, such as Elegant Trogon, Varied Bunting, and Montezuma Quail
- About 108 mammal species - the most in North America, including:
 - 4 species of felines, including endangered Jaguars and Ocelots
 - 4 species of Skunk
 - White-nosed Coati and other mammals more typical of the tropics
 - 29 species of Bat
- More reptiles species, including lizards and snakes, than any comparable area in North America
- The most Bee species on Earth
- More than 60 species of land snails, some endemic to the region
- More ant species than any other temperate area on the planet
- About 2,100 species of plants in the U.S. portion of the Sky Islands

Within Santa Cruz County, one of the most diverse areas for native flora and fauna is exactly where you are proposing to alter and destroy habitat via your new power line. Further, the line will only serve one customer - an even more destructive mining company. Taken by itself, your power line will create a wide swath of habitat destruction and disruption. When added to the other planned developments of Santa Cruz County, the power line will be one of many such destructive activities. Thus, the expression "death by a thousand cuts" comes to mind.

Given the immediate proximity of Lake Patagonia State Park and adjoining Sonoita Creek State Natural Area, the Lake Patagonia Ranch estates region is host to a broad spectrum of native species. Over the years some residents have

Comment Method: Letter

meticulously monitored exactly which species occur here. This includes 165 bird species recorded on just one 42-acre parcel off of the Circulo Montana road. Species of special concern that have been recorded in the Lake Patagonia Ranch Estates area include:

- Elegant Trogon - rare tropical species
- Western Yellow-billed Cuckoo - federally threatened
- Osprey - locally rare
- Zone-tailed Hawk - predominantly tropical species
- Gray Hawk - relatively few breeding pairs in the entire U.S.
- Golden Eagle - locally rare
- Montezuma Quail - game bird with yearly fluctuating populations
- Southwestern Willow Flycatcher - federally endangered
- Jaguar - federally & globally endangered
- Ocelot - federally & globally endangered
- Mountain Lion - locally rare key predator
- American Black Bear - locally rare
- White-nosed Coati - unique tropical species
- American Badger - locally rare
- Collared Peccary - important prey species and ecological catalyst
- Antelope Jackrabbit - currently greatly diminished in numbers
- Mexican Long-tongued Bat - U.S. Fish & Wildlife Service Species of Special Concern
- Lesser Long-nosed Bat – rare
- Mule Deer - sensitive species & key prey item
- Whitetail Deer - sensitive species & key prey item
- Regal Horned Lizard - populations crashed within the last few decades
- Great Plains Skink - recorded in area, but previously thought not to live here
- Gila Monster - CITES listed
- Desert Box Turtle - populations greatly diminished and at risk
- Sonoran Desert Toad - declining populations

In addition to the species list above, many other locally rare or accidental species make appearances on occasion, including:

- Elf - a rare Mexican stray butterfly
- Streak-backed Oriole
- Pergrine Falcon
- ...& many others

Thus, it is all of our collective responsibilities to protect our local natural environments for future generations. Biodiversity is the foundation for a sustainable economy based on renewable natural resources. Unless current and future development is done carefully, thoughtfully, and wisely we easily can destroy and squander the very qualities that make this part of Arizona's Sky Islands so special. Our area is highly fragile, so the least environmentally destructive power line route must then be chosen. Clearly this route, then, should not come through the Lake Patagonia area. Further, this exact location forms a vital wildlife travel corridor for innumerable species, linking the Coronado National Forest to the south and Lake Patagonia State Park/Sonoita Creek State Natural Area to the north.

Comment Method: Letter

By ramrodding a power line through the Lake Patagonia Ranch Estates area you would be greatly destroying and disturbing the plants and wildlife of this key region - something that many residents moved here to enjoy and protect. What no one moved here for is the habitat destruction, noise, erosion, fire hazards, visual blights, reduced property values, and other major negative effects that your proposed power line would bring.

Additional Info

Requested Info

Comment Method: Interactive Survey**Comment Date****Support Project**☐**Alternative Preferred****Category****Concerns Topics**

Environment

Heard About**Issues/Phone Message/Comments**

Concern: I'm concerned about Sonoita Creek and its eco system especially migrating birds and as a water source feeding into the Patagonia Lake. Important Resource: This area is an oasis for migrating species. Please put this line on the other side of SR-82. The sonoita creek habitat especially under drought conditions is very sensitive not to mention it feeds into Patagonia Lake

Additional Info**Requested Info**

Comment Method: Interactive Survey**Comment Date****Support Project**☐**Alternative Preferred****Category****Concerns Topics**

Environment

Heard About**Issues/Phone Message/Comments**

We had our second Harshaw area fire today that each required large tanker aircraft, observer planes, and fire fighters on the ground to contain. We are experiencing drought and everything organic is subject to combustion if it is exposed to high-energy power lines and/or maintenance that requires ignition for any operation. This is the most fire-prone region in southern Arizona. Each of the "exemplars" shown in (separate) propaganda is imperiled by this proposed development.

This area is famous for its biological diversity and physical beauty. Any high-power electrical field could cause combustion of plant and mineral storage yards and the murder of thousands of wildlife and plants including large pines and mariposa. The blockage of animal migration could literally result in species extinction.

Additional Info**Requested Info**

Comment Method: Interactive Survey**Comment Date****Support Project**☐**Alternative Preferred****Category****Concerns Topics**Appearance, Location,
Environment**Heard About****Issues/Phone Message/Comments**

Crossing HI 82 will put the lines next to the mailboxes of over 50 households. Residents of Lake Patagonia Ranch (HOA) stop here daily for mail. Also all campers and RVs going to Patagonia Lake State Park or the Sonoita Creek Natural Area will pass along this high traffic area. Keeping the line on the other side of 82 would be much safer. Al, some homes in the HOA will have these lines in their viewshed and near their homes, especially on Azteca Ct." Patagonia Lake has over 300 migratory and local birds. It is a unique resource. Birders come from around the world because Sonoita Creek and the Lake are an important bird area. Migration is an issue along the length of highway 82. that should be addressed in your planning

Additional Info**Requested Info**

**Application for a Certificate of Environmental
Compatibility**

**Rio Rico to Harshaw
138 Kilovolt Transmission Line Project**

Exhibit J-16

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Rio Rico to Harshaw
Tribal Contacts

Name	Title	Tribes	Office	Address1	Address2	Phone	Email
Governor Arden Kucate	Governor	Pueblo of Zuni		P. O. Box 339	Zuni, NM 87327	(505) 782-4481 ext. 111	arden.kucate@ashiwi.org
Dr. Kurt Dongoske	Director, Tribal Historic Preservation Officer	Pueblo of Zuni	Heritage and Historic Preservation Office	P.O. Box 1149	Zuni, NM 87327	(505) 782-4814	kdongoske@gmail.com
Mr. Ned Norris Jr., Chairman	Chairman	Tohono O'odham Nation		P. O. Box 837	Sells, AZ 85634	(520)383-2028	
Mr. Jefford Francisco	Cultural Resource Specialist	Tohono O'odham Nation	Cultural Affairs Office	P.O. Box 837	Sells, AZ 85634	(520) 383-3622 x103	jefford.francisco@tonation-nsn.gov
Mr. Peter Steere	Tribal Historic Preservation Officer	Tohono O'odham Nation	Cultural Affairs Office	P. O. Box 837	Sells, AZ 85634	(520) 383-3622 x. 103	peter.steere@tonation-nsn.gov
Karen Howe	Ecologist and Invasive Species Coordinator	Tohono O'odham Nation	Natural Resource Department	PO Box 837	Sells, AZ 85634	(520) 383-1513	karen.howe@tonation-nsn.gov
Mr. Robert Miguel, Chairman	Chairman	Ak-Chin Indian Community		42507 W. Peters & Nall Rd	Maricopa, AZ 85138	(520) 568-1000	RMiguel@ak-chin.nsn.us
Ms. Elaine Peters	Director	Ak-Chin Indian Community	Him Dak Eco-Museum	42507 W. Peters and Nall Rd	Maricopa, AZ 85138	(520) 568-1359	EPeters@ak-chin.nsn.us
Ms. Carmen Narcia	Cultural Resources Specialist	Ak-Chin Indian Community		42507 W. Peters and Nall Rd	Maricopa, AZ 85138	(520) 568-1337	
Governor Stephen Roe Lewis	Governor	Gila River Indian Community		P.O. Box 97	Sacaton, AZ 85147	(520) 562-9840	
Barnaby V. Lewis	Tribal Historic Preservation Officer	Gila River Indian Community	Tribal Historic Preservation Office	P.O. Box 2193	Sacaton, AZ 85147	520-562-7152	Barnaby.Lewis@gric.nsn.us
M. Kyle Woodson	Director	Gila River Indian Community	Cultural Resource Management Program	P.O. Box 2140	Sacaton, AZ 85147	520-562-7169	Kyle.Woodson@gric.nsn.us
President Martin Harvier	President	Salt River Pima-Maricopa Indian Community	Admin Elyse Lewis	10005 E Osborn Road	Scottsdale, AZ 85256	(480) 362-7465	
Shane Anton	Tribal Historic Preservation Officer	Salt River Pima-Maricopa Indian Community	Cultural Resources Department	10005 E Osborn Road	Scottsdale, AZ 85256	480-362-6331	shane.anton@srbmic-nsn.gov
Chairman Kasey Velasquez	Chairman	White Mountain Apache Tribe		P.O. Box 700	Whiteriver, AZ 85941	(928) 338-2500	kasey.velasquez@wmat.us
Mr. Ramon Riley	Cultural Resource Office Repatriation Specialist	White Mountain Apache Tribe	Historic Preservation Office	P.O Box 507	Fort Apache, AZ 85926	(928) 338-4625	rxrapache@yahoo.com
Mr. Mark Altaha	Tribal Historic Preservation Officer	White Mountain Apache Tribe	Historic Preservation Office	P.O Box 1032	Fort Apache, AZ 85926	(928) 338-3033	markaltaha@wmat.us
Mr. Eddie Martinez, President	President	Mescalero Apache Tribe		P.O. Box 227	Mescalero, NM 88340	(575) 464-4494	emartinez@mescaleroapachetribe.com
Ms. Holly Houghten	Tribal Historic Preservation Officer	Mescalero Apache Tribe		P.O. Box 227	Mescalero, NM 88340	(575) 464-3005	holly@mescaleroapache.org
Mr. Peter Yucupicio, Chairman	Chairman	Pascua Yaqui Tribe		7474 S. Camino de Oeste	Tucson, AZ 85746	(520) 883-5000	Peter.Yucupicio@pascuayaqui-nsn.gov
Mr. Karl A. Hoerig, Ph.D.	Tribal Historic Preservation Officer	Pascua Yaqui Tribe		7777 S. Camino Huivisim, Building C	Tucson, AZ 85757	(520) 883-5116	Karl.Hoerig@pascuayaqui-nsn.gov
Mr. Alfred Urbina	Attorney General	Pascua Yaqui Tribe		7777 S. Camino Huivisim, Bldg. C	Tucson, AZ 85746	(520) 883-5101	alfred.urbina@pascuayaqui-nsn.gov
Timothy L. Nuvangyaoma, Chairman	Chairman	Hopi Tribe		P. O. Box 123	Kykotsmvi, AZ 86039	(928) 734-3102	tnuvangyaoma@hopi.nsn.us
Stewart Koyiyumtewa	Tribal Historic Preservation Officer	Hopi Tribe	Hopi Tribe Cultural Preservation Office	P.O. Box 123	Kykotsmvi, AZ 86039	(928) 734-3615	SKoyiyumtewa@hopi.nsn.us
President Jonathan Nez	President	Navajo Nation		P.O. Box 7440	Window Rock, Arizona 86515	(928) 871-7000	jonathannez@navajo-nsn.gov
Richard Begay	THPO / NNHPD Director	Navajo Nation	Heritage & Historic Preservation Department	P.O. Box 4950	Window Rock, AZ 86515	(928) 871-7139	r.begay@navajo-nsn.gov
Ms. Bidtah Becker	Exec Director Division of Natural Resources	Navajo Nation		DNR, P.O. Box 9000	Window Rock, AZ 86515	(928) 871-6593	bidtah-becker@navajo-nsn.gov

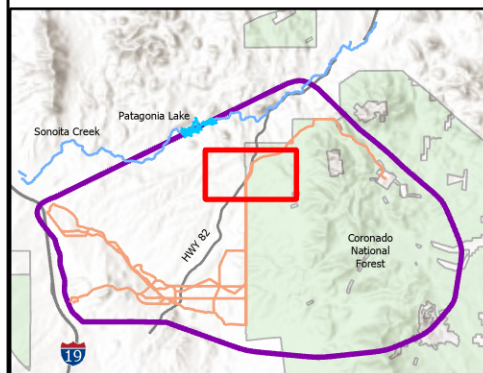
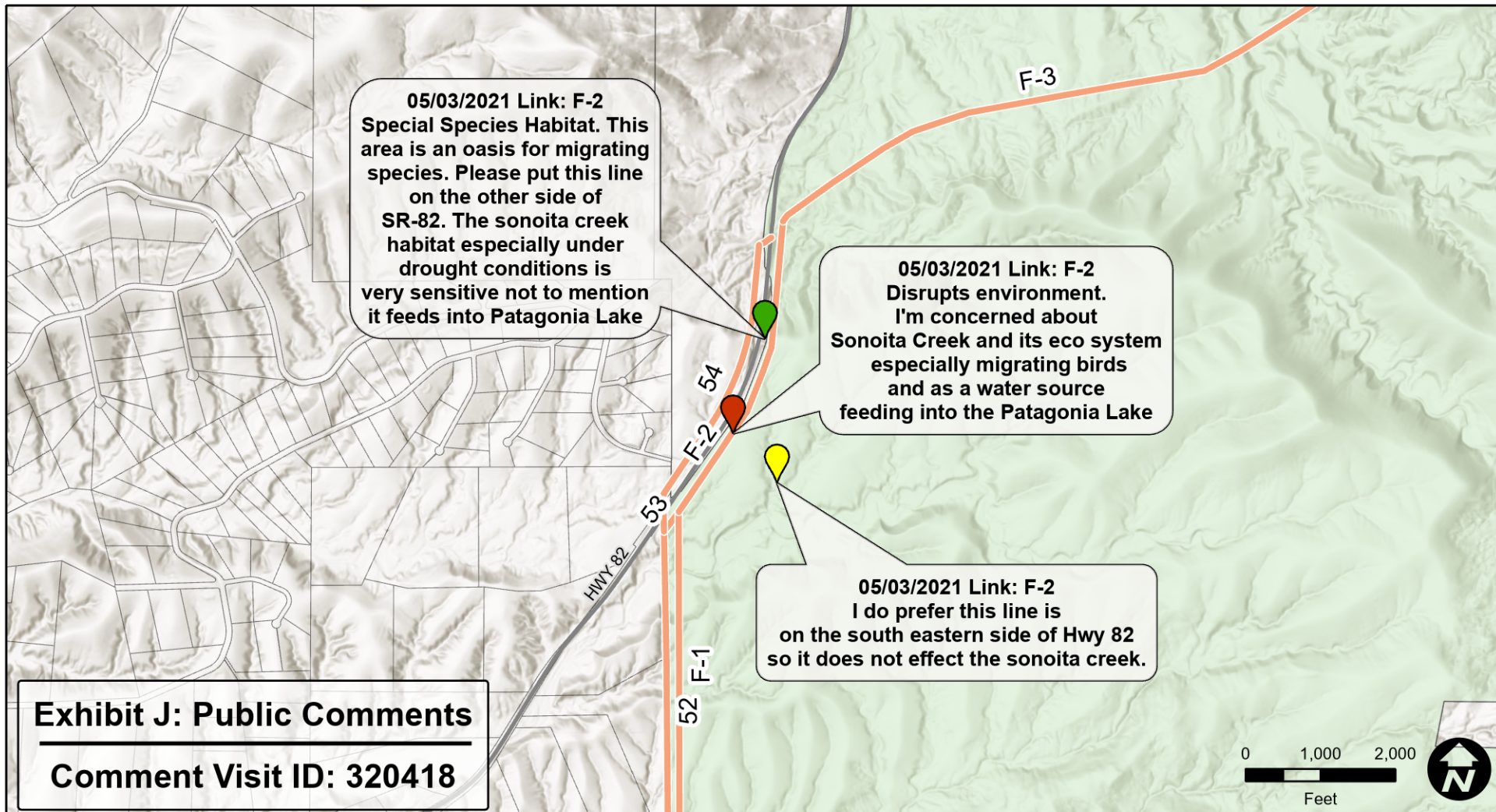
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**Application for a Certificate of Environmental
Compatibility**

**Rio Rico to Harshaw
138 Kilovolt Transmission Line Project**

Exhibit J-17

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Comment Type

- Comment
- Concern
- Important Resource
- Like

Roads

- Preliminary Links
- Parcels
- Study Area

Surface Management

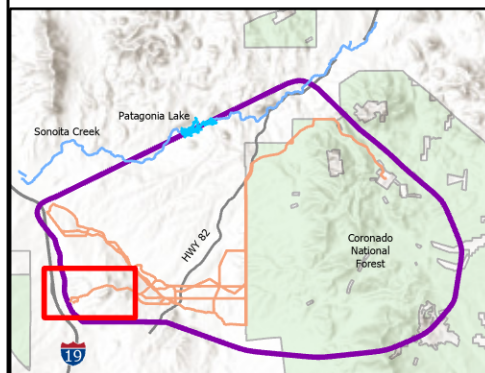
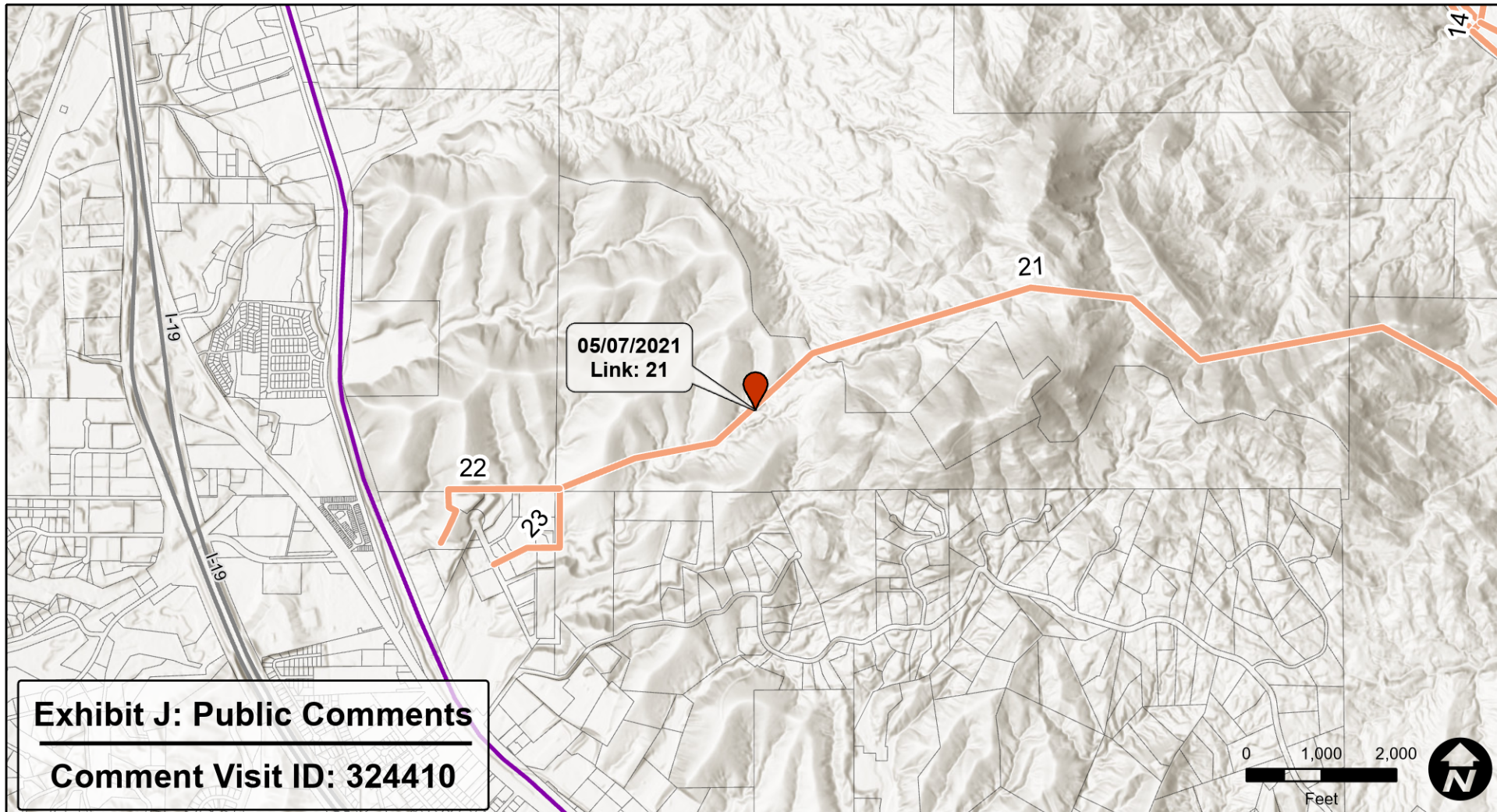
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- US Forest Service (USFS)

UniSourceEnergy
SERVICES

Scale: 1:24,000

Sources: Esri, UniSource Energy Services, Tucson Electric Power, Santa Cruz County, and Bureau of Land Management.
Projection: NAD 1983 UTM Zone 12N
Basemap: Esri World Topography

This map is for planning purposes only. TEP and UNS Energy make no warranty of its accuracy.



