

Rural Broadband in Berrien County



2322 Road Miles
568 Square Miles (Land)
86,000+ Parcels
39 Municipalities

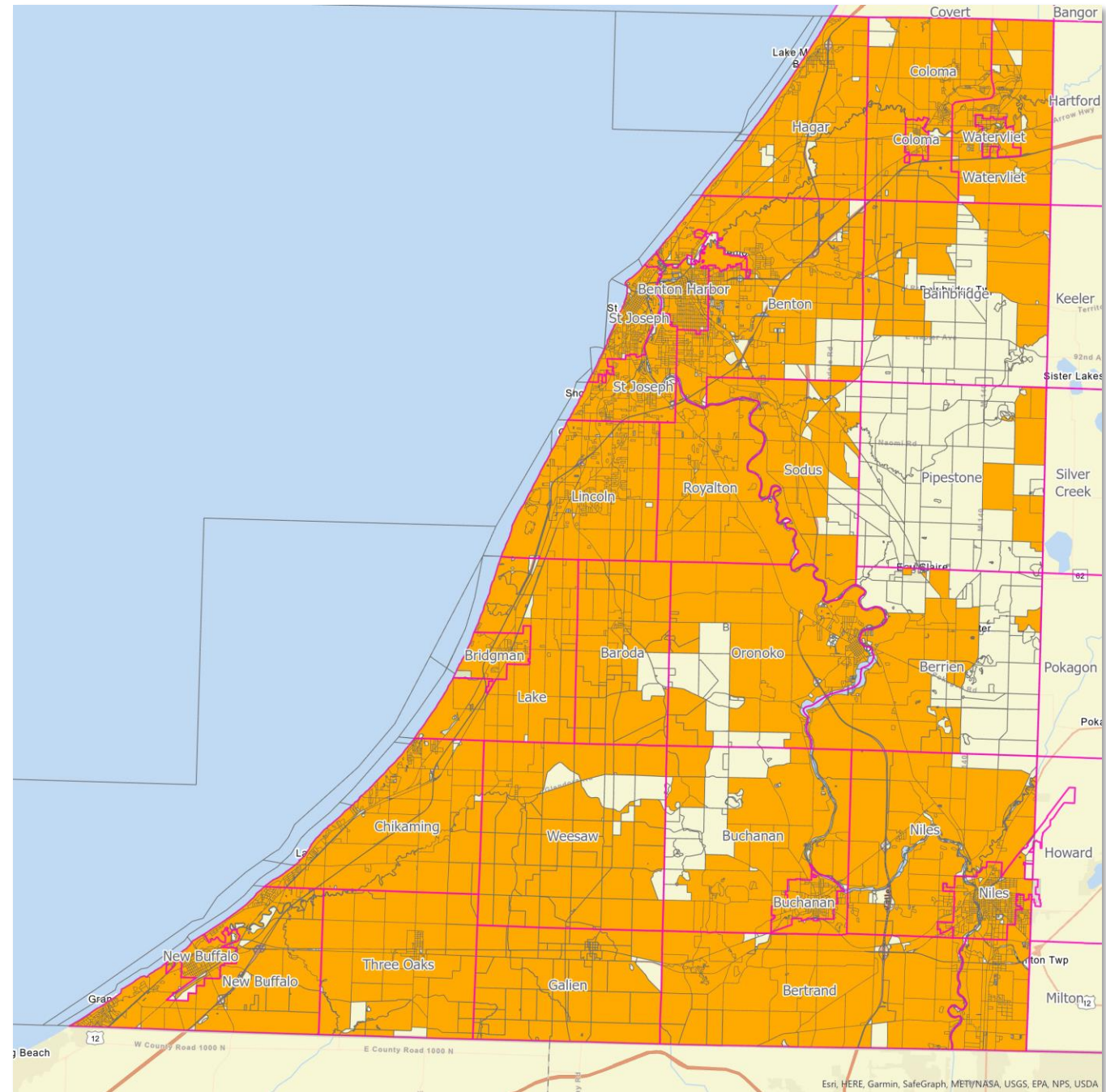
Presented by:
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FCC 2020 Report

- Orange indicates areas served with minimum 25 Mb/s download and 3 Mb/s upload speeds, considered high speed in 2020.
- Basis for federal funding, only areas in light yellow qualified



