

Carbon County/Town of Saratoga RiskMAP Project

- I. **Initial Scoping/Discovery Meeting:** March 4, 2015
The purpose of this meeting was to introduce the project to community officials and key stakeholders, discuss areas of enhancement, modeling approach/methodology, and mitigation opportunities.
- II. **Kickoff Meeting:** November 2016
A Kick-off Webinar to review the RiskMAP process and verify study methodology/approach.
- III. **Data Development:**
 - a. *Field Survey* - Collected in 2016 and 2017.
 - b. *LiDAR/Topographic Data*- 3DEP Terrain Data with gaps filled using NRCS data, Compass data, and data from the Town of Rawlins. (See FIS Table 22: Summary of Topographic Elevation Data Used in Mapping)

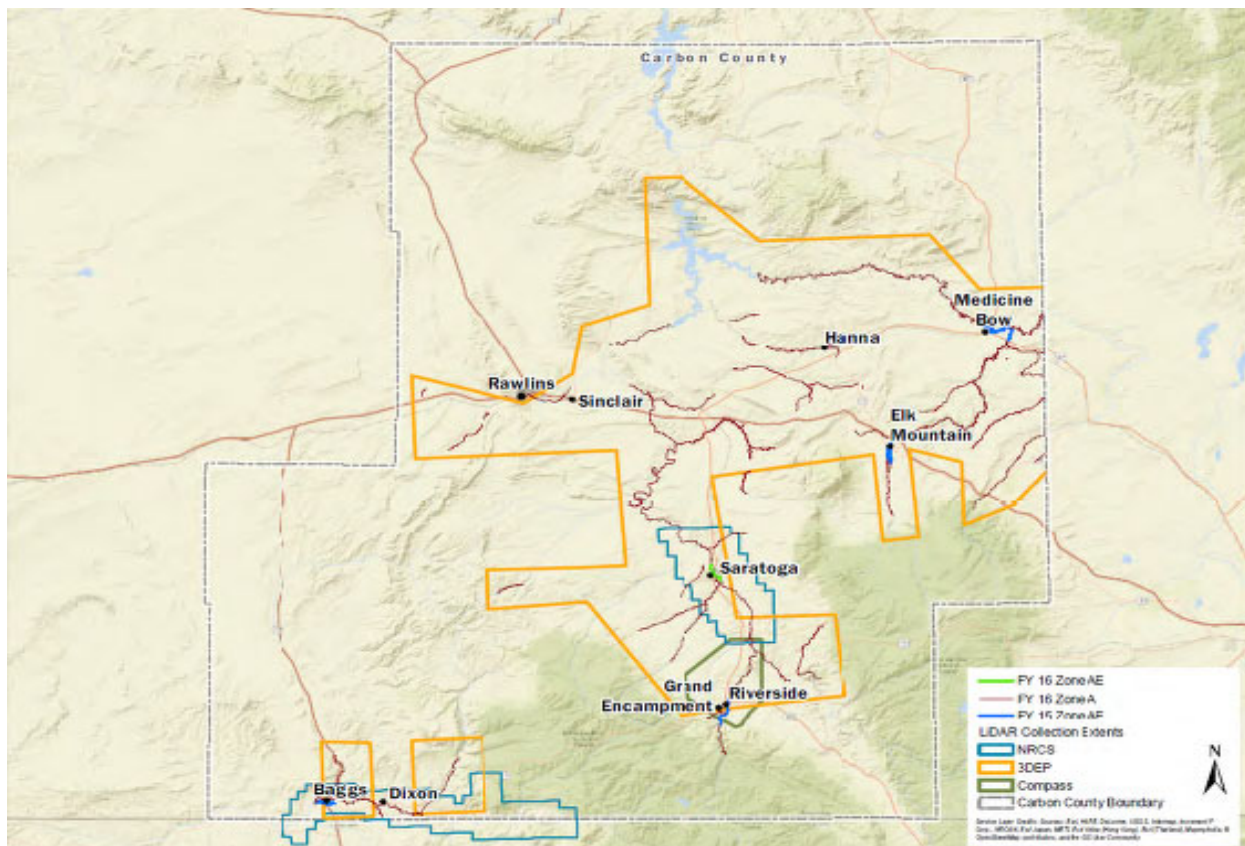


Figure 1 Topographic Data Sources in Carbon County

- c. *Hydrology*- USGS gages where available (See FIS Table 11: Stream Gage Information Used to Determine Discharges and Table 9: Summary of Discharges). Wyoming USGS Regression equations where gages are not available.
- d. *Hydraulics*- Analyses of the hydraulic characteristics of flooding were carried out to provide estimates of the elevations of floods of the selected recurrence intervals. Detailed/AE study of the North Platte River was performed using HEC RAS 5.03.