Comment Type

- Comment
- Concern
- Important Resource
- Like

Roads

- Preliminary Links
- Parcels
- Study Area

Surface Management

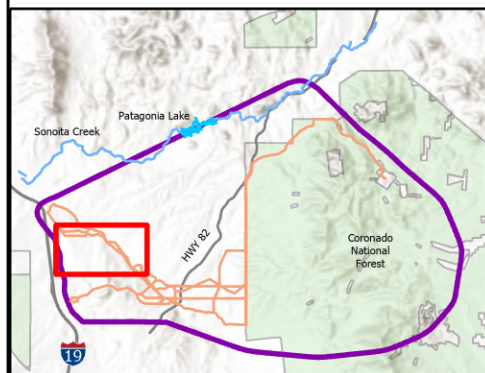
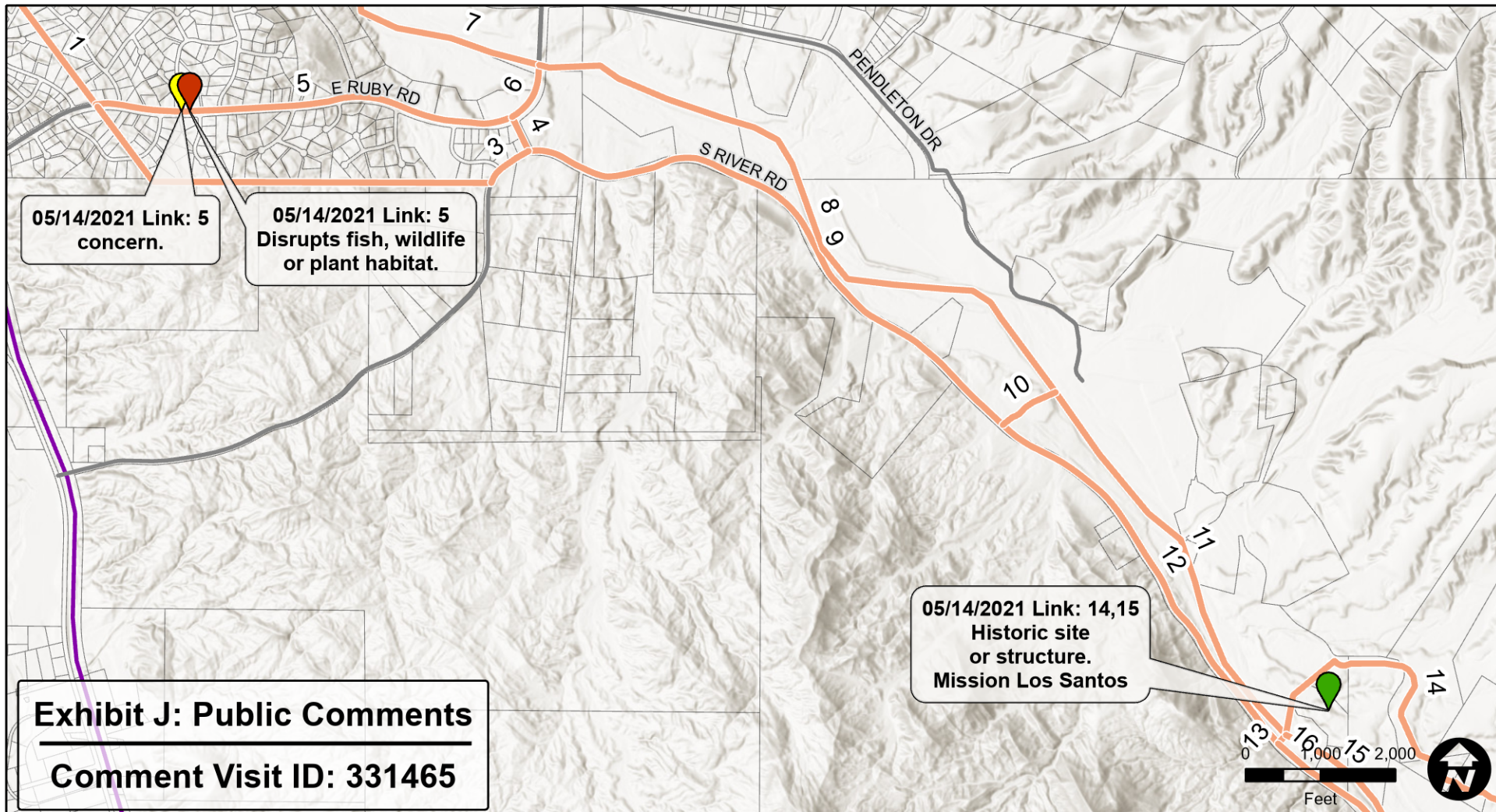
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- US Forest Service (USFS)



Scale: 1:24,000

Sources: Esri, UniSource Energy Services,
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and Bureau of Land Management.
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Comment Type

- Comment
- Concern
- Important Resource
- Like

Roads

- Preliminary Links
- Parcels
- Study Area

Surface Management

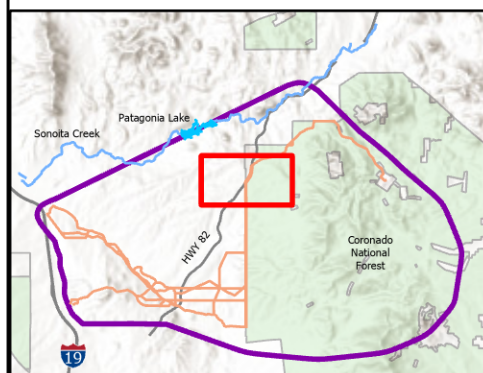
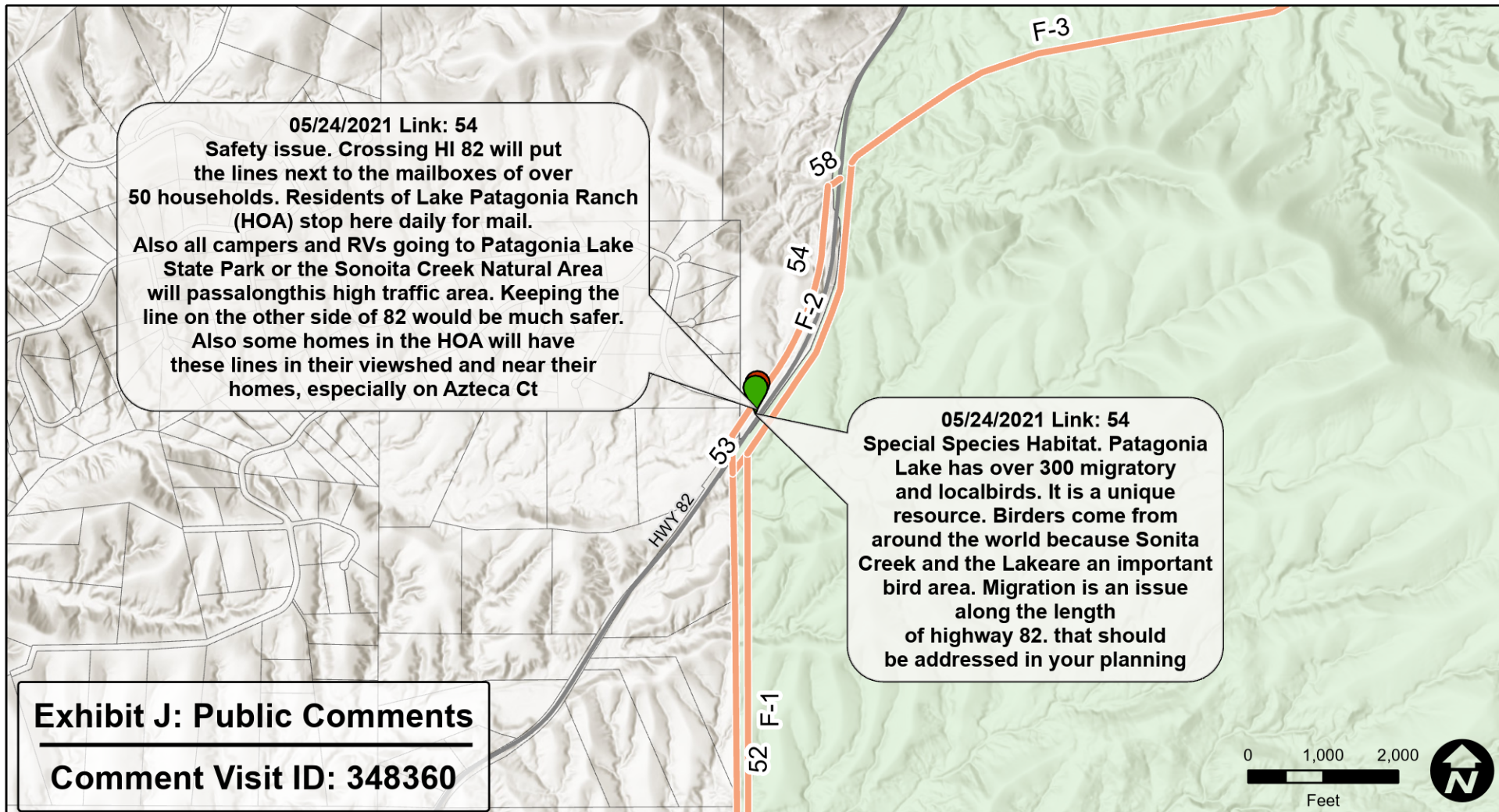
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- US Forest Service (USFS)



Scale: 1:24,000

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Comment Type

- Comment
- Concern
- Important Resource
- Like

Roads

- Preliminary Links
- Parcels
- Study Area

Surface Management

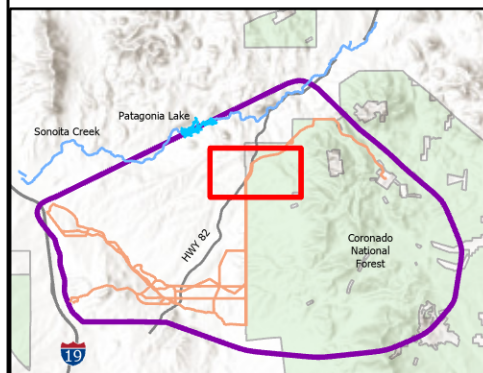
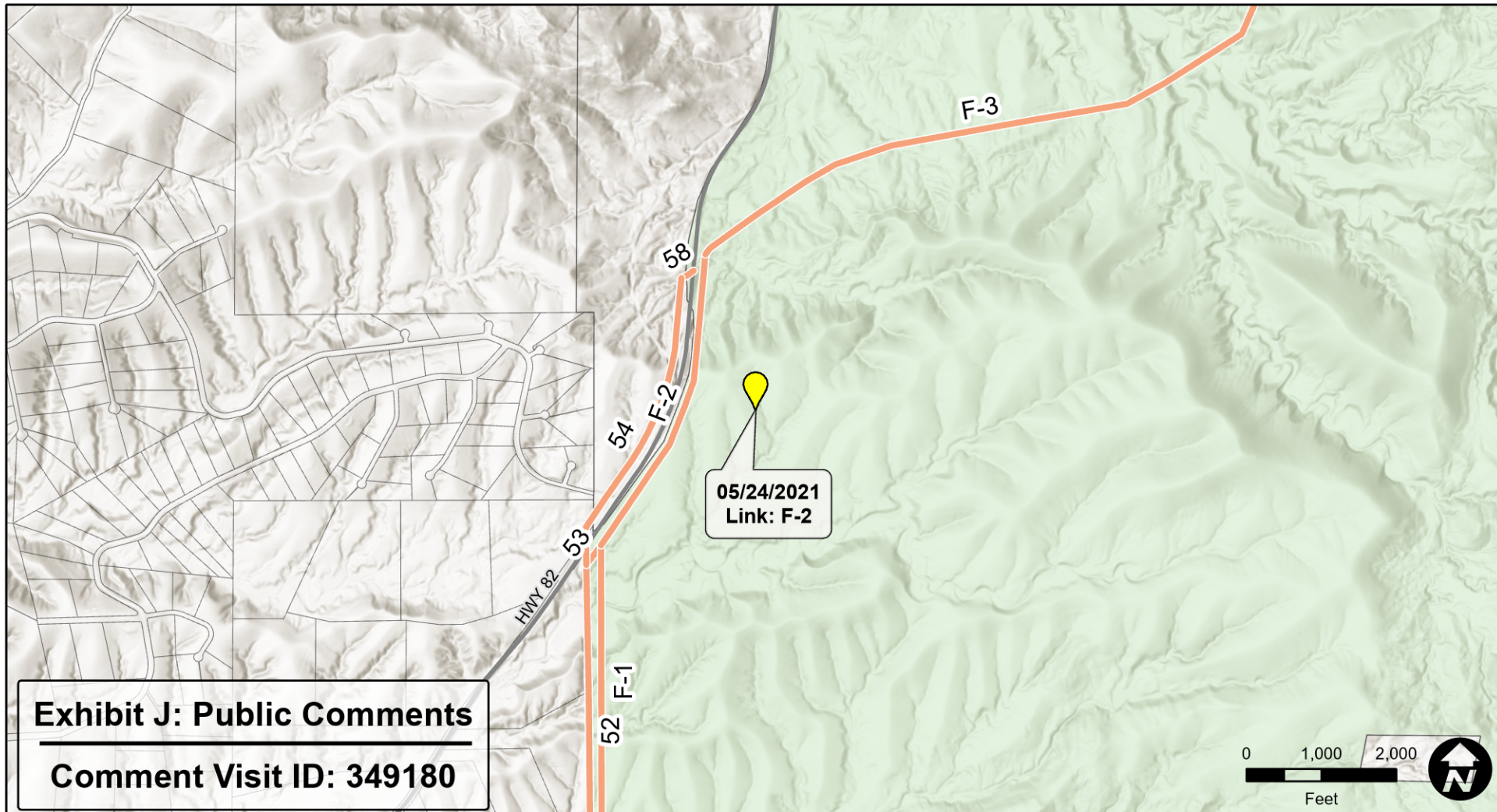
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- US Forest Service (USFS)

UniSource Energy SERVICES

Scale: 1:24,000

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Comment Type

- Comment
- Concern
- Important Resource
- Like

Roads

- Preliminary Links
- Parcels
- Study Area

Surface Management

- Private (No Color)
- US Forest Service (USFS)



Scale: 1:24,000

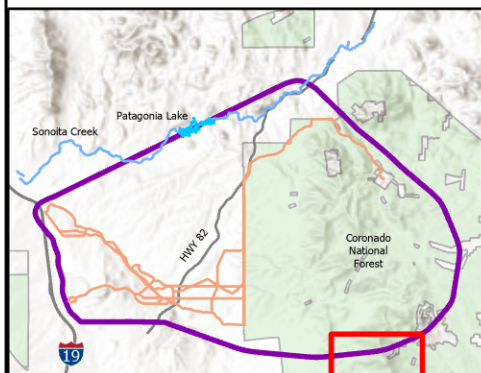
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Projection: NAD 1983 UTM Zone 12N
Basemap: Esri World Topography

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Exhibit J: Public Comments




Comment Visit ID: 359518





Comment Type

-  Comment
-  Concern
-  Important Resource
-  Like

Roads

-  Preliminary Links
-  Parcels
-  Study Area

Surface Management

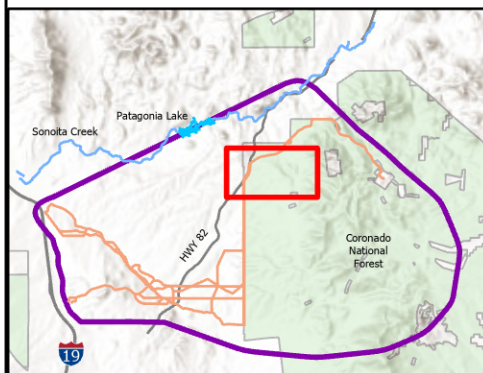
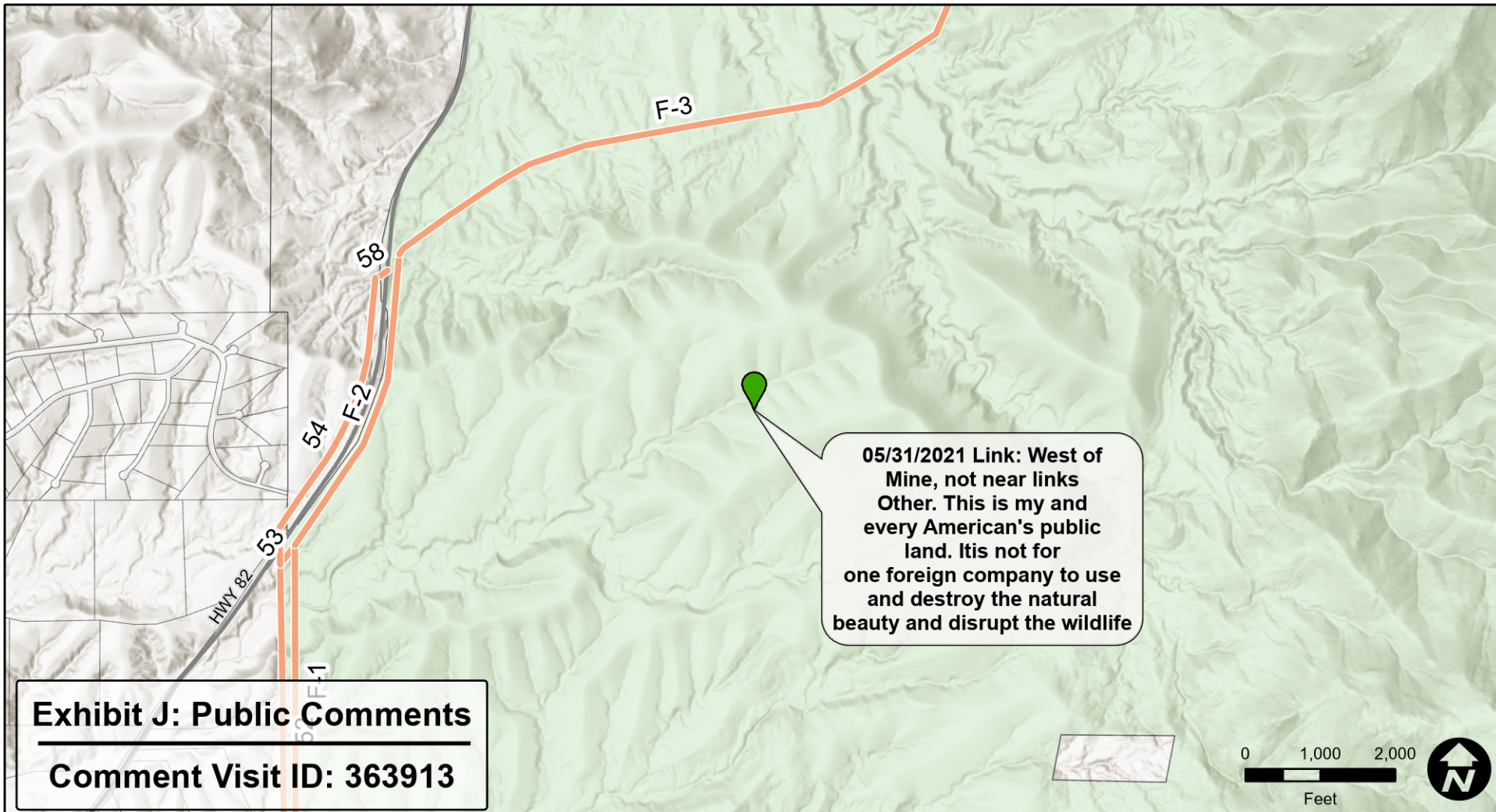
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-  US Forest Service (USFS)

UniSourceEnergy
SERVICES

Scale: 1:24,000

Sources: Esri, UniSource Energy Services,
Tucson Electric Power, Santa Cruz County,
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Projection: NAD 1983 UTM Zone 12N
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Comment Type

- Comment
- Concern
- Important Resource
- Like

Roads

- Preliminary Links
- Parcels
- Study Area

Surface Management

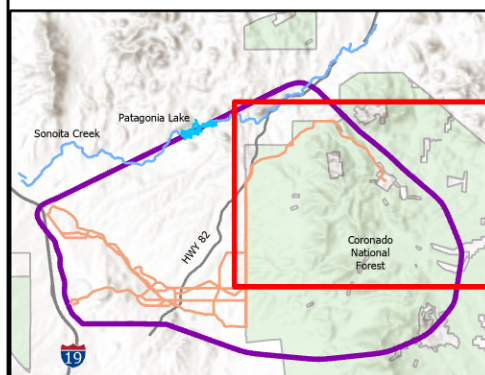
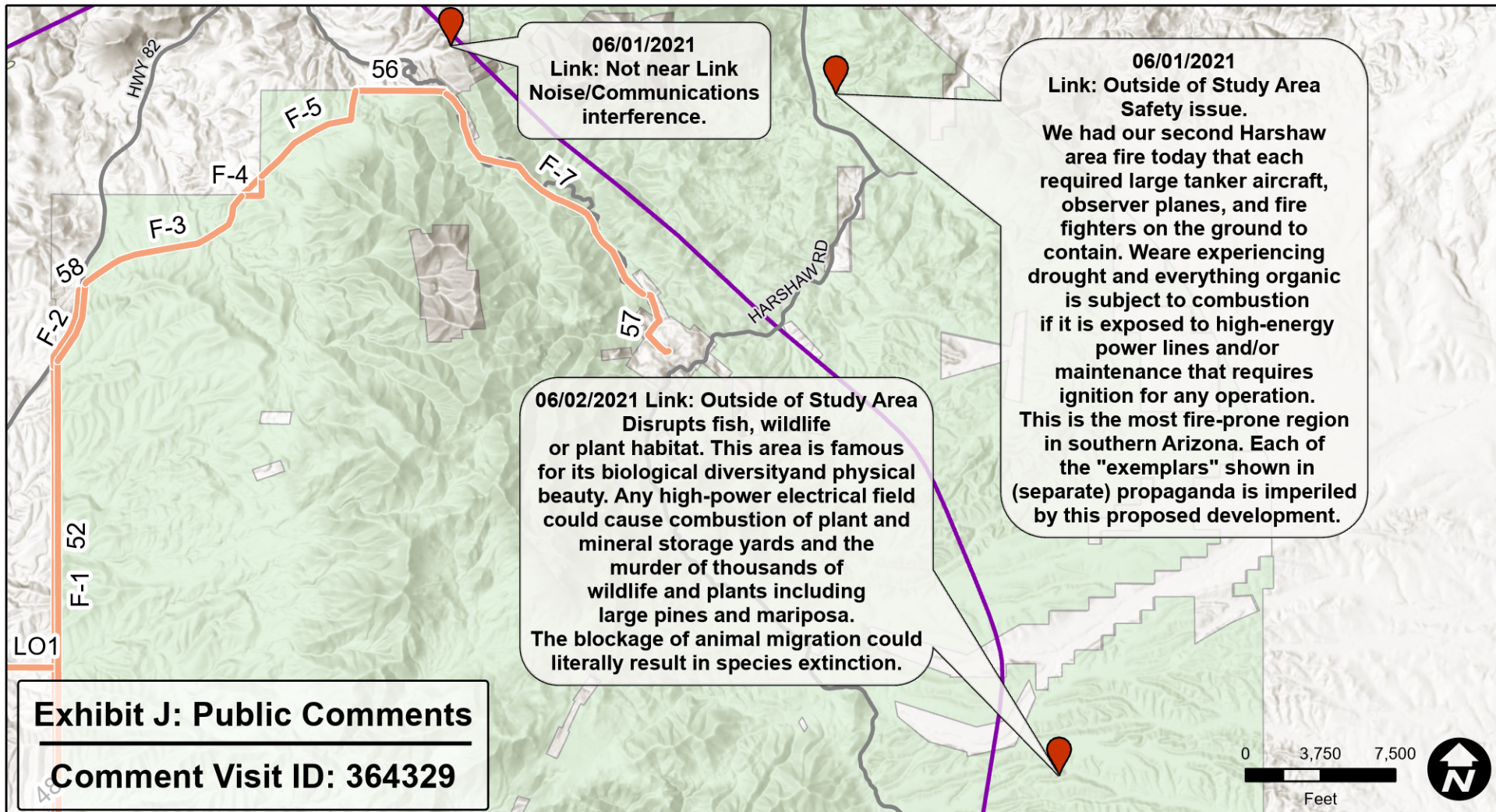
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- US Forest Service (USFS)

UniSourceEnergy
SERVICES

Scale: 1:24,000

Sources: Esri, UniSource Energy Services,
Tucson Electric Power, Santa Cruz County,
and Bureau of Land Management.
Projection: NAD 1983 UTM Zone 12N
Basemap: Esri World Topography