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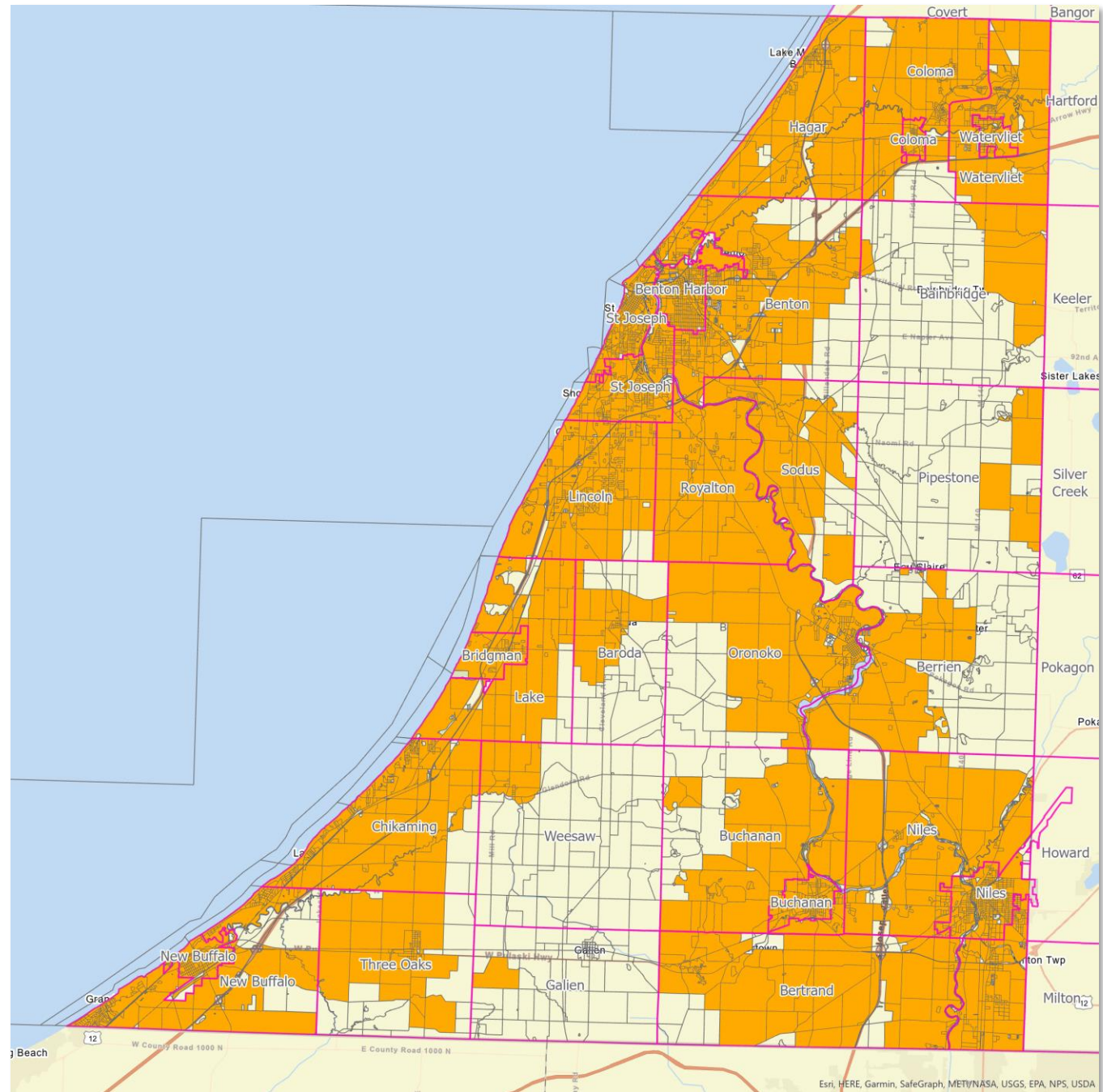


FCC 2020 Report

- Raising the minimum to 100 Mb/s download and 10 Mb/s upload to reflect current standard.
- Light yellow is still only area to qualify for funding today if based on FCC Report