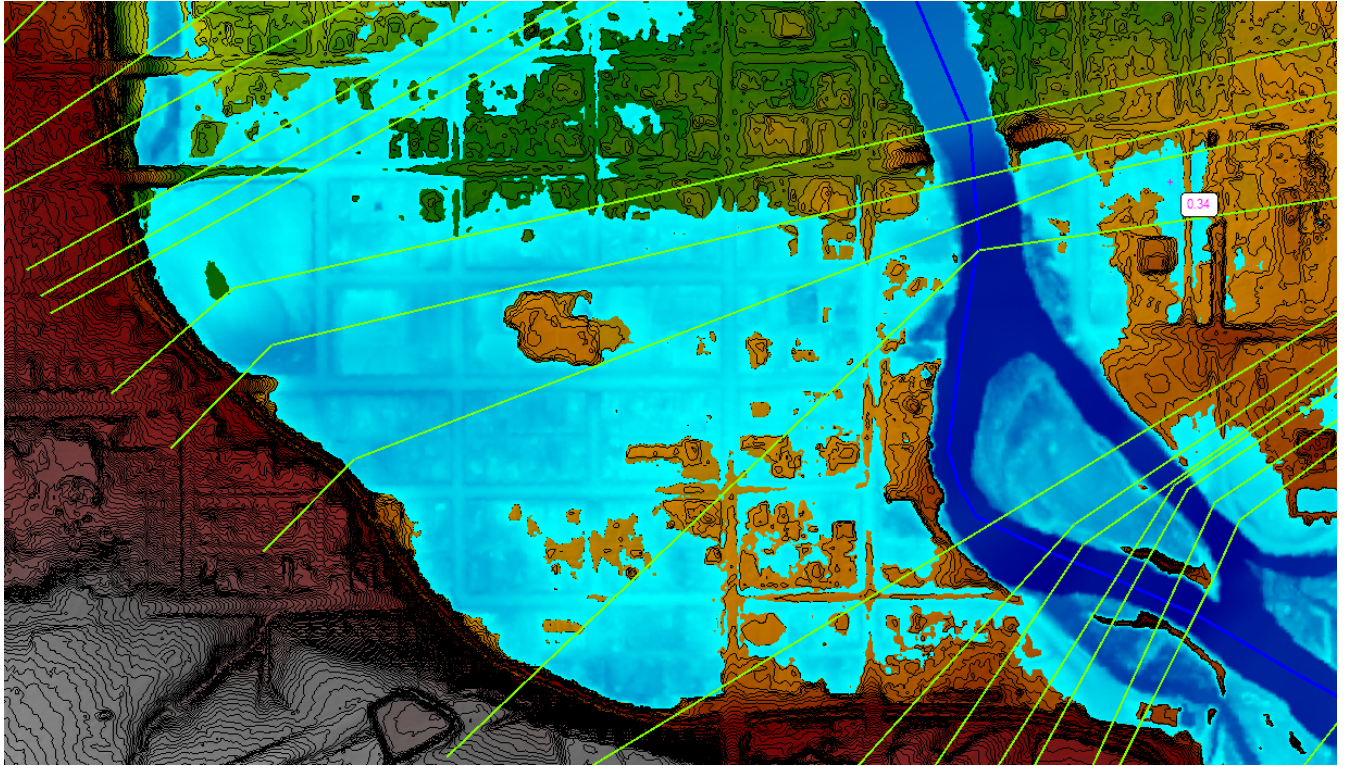


Figure 2 Raw Data Generated by RasMapper

- a. **Floodplain mapping-** The initial raw results generated by RASMapper demonstrate the flow of water, as floods overtops the bank of the North Platte into the smaller channel along the western part of town. The flooding is not contained in the channel in the hydraulic model and spills out into the overbanks. Floodplain boundaries are delineated using the flood elevations determined at each cross section. Between cross sections, boundaries are delineated by finding the intersection of the ground surface defined by the underlying digital terrain model and the flood surface. Floodplain boundaries are delineated on the best available topographic mapping using the water-surface elevations determined at cross sections. FEMA's RiskMAP process is designed to update risk at a mappable scale, and rules, tolerance, and coarseness levels may impact final results. Small changes may occur during the transformation of the data into updated floodplain mapping polygons that meet FEMA's mapping standards.