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Comment Type



Comment



Concern



Important Resource



Like

Roads



Preliminary Links



Study Area



Surface Management



Private (No Color)



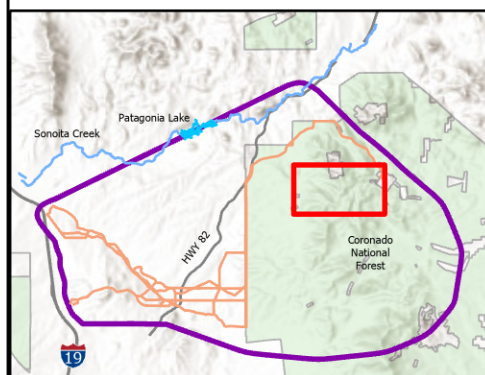
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UniSourceEnergy
SERVICES

Scale: 1:90,000

Sources: Esri, UniSource Energy Services,
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Projection: NAD 1983 UTM Zone 12N
Basemap: Esri World Topography

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Comment Type

- Comment
- Concern
- Important Resource
- Like

Roads

- Preliminary Links
- Parcels
- Study Area

Surface Management

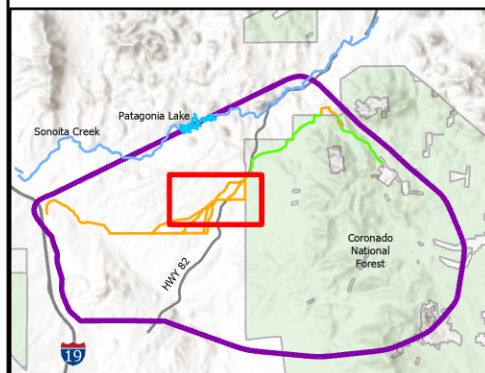
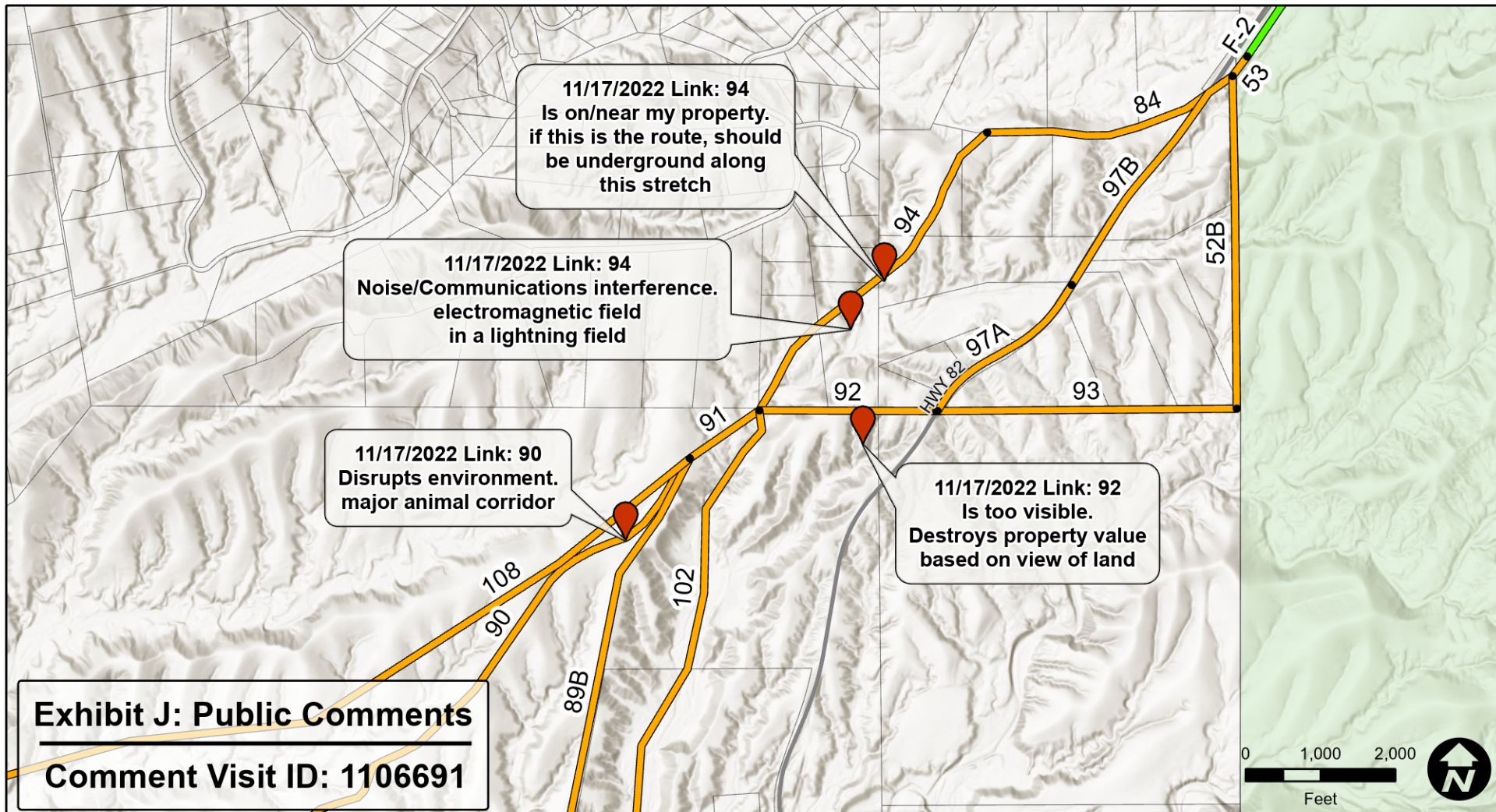
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UniSourceEnergy
SERVICES

Scale: 1:24,000

Sources: Esri, UniSource Energy Services,
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and Bureau of Land Management.
Projection: NAD 1983 UTM Zone 12N
Basemap: Esri World Topography

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Comment Type

- Comment
- Concern
- Important Resource
- Like

Roads

- Revised Link Nodes
- Revised Link
- Proposed Action Submitted to USFS
- Parcels
- Study Area

Surface Management

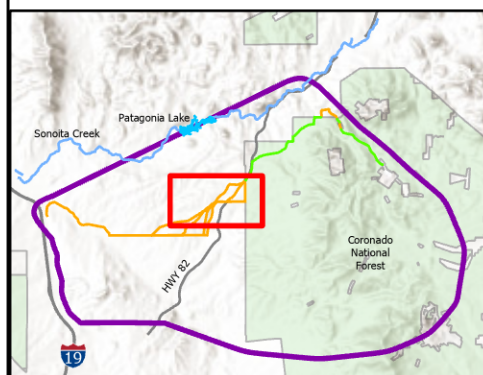
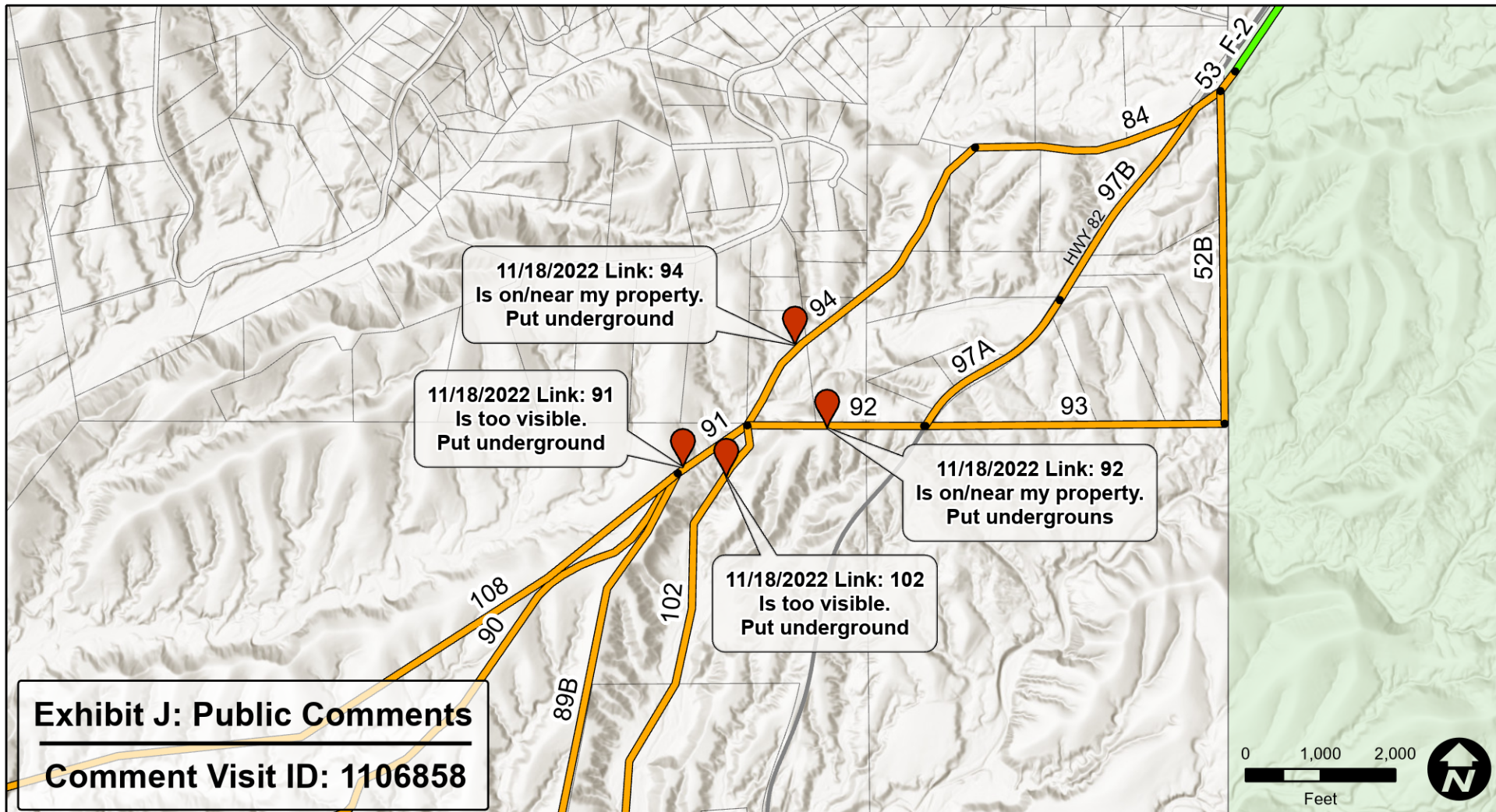
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UniSourceEnergy
SERVICES

Scale: 1:24,000

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Comment Type

- Comment
- Concern
- Important Resource
- Like

Roads

- Roads
- Revised Link Nodes
- Revised Link
- Proposed Action Submitted to USFS
- Parcels
- Study Area

Surface Management

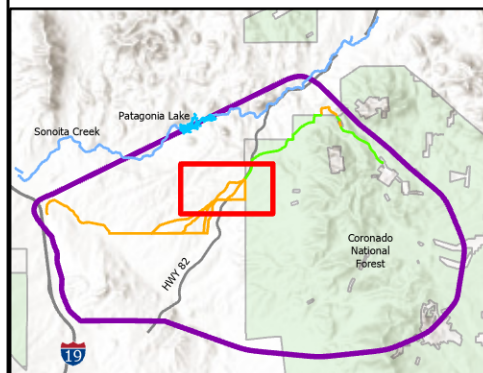
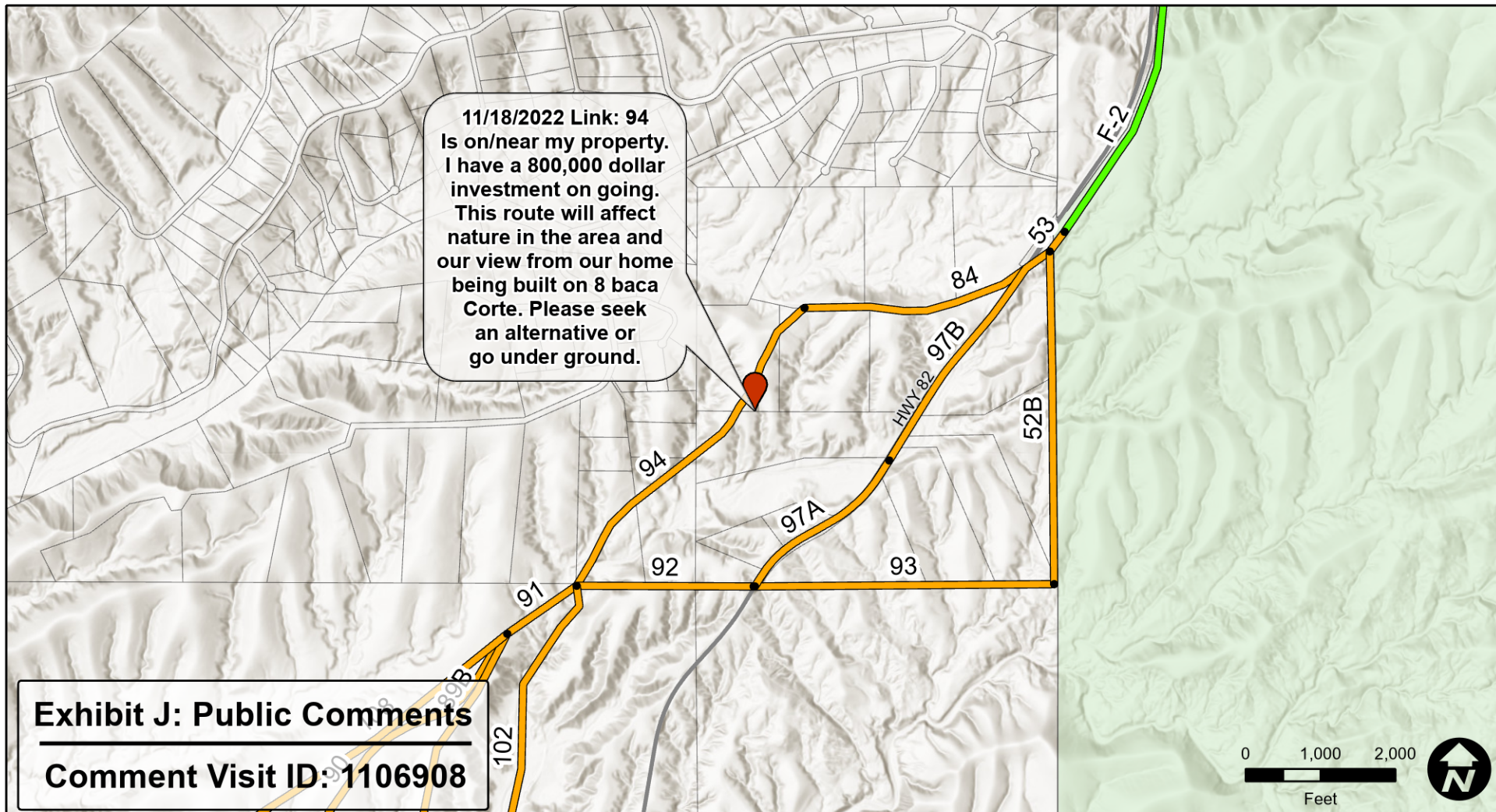
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- US Forest Service (USFS)

UniSourceEnergy
SERVICES

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Projection: NAD 1983 UTM Zone 12N
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Comment Type

- Comment
- Concern
- Important Resource
- Like

Roads

- Revised Link Nodes
- Revised Link
- Proposed Action Submitted to USFS
- Parcels
- Study Area

Surface Management

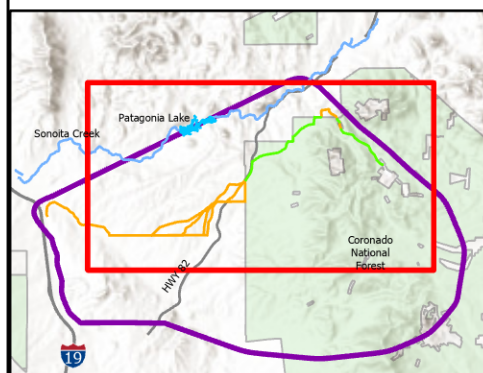
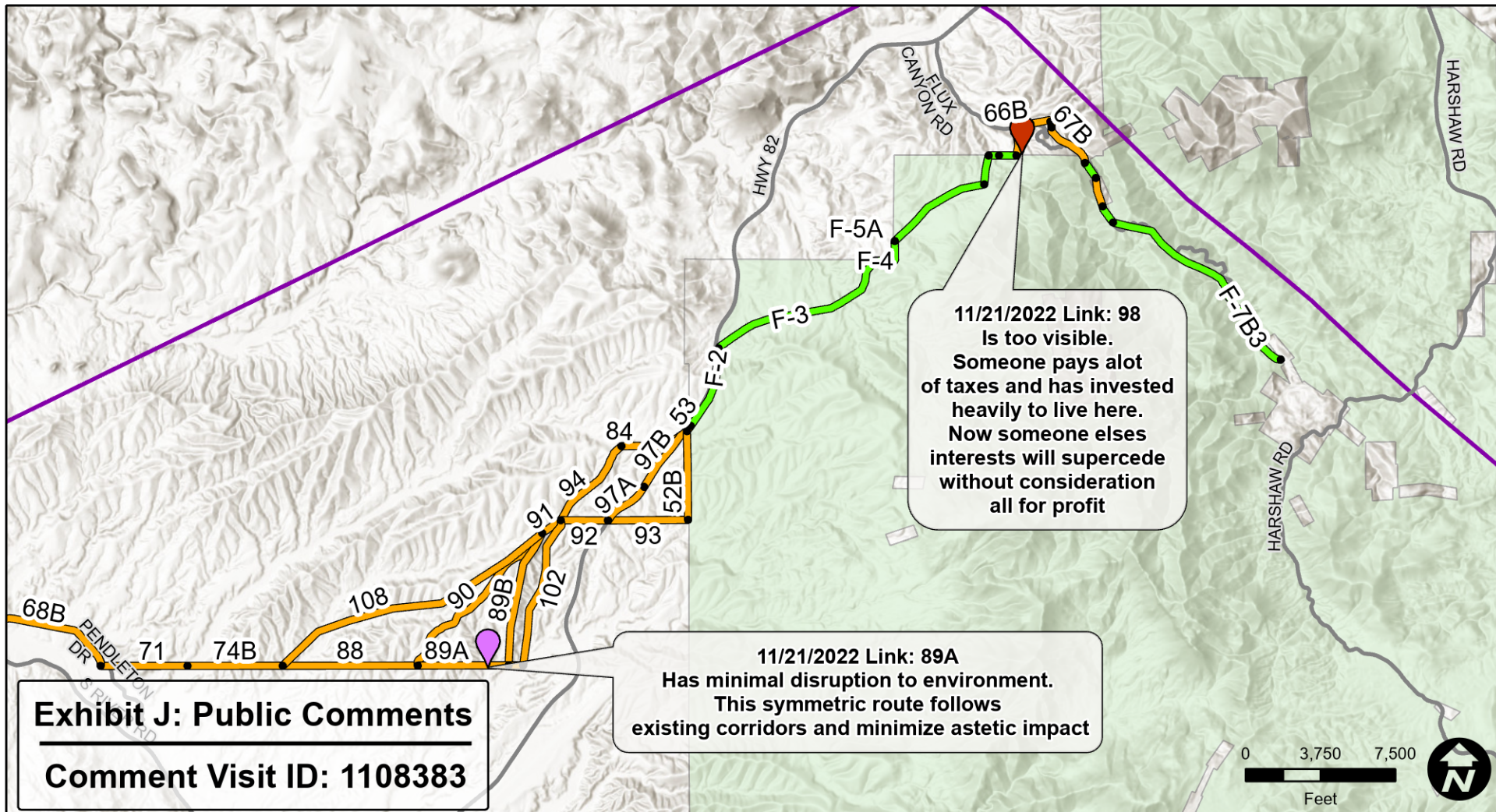
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UniSourceEnergy
SERVICES

Scale: 1:24,000

Sources: Esri, UniSource Energy Services, Tucson Electric Power, Santa Cruz County, and Bureau of Land Management.
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Comment Type

- Comment
- Concern
- Important Resource
- Like

Roads

- Roads
- Revised Link Nodes
- Revised Link
- Proposed Action Submitted to USFS
- Study Area

Surface Management

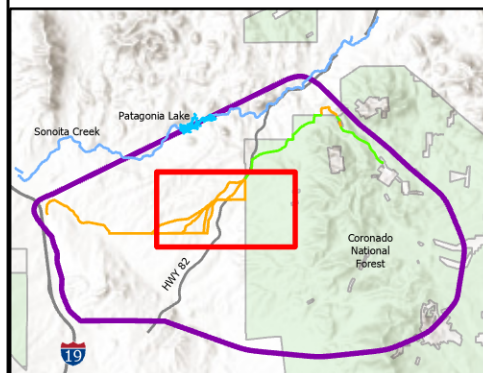
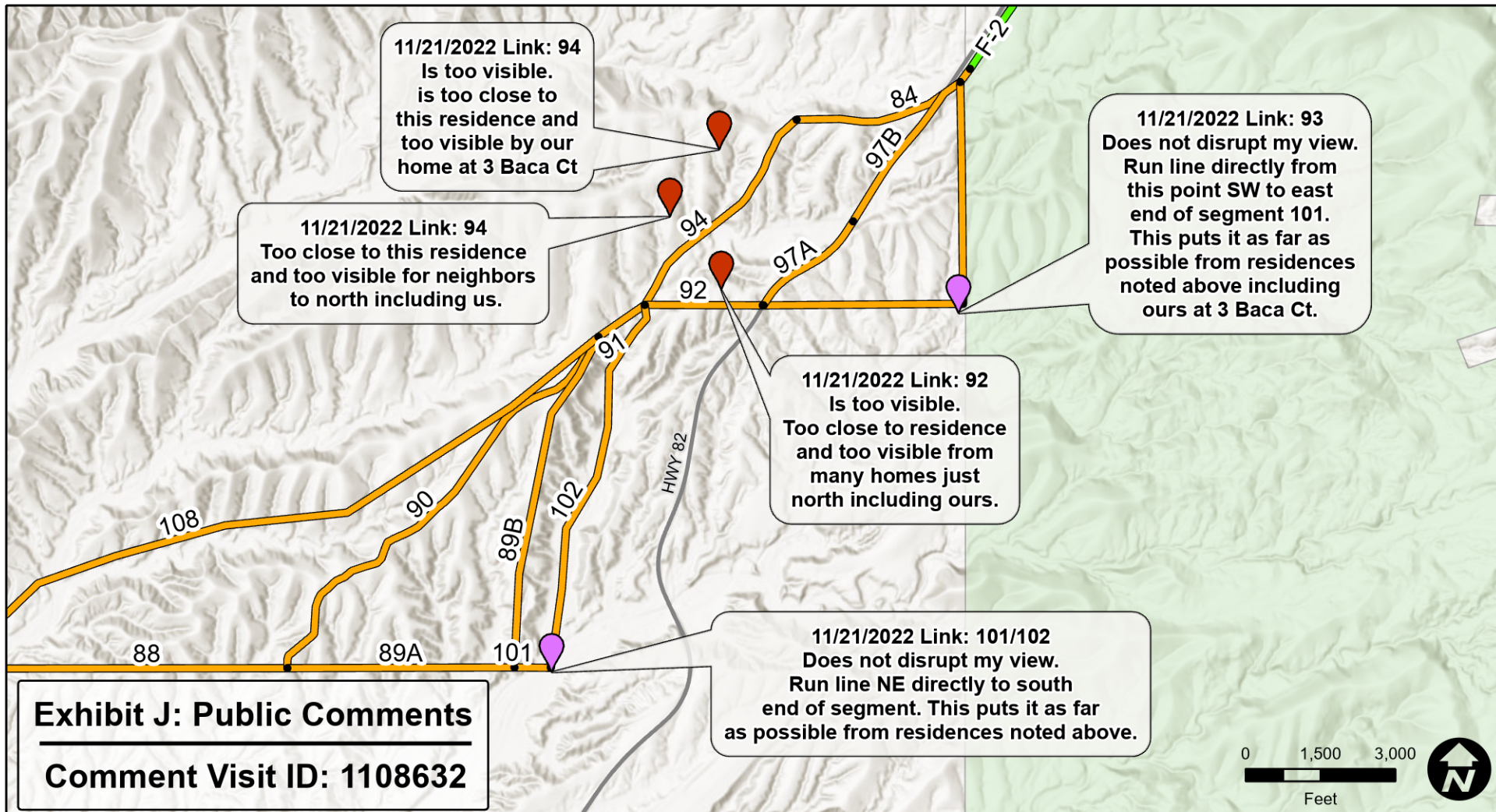
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- US Forest Service (USFS)