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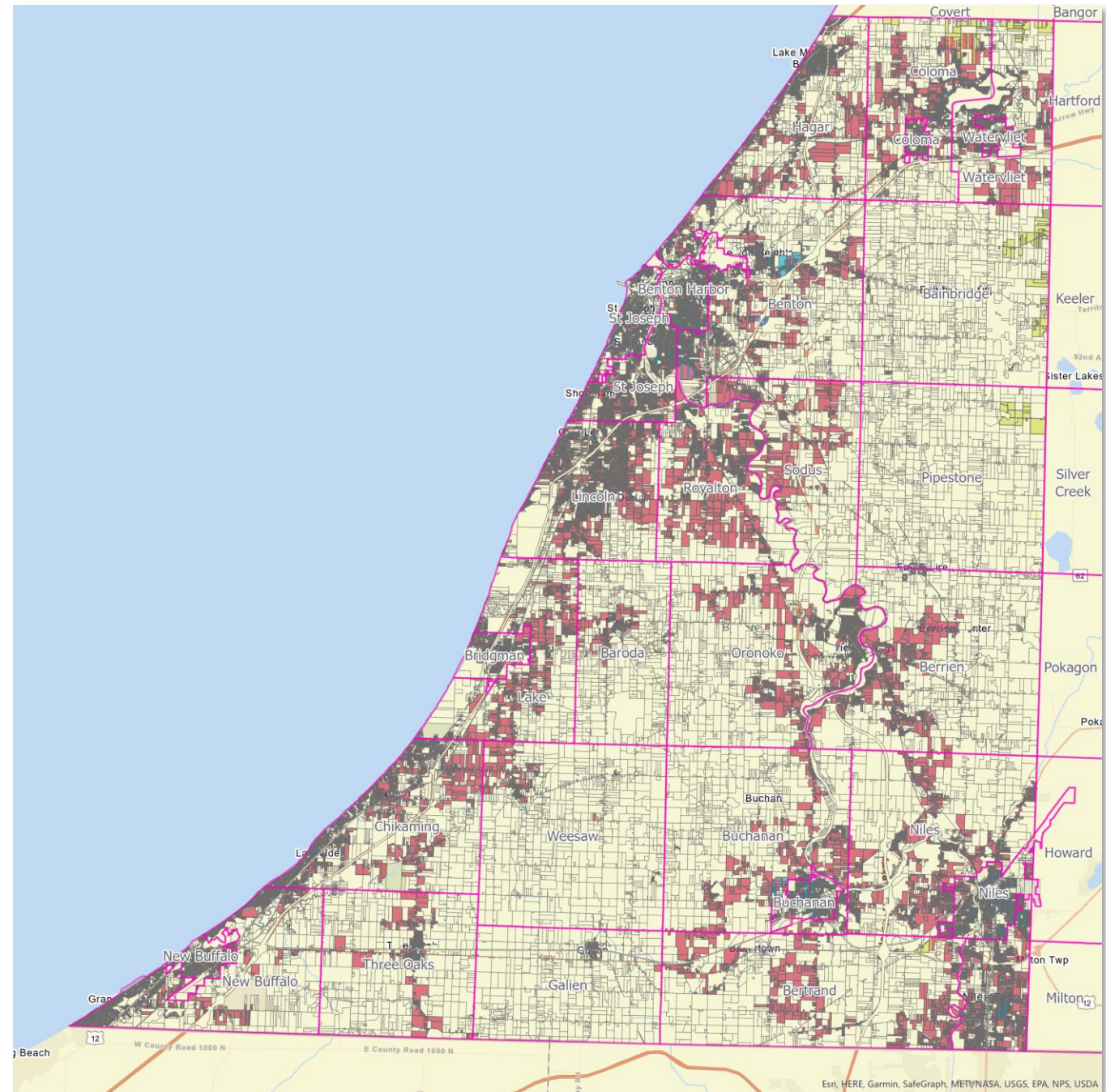


Actual Serviced Areas

- Actual coverage area that meets current standard of 100 Mb/s download and 20 Mb/s upload