IV. Flood Risk Review: August 27, 2018

FEMA Region 8 visited the Town of Saratoga to share draft data results with community officials. The following work map was reviewed and the results were agreed upon by stakeholders. Much of the discussion revolved around flood mitigation in Saratoga, recent events, and collaboration with USACE (also in attendance).

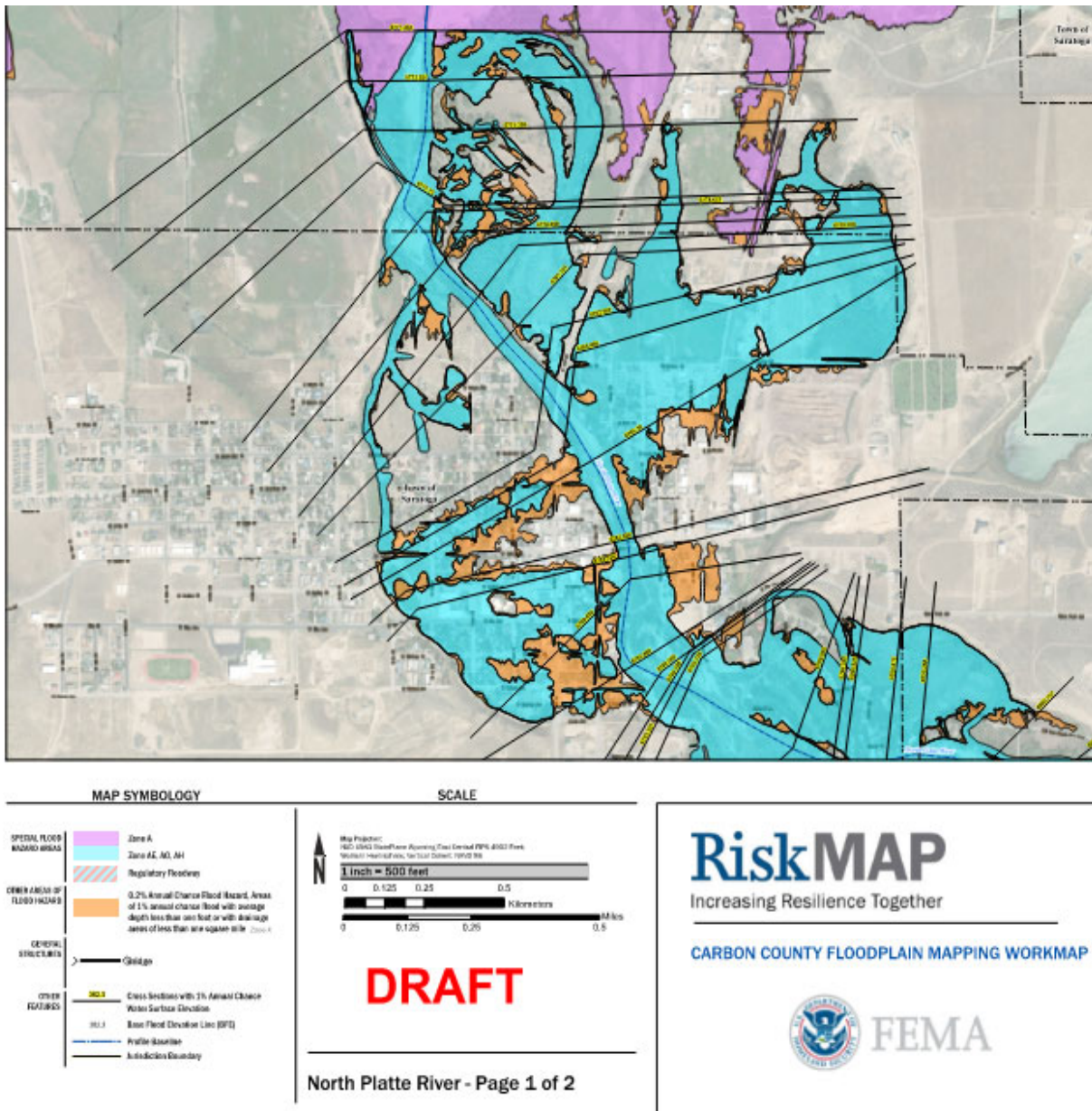


Figure 3 Draft map shown at 2018 Flood Risk Review Meeting

The flow paths in the overbanks are not defined and flooding occurs in the lower lying areas. Areas with an elevation (data provided by Saratoga) above the 500-year and 100-year BFE will be shown as "out" of the floodplain, or as unshaded zone x. Based on the information that we have, there does not appear to be any pertinent topographic feature that would keep the water from spreading out to the west if it escaped the channel banks in that area.