UniSourceEnergy
SERVICES

Scale: 1:90,000

Sources: Esri, UniSource Energy Services,
Tucson Electric Power, Santa Cruz County,
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Projection: NAD 1983 UTM Zone 12N
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- Comment Type**
- Comment
 - Concern
 - Important Resource
 - Like

- Roads**
- Roads
 - Revised Link Nodes
 - Revised Link
 - Proposed Action Submitted to USFS
 - Study Area

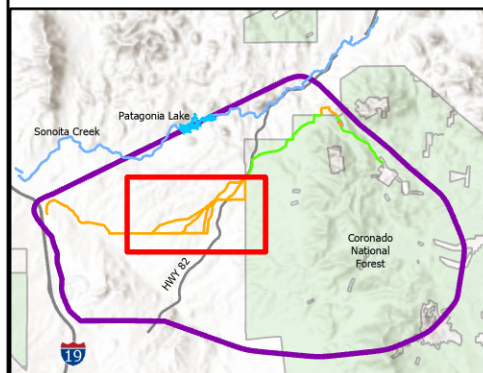
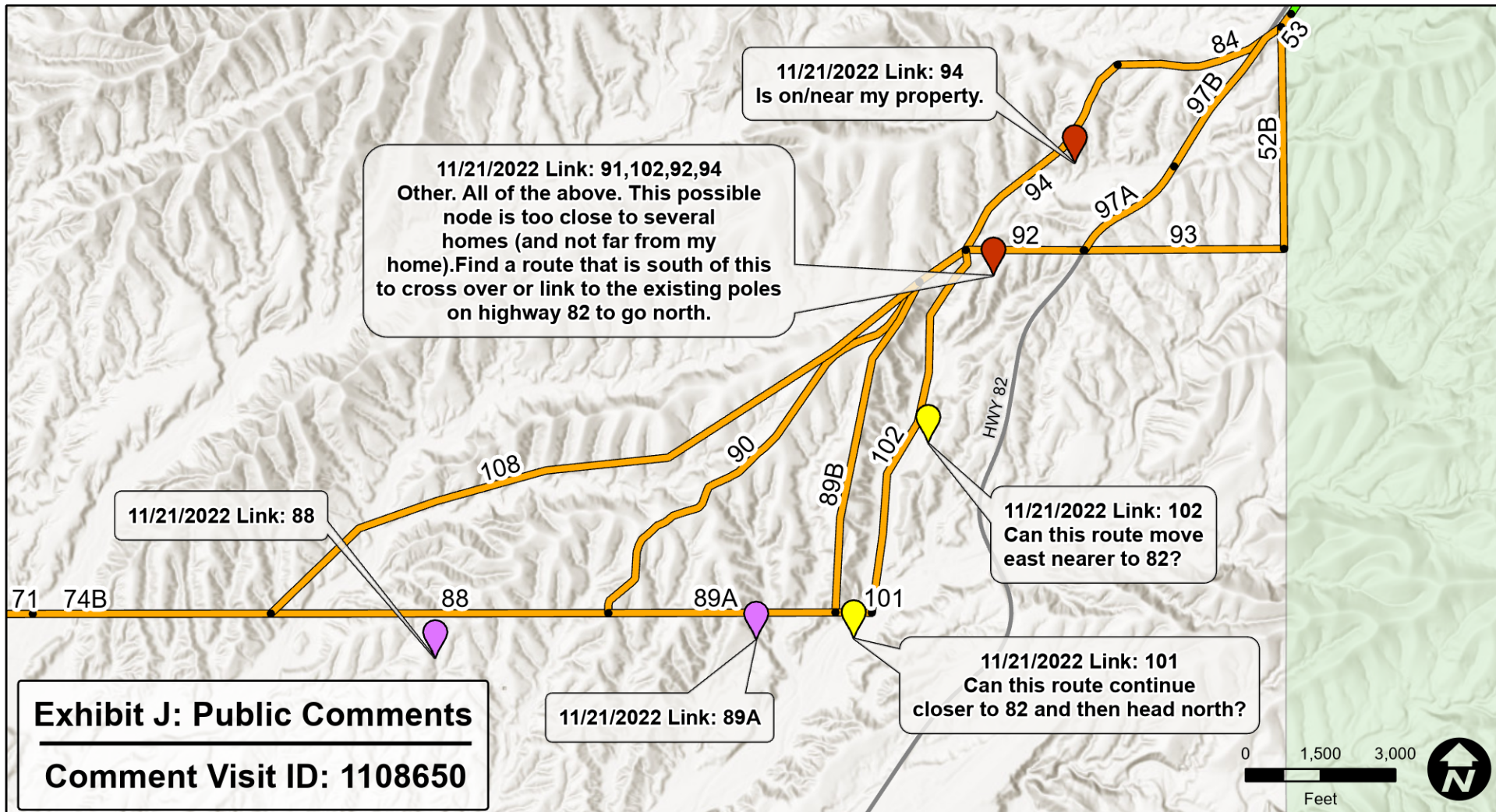
- Surface Management**
- Private (No Color)
 - US Forest Service (USFS)

UniSourceEnergy
SERVICES

Scale: 1:36,000

Sources: Esri, UniSource Energy Services,
Tucson Electric Power, Santa Cruz County,
and Bureau of Land Management.
Projection: NAD 1983 UTM Zone 12N
Basemap: Esri World Topography

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Comment Type

- Comment
- Concern
- Important Resource
- Like

Roads

- Revised Link Nodes
- Revised Link
- Proposed Action Submitted to USFS
- Study Area

Surface Management

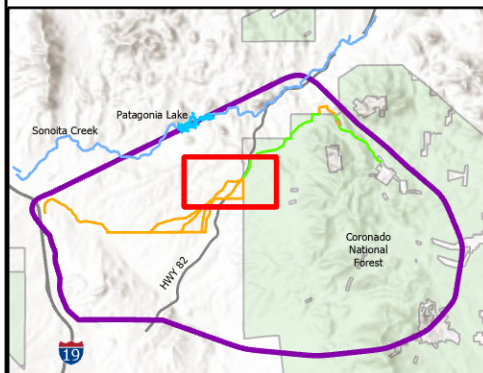
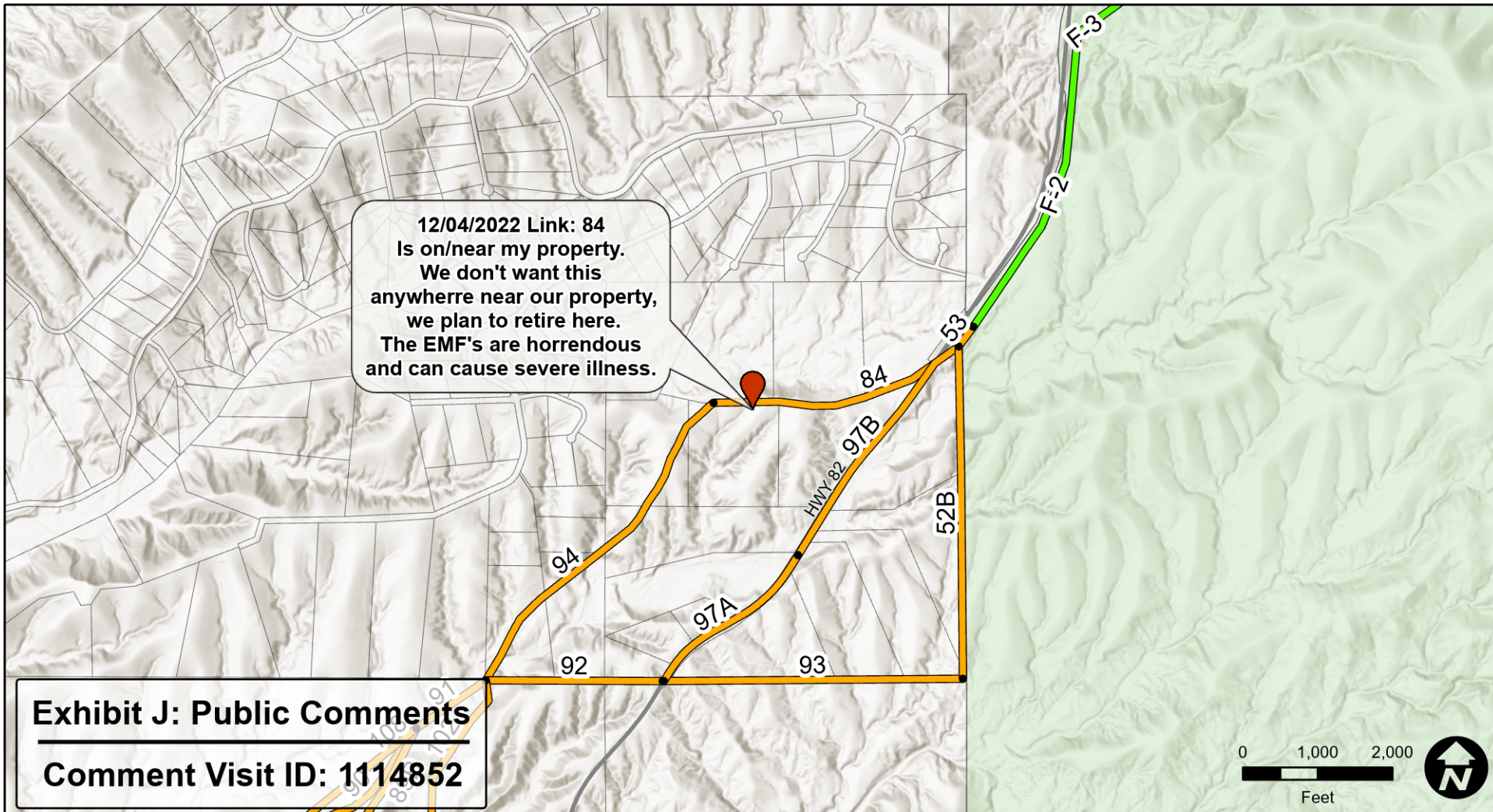
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UniSourceEnergy
SERVICES

Scale: 1:36,000

Sources: Esri, UniSource Energy Services, Tucson Electric Power, Santa Cruz County, and Bureau of Land Management.
Projection: NAD 1983 UTM Zone 12N
Basemap: Esri World Topography

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Comment Type

- Comment
- Concern
- Important Resource
- Like

Roads

- Revised Link Nodes
- Revised Link
- Proposed Action Submitted to USFS
- Parcels
- Study Area

Surface Management

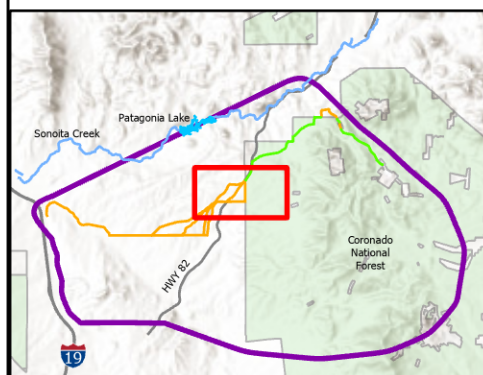
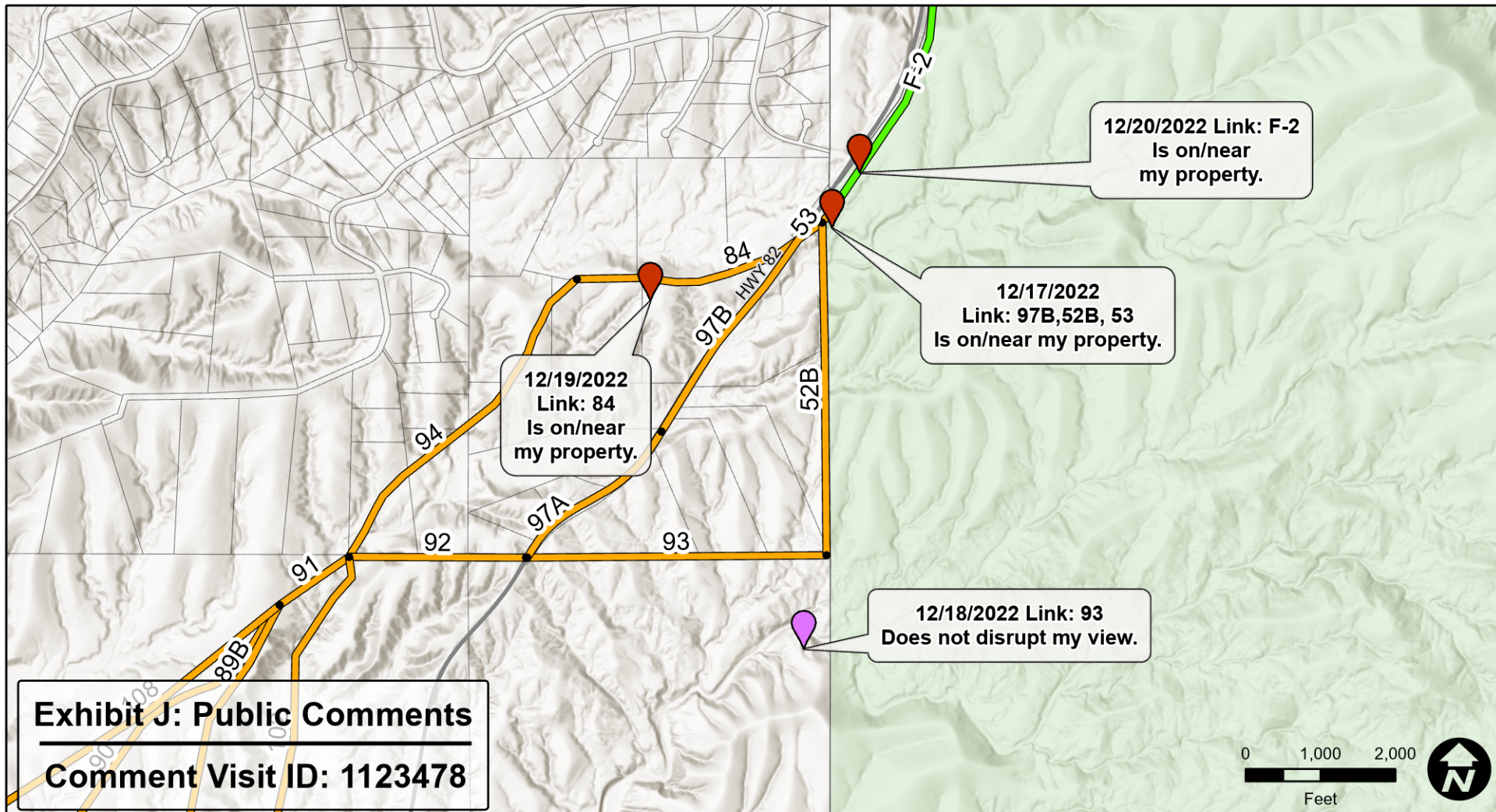
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- US Forest Service (USFS)

UniSourceEnergy
SERVICES

Scale: 1:24,000

Sources: Esri, UniSource Energy Services,
Tucson Electric Power, Santa Cruz County,
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Projection: NAD 1983 UTM Zone 12N
Basemap: Esri World Topography

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Comment Type

- Comment
- Concern
- Important Resource
- Like

Roads

- Revised Link Nodes
- Revised Link
- Proposed Action Submitted to USFS
- Parcels
- Study Area

Surface Management

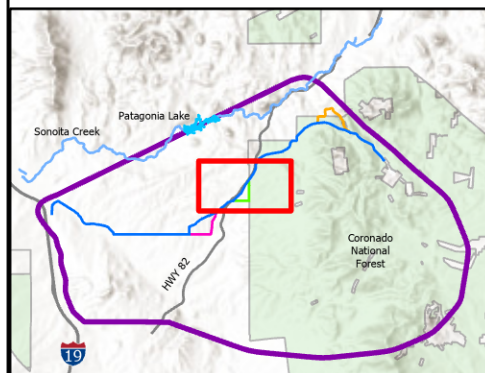
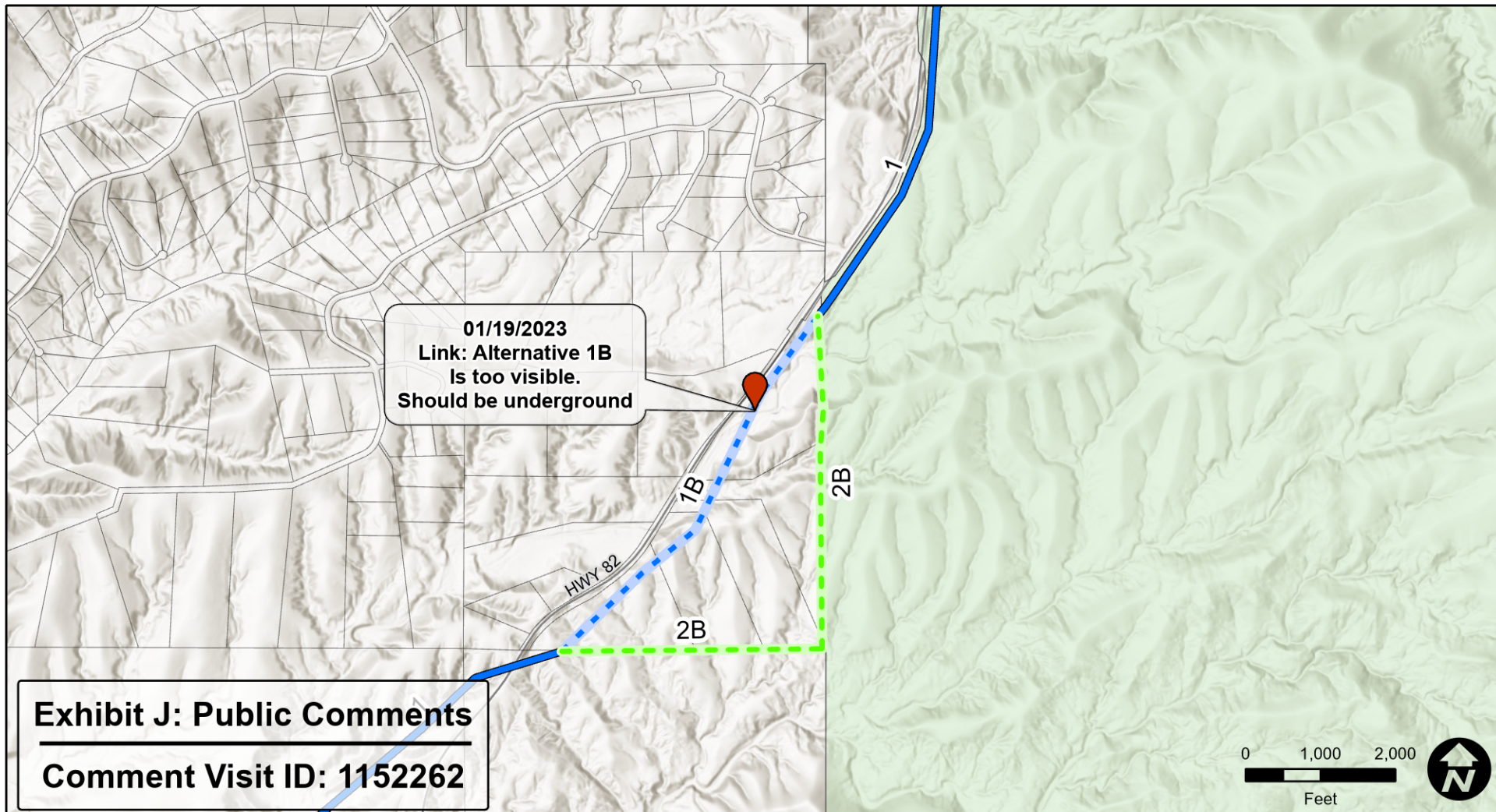
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Scale: 1:24,000

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Comment Type

- Comment
- Concern

Roads

- Roads
- Parcels
- Study Area

Surface Management

- Private (No Color)
- US Forest Service (USFS)