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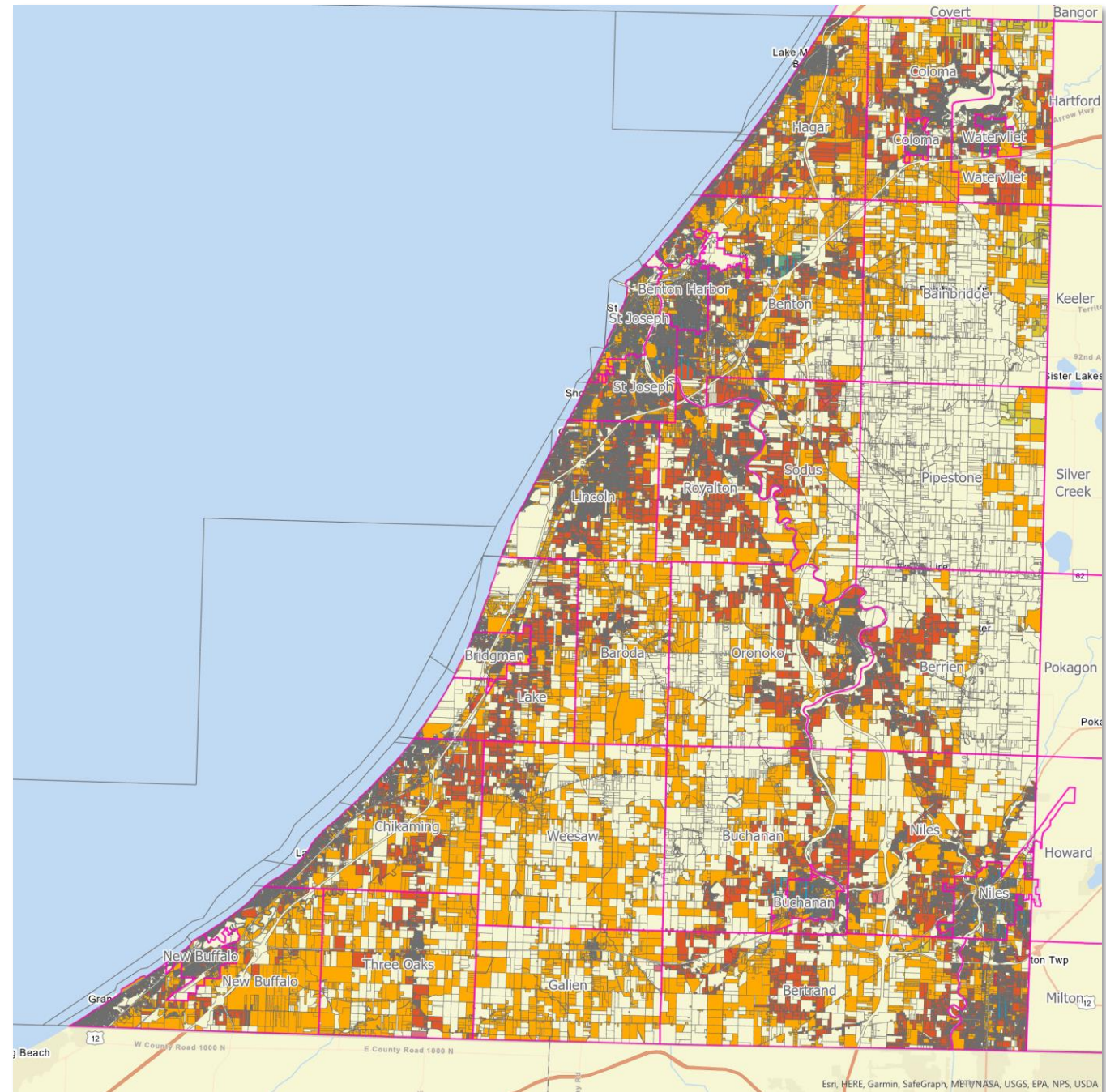


Actual Unserved

- The Orange now represents where the FCC reported coverage, by parcel, but there is none



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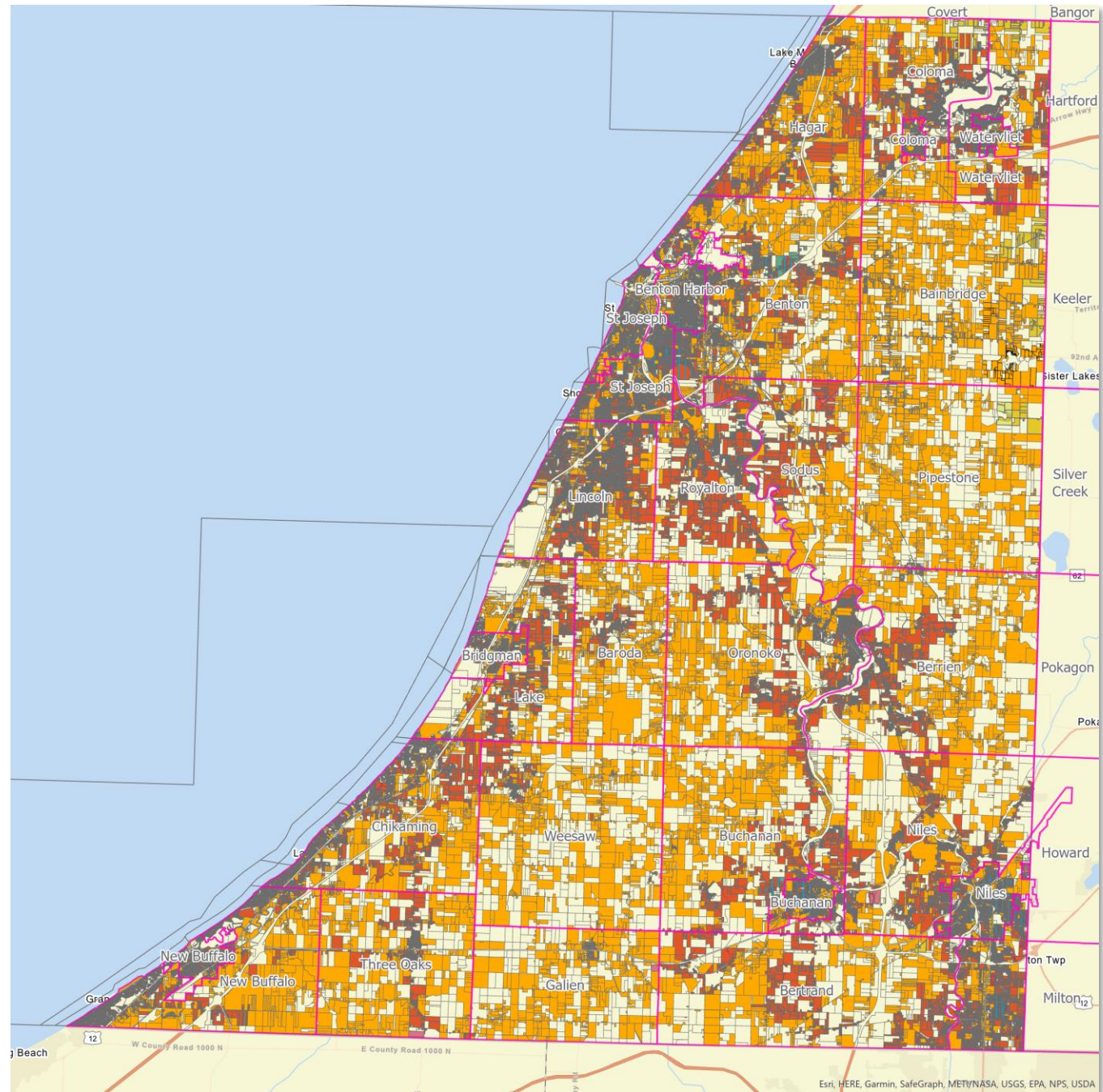