V. **CCO Meeting:** August 12, 2020

Amidst the pandemic, FEMA Region 8 held a virtual with community officials to review preliminary maps issued on July 16, 2020. The maps were reviewed by community officials in both Saratoga and the County and FEMA addressed any questions about the methodology and results. FEMA did not receive any formal comments or appeal submittals.

VI. **Revised Preliminary:** Issued November 9, 2022

In the final QR5-7 review, BFEs on Panel 2983 were flagged for revision. Inadvertently clipped floodplain from Hot Slough was added, as well as additional labels on Panel 2979. The flood hazard boundaries shown did not change from the 2018 work maps or 2020 preliminary maps, and the 2022 revisions will not impact any structures. The XS through this extend across the mapped floodplain, but in this recent revision to the mapping, due to a panel break, the XS were truncated at what seemed like a reasonable location, so that the panel to the west wouldn't appear to have floating XS.

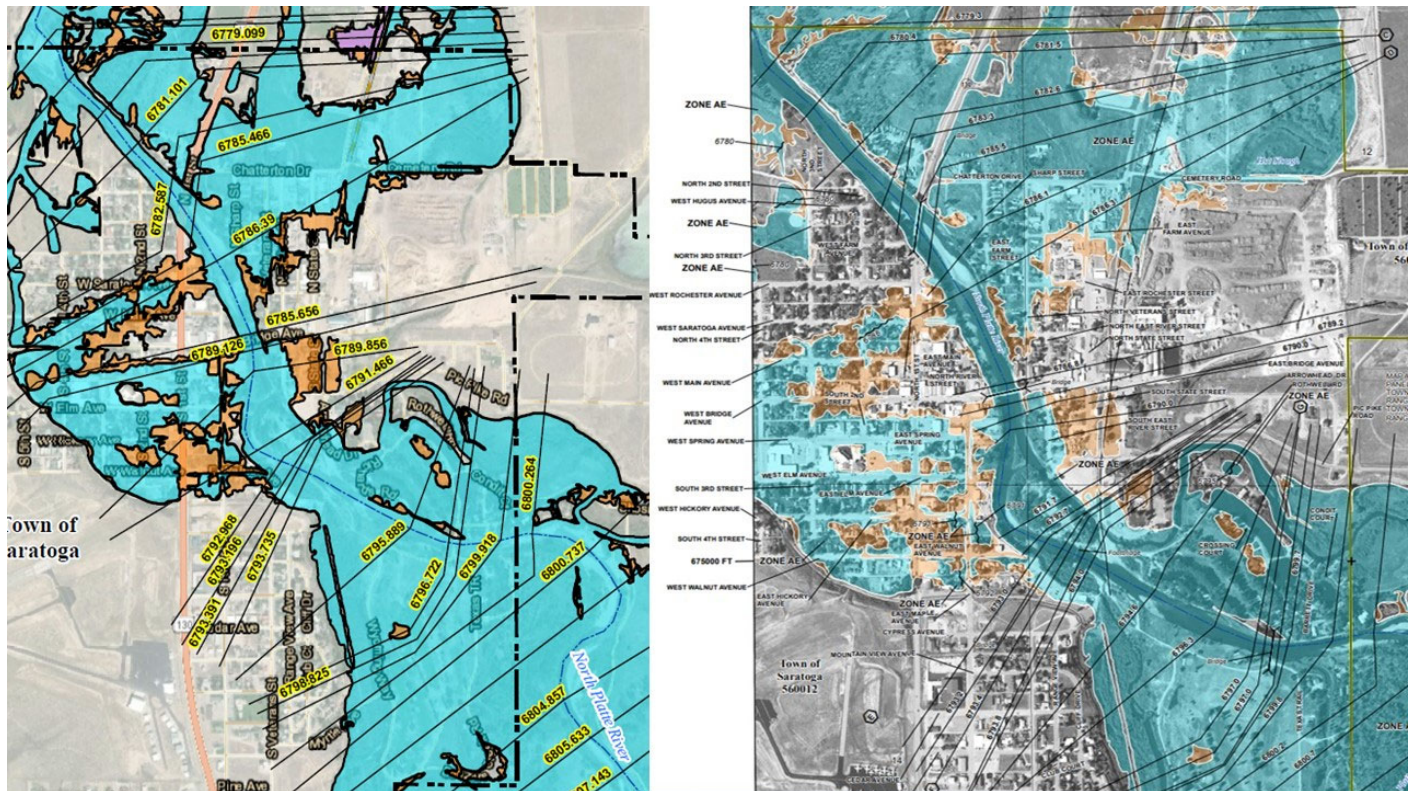


Figure 4 (Left) Work map shown at 2018 FRR compared to 2022 preliminary map (right).