Preferred Alternatives

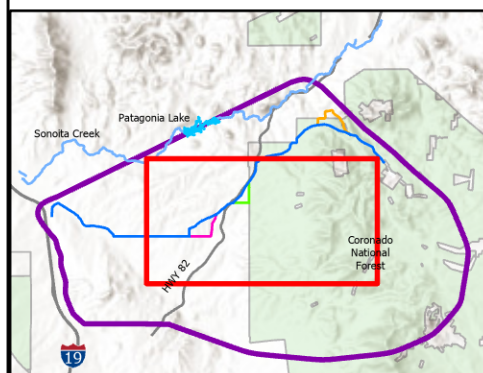
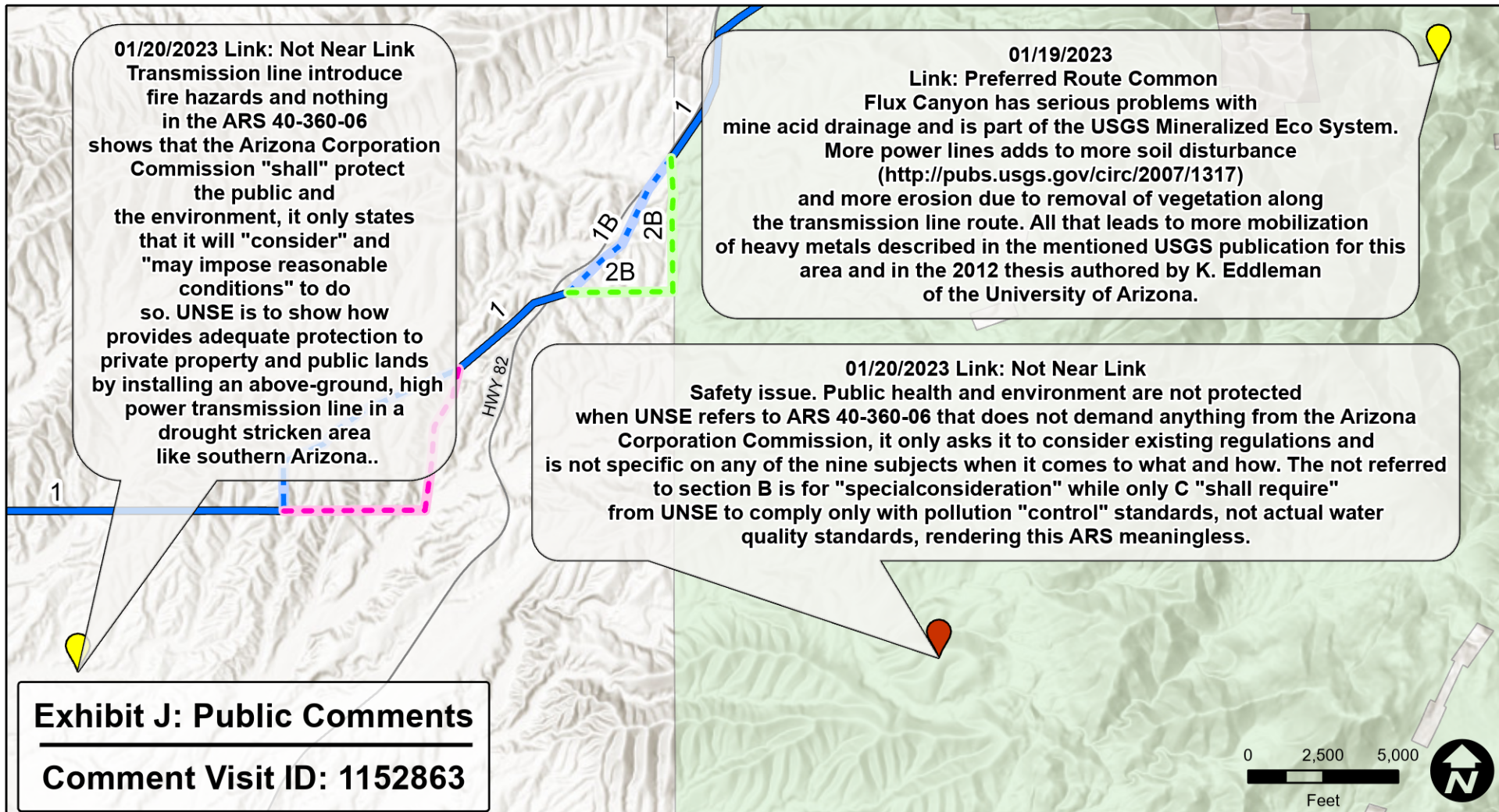
- Route 1 (common to all)
- Section 1A
- Section 1B
- Section 1C
- Section 2A
- Section 2B
- Section 2C

UniSourceEnergy
SERVICES

Scale: 1:24,000

Sources: Esri, UniSource Energy Services,
 Tucson Electric Power, Santa Cruz County,
 and Bureau of Land Management.
 Projection: NAD 1983 UTM Zone 12N
 Basemap: Esri World Topography

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Comment Type

Comment

Concern

Roads

Study Area

Surface Management

Private (No Color)

US Forest Service (USFS)

Preferred Alternatives

Route 1 (common to all)

Section 1A

Section 1B

Section 1C

Section 2A

Section 2B

Section 2C

UniSourceEnergy
SERVICES

Scale: 1:60,000

Sources: Esri, UniSource Energy Services, Tucson Electric Power, Santa Cruz County, and Bureau of Land Management.
Projection: NAD 1983 UTM Zone 12N
Basemap: Esri World Topography

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**Application for a Certificate of Environmental
Compatibility**

**Rio Rico to Harshaw
138 Kilovolt Transmission Line Project**

Exhibit J-18

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Rio Rico-Harshaw 138kV Transmission Line Project

Meeting Log



MeetingType Agency Briefing

Meeting Date 12/13/2022

Meeting Time 9:00 AM

Location Teams Meeting

Agencies UNSE, ADOT

Purpose Provide ADOT with project overview; review scenic requirements

Attendees UNSE:
Clark Bryner
Chris Ortiz y Pino
Teresa Bravo
Cheryl Eamick
CeCe Aguda
ADOT:
Rod Lane - District Engineer
Mark Sanders - Director International Affairs
Jeremy Moore

Discussion Points Clark introduced the project, public outreach, and siting tasks to date. Shared a map of the project showing the proposed alignment of the 138kV line crossing and parallel to SR 82. Noted that the line would be constructed within private land in a ROW granted to UNSE about 300 feet off the edge of the ADOT ROW. No structures would be located within ADOT ROW, and there would be one crossing point of the roadway. ADOT indicated that their review and permitting approval is limited to activities within their ROW, therefore any work done outside the ROW is under the purview of the local jurisdiction.

Concerns The Friends of Scenic Highways 82-83 would be the organization that would have comments on the visual or scenic aspects of construction along or within view of SR 82.

Next Steps Initiate the permit process with ADOT for the crossing, once design plans are prepared. This will be done with the Tucson office. Coordinate with Mark Sanders who is on the geographic and historic panel. This panel is not a group within ADOT, but is set up by the governor's office. Contact Friends of Scenic Highways 82-83. Rod Lane to contact Anne McGreevy and provide her Clark's contact information.

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**Application for a Certificate of Environmental
Compatibility**

**Rio Rico to Harshaw
138 Kilovolt Transmission Line Project**

Exhibit J-19

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[Español](#)

Rio Rico-Harshaw 138kV Transmission Line Project

Comment Deadline

Public comments received after Feb. 7, 2023 will not be included in UNSE's application for a Certificate of Environmental Compatibility, which is expected to be filed with the Arizona Corporation Commission on March 3, 2023. We encourage public involvement in this process and will continue to accept and review comments after this deadline. Comments can also be provided during an upcoming public hearing.

UniSource Energy Services is developing plans for the new Rio Rico to Harshaw 138 Kilovolt (kV) Transmission Line Project.

The Rio Rico to Harshaw Line will involve the construction of an approximately 20-30 mile, single-circuit 138 kV transmission line mounted on steel monopole structures. The project will interconnect UniSource's existing 138 kV transmission system to the proposed Harshaw Substation through a Proposed 138 kV switchyard in Rio Rico.


The line will serve the Hermosa Project, a mine exploration project in Santa Cruz County owned by Arizona Minerals Inc. (AMI), a subsidiary of South32, while improving service reliability for residential and other electric customers in the vicinity, including the Flux Canyon, San Rafael Valley, Washington Camp and Lochiel areas. UNSE's existing 13.2-kV distribution line does not have sufficient capacity to support current and future energy needs in these areas while also satisfying the Hermosa Project's anticipated energy requirements.

Project Details

In-Person Open House Meeting – January 25, 2023



Virtual Open House Meeting – May 19, 2021	+
Virtual Open House Meeting – September 24, 2020	+
Project Components	+
Planning Process	+
Public Participation	+
Study Area	+
Required Approvals and Timeline	+
Project Newsletters	+



Additional documents

- Study Area:
[PDF](#) | [Interactive Map](#)
- [Comment Form / formulario de comentario](#)
- [Comments](#)
Updated Nov. 30, 2022
- [Newsletter #5](#)



- [Residential Property Values](#)

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[English](#)

Proyecto de la línea de transmisión Río Rico-Harshaw

Fecha límite para comentar

Los comentarios públicos recibidos después del 7 de febrero de 2023 no se incluirán en la solicitud de la UNSE para un Certificado de Compatibilidad Ambiental, que se espera que se presente ante la Comisión de Corporaciones de Arizona (Arizona Corporation Commission) el 3 de marzo de 2023. Alentamos la participación pública en este proceso y continuaremos aceptando y revisando los comentarios después de este plazo. También se pueden proporcionar comentarios públicos durante la próxima audiencia pública.

UNS Electric, Inc. (UNSE), una subsidiaria de UniSource Energy Services, está desarrollando planes para el nuevo proyecto de la línea de transmisión Río Rico-Harshaw de 138 kilovoltios (kV) (línea Río RicoHarshaw).

El proyecto de Río Rico a Harshaw supondrá la construcción de una línea de transmisión de un solo circuito de aproximadamente 20 millas que se interconectará con el sistema de transmisión existente de 138 kV de UNSE en un patio de maniobras propuesto cerca de la carretera Interestatal 19 en el área de Río Rico.

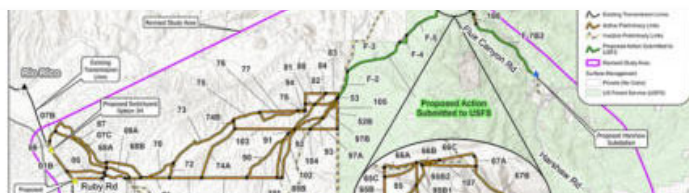
La línea de transmisión prestará servicios al Proyecto Hermosa, un proyecto de exploración minera de Arizona Minerals Inc. (AMI), una subsidiaria de South32, y mejorará el servicio para clientes residenciales y otros consumidores de electricidad de los alrededores, incluidas las áreas de Flux Canyon, San Rafael Valley, Washington Camp y Lochiel. La línea de distribución existente de 13.2 kV de UNSE no tiene capacidad suficiente para satisfacer las necesidades energéticas actuales y futuras en estas áreas y, al mismo tiempo, satisfacer las necesidades energéticas previstas del Proyecto Hermosa.

Los Componentes del Proyecto



[Aprobaciones Requeridas y Cronograma](#)[Boletines informativos del proyecto](#)

Más información está disponible en [la página principal del proyecto](#).



Documentos adicionales

- [Área de estudio](#)
- [Formulario de comentario](#)
- [Boletín informativo n.º 5, enero de 2023](#)

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**Application for a Certificate of Environmental
Compatibility**

**Rio Rico to Harshaw
138 Kilovolt Transmission Line Project**

Exhibit J-20

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Unisource Energy Services

P.O. Box 711

Tucson, AZ. 85702

Re: Citizen objections to the proposed Rio Rico-Harshaw Line Project and the manner of its evaluation by UNS.

We the undersigned, having filed individual responses on the Public Comment form issued by UNS Source Energy ("UNS"), submit this group petition in further support of our objections.

As a general matter, UNS has set a public comment process in motion without the foundation for meaningful public involvement. In our opinion, this defect is fatal to the effectiveness of its public comment process.

First, UNS has not produced a documentary record upon which its current recommendations are based. Without such record, we, as affected citizens, cannot assess whether there's a rational basis for its proposals. Initially, UNS issued a host of route suggestions which were patently infeasible, if not nonsensical, and then issued new route recommendations. One could easily infer from this peculiar procedure that UNS propounded options it knew were unworkable, then withdrew them so that its ultimate narrowing of options would appear reasonable.

We certainly hope that UNS had more respect for the process than that. If so, where is the record of analysis, transcripts of conversations, internal memoranda or other record of discussions that portray the rationale of these initial selections and the basis for their revision? Without that fundamental information, we can have no confidence that the process was reasonably undertaken, nor should the Arizona Corporation Commission.

Second, at the open house that many of us attended on Thursday, November 17, the point was made—almost mantra like—by representatives of UNS with apparent sincerity, that South 32 is a "customer like any other" and therefore is entitled to the power that it needs. This assertion is so astonishing as to raise inferences that the UNS evaluation process is inherently flawed.

Any objective person would plainly recognize that no other customer in the area has or would ever have such enormous power needs. These needs, if met, would so massively disrupt the residents affected as to require unique standards of evaluation. The comment by UNS implies its prejudgment that South 32's needs, not its effects on the residents, are the highest priority,

and therefore calls into question the integrity of the evaluation process and the capacity of UNS to conduct a credible evaluation.

Third, UNS appears to have swallowed hook, line, and sinker, South 32's need for this massive power without revealing the criteria by which it reached such concurrence. We suggest that when a billion-dollar corporation invests money so massively the way South 32 has, its intent is to intimidate the citizenry and public officials alike into accepting that the mine operation is not only inevitable but literally irresistible. This makes it critical that state agencies, or agencies like UNS regulated by the state, be especially scrupulous in analyzing the so-called need. There is absolutely no evidence of such scrupulous review. The contrary appears to be the case.

In fact, UNS appeared at the open house with the attitude that this power line is a *fait accompli* and our only latitude as residents was to select our preferable route from among those unilaterally proffered by UNS. That is a cynical and insulting way to approach this question. Again, it raises questions about the integrity of the evaluation process and underscores the need for UNS to produce documents demonstrating the so-called need.

Fourth, along with the question of need, is the question of whether this whole process is premature. For its project to be successful, by South 32's own reckoning, it needs federal approval either to mine on federal lands and/or to use federal lands for collateral purposes like water treatment and waste removal, etc.

In addition, it is generally known that there is great skepticism from South 32 investors and shareholders about whether this venture is even economically feasible with or without federal permits. Again, the question comes down to: what evidence has South 32 shown to UNS not only of the need for power, but of the imminence of the need, and what documents has UNS either received from South 32 or internally generated that addresses this point.

The point of the foregoing arguments is that before any particular customer can claim the right to make such massive disruptions of the lives and expectations of so many people, there needs to be a far greater record than what appears here. As it stands, UNS is inviting public comment, not upon a reasoned analysis, but on a narrow set of options presented without background or justification.

In the world of environmental analysis, what South 32 is proposing is termed "externalization of impacts." Externalization refers to the process of subjecting unwitting and consenting persons and communities to economic hardship based on the demands of one economic actor. UNS appears to have undertaken no analysis of how these hardships can be minimized and balanced with the public well-being. In fact it does not even appear to have recognized the impacts as a hardship on residents.

UNS seems to shrug its shoulders with the assertion that South 32 is just another customer whose needs must be met. We submit that UNS has the obligation to demonstrate not only the process by which it arrived at the current options, but what other choices are feasible: for instance, requiring that this project be underground at particularly visible places or other routes that would alleviate some of the environmental impacts, including the anxiety of many of the residents. We can't judge those factors until UNS does its homework here, and "hands it in" to us, the public.

One final related comment. In a democracy, one stakeholder does not have the right to act in an arbitrary and capricious manner solely by virtue of its bigness. UNS needs to remember that all of South 32's touted arguments about the economic benefit they bring to Patagonia is purely speculative, and therefore inferior to the showing by other elements in our community of actual and current economic benefits that would be threatened by mine operations.

Our point in this letter is not to argue these dueling contentions, but to point out that UNS has an affirmative obligation to guard against the implied rectitude of large corporations asserting needs and seeking the cheapest way to obtain them at community expense.

The undersigned have relocated here after many years of laboring in various occupations, seeking serenity and comfort in our later years. The introduction of unsightly, pervasive, and disruptive structures along the line of sight, either from our homes or as we travel in our daily pursuits, is indisputably massive. The sightlines is just one of these massive disturbances. [Please see Appendix A for more information.]

We are advised by the lawyers among the undersigned that the standard of judicial review where there is an alleged impact on a fundamental right, is "strict scrutiny." Where a party seeks to burden fundamental rights, it must show a "compelling interest."

The "fundamental right" we assert here is not one of Constitutional dimension, for instance, the First Amendment, or the right to protection against unlawful searches, but to the hundreds of us who've invested in property and made this the venue of our final years, this incursion is fundamental. It represents an impairment of the most fervent expectation about our lives.

We submit therefore that South 32, is obligated to show a compelling interest to implement its project at this time. Similarly, UNS must apply strict scrutiny to this project in all of its implications. It must come forward with a *bona fide* sharing of information, not a disingenuous "open house" inviting us to choose among options that neither we, nor apparently UNS, had any meaningful input in generating.

Sincerely,

The residents of Lake Patagonia and surrounding properties affected by the powerline project.

Claudia Compos	Vincent Pinto	Robert Newcomb
Beth Newcomb	Darla Selander	Ernest Edwards
Mark Willaman	Jamillynn Willaman	Christopher Roberts
Nancy Zannini	Terrence LaNoue	Yunghi Choi
Jean Miller	Leslie Schupp	Mark Kane
Diana R. Nash	Richard P. Nash, III	Phyllis Gordon
Tammie J. Wheatley	Stephen V. DeMarzo	Robin Stevens
Morgan Guynes	Dennis Esch	Ted Miller
C.J. Miller	Mary Ann Picardo	Lee Zierten
Ann Skender	Matt Wallen	Natalie Wallen
Janice Johnson	Avril Forest	Curt Collier
Liz Collier	Nicholas Deere	Sadaf Hashmi
Charles Chadwick	Dawn Chadwick	Dee Ann Pressley
Steven Sylvester	Linda Hilsenhoff	Michael N. Cook
Patricia Fawn-Cook	Ryan Civic	Emily Civic
Cheryl Hamati	William Romley, Jr.	Camille Casteel
Michelle St. Pierre	Michael J. LaFalce, Jr.	Abe Mulkey
Susan Mulkey	Al Monteverde	Sandra Monteverde
Hazel Palpu	Elizabeth A. Dutton, DVM	David A. Bush
Bob Paulson	Laurie Larson	Mike Messina
Connie Messina	Vanessa Register	Brad Register
Susan Butler	Anthony Butler	Athey Butler
Andy Gold	Rita Bradley	Sandy Dillion
Patti Hughes	Doug Krause	Dawn Busse
Chet Busse	Susan Lange	Julian Lange
Craige Crosby	Gail Crosby	Chris Dollaghan
Butch Smith	Sue Smith	Tony Karbouzian
Traci England	James L Blevins	Candace Luther
Veronica Hewitt	Martin G Benevich III	Alex L. Heindl
Patricia Schutier	Julie Scott	Nellinda Lewis
Wayne R. Hayes	Dana J. Hayes	Bailey M. Hayes
Allison P. Hayes	Morgan E. Hayes	Patti Phonix
Alex L. Heindl	Karen Gates	Ingrid Sulich
Jeff Blau	Rhonda Blau	Harold Meckler
Nanette Meckler	Christopher Simmonds	Kathi Simmonds
Richard Ohnstad	Thomas Ohnstad	Karen Rollins
Jeffery A Hotham	Sharon R Hotham	Alejandro Castaneda
Ana Mendoza	David R. Williams III	Wayne A. Doolin
Eileen J. Doolin	Stuart H. Brody	

Cc: Santa Cruz Board of Supervisors
Members of the Arizona Corporation Commission
Arizona Power Plant and Transmission Line Siting Committee

Appendix A

The Center for Biological Diversity, based in Tucson, has identified our Sky Islands region as one of their priority areas for Global Biodiversity Conservation. So have defenders of Wildlife, Sky Islands Alliance, The Nature Conservancy, & eminent Harvard biologist E.O. Wilson. There is biodiversity that would be irreparably harmed by the above ground power line placed in the Lake Patagonia area.

There are over 500 species of birds – among the highest totals of any region in North America as well as 108 mammal species – the most in North America as well. The Sky Islands have more reptile species, including lizards & snakes, than any comparable area in North America. Within Santa Cruz County, one of the most diverse areas for native flora & fauna is exactly where you are proposing to alter & destroy habitat via your new power line.

Another area of concern is wildfires. Wildfires are a huge concern of ours regarding your proposed route through our residential area in Lake Patagonia Ranch Estates. With an ever increasing dry environment fuel loads are often at alarming levels and all it takes is one spark to ignite wild blazes. We should take lessons learned from what happened in California in recent years where the utility company PG&E sparked wildfires and was successfully sued for damages to the tune of \$117 million dollars. Consider this a paper trail forewarning your company that similar litigation will be enacted against Unisource if any wildfires ensue from an aboveground power line – given that you can construct it underground instead, while avoiding any residential areas.

To quote some of the plaintiffs in that successful California lawsuit:

- Excessive temperatures, high winds, low humidity, & bone dry vegetation have been prevalent in California for at least two decades, said Frantz. Yet, we contend that PG&E continues prioritizing profits over community safety & fails to properly maintain & operate their equipment safely, despite the extraordinary risk of property destruction & death that can result from its carelessness.
- The reckless & negligent misconduct on the part of these public utilities has to stop. We will fight to hold them accountable in court on behalf of families & individuals who continue to lose their homes, property, & in many instances, their lives because of the carelessness of these utilities.

By investing money upfront to install an underground power line and by avoiding residential areas you may ultimately save money and avoid costly lawsuits that will inevitably spring from any wildfire caused by ill-advised above-ground power poles.

Many people moved to our area for the quality of life and to enjoy good health in a natural environment, not to be assaulted by the multiplicity of effects spawned by an ill-advised power line route through a residential area that will only serve one customer.

Property values will diminish as the beauty that has drawn all the various residents will be changed for the worse. We all came here to have a peaceful life and not have a large industrial power line ramrodded through without consideration to how it affects us, the local homeowners. By erecting those power lines you will irrevocably alter the residential character of Lake Patagonia Ranch Estates and surrounding communities.

Please carefully consider your proposed routes & choose the route that:

Does not diminish property values

Causes the least environmental harm

Takes into account not just the cost of the project, but its effect on the areas residents.

Rio Rico-Harshaw 138kV Transmission Line Project

Meeting with Residents of Lake Patagonia Area

January 20, 2023 2:00 – 4:00 p.m.

Location: Patagonia, AZ

Invited Attendees: Clark Bryner (UNSE), Roberto Guevara (UNSE), Megan Hill (UNSE), Chris Ortiz y Pino (UNSE), Gary Trent (UNSE), Meghan Grabel (Osborn Maledon); Ernie Edwards, and residents of Lake Patagonia area

Agenda

1. Introductions
2. Discuss protocol for discussion (Clark Bryner)
3. Summary of Lake Patagonia residents' concerns (Ernie Edwards)
4. Petition Concern #1 – South 32 is not a typical customer and UNSE should exercise strict scrutiny in reviewing their requests. (Meghan Grabel)
5. Petition Concern #2 – Documentary record upon which UNSE's current recommendations are based.
 - a. Purpose and need and alternatives explored (Gary Trent)
 - b. Line siting and public engagement process (Clark Bryner)
6. Petition Concern #3 – Timing of the CEC Application – is the process premature? (Meghan Grabel)
7. Other Concerns Raised in Petition
 - a. Effect on property values (Meghan Grabel)
 - b. Effect on biodiversity/environment (Chris Ortiz y Pino)
 - c. Risk of wildfires (Clark Bryner)
 - d. Underground installation (Meghan Grabel)

Date: January 23, 2023
To: Clark Bryner, AICP
Principal Program Manager, Transmission Line Siting
Tucson Electric Power/UNS Electric Inc.

From: Homeowners Group – Patagonia, AZ. (*see undersigned*)
Re: Meeting of January 20, 2023

On January 20, 2023, a meeting was held at the Wild Horse Restaurant in Patagonia, AZ between representatives of Unisource Energy Service (“UNS”) and two homeowner associations of Lake Patagonia (collectively comprising approximately 200 homeowners) and several homeowning/landowner individuals in the surrounding area (“homeowners’ group”) affected by the proposed UNS powerline construction.

The meeting was a response to a petition signed by 116 homeowner’s hand delivered to UNS’s offices in Tucson on December 22, 2022, reflecting concerns about the nature and thoroughness of UNS processes relating to powerline sighting.