Actual Unserved

- Orange now shows FCC reported coverage, by parcel, where there is none
- Add all unserved parcels identified in 2022 study
- **11,940** addresses in Berrien County do not have access to minimum 100/20 wired Internet service (as of August 2022)
- But this number is already going down



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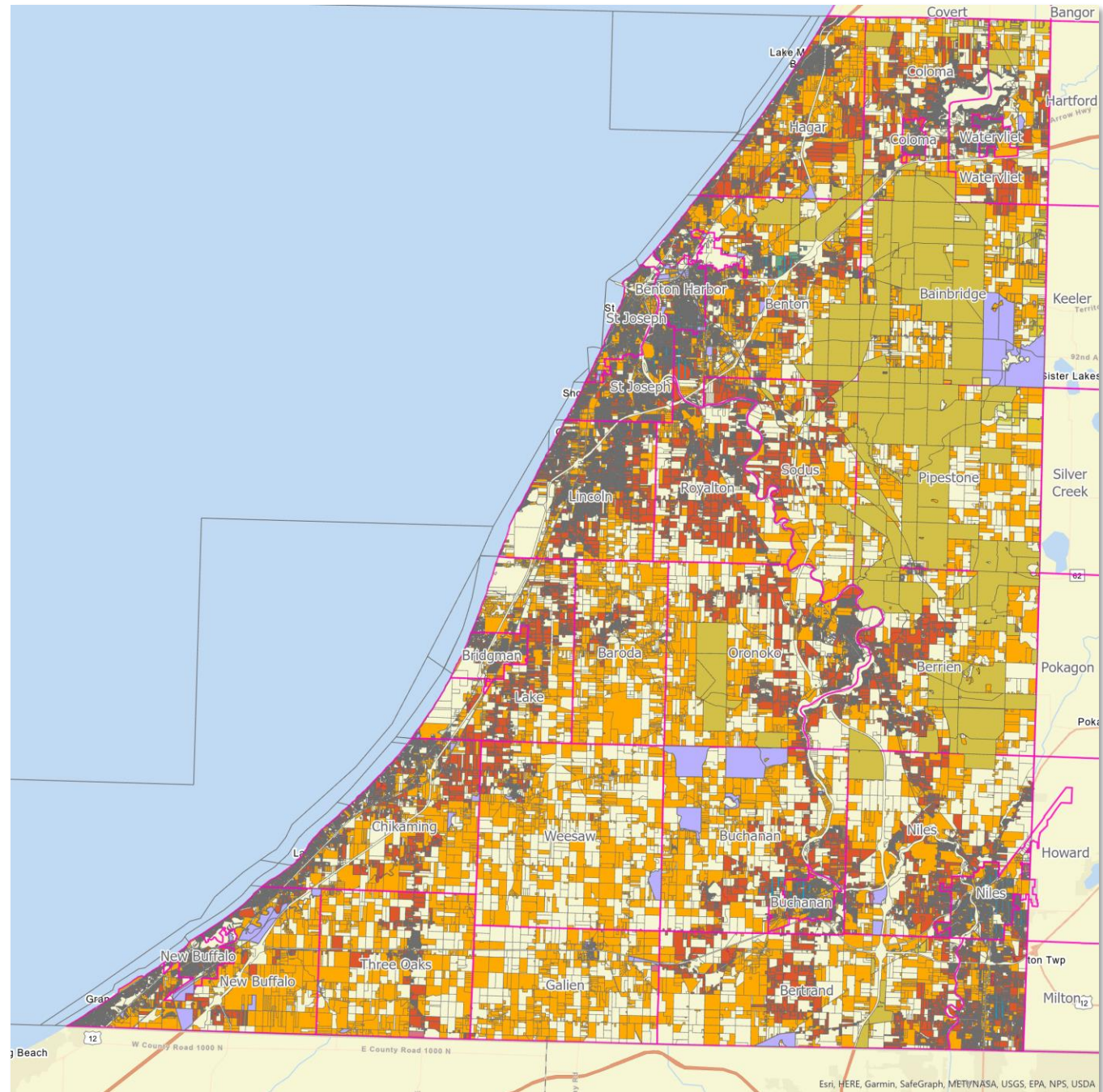