VII. **FEMA Mapping Standards Reference/Resources**

[Flood Risk Analysis and Mapping Policy Revision 12 \(fema.gov\)](https://www.fema.gov/flood-risk-analysis-and-mapping-policy-revision-12)

[Riverine Mapping and Floodplain Boundaries Guidance \(fema.gov\)](https://www.fema.gov/riverine-mapping-and-floodplain-boundaries-guidance)

[Guidelines and Standards for Flood Risk Analysis and Mapping Activities Under the Risk MAP Program | FEMA.gov](https://www.fema.gov/guidelines-and-standards-for-flood-risk-analysis-and-mapping-activities-under-the-risk-map-program)

VIII. Meeting Attendance

Carbon County, Wyoming RiskMAP Discovery Meeting
 Jeffrey Memorial Community Center
 315 West Pine St.
 Rawlins, WY 82301
 March 4, 2015 @ 6:00 PM

Name	Organization	Title/Position	Email Address/Phone Number
Kenda Colman	Council/Town Med. Bur.	Council	kjcolman@vistabeam.com
JOHN ZEIGER	Carbon County	EMM	ccema@carbonwy.com
William Sherwood	Town of Elk Mountain	Fires Chief	elkmountainwillie@gmail.com
Leroy STEPHENSON	Town of Riverside	MAYOR	wyopsr@yaho.com
Tracy Fowler	Town of Hanna	Council	trfowler13@hotmail.com
SID FOX	CARBON Co.	Co. PLANNER	SidVefiox@CARBONWY.COM
ADAM MEDERWAL	CITY of RAWLINS	CITY PLANNER	AMEDS@HALL@RAWLINS-WYOMING.COM
DAVID LOUIS	Rawlins Daily Times	Reporter	DLouis@RawlinsTimes.com
Kevin Colman	Town of Medicine Bow	PLANNER	kevincolman@carbonwy.com 307-378-2777
Kim Johnson	Wy Homeland Sec	N FIP COORDINATOR	kim.johnson@wyo.gov 307-877-4410
GATES SALISBURY	Town of Evans	MAYOR	
Robert K. Meyer	Town of Elk Mtn	Town Council Captain	rkm@union-tel.com
Steve Nicholson	CITY of Rawlins	Vice Mayor	snicholson@yahoo.com
Kiz Wood	Saratoga Sun	Publisher	editor@union-tel.com
CHL U'HARE	BIGFOOT99	REPORTER	OHARECAKE@YAHOO.COM
CHUCK BARTLETT	TOWN OF SARATOGA	TOWN ENGINEER	CHUCK@SARATOGA.WYO.ORG
Michelle Sidon	ThroustheHorse	OWNER	stonegait@throusthehorse.com
Brooke Buchanan	FEMA	Senior Engineer	Brooke.Buchanan@fema.dhs.gov
Linda Wagner	Hanna	Council Member	townofhanna3@union-tel.com
JOE GRILLO	ELK MOUNTAIN	COUNCIL MEMBER	jwg@polysteeluxi.com
RYAN CARRON	MICHAEL BAKER	PROJECT MGR	rcarron@mbakerintl.com 720-514-1123
CHRIS LIDSTON	BAGGS/DIXON	ENGINEER	cdl@lidstone.com
MELODIE SEILAFF	Town Dixon	Council Member	mmseilaff@yahoo.com
Lorill Herold	Town Dixon	CO-MAIL MEMBER	wyoPilgrim@msn.com
KATHY STAMAN	TOWN OF BAGGS	MAYOR	kstaman@dteworld.com