While UNS addressed some of the concerns set forth in the petition, the homeowner’s group was left with serious questions concerning the reliability of UNS process and therefore the credibility of the route proposals that UNS plans to submit to the Arizona Corporation Commission (“ACC”) on March 3, 2023.

This letter, and the document requests proposed in it, seek answers to the many questions raised in the petition yet unanswered at the January 20, 2023 meeting.

The concerns of the homeowners group fall roughly into the following general categories: The homeowners group requests a complete information package regarding each of these categories so that we may properly respond to UNS.

- I. We have not received information regarding the adequacy and/or methods used by UNS to determine and evaluate the homeowner’s responses/sentiment (positive or negative) on the Transmission Line Siting issues.
- II. We have not received adequate information regarding the communications and resulting decisions from South 32’s communications with UNS concerning its load and power requests.
- III. We have not received adequate information regarding the process by which UNS determined the appropriate load request and voltage configuration to respond to such demands.
- IV. We have not received adequate information regarding the extent to which the Transmission Line configurations are not limited to responding to South 32’s current

needs, but may allow UNS future market possibilities/expansions, that will ultimately impact the local rate payers beyond what is being told to us today.

- V. We have not received adequate information regarding UNS Line project's Environmental /Ecological impact or the project's impact on Cultural, Historical and Heritage sites.
- VI. We have not received information regarding the investigation into the feasibility and/or desirability of underground construction of the utility lines.

Although these issues were discussed in the January 20th meeting, there remains a significant difference of opinion, and therefore a need for ongoing discussions, between the homeowner's group(s) and UNS, before any Transmission Line Site plan is progressed further or recommended in any fashion. These concerns include (but not limited to) the following issues:

I. The adequacy and correctness of methods to determine and evaluate homeowner's responses/sentiment on the Transmission Line Siting issues.

UNS reported a number of meetings were held among interested homeowners (starting in September 2020) concerning the proposed powerline project. Although a UNS representative stated that 14,000 notices were mailed, he was unable to identify critical factors relating to those meetings: ... for instance, the number of homeowners attending such meetings who offered substantive comments regarding proposed routes, whether there were data summaries of those responding, a professional analysis of that input and how such input resulted in revised route configuration.

Without such documentation, the route process and all its iterations appear, as stated in the petition, an idiosyncratic exercise without grounding in either data collected or professionally recognized standards of evaluation. As a result, numerous route possibilities, without evident compelling rationale, have left homeowners with the impression that our most treasured asset, our homes in their natural setting, are vulnerable to a process that is haphazard and lacking in fundamental science and legal foundation.

We do not accept the implicit UNS rationale that whatever damage, harm or deficiencies that occur from a Transmission Line, can be cured by submission of proposals/protests to the ACC and investigation by the Line Siting Committee. In our view, it is not the purpose of the ACC to retroactively assess, nor correct, a flawed process; but rather to review a sound, orderly, complete, professional process of investigation, evaluation and designation. To do otherwise would stand the public input process on its head and make a mockery of it.

We are not suggesting that UNS officials operated in bad faith, but rather than given the immensity of the impact on homeowners, many of whom are retired and have bought homes in the area to enjoy the fruits of their retirement, UNS is required to undertake a meticulous and

rigorous process that fully informs the homeowners and allows for their response/input to minimize the impact of all areas of this project.

Accordingly, we respectfully request All UNS rules, regulations guidelines and procedures relating to the solicitation and evaluation of public input on power line construction; and all memoranda, records, accounts of meetings and documents relating to UNS' determination of possible routes for the placement of power lines, including the initial proposal to the public and the successive revisions.

A particularly troublesome issue emerged in the course of discussion about the adequacy of UNS' consideration of routes: Apparently the United States Forest Service (USFS) issued a denial of a route through the Duquesne Road corridor. The resulting mandate, forced UNS to limit its route selection through Flux Canyon. The mandate was allegedly issued in the form of a letter (2017?) to then Senator John McCain ("the McCain letter"). However, UNS was unable to identify how this came about and what is the resulting impact on USFS lands options today. Who made this decision and what is the rationale for the USFS's position today? This brings up questions regarding the USFS and the siting of utility easements on the USFS lands.

It appears, that as a result of the McCain letter alone, UNS excluded from route consideration what otherwise would constitute highly desirable route alternatives. The effect, of course, of such inexplicable deference to a document of unknown and unexplained origin was thrusting into consideration routes significantly impacting homeowners rather than avoiding such impacts.

Also troubling is that the apparent decision was embodied in a letter to then Senator Mc Cain, suggesting political intervention and therefore casing serious questions about the fairness and transparency of the Forest Services' unilateral declaration. Further underscoring the troubling issues about the letter is that its logic is circular, and frankly nonsensical. It contends that the existing easement on the Duquesne route is inadequate without addressing the issue whether an adequate expansion of the easement could be practically obtained.

Accordingly, we respectfully request all documents relating to the McCain letter, and all correspondence between UNS and the Forest Service regarding route selection.

II. The nature and consequences of South 32's initial and subsequent communications with UNS concerning the latter's power needs.

A matter of serious concern to the homeowner's group is the apparent failure of UNS to consider the likelihood of actual mining operations taking place, and if so, the phasing in of such operations. We acknowledge that UNS has an obligation to prepare for such operations, but we question whether the designation of routes, and the resulting haste to obtain ACC approval, is grossly premature and an unnecessary hardship on homeowners.

By its own documents, South 32 has acknowledged that its feasibility study—what amounts to a go-no-go decision—will not be issued until “mid 2023,” a decision that will likely result in shareholder review that itself could influence the course of the project. Moreover, litigation pending in Santa Cruz County relating to the adequacy of South 32’s proposed water monitoring plan will also have a major impact on the timing of the project, and whether it goes forward at all.

Why then would UNS conclude the process of line selection for a project that may not take place or whose magnitude cannot possibly be assessed at this point, only speculated upon? As we stated in our petition, the attitude of UNS does not appear to center on the well-being of the homeowners and the substantial anxiety this premature line designation has caused us, but the capitulation to a speculative urgency of South 32.

As noted in the petition, it is the intent of every mine venture to create an aura of inevitability to its projects in order to degrade local response. No public agency should lend itself to such manipulation and we believe that has occurred here.

We believe it is relevant to review all communications between South 32 and UNS to assure the public that the process and the stages of development adopted by UNS are sound, rather than dictated by unfounded or exaggerated representations by South 32.

Accordingly, we respectfully request South’s 32’s initial written request that UNS supply power for its Patagonia mine operations and all correspondence and communications concerning the request, including modifications concerning the requests. (We do understand that some of that material may be privileged and where appropriate may be redacted.)

III. Assurance that the voltage requirements and resulting power line configurations are accurate and in accordance with industry standards.

We understand that a “developmental department” made certain assessments of necessary power requirements to meet South 32’s power demands: 87 Megawatts, an amount roughly equivalent or greater than UNS’ power supply to all of Santa Cruz County. UNS asserts that it did so according to standard industry benchmarks. But these have not been disclosed and no report or evaluation of the development department was identified or produced. This information should be made available to the public. Otherwise, the claim can be made that the assessment was subject to distortion based on South 32’s undisclosed assertions, thus undermining public confidence in the process. It is incumbent upon UNS to make such records available and allow public evaluation *before* submission to the ACC.

Accordingly, we request all reports, assessments, evaluations and documents of any kind relating to UNS’ evaluation of the voltage requirements, including all rules, guidelines, and professional benchmarks applicable to such evaluation.

IV. The extent to which the UNS Power Line configurations are not limited to responding to South 32's current needs, but may allow UNS future market possibilities/expansions, and the ultimate future rate impacts.

Related to the issue of the size of the power lines as set forth in issue III, above, is their eventual use for purposes other than South 32's stated need. It was not clear to us whether the size of the proposed power lines was designed to satisfy South 32's needs, assuming their accuracy, or were they designed with the objective of expanding UNS' customer base. We do not contend such objectives would be necessarily prohibited but assert that they should be disclosed with accompanying analyses of the eventual impact on ratepayers.

Accordingly, we respectfully request all reports summaries, business plans and related documents relating to UNS' plans for the utilization of the lines constructed in response to South 32's requests, for additional uses and market expansion.

V. Adequacy of investigation into environmental and ecological impacts including the impacts of the project on cultural and historical venues

Environmental issues are of immense concern to homeowners, who, in many cases have moved to this region directly because of the incomparable variety of environment diversity and ecological vibrancy. It appears that UNS has not conducted, or caused to be conducted, an environmental analysis commensurate with Regulatory requirements and the severe consequences that this construction poses.

We understand that there has been a "desk audit" only. This is highly troubling. A massive disruption of a unique environment is being dealt with from a desk. Again, we suggest it would be inadequate to undertake a field review *after* route recommendations have been made to the ACC.

Any survey purporting to assess the potential impacts of the proposed UNS transmission line must be done with the highest possible scientific standards in the field and by a truly independent environment contractor. All rare, threatened, and endangered wildlife or native plants known to be in or potentially residing in the vicinity of any proposed route must be surveyed for *prior* to the selection of any power line and during the season(s) they are likely to be encountered in the field.

Accordingly, we respectfully request all documents concerning the evaluation of environmental impacts of the proposed route configuration(s) and plans for further environmental study.

VI. The investigation of the feasibility and desirability of underground construction

UNS represented that it does not do underground construction and that such construction cannot be assessed to rate payers. Therefore, the possibility or desirability of such alternatives has not been evaluated. UNS did not address why such construction could not be subcontracted with costs assessed to South 32. South 32 is not, as the UNS refrain asserts, just another customer. It is an international entity moving, crowding out and threatening the established lifestyle of thousands of people and the settled dreams of many. Stating that South 32 is just another customer to be accommodated under the existing certificate of convenience is a disingenuous deflection of UNS' responsibility.

Conclusion

The position of the homeowners' group, as stated at the January 20, 2023 meeting, is that if the infirmities identified in this letter are corrected—if the process is done correctly—then the optimal choice of routes will emerge naturally from the process and will elicit a broad consensus.

We respectfully submit that the document requests set forth here reflect the legitimate and ongoing concerns of the homeowners directly affected by UNS' proposed action and that UNS, in recognition of this public concern must postpone its planned submission to the ACC on March 3, 2023, and a fresh review be undertaken in accordance with these concerns.

Respectfully, the members of the homeowners committee present at the January 20, 2023 meeting:

Ernie Edwards
Stuart Brody
Darla Selender
Curt Collier
Liz Collier
Vanessa Register
Alejandro Castaneda
Ana Delia Mendozas
David Williams
Bonnie Maclean

cc: *Arizona Corporation Commission*
Arizona Power Plant and Transmission Line Siting Committee
Santa Cruz Board of Supervisors

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**Application for a Certificate of Environmental
Compatibility**

**Rio Rico to Harshaw
138 Kilovolt Transmission Line Project**

Exhibit J-21

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Some Questions concerning the Rio Rico-Harshaw Transmission Line Project
25 August 2022

1. What is the stated "need" for this line?
2. How many residential customers (meters) are present that will be serviced by this line?
 - a. What is the range of the present demand in MW for the existing 12.9 kV line? 4 or 5 MW?
 - b. How long is the present 12.9 kV line? [105 miles]
 - c. Will some meters remain on the present 12.9 kV line and not connect to the new substation?
 - d. How many meters will be before and after of the substation?
 - e. When will UNSE apply for the substation permit to Santa Cruz County?
3. Have you received requests from other mine, than 32 South, to provide service?
 - a. What is the estimated "demand" in MW that is being requested?
 - b. Why is 138 kV needed, since a 69 kV (or double circuit 69 kV), could easily provide the same?
 - c. Has more than one mine requested service?
4. What is the range of the estimated cost for this project? \$10M, \$20M, \$30M, etc
5. What is paying for this line and its substation?
 - a. Are UNSE ratepayers or a proposed mine pay for this line (Rosemont is paying for its line)?
 - b. Will ALL USNE ratepayers pay, including those in Mohave County?
 - c. If a Flux Canyon route is used, who (UNSE/County/mine) will pay for upgrading the road?
6. What is the maximum capacity planned for this line in MW?
7. This line is in the Coronado National Forest, when will NEPA Scoping start for public comment?
 - a. Who is the "point of contact" from the FS for this project? Name, email, phone?
 - b. Since is is closer Nogales FS Station managed Rosemont mine process, why isn't it in charge?
8. What will be the impact during construction on the jaguar critical habitat and other species?
9. Will aircraft warning lights be required or used on some poles related to the airport?

Dir to Res to Flux

Questions from Marshall Magruder 8/25/2022 and UNSE Responses

11/7/2022

1. What is the stated "need" for this line?

RESPONSE: UNSE is responding to a request for service from a customer in its service territory, and is required by law to provide this service. The customer's need is greater than the current line can support, and therefore a higher capacity line is required to be constructed. The construction of the transmission line would also support service reliability of all UNSE's customers in the San Rafael Valley, Washington Camp, and Lochiel areas of Southern Arizona by making improvements to the worst performing circuit in UNSE's service territory.

2. How many residential customers (meters) are present that will be serviced by this line?

RESPONSE: The new line is for transmission, so does not serve residential customers directly. There are 2,535 residential customers currently served by the distribution circuit serving this area (VA-6243).

a. What is the range of the present demand in MW for the existing 12.9 kV line? 4 or 5 MW?

RESPONSE: The existing distribution circuit is actually 13.2kV. Current average load for the circuit is 3.28 MVA, with a peak load of 7.7 MVA.

b. How long is the present 12.9 kV line? [105 miles]

RESPONSE: The existing distribution circuit is actually 13.2kV and consists of 178 circuit miles.

c. Will some meters remain on the present 12.9 kV line and not connect to the new substation?

RESPONSE: Again, the existing distribution circuit is actually 13.2kV. The new substation is planned to have a 13.2kV feeder that would normally serve some of the customers currently served by circuit VA-6243.

d. How many meters will be before and after of the substation?

RESPONSE: There are no billing meters before the substation. After the substation, as currently planned there will be approximately 159 billing meters, including a primary meter to a mine customer, and a primary meter that serves as a back-up source to a number of Comisión Federal de Electricidad (CFE) customers.

e. When will UNSE apply for the substation permit to Santa Cruz County?

RESPONSE: A power substation is a permitted use in the General Rural Zone of the Santa Cruz County zoning ordinance. A building permit/grading permit would be sought from the county once approvals for the transmission line have been issued and substation designs have been finalized.

3. Have you received requests from other mine, than 32 South, to provide service?

RESPONSE: At present, no other service requests have been made by mines in the vicinity of this project.

a. What is the estimated "demand" in MW that is being requested?

RESPONSE: Arizona Minerals Inc (AMI) (a subsidiary of South32) has an anticipated load of 87 MW, or 103 MVA.

b. Why is 138 kV needed, since a 69 kV (or double circuit 69 kV), could easily provide the same?

RESPONSE: UNSE did explore this as an option. Due to the size of the load and distance from the existing 138kV line, a 69kV line (~33 MW capacity), or even a double circuit 69kV line (~50 MW capacity), would be insufficient to serve the load.

c. Has more than one mine requested service?

RESPONSE: No, only AMI has requested service for the future Hermosa Mine.

4. What is the range of the estimated cost for this project? \$10M, \$20M, \$30M, etc

RESPONSE: Permitting, land rights, engineering, and construction of the switchyard and transmission line is estimated to be greater than \$30 million, but will be dependent on the transmission line alternative approved. A more detailed estimate, by alternative will be included in the application for a Certificate of Environmental Compatibility.

5. What is paying for this line and its substation?

a. Are UNSE ratepayers or a proposed mine pay for this line (Rosemont is paying for its line)?

RESPONSE: Ratepayers will receive benefit of this line, but will not be burdened with the cost of paying for attendant costs of construction of the line.

b. Will ALL UNSE ratepayers pay, including those in Mohave County?

RESPONSE: See response to 5a.

c. If a Flux Canyon route is used, who (UNSE/County/mine) will pay for upgrading the road?

RESPONSE: Upgrading Flux Canyon Road is not part of UNSE's project.

6. What is the maximum capacity planned for this line in MW?

RESPONSE: UNSE standards require the line to have a thermal capacity of 2264A/541 MVA continuous. The actual rating will be based on final design.

7. This line is in the Coronado National Forest, when will NEPA Scoping start for public comment?

RESPONSE: The timing of the USFS NEPA process, including scoping, is still to be determined.

a. Who is the "point of contact" from the FS for this project? Name, email, phone?

RESPONSE: A USFS project manager has not yet been assigned and once scoping begins, the USFS will appoint a project lead.

- b. Since it is closer Nogales FS Station managed Rosemont mine process, why isn't it in charge?**

RESPONSE: This project is within the boundaries of the Sierra Vista District of the Coronado National Forest, as opposed to the Nogales District.

- 8. What will be the impact during construction on the jaguar critical habitat and other species?**

RESPONSE: Evaluation of endangered species and designated critical habitats will be conducted in conjunction with the NEPA process.

- 9. Will aircraft warning lights be required or used on some poles related to the airport?**

RESPONSE: The FAA requirements are still being evaluated. UNSE would prefer to avoid installation of warning lights on the structures.

Some Comments and Questions
for January 25 Meeting with UNS Electric (USNE)
for a Proposed Rio Rico-Harshaw 138 kV Transmission line.

Introduction. The environment is uninterrupted at the federal and state administrative land boundary. There are different but overlapping permitting responsibilities and requirements by the state and federal jurisdictions. The **same and continuous** environmental crosses this administrative line and must be considered uninterrupted such as birds, mice, jaguars, plants, insects, snakes, water, toxins, water, weather, and air and are not bound by an administrative line. Both sides of the boundary must consider and use the same environmental data, evaluations, and analyses process. If they differ, a significant flaw in the resultant process.

On each side of this boundary, two different environmental reviews are planned and each significantly impacts the other's side of the border. One is to be completed and permit approved prior to the other starting. If they differ, a significant flaw in the resultant process.

Line Siting Case No. 111 vividly shows how different analysis results led TEP over \$6 to \$8 million loss for a project that has never started; with a different CEC and Record of Decisions approved at the state and federal levels.

The first set of comments and questions below concerns coordination between the state and federal processes. A majority of states, have one combined federal and state environmental review process with an objective coordinated and coherent result. The additional comments discuss cost and funding, alternative route considerations, customer reliability, and other issues.

1. Federal and State Coordination of Environmental Effects Reviews. The program schedule shows completion of the CEC prior to Scoping for the NEPA environment review.
 - a. How will the same data be used for the total environmental analyses for both reviews since the NEPA Scoping doesn't start until after the CEC has been approved by the Commission?
 - b. In addition to the CEC, is an Environmental Impact Statement (EIS) being developed by UNSE so the Coronado National Forest (CNF) can make an objective Record of Decision (ROD) for this project?
 - c. Why are not both the CEC and NEPA processes be done simultaneously to avoid the siting conflicts from the failed TEP Line Siting Case no. 111, as most of the resource, route analysis, and other environmental impacts are the same in both state and federal areas of responsibility?
 - d. Does the Nogales Forester's Office, who manages the Rosemont Mine EIS process, have any responsibilities for local coordination with citizens in Santa Cruz County?
 - e. Who is the CNF decision person, both locally and in Tucson?
 - f. What is the CNF website for this proposal and will the public have full access to its data and documents?
 - g. Who are the USNE, CNF and ACC personnel here tonight and what are their responsibilities?
 - h. Are any of the proposed CNF segments in accordance with National Energy Policy Act of 2005 with pre-approved transmission lines in the "West-Wide National Energy Corridor Study", and if so, where to they intersect with the non-federal land? (Example, segment 368 is NW of Nogales]

- i. In addition to CNF NEPA and ACC CEC approvals, what other permits are required for this mine, Rio Rico switchyard, Harshaw substations and the 138-kV transmission line?
 - j. Will this proposed project start before the mine has all its permits?
 - k. What is the SF 299 process, and its impact on public inputs and access to documents developed in that process?
 - l. Is the Federal Aviation Agency involved with the permitting of this transmission line in the vicinity of the Nogales International Airport and its future growth needs?
 - i. If so, what is the reference for these requirements and
 - ii. How do they impact the proposed line?
 - m. Will ACC electronic filings be used after the ACC CEC process commences or are 25 paper copies of all filings with the ACC still required for the Line Siting Committee?
 - n. Will copies of all environmental reports and CEC testimonies be made available at the Sahuarita, Patagonia, Nogales and Tubac libraries so the public has local information sources?
 - i. If so, what is the reference for these requirements and
 - ii. How do they impact the proposed line?
2. Cost and Funding. The cost for this line is estimated to be greater than \$30 M. It appears that upgrading Flux Canyon Road is not funded as a part of this project but is near the “preferred route” A major local concern is who is paying for this project?
- a. What are the funding and economic relationships between TEP and UNS Electric and the mine in development, construction, operation, and maintain this proposed line?
 - b. Who will pay for development, construction, operation and maintenance of this proposed transmission line and substation(s)?
 - i. Note Rosemont mine company has agreed to fully fund all costs associated with the Rosemont transmission line including removal after the mine project has been completed. NO ratepayer funds to be paid for any part of that project.
 - ii. Also, that mine will be TEP’s largest customer.
 - iii. Mine and mine company names are not used as they frequently change.
 - c. Is there an “utility” road that runs parallel to the transmission line inside an approved CEC or NEPA approved corridor?
 - i. Will pay for the utility road?
 - ii. What are the requirements for such a road?
 - iii. Where will one be used and shown on a topo-scale map?
 - iv. What are its environmental impacts?
 - v. Who will pay for this road if it is used only for construction?
 - vi. Will it be used after the line is completed, and if not, when will the road be returned to its natural state?
 - d. The cost for this line is estimated to be greater than \$30 M.
 - e. Who is funding the upgrading Flux Canyon Road, though not funded as a part of this project?
3. Alternative Routes Considerations. At present, there is one “Preferred” route with three very small Alternative segments.
- a. Why are no “Alternative Routes” being considered such as the Duquesne and Harshaw Road Alternative Route?
 - b. Will this lack of any Alternative Routes meet the NEPA requirements?

- c. Apparently, in 2018, a ‘Senator McCain “2018 letter” discussed a Flux Canyon option. How does this political letter impact objective considerations required by NEPA and the Line Siting Committee? (see p. 130 of 221130 “redacted” comments) Please provide this entire letter to the public.
 - i. Why are the Nov. 30, 2022, Public Comments “redacted”?
 - ii. Please provide the complete set of Public Comments without any redactions.

4. Customer Reliability. This 13.2 kW distribution line has the lowest reliability of any UNSE line. This 178-mile circuit line has approximately 2,350 residential customers. This includes all the 159 billing meters south of the Harshaw substations, the mine, San Rafael Valley, Washington Camp, Lochiel, and Mexican CFE customers in Santa Cruz, Sonora.
 - a. What are the standard reliability statistics for each of the past ten years. (Please include data to show these statistics are derived).
 - b. Will any UNSE customers be served from the proposed 138-kV line between Rio Rico and the 138-kV Harshaw substation other than the mine?
 - c. Will any changes be made to the existing 13.2-kV distribution line after the Harshaw substation?
 - d. Will the present ‘reliability’ for customers on the existing 13.2 kV-line be improved for any customers before the Harshaw substation?
 - e. What are the standard existing reliability statistics for the 159 billed customers past the Harshaw substation and what will be the predicted improvement in reliability for these customers?
 - f. Will this project include a fiber optic line for broadband funded with assistance of a state and/or federal grant?