RDOF Funded Areas

- Dark yellow shows Rural Digital Opportunity Fund (RDOF) awarded area to Midwest Energy & Communications
- Purple area shows RDOF award to Mercury Wireless (only areas in Buchanan and Bainbridge are fiber)



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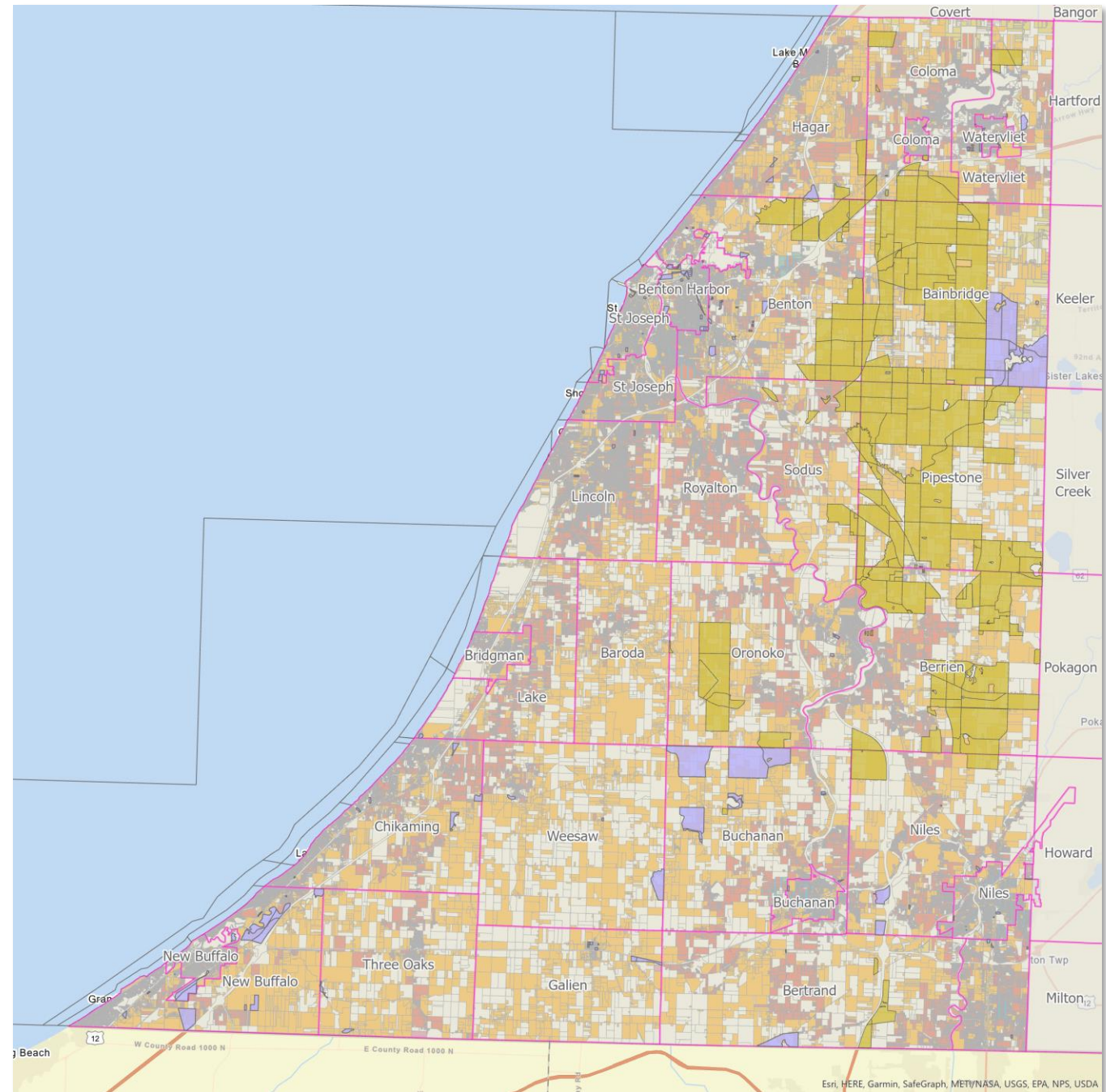