Figure 5 Sign-in sheet from 2015 Discovery Meeting



FEMA

1 of ___
Total # of Attendees ___

Carbon County Flood Risk Review Meeting

August 27, 2018			
Name	Organization / Title	E-mail	Phone
1 Kenda Colman	Town Council Medicine Bow	kjcolman1@gmail.com	307-379-2635
2 Pat Eastman	Zoning Officer, EIKMT	pceastman7@gmail.com	307-328-7455 307/328-4599
3 Ariel Phipps	City of Rawlins / Administrative Secretary Community Development	aphipps@rawlins-wyoming.com	307-328-4599
4 Danielle Gross	City of Rawlins / Operations Manager	dgross@rawlins-wyoming.com	
5 Dan Cheatham	City of Biggs / council person	dancheatham87@gmail.com	307-380-6176
6 Shan D Ferguson	city of Biggs / council member		307) 380-8061
7 AnnaMarie Waldron	Town of Biggs / Mayor	annamawaldron@gmail.com	307-380-7757
8 Melinda Gibson	Wyo Office of Homeland Security	melindagibson@wyo.gov	307 777 4914
17 Emma Diercks	Report Toga Radio LLC Biggs WY	emma@bigfoot99.com	651.301.5965
18 Lacey Stephenson	MAYOR / RIVERSIDE, WY	WYDUPSER@YAHOO.COM	307-327-5968
19 Sally + Bill Patton	SARATOGA, WYOMING 82331 207 S. River Street	sally.patton1955@gmail.com	307 321-1083 702 775 2348
9 Jamie Prochno	USACE Omaha / Civil Engineer	jamie.prochno@usace.army.mil	
10 Lisa Brink	CDM Smith	brinklm@cdmsmith.com	316.412.3113
11 Matt Buddie	FEMA	matthew.buddie@fema.dhs.gov	
12 Ed Glode	Mayor Saratoga	mayor@saratoga.wyo.org	307-329-3313
13 Will Faust	Council Saratoga	will.f.faust@gmail.com	307-329-8486
14 Sid Fox	CARBON COUNTY	sidneyfox@carbonwyo.com	307 328-2614
15 Sarah Hutchins	Carbon County	sarahhutchins@carbonwyo.com	328-2614
16 Joe Parsons	SER Conservation District	joe.sercd@gmail.com	326-8156

Figure 6 Sign-in sheet from 2018 Flood Risk Review Meeting

CARBON COUNTY

Consultation Coordination Officer (CCO)

Meeting Notes

ATTENDEES

- Marty Mayfield, Wyoming Department of Transportation
- Sarah Hutchins, Planner, Carbon County
- Lyle Flansburg, Council Member, Medicine Bow
- Billy Zeiger, Wyoming Department of Transportation, Saratoga
- Merna Carver, Baggs Crew Leader, Wyoming Department of Transportation
- Alyssa van Norman, Public Works Director, Baggs
- Patrick Eastman, Elk Mountain
- Kristy Rowan, Deputy Zoning Administrator, Carbon County
- Amy L. Bach, City Attorney, Rawlins
- Alexandra Foster, Clerk, Baggs
- Brandee Forster, Clerk, Dixon
- Cody Garcia

Figure 7 Sign-in sheet from 2020 virtual CCO Meeting

Carbon County CCO - Sign-in Sheet					
20-Oct-22					
Thank you for joining us! By signing in, you acknowledge that your information may be used in the future for follow-up communications.					
#	First Name	Last Name	Title	Organization	Email
1	Kathy	Beck	Saratoga Town Council Member	Town of Saratoga	Kathy.Beck@ineight.com
2	Jon	Nelson	Saratoga Town Council Member	Town of Saratoga	jnelson@northforkeng.com
3	Lenny	Layman	Carbon County Emergency Manager	Carbon County	lennylayman@carbonwy.com
4	Heidi	Carlin	Floodplain Management & Insurance Specialist	FEMA	heidi.carlin@fema.dhs.gov
5	Kim	Johnson	FEMA	Wyoming OHS	kim.johnson@wyo.gov
6	Madeleine	Pluss	Region 8 Risk MAP Program MAnager	FEMA	madeleine.pluss@fema.dhs.gov
7	Susan	Szymanski	Outreach Support	Ogilvy / CERC	susan.szymanski@ogilvy.com
8	Terri	Baumann	Outreach Support	Ogilvy / CERC	terri.baumann@ogilvy.com
9	Harry	Katz	Floodplain Management & Insurance Specialist	FEMA	harry.katz@fema.dhs.gov
10	Katie	Gronsky	Outreach Support	STARR II	kgronsky@dewberry.com
11					

Figure 8 Sign-in sheet from 2022 virtual CCO meeting