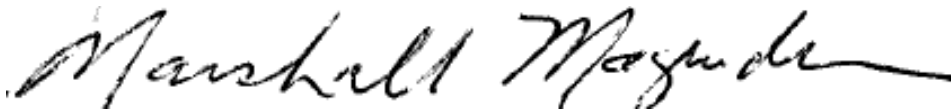
5. Proposed 138-kv Transmission Line Characteristics. The present demand load on the existing 138-kV line is about 100 MW. The anticipated load for the mine is about 87 MW.
 - a. What is the maximum demand capability, without modifications, in MW for the present 138-kV line, excluding local generation at the Valencia Substation?
 - b. Will there be any changes in the existing 138 kV line other than the new switchyard?
 - i. If so, will such changes to meet the demands for the proposed 138 kV line be paid for by UNS Electric customers?
 - ii. Will additional equipment need to be installed at the Valencia substation for this line?
 - c. What will be the impacts of the ACC approved Line Siting Case No. 164 for the “Rosemont” 138-kV line in Pima County that uses a similar Toro Road switchyard as proposed herein?
 - d. The Rosemont line 24/7 demand load requirement is for a 120 MW for that mine complex. Thus, with Rosemont’s 120 MW, UNSE about 100 MW and this proposal another 87 MW, a total of over 300 MW will be necessary for the existing single-circuit 138-kV. Since mines usually operate 24-hours daily, then the demand of the existing 138-kV may require additional capacity.
 - i. If so, will such changes to meet the demands for the proposed 138 kV line be paid for by UNS Electric customers?
 - ii. Will additional equipment need to be installed at the Valencia substation for this line?
 - iii. Who will pay for any such upgrades that are solely for these two mines?
 - iv. The initial Rosemont proposal for power included continuously running the backup turbines in Nogales to meet the additional demand capacity. Is such an option being considered?

- e. What will be the impacts of the ACC approved Line Siting Case No. 176 that can upgrade the existing single-circuit 138-kV to a twin-circuit 230-kV transmission lines between Sonora and Tucson using the same transmission poles as the present 138-kV line in Santa Cruz County?
 - i. How will the impacts of the Case 176 project impact this proposed 138-kV project?
 - ii. Since the Commission in the final decision meeting on Case No. 176 agreed no UNSE customers will fund any part of the Case 176 upgrade, who will fund changes to the 138-kV proposed Rio Rico Switchyard for changes from 138-kV to 230-kV?
- f. Will these transmission line poles also be used for relocating the existing 12.2-kV distribution line, e.g., with both transmission and distribution wires of the same pole in violation of prior ACC practices?
- g. How many wires are be attached to each transmission line pole? (2 lightning, 3 power, and ? distribution) and any others, such as fiber?)

6. Environmental Impacts.

- a. Will transmission line poles have an “anti-raptor” cone on the top each pole?
- b. Is any of the proposed line in the 500-year and 100-year flood plain? If so, where?
- c. What are the vegetation management requirements for this line, i. e., will the easement be “clear cut” or will it be “V-shaped” to prevent tree or fire damage to the line?

Thank you for your response to my comments of 18 Aug 2022.



Marshall Magruder



**Application for a Certificate of Environmental
Compatibility**

**Rio Rico to Harshaw
138 Kilovolt Transmission Line Project**

Exhibit J-22

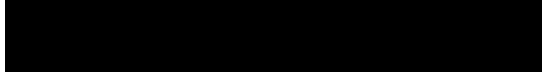
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To: Christina Frazer, P.E.
Senior Project Manager



From: Jason Jocham, P.E. (AZ)
Senior Project Manager



August 10, 2022

MEMORANDUM

Subject: Rio Rico Harshaw 138kV Underground Analysis for United States Forest Service (USFS) Land

INTRODUCTION:

S&L has been contracted to support UNS for the Rio Rico to Harshaw 138kV development. This memorandum is to support the request for additional information received on July 25th, 2022 and in particular the evaluation of undergrounding of the 138kV transmission line on USFS land. S&L has evaluated risks, difficulties, and potential disturbance impacts associated with an underground installation for this particular route and identified their findings below.

INSTALLATION RISKS AND DIFFICULTIES:

Underground installation of transmission lines requires a clear path with minimal/limited bends for construction. The proposed overhead route crosses very rough terrain which per survey information has slopes exceeding 55%. Additionally, this terrain has visible rock outcrops and also has significant elevation changes. These environmental characteristics lead to more extensive construction efforts for the installation of an underground duct bank for an underground transmission line. The high slopes will increase the difficulty of construction requiring larger cuts and subsequently a larger footprint to ensure feasibility of equipment access. Rock along the route leads to specialty equipment being required for installation and typically requires a larger excavated area for duct bank installation as rock does not dissipate

heat well. Finally, the significant number of elevation changes causes difficulty of pulling underground transmission cable which can be easily damaged if too much pressure or tension is applied to the cable during installation. The mitigation for this will be to install additional manholes and splice boxes to relieve the stress on the cable; this subsequently will increase the overall cost of the underground and increase the area of disturbance. Overall, an underground path following the existing proposed overhead alignment would not be recommended.

As an alternative it would be recommended to follow the existing roads in the area. This will limit the amount of slope encountered reducing the maximum slope encountered from 55% to 23% which is much more reasonable for installation utilizing standard construction equipment. In addition, this would limit the amount of disturbance and construction within native USFS land but would increase disturbance slightly by expanding existing flux canyon road. Though this reduces the magnitude of bends along the line due to abrupt elevation changes, it would increase the number of bends as the cable would follow the curvy mountain road. Overall, this approach would add a minimum of 2 miles to the overall route through USFS, but would create a more constructable line.

DISTURBANCE:

Unlike overhead transmission, which can limit earth work disturbance by adjusting structure locations, using access roads, thus reducing the need for vegetation removal, underground transmission will have significant disturbance activities during construction. This can include but is not limited to the clearing and grubbing of vegetation, trenching, and potential cuts beyond the duct bank trench to allow for safe access of workers into the trenched area for installation of conduits and other materials. If the existing overhead proposed path is followed an extensive amount of additional disturbance to native forested lands would occur. If the existing flux canyon road were to be followed, disturbance would be minimized but it is anticipated that road width would have to be increased causing an additional level of disturbance.

CONCLUSION:

For this project, by engineering judgement, installation via underground transmission line does not provide the most cost effective and least invasive approach through the USFS Land. S&L has done an evaluation of cost for underground transmission in a separate section of this line which is much more developed and will require minimal earth work other than the trench itself.

This cost came out at 8 times more expensive than overhead on a per mile basis. Due to the additional cost of earth work, rock excavation, and a longer proposed route due to the severe terrain it would be expected that undergrounding this section would exceed 10-12 times the cost of overhead. In addition, the underground would have a much more permanent impact on vegetation in the area and would permanently scar the terrain. If the terrain is not reclaimed properly it could open the ROW to public activity which would be more discouraged by the overhead line.

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RIO RICO TO HARSHAW 138KV TRANSMISSION LINE

USFS APPLICATION

UNDERGROUNDING VERSUS OVERHEAD MEMO

August 18, 2022

1.0 Introduction

UNS Electric (UNSE) submitted a proposal to the US Forest Service (USFS), Coronado National Forest (CNF), Sierra Vista Ranger District, for authorization to construct a 138 kilovolt (kV) overhead transmission line that would serve the Hermosa Project as well as current UNSE customers in Santa Cruz County. The length of the 138 kV transmission line within the CNF is approximately 7 miles and would replace an existing distribution line in the same approximate alignment. Self-weathering steel monopoles would replace the wooden distribution poles, as the higher voltage requires greater conductor-to-ground clearances and stronger poles.

A 100-foot-wide right-of-way (ROW) is being requested for the new 138 kV line to accommodate safe construction and maintenance as stipulated in National Electric Safety Code (NESC) clearance requirements and UNSE standards. The new structures would range in height from 75 to 110 feet, with spans averaging between 750 and 1,000 feet, depending on topography and geography. UNSE has utilized existing roadway and utility corridors to the extent possible to minimize ground disturbance and visual impacts.

In response to the application, and in accordance with the *2018 Coronado National Forest Plan*, the CNF has requested that UNSE investigate burying the transmission line on USFS lands. UNSE has evaluated this alternative in depth, and requested an undergrounding evaluation from their Engineering Consultant, Sargent & Lundy. The results from Sargent & Lundy's evaluation are outlined below.

2.0 Environmental Considerations

An underground 138 kV transmission line would result in substantial environmental disturbances, both during construction and maintenance.

Construction of an underground line in a previously disturbed, low topographic change section of the alignment would require approximately 17 acres of trenching alone. Additional disturbance would be needed for stockpiling excavated materials, laydown yards, staging areas, wire pulling, and installation of the man vaults. Initial calculations indicate that the overhead construction would disturb approximately 22 acres (total both temporary and permanent), versus the approximately 44 acres of disturbance to build the line underground. Ground disturbance during maintenance and repair of the underground line are not included, but would be substantially more as it could include excavations to repair a duct bank.

Table 1. Estimated Ground Disturbance of Overhead versus Underground

Ground Disturbing Activity	Overhead Disturbance	Overhead Total (acres)	Underground Disturbance	Underground Total (acres)
Flux Canyon Rd Improvements	15,400' x 8'	2.8	Same	2.8
Grounding wire installation (assume required for both)	16,550' x 4'	1.5	Assume same	1.5
Trenching		0	36,960' x 20'	17
Stockpiles		0	164,000 cy (300'x20'x6')	10

Ground Disturbing Activity	Overhead Disturbance	Overhead Total (acres)	Underground Disturbance	Underground Total (acres)
			x 123 / 10' high)	
Structure pads	100' x 100' x 40	9		0
New access roads	6,500' x 20'	3		3
Pull sites	250' x 100' x 10	5.7	250' x 100' x 18 (one per man vault)	10
TOTAL		22		44.3

Most of the route through the CNF, however, crosses very rough terrain, with slopes exceeding 55%, and has visible rocks outcrops and significant elevation changes. If the line were constructed underground, either along the proposed “straight line” alignment, or following the existing Flux Canyon Road, there would be substantial excavation of rock, wider trenches to allow for heat dissipation from the duct bank, installation of additional manholes and splice boxes to handle the elevation changes and reduce impacts to the cable during pulling, and a larger footprint for equipment access. If the line followed Flux Canyon Road, the additional curves of the roadbed would add a minimum of 2 miles to the overall route through the CNF.

Unlike overhead transmission construction, which can limit ground disturbance by adjusting structure locations and access roads thereby reducing the need for vegetation removal, underground line construction would have significant ground disturbance activities. These include clearing and grubbing vegetation, trenching, and cuts beyond the duct bank for safe access, all causing an extensive amount of additional disturbance to native forested lands. These activities would permanently scar the terrain, and could encourage public use of the ROW.

3.0 Economic Considerations

A report was previously obtained for a 138 kV transmission line in the City of Tucson, *138 kilovolt Transmission Line Underground Cost Analysis*, prepared by Sargent & Lundy. This analysis determined that the cost of undergrounding a 138 kV transmission line would be approximately 4 to 8 times greater than a comparable overhead installation in an urban environment. These additional costs are related to both open trench and jack and bore installation of the underground cables. The conductors would be installed in concrete duct banks that would be installed via open-cut trench, and backfilled with thermally corrective fill so as not to hinder the operating performance of the cables.

Sargent & Lundy’s analysis of constructing the line underground through the CNF estimates the cost would be 10 to 12 times the cost of constructing the overhead line (*Rio Rico Harshaw 138 Underground Analysis for United States Forest Service (USFS) Land*, Sargent & Lundy, August 10, 2022).

In addition to the increased construction cost, the maintenance costs are also substantially higher as the conductors are located within a concrete-encased duct bank. Repairs to conductors are lengthy and costly and may require the reliance upon specialized contractors. Considerations such as these may delay what would normally be a straightforward and relatively quick repair.

4.0 Technical Operational Considerations

The ampacity (or rating) of the conductor is affected by the thermal performance of the entire underground system. Factors that affect this performance include soil thermal resistivity, cable size, cable depth, and cable separation.

Due to the effect soil thermal resistivity has on the allowable cable ampacity, thorough modeling of the system is required, to include soil resistivity tests throughout the alignment. The entire area surrounding the cable affects the ampacity, including changes in thickness and types of material layers around the cable. The presence of concrete or asphalt over the cable also affects the rating.

Ampacity is limited by the size of the conductor. The type of cable that can be installed underground (XLPE cable) is limited to 5000-6000 kcmil in size.

The deeper the cable is in the soil, the harder it is for the surrounding soil to dissipate heat, therefore larger cables are required for deeper installations in order to control the thermal performance.

Other cables in proximity can contribute to heat and decrease cable ampacity. Increasing separation between cables requires larger excavations, which result in more ground disturbance and higher cost.

Underground transmission lines have capacitance losses, due to the thinner layer of insulation to the ground versus overhead cables. Underground cables heat faster, due to the thermal insulation of the soil and the sheath around the cable in the underground duct bank which creates heat by induced current. Bonding methods can mitigate this heating, but can also damage the cable jacket.

5.0 Construction Considerations

The most common method of construction of underground transmission lines is duct banks. The duct banks provide mechanical protection for the cable, and are installed a 200 to 300 feet a time in open trenches. The process for open trench construction of the duct banks is as follows:

1. Utilize excavation equipment to remove topsoil and sub-grade material to the desired depth of the duct bank. Typical trench width is 20 feet, and typical depth is 6 feet.
2. Remove the excavated material for disposal, or stockpile for use as backfill (provided it meets the criteria of appropriate backfill).
3. Polyvinyl chloride (PVC) duct would be placed in the open trench, one duct per cable or communication wire. The ducts are held in place with duct spaces to ensure proper cable spacing (to reduce heat as noted above).
4. The trench would be framed, and filled with high strength thermally corrective concrete, with the top portion dyed red to identify as an electric duct bank.
5. Following hardening of the concrete, the trench would be backfilled, and the surface returned to pre-construction conditions.
6. Man vaults would be installed (required for emplacement along the line for installation, splicing, inspection, maintenance, and repairs). Distance between vaults is typically 1,500 to 2,000 feet, and the vaults are 25 to 35 feet long by 7 to 10 feet wide and 10 to 12 feet high. Excavations would need to be 37 x 12 x 12-16 feet. For 7 miles of underground line, approximately 18 vaults would be required.
7. The duct bank would be tested and cleaned by pulling a mandrel through each of the ducts.
8. Cables would then be pulled through the ducts, by setting a reel of cable at one end, and a winch truck at the opposite end. The cables are pulled into a man-vault, and then spliced.
9. Following installation, all cables would be tested at splices and terminations to ensure the jacket is continuous from end to end.

This process would take place in 200 to 300 foot sections for all of the proposed undergrounding portions of the line, up to 7 miles, totaling approximately 123 sections.

6.0 Maintenance Considerations

Inspections of underground transmission lines are conducted every 6 to 12 months, and require visual inspection of terminations, splices, man vaults, etc. To conduct this inspection, the line would need to be de-energized each time one of the man vaults is entered, and all downstream customers would experience

an outage, as this line is radial, and not looped. Overhead line inspections can be conducted from the ground on foot or via aircraft (i.e., drone or helicopter), and do not require an outage.

Failures of underground cables are uncommon, but the time to restore service is lengthy. Outages can last for months, as locating the source of the outage is a timely operation. As opposed to overhead lines, where faults or downed lines are easy to spot, locating a failure in an underground line cannot be done visually. Faults are located with the application of a capacitor discharge from within the man vaults. Once the fault is located, the cable manufacturer is required to make the repairs – if possible. On occasion the cable could fuse to the duct, requiring purchase of a new cable, and replacement of the duct bank, requiring extensive excavation. Cable replacement may be dependent upon vendor lead times resulting in even further delays in repairs.

7.0 Summary

Evaluation of construction and maintenance of an underground 138 kV line indicates that the underground line would 1) result in more environmental disturbance during construction and additional disturbance during maintenance; 2) cost more to construct and maintain; and 3) be operationally less efficient and result in lengthier outages for preventative maintenance or repairs. UNSE is therefore not proposing to construct any portion of the 138 kV line underground, keeping the entire line overhead. To reduce the impact of the transmission line on visual resources, UNSE is proposing the use of self-weathering steel monopoles, which tend to blend into the surrounding landscape, and follow existing disturbed corridors (roadways, pipelines, existing utility lines) to the extent possible.

**Application for a Certificate of Environmental
Compatibility**

**Rio Rico to Harshaw
138 Kilovolt Transmission Line Project**

Exhibit J-23

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https://www.nogalesinternational.com/news/can-t-you-find-some-other-way-public-weighs-in-on-power-line-for-hermosa/article_a74a9d6e-2881-11ed-8624-6b807f7ba710.html

TOP STORY

'Can't you find some other way?' Public weighs in on power line for Hermosa mine

By Angela Gervasi • Nogales International

Aug 30, 2022



Diana Sandoval of UniSource Energy Services answers questions from Tubac resident Marshall Magruder.

Photo by Angela Gervasi

As a major mining operation takes shape in the Patagonia Mountains, UNS Electric is continuing to map out a major power line to bring electricity to the area.

For months, UniSource – the county's only electric supplier – has been developing potential plans for the 138kV transmission line, which would stretch from Rio Rico to Harshaw. And South32, the international mining company behind the Hermosa Project in the Patagonia Mountains, is footing the bill, UniSource staff confirmed.

Still, county residents continue to express a number of concerns aside from the cost, including the project's impact on property values, public health and the local landscape, as well as the fact that it would benefit a mining project with other potential side effects.

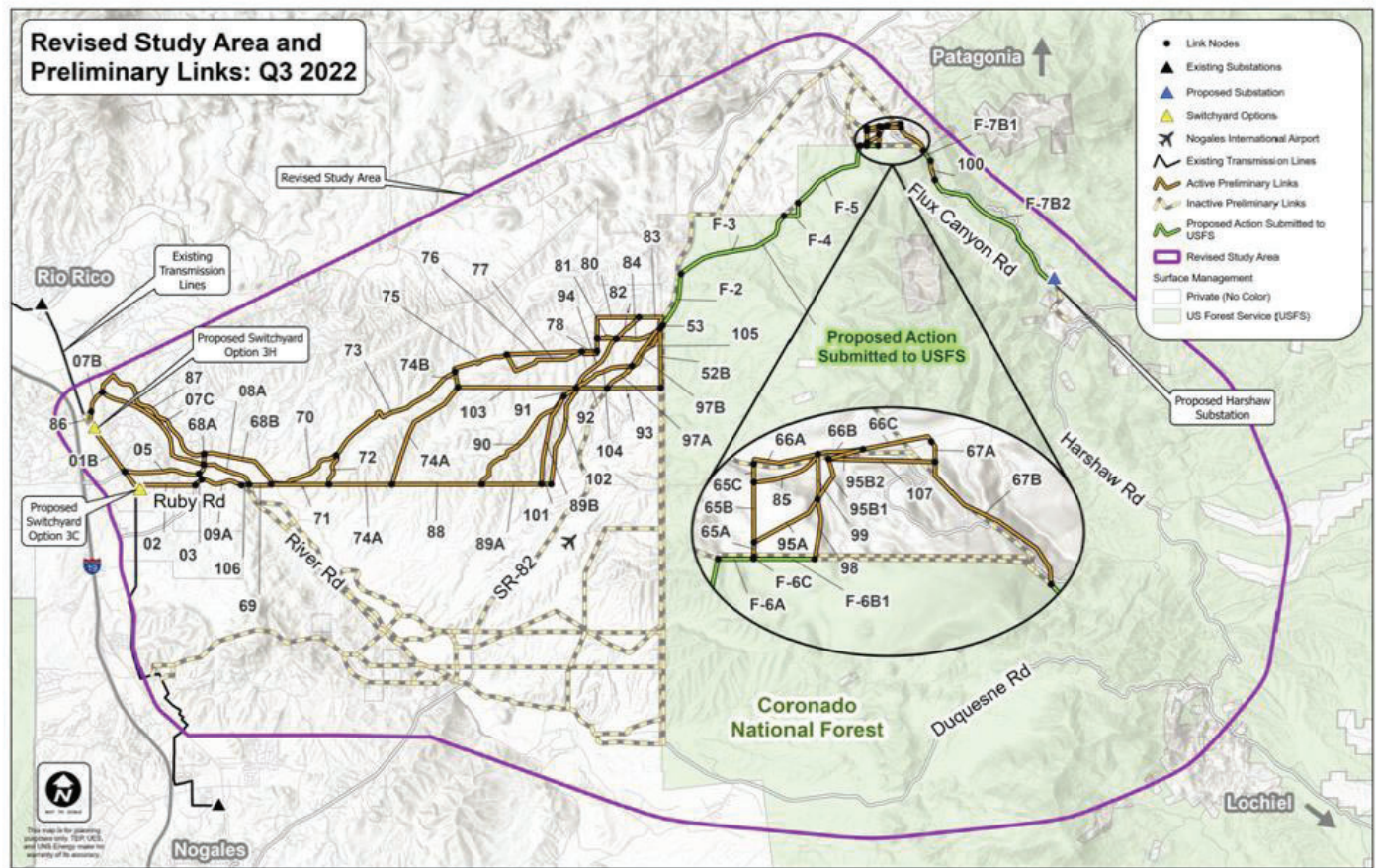
As of now, no plans are final, Clark Bryner told the NI last Thursday.

"Our hope is to take all the comments we get from everybody today," said Bryner, the company's principal program manager for transmission line sighting.

That evening, UNS Electric (UniSource) held another public meeting on the impending transmission line – an effort, the company says, to gather feedback from local residents.

In a conference room at the Americana Hotel in Nogales, residents studied renderings of power lines and jotted down notes on large-scale paper maps of the county.

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The purple line on this map represents the study area of the proposed Rio Rico-to-Harshaw transmission line project.

Map courtesy of UNS Electric

Glancing down at a map, Bob Ollerton pointed to an area near Flux Canyon Road south of Patagonia.

“This is our house,” he said of the home he shares with his wife, Bonnie.

When the couple first found out about the project, Bonnie Ollerton said, a preliminary rendering showed the power line would have stretched over the couple’s kitchen and bedroom – “right over our house,” she added.

Bonnie Ollerton said she spoke with a representative from South32 after seeing those plans. Since then, that particular idea has been scrapped, but other potential routes still felt too close for comfort, she told the NI.

“You look on (UniSource’s) page and the studies say, ‘Oh, no discernible health differences,’” she added. “But we all know.”

The National Cancer Institute currently identifies “no consistent evidence” with regards to a link between cancer and electromagnetic fields, which are created from power lines.

Still, Bob Ollerton said he anticipates trouble if he ever decides to sell the home. The poles will stretch from 75 to 110 feet tall, according to estimates from UniSource, with five to nine poles per mile of land. Both Ollertons regarded the project as a potential hit to property values.