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How to read the maps





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How to Read the Maps

	Unoccupied
	Unserviced (by high-speed broadband)
	Comcast
	Midwest Energy and Communications
	AT&T Fiber

Tier of Service

	Above Baseline
	Gigabit

RDOF Provider

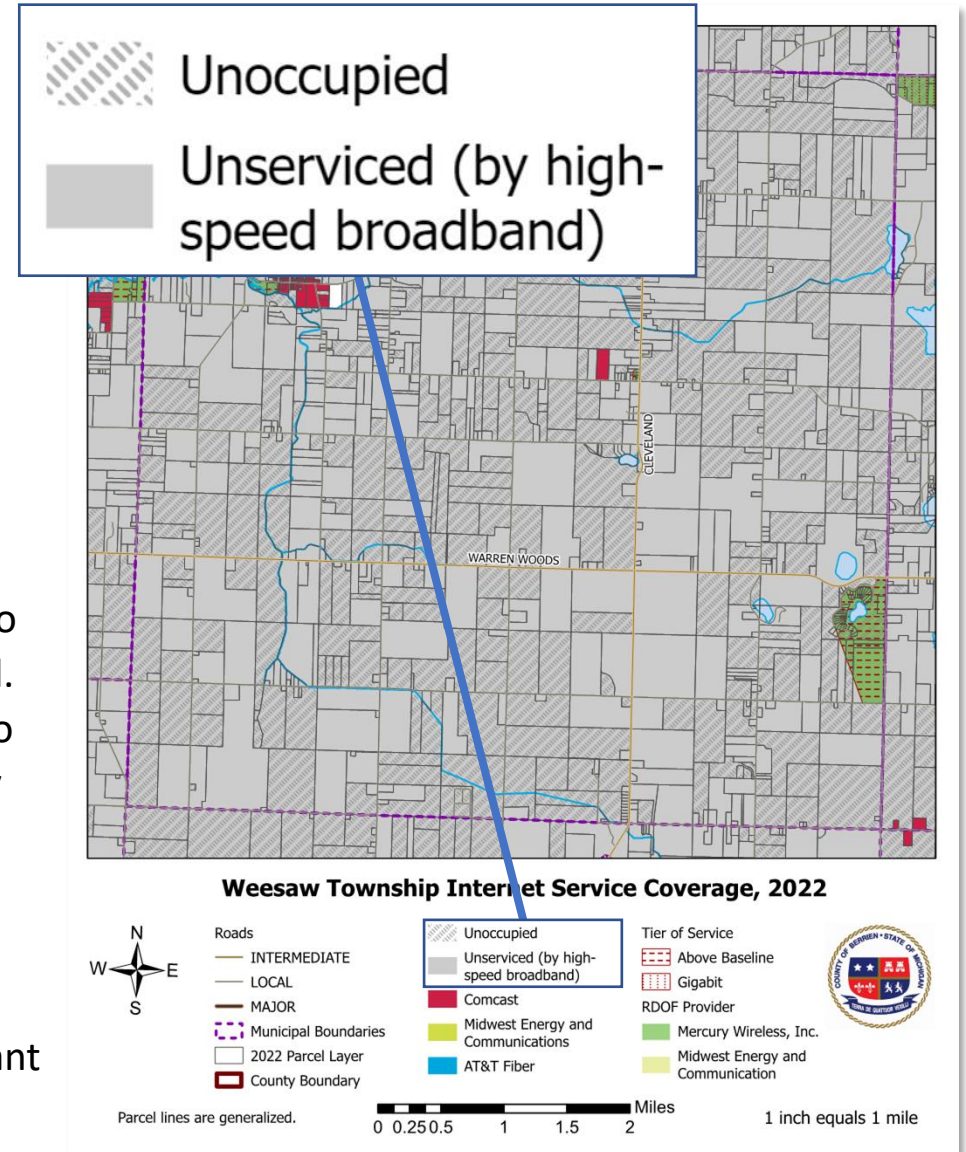
	Mercury Wireless, Inc.
	Midwest Energy and Communication