"I mean, you want it over there," Bob Ollerton said, gesturing to the side. "Nobody wants to buy a house with a powerline that size in the backyard."



UniSource staff met with residents Thursday night to discuss possible routes for a new transmission line. The project, staff say, will supply electricity to the Hermosa Project mine in the Patagonia Mountains.

Photo by Angela Gervasi

Access roads and water concerns

Pauli Sedgwick, who helps operate the Santa Fe Ranch Foundation in Nogales, said she showed up Thursday with concerns over the power line's impact on natural resources.

"At first I was a little worried," she said. "I initially thought it was those huge, gigantic, eyesore big structures."

Learning more about the power line project, she said, eased some of those worries. And if the UniSource project creates an access road near the Santa Fe Ranch, she said, that could benefit the ranch's operations.

But, Sedgwick said, she had some remaining concerns over the fact that the power line will ultimately power the Hermosa mine.

"The people from the ranch also are thinking, you know, 'How is this going to impact the water?'" she said.

That concern has been echoed by local environmental advocates over the years, including representatives from the Patagonia Area Resource Alliance. Earlier this year, the watchdog group filed an appeal asking state officials to impose more stringent requirements on South32 in the mining company's attempt to obtain an aquifer permit. In June, an administrative judge ruled against PARA; on Aug. 11, the organization filed another appeal.

Public impacts

The transmission line, according to UNS Electric, will stretch roughly 20 to 30 miles between Rio Rico and Harshaw. And while South32 has agreed to fund the project, UNS staff said it was too early in the planning process to estimate a total cost.



A written comment from a resident cautions UniSource staff from building a major transmission line along Ruby Road.

Photo by Angela Gervasi

It would be the second major transmission line to wind through Santa Cruz County. As of now, Bryner said, only one transmission line in the county surpasses 100kV.

"It probably blends in for anybody down here," Bryner said, describing the existing line's route along Interstate 19.

And while that line supplies electricity to homes and businesses, Bryner said, the Rio Rico-Harshaw line will mostly supply South32's mining operations.

"This is a little bit unique, where it's primarily for a single customer," Bryner said.

Still, he added, "that single customer, that has economic impacts on the area as well, that allows people to live here and have jobs."

By the time it's fully operational in about five years, the Hermosa mine will provide roughly 500 to 600 full-time jobs, according to an estimate from a South32 spokesperson.

That workforce "should remain relatively constant for the life of the multi-decade operation," the company's communications director, Jenny Fiore-M told the NI in April.

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Still, Bob Ollerton wondered aloud whether UniSource could try something less invasive for residents like him.

"I'm not against progress, and what they have to do," he said. "But, jeez. Can't you find some other way?"



Residents and UniSource staff discuss a transmission line project that will bring power to a major mining operation in the Patagonia Mountains via Rio Rico.

Photo by Angela Gervasi

According to Bryner, the principal program manager for UniSource, the company will continue to accept public comment until UniSource ultimately presents a proposal to the Arizona Corporation Commission. Commenting by mid-September would be ideal, he said, though UniSource will accept feedback until its final presentation to the ACC.

Another meeting on the transmission line is slated for the fall.

"I think it's a positive," Bryner said of the project. "But I do recognize it has negative sides as well. Not everybody agrees with me."

He paused as residents continued to scribble notes and ask questions.

"Most of the people here probably don't agree with me," he added.

Learn more about the proposal at www.uesaz.com/rio-rico-to-harshaw.

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Photo by Angela Gervasi

Feedback from a Nov. 17 forum attendee cautions UniSource to avoid building a transmission line near Flux Canyon.

Residents still skeptical of South32-funded power line

Some push for underground alternative

By Angela Gervasi
Nogales International

When visitors stay at Morgan Guynes' vacation rental, they're often drawn to the scenery of Eastern Santa Cruz County.

"One of the reasons why people come there is because they want to have a nice, pristine area," he told the NI.

Now, Guynes said, he's worried that could change.

UniSource Energy Services – the principal electric supplier for Western Santa Cruz County – is mapping

out a large-scale 138-kilo-volt transmission line that would stretch from Rio Rico to Harshaw. South32, an international mining company, is funding the line's construction. The transmission line will provide power for South32's Hermosa Project in the Patagonia Mountains.

As of last Friday, UniSource did not have a cost estimate for the line project, according to Joe Barrios, a spokesperson for the company.

"The cost will vary with the route and length of the facilities," Barrios added in an email.

For now, the transmission line does not have a set route either, according to UniSource staff.

Guynes was among dozens of people who milled through

a conference room at the Quality Inn Americana last Thursday evening for an open-house meeting on the project. The turnout was considerably larger than that of a similar meeting in late August; this time, UniSource staff noted, residents had started showing up an hour early to weigh in.

November's meeting was the second in-person session in which residents offered feedback, in part by scribbling potential routes and notes onto large-scale maps.

"We'll gather up all that information," explained Larry Robinson of UniSource.

Another meeting, likely in January, is expected.

Supporters of the Hermosa Project have lauded the mine as a catalyst for economic growth in Santa Cruz County.

But speaking Thursday, Guynes noted that small business owners like him deserved a say in the discussion and outcome, given their own contributions to the county's economy.

"We hire locals. We have construction companies that help us develop. And we've got people that come and help us maintain our properties," he said. "It's not like we're a deficit."

Why not underground?

As they studied maps and renderings on Thursday, residents expressed concern over the transmission line, noting its potential impacts on public health, property values and ecotourism.

Several residents who

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UniSource seeks to increase electric rates in 2024

UniSource, which serves thousands of residential and commercial customers in Santa Cruz County, is hoping to boost the cost of its electricity services in early 2024.

This month, the company announced it had filed a request with the Arizona Corporation Commission to raise its rates. The ACC, a state-operated office with a five-member board, will ultimately make the final call during a public meeting – typical protocol for any rate change in the state.

If the rate change is approved, the monthly bill for an average residential customer will

increase by \$18.52, according to the company.

In a news release, UniSource said the rate change would help the company pay down its investments on “a stronger, more secure energy grid.”

“We’re doing everything we can to keep service affordable for customers, but we will need higher rates in 2024 to cover the increased cost of providing safe, reliable service for customers,” CEO Susan Gray said in a statement.

The company said it would also offer a new discount plan for low-income customers if the rate increase is approved.

Currently, UniSource said, qualifying consumers can get a \$16 monthly discount on their electric bill. If the rates go up, the company said it will seek an \$18 monthly discount.

To qualify for the discount, known as the CARES Program, electric customers must earn a household income no higher than 200 percent of the federal poverty level.

According to the ACC’s current docket, it does not appear that a hearing has been scheduled yet for the new rates. What’s more, the process to change utility rates can be a lengthy one, according to the

commission.

“Rate cases typically involve months of sworn testimony, audits and examinations to ensure the basis for the rate is legal and justified,” the ACC states on its website.

Reached Monday, a UniSource spokesperson said opportunities for customers to weigh in will be available once the rate case progresses.

“We are committed to public input and will be sharing those dates widely across multiple platforms once they are established,” the spokesperson added.

—Angela Gervasi/Nogales International

LINE

Continued from Page 1

spoke to the NI pitched the idea of an underground transmission line, to stave off aesthetic disturbances to the landscape and avoid the constant hum of an overhead electrical project.

Vanessa Register, president of the Lake Patagonia Ranch Property Owners Association, acknowledged that an underground transmission line would be more costly for South32.

But, she added, “they can pay for it.”

As of Nov. 18, South32’s market capitalization, or stock market value, was nearly \$12 billion, according to a Google Finance report.

Barrios, the UniSource spokesperson, also noticed a push for an underground line during Thursday’s meeting. But UniSource, he explained, generally builds transmission lines overhead – not in the ground.

Still, he told the NI the day after the meeting, “it’s certainly something to discuss” as the company continues engaging with residents.

“It’s important to remember that it’s not a perfect solution,” he added.

In some parts of the country, underground power lines are taking off. Pacific Gas & Electric, for example, is in the process of installing 10,000 miles of infrastructure beneath the ground in California, in part to lower the risk of wildfire.

“We need reliable, safe power,” Register said. “Every time the wind blows, or a monsoon goes through, we all lose power.”

Barrios noted that an underground transmission line would come with its own disadvantages, like disturbing local vegetation.

“It’s not like (the ground) would go back to its original condition,” he said. “It would have to remain cleared.”

Plans not set

Several potential routes were outlined at Thursday’s open-house meeting.

All paths began at a switchyard north of Ruby Road in Rio Rico and meandered east, eventually ending at a proposed substation near Flux Canyon Road, southwest of the



Photo by Angela Gervasi
Larry Robinson of UniSource speaks with Santa Cruz County residents at last Thursday’s forum in Nogales.

town of Patagonia. The routes avoid any interference with the Nogales International Airport.

But on Thursday, nothing was set in stone. UniSource plans to set up another meeting early next year to potentially announce the preferred route, according to principal program manager Clark Bryner.

Still, on Thursday, residents had lingering questions. One asked why nobody from South32 had

attended the meeting.

In response to an inquiry from the NI, a South32 spokesperson noted that UniSource, not South32, would be overseeing the project.

“South32 respects UniSource’s responsibility for identifying potential routes and running all related consultations with approval agencies, the public, and other stakeholders, including South32,” Jenny Fiore-Magaña said in a statement Monday.

At the Thursday meeting, other residents worried aloud over the potential health effects of a transmission line near their homes. (The EPA states that studies are “inconclusive” regarding whether electromagnetic

fields increase cancer risk.)

And Register, the president of the property owners association, echoed Guynes’ earlier concerns about how a large transmission line would impact small businesses – particularly those in the tourism and hospitality sector.

“We have the people that come out here for peace and quiet, and the hum that that thing’s going to give is going to ruin that,” she said.

“People are going to lose their businesses,” Register added. “Why is it OK for one big business to have a business and the little businesses not to? I’m pro-business. But this isn’t OK.”

“We (small businesses) hire locals. We have construction companies that help us develop. And we’ve got people that come and help us maintain our properties. It’s not like we’re a deficit.”

Morgan Guynes, local resident

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to the Editor

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**Application for a Certificate of Environmental
Compatibility**

**Rio Rico to Harshaw
138 Kilovolt Transmission Line Project**

Exhibit J-24

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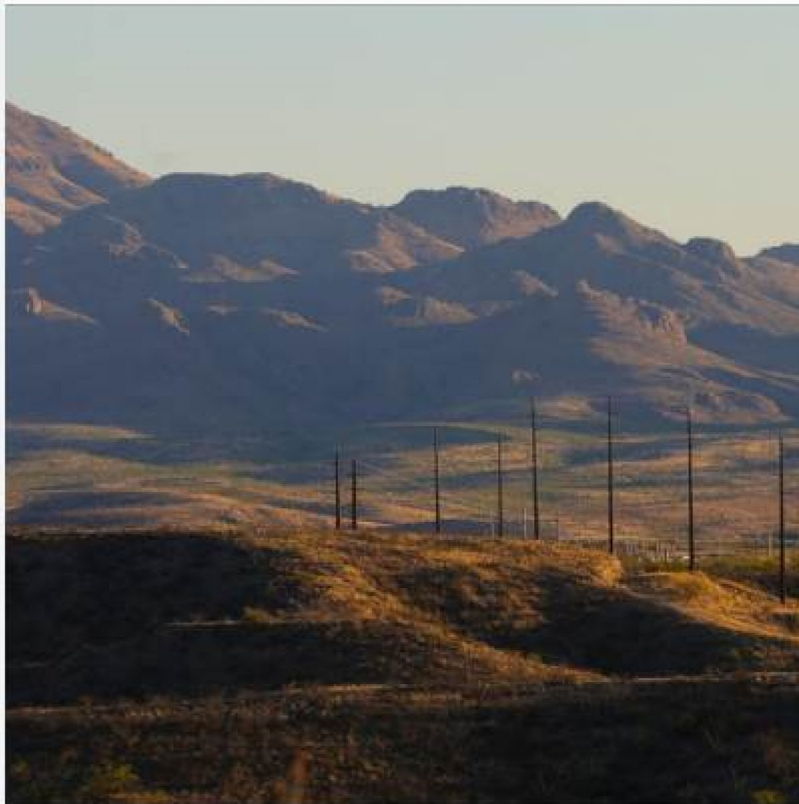


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**Application for a Certificate of Environmental
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EJScreen Report (Version 2.1)

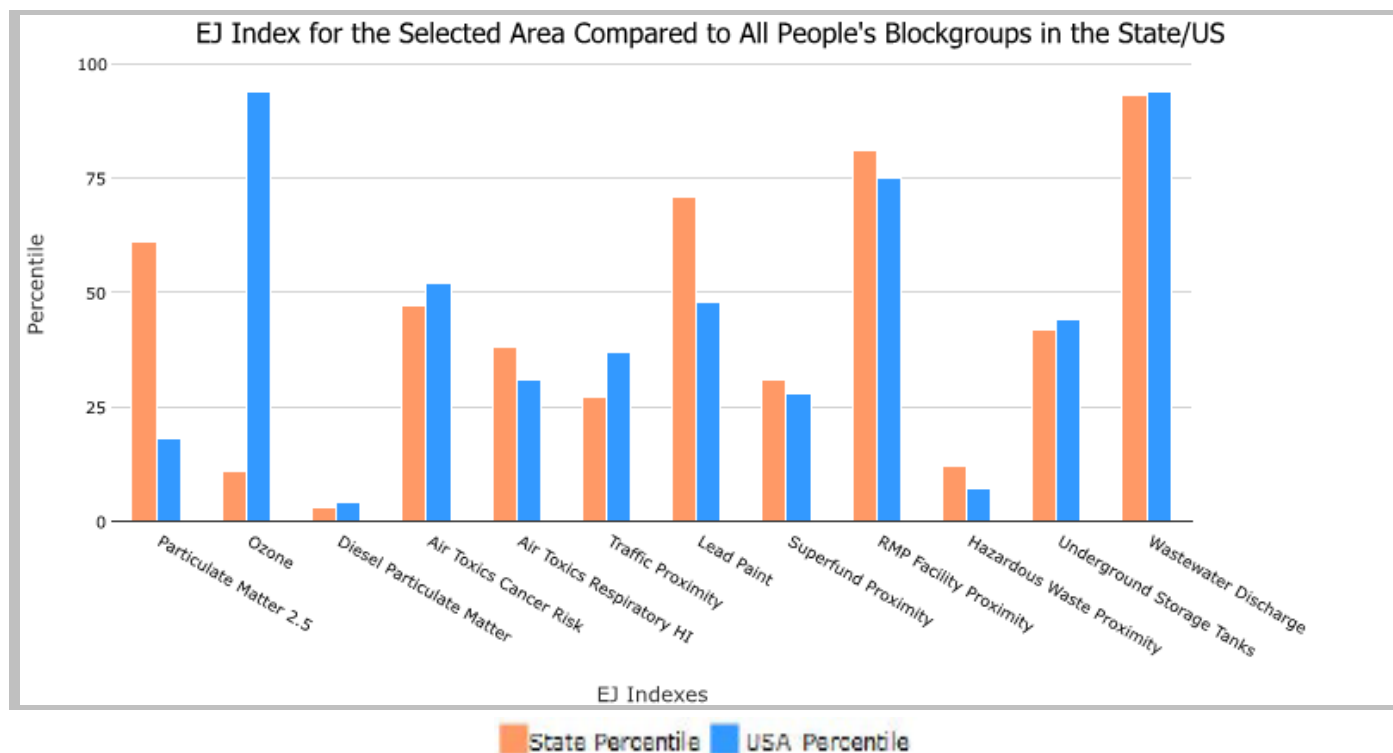
1 mile Ring around the Corridor, ARIZONA, EPA Region 9

Approximate Population: 4,060

Input Area (sq. miles): 35.30

RR2H 138 kV line

Selected Variables	State Percentile	USA Percentile
Environmental Justice Indexes		
EJ Index for Particulate Matter 2.5	61	18
EJ Index for Ozone	11	94
EJ Index for Diesel Particulate Matter*	3	4
EJ Index for Air Toxics Cancer Risk*	47	52
EJ Index for Air Toxics Respiratory HI*	38	31
EJ Index for Traffic Proximity	27	37
EJ Index for Lead Paint	71	48
EJ Index for Superfund Proximity	31	28
EJ Index for RMP Facility Proximity	81	75
EJ Index for Hazardous Waste Proximity	12	7
EJ Index for Underground Storage Tanks	42	44
EJ Index for Wastewater Discharge	93	94



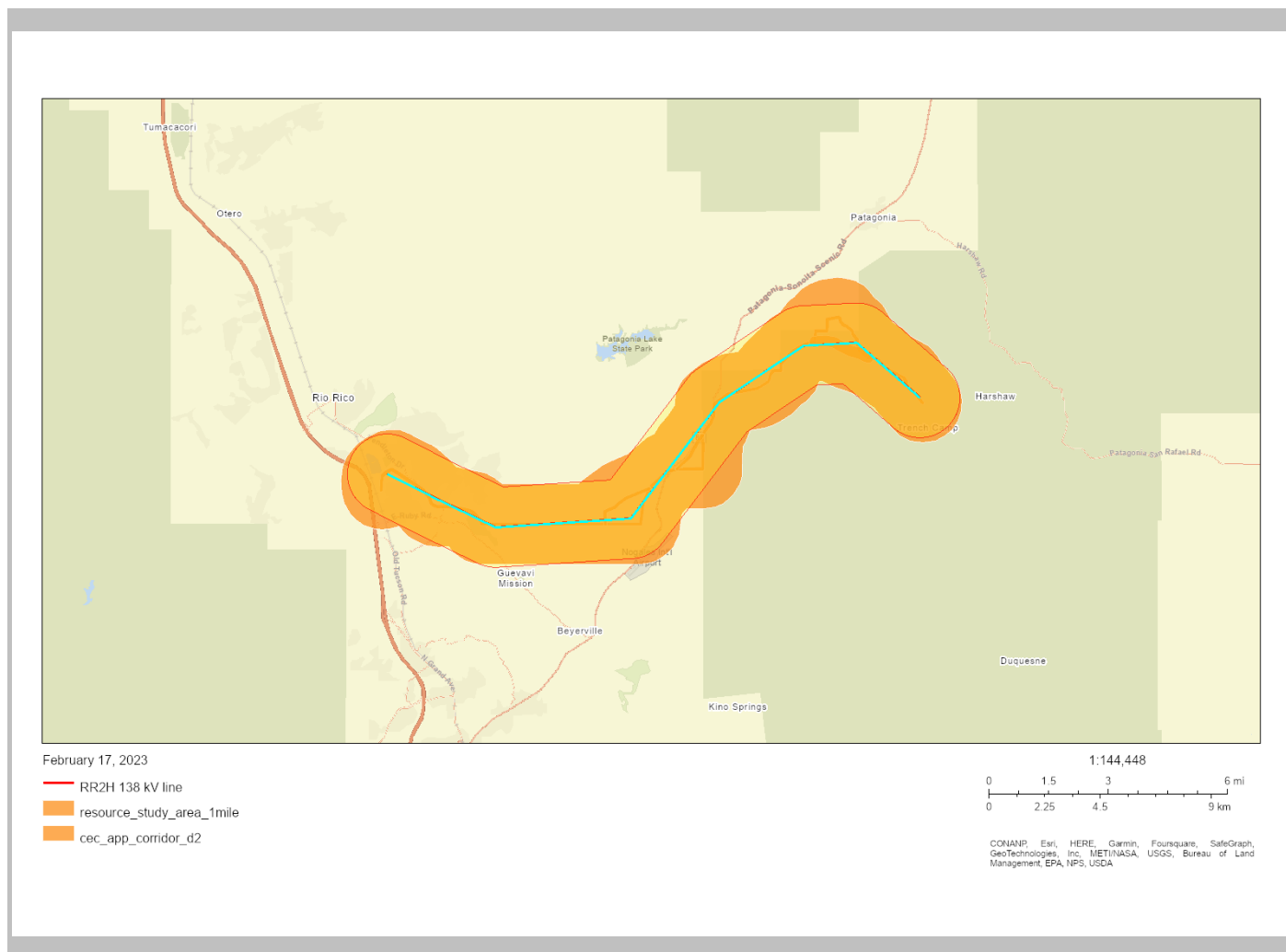
This report shows the values for environmental and demographic indicators and EJSCREEN indexes. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports.

1 mile Ring around the Corridor, ARIZONA, EPA Region 9

Approximate Population: 4,060

Input Area (sq. miles): 35.30

RR2H 138 kV line



Sites reporting to EPA	
Superfund NPL	0
Hazardous Waste Treatment, Storage, and Disposal Facilities (TSDF)	0

EJScreen Report (Version 2.1)

1 mile Ring around the Corridor, ARIZONA, EPA Region 9

Approximate Population: 4,060

Input Area (sq. miles): 35.30

RR2H 138 kV line

Selected Variables	Value	State Avg.	%ile in State	USA Avg.	%ile in USA
Pollution and Sources					
Particulate Matter 2.5 ($\mu\text{g}/\text{m}^3$)	6.17	7.24	31	8.67	5
Ozone (ppb)	48.9	54.2	5	42.5	88
Diesel Particulate Matter* ($\mu\text{g}/\text{m}^3$)	0.0236	0.318	2	0.294	<50th
Air Toxics Cancer Risk* (lifetime risk per million)	20	32	29	28	<50th
Air Toxics Respiratory HI*	0.2	0.37	21	0.36	<50th
Traffic Proximity (daily traffic count/distance to road)	30	570	14	760	18
Lead Paint (% Pre-1960 Housing)	0.039	0.08	64	0.27	23
Superfund Proximity (site count/km distance)	0.014	0.077	12	0.13	9
RMP Facility Proximity (facility count/km distance)	0.34	0.62	60	0.77	51
Hazardous Waste Proximity (facility count/km distance)	0.02	1.4	5	2.2	2
Underground Storage Tanks (count/km ²)	0.16	1.7	35	3.9	30
Wastewater Discharge (toxicity-weighted concentration/m distance)	1.6	6.7	83	12	94
Socioeconomic Indicators					
Demographic Index	60%	38%	80	35%	82
People of Color	87%	46%	89	40%	87
Low Income	33%	33%	55	30%	58
Unemployment Rate	6%	6%	61	5%	63
Limited English Speaking Households	19%	4%	95	5%	92
Less Than High School Education	16%	12%	71	12%	72
Under Age 5	8%	6%	72	6%	73
Over Age 64	11%	18%	39	16%	31

*Diesel particulate matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haps/air-toxics-data-update>.

For additional information, see: www.epa.gov/environmentaljustice

EJScreen is a screening tool for pre-decisional use only. It can help identify areas that may warrant additional consideration, analysis, or outreach. It does not provide a basis for decision-making, but it may help identify potential areas of EJ concern. Users should keep in mind that screening tools are subject to substantial uncertainty in their demographic and environmental data, particularly when looking at small geographic areas. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJScreen documentation for discussion of these issues before using reports. This screening tool does not provide data on every environmental impact and demographic factor that may be relevant to a particular location. EJScreen outputs should be supplemented with additional information and local knowledge before taking any action to address potential EJ concerns.

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