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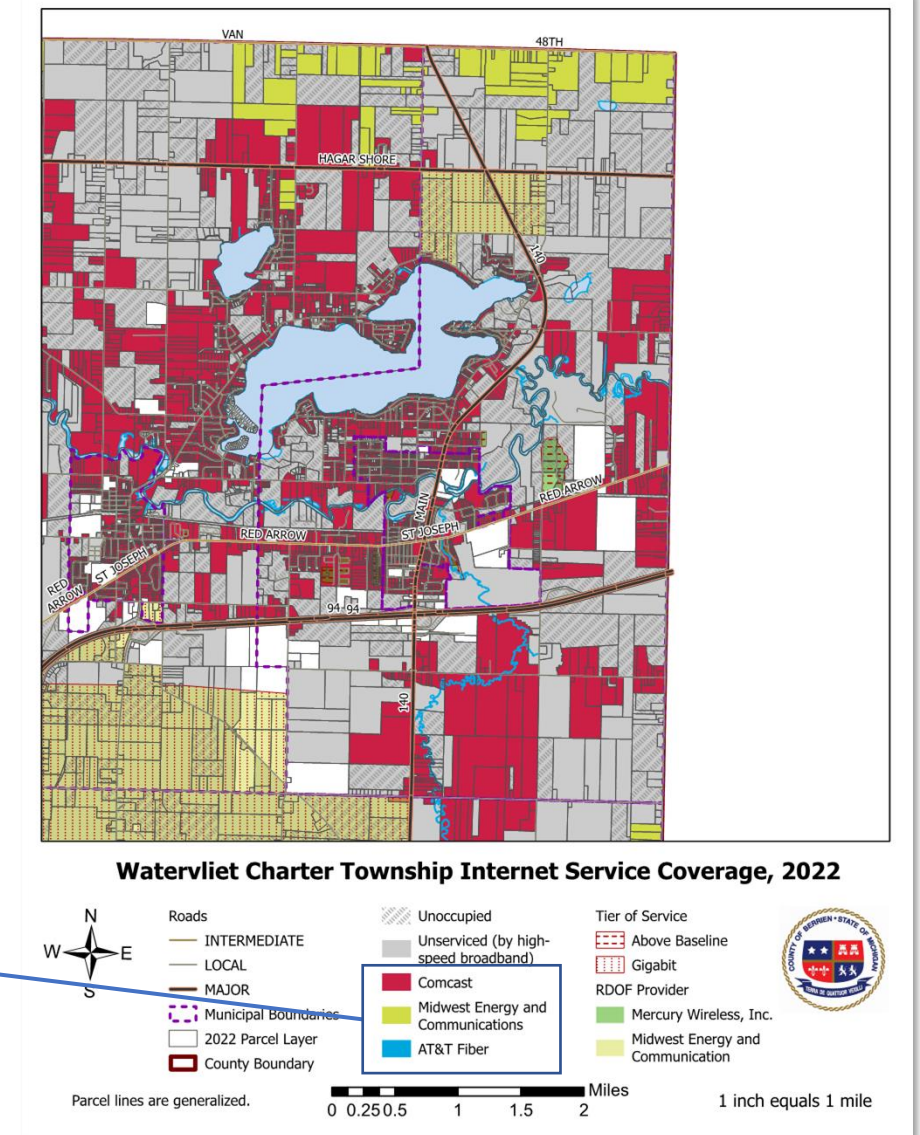
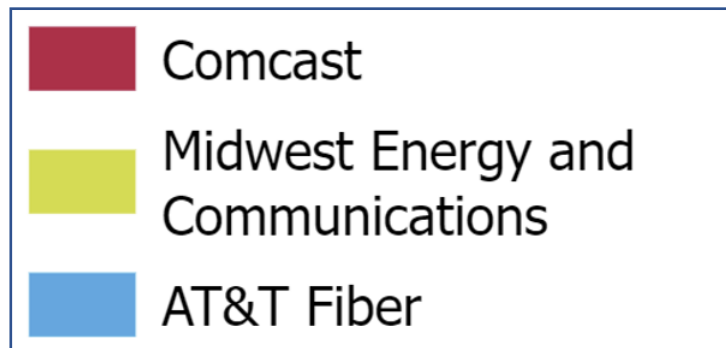
How to Read the Maps

- Unoccupied (no address) – Parcels that have no occupiable structures and no registered address and may include wooded areas (including state or federal park or preserve areas), farmland, vineyards, orchards, wetlands, and other areas that have no current requirement for Broadband Services.
- **Unservd** – Parcels that have no access to Cable or Fiber are identified as un-served. Some of these parcels may have access to DSL, or some type of wireless technology for Internet, but none of these technologies are considered high speed Broadband by current standards, and therefore considered eligible for many of the current and emerging Broadband Grant programs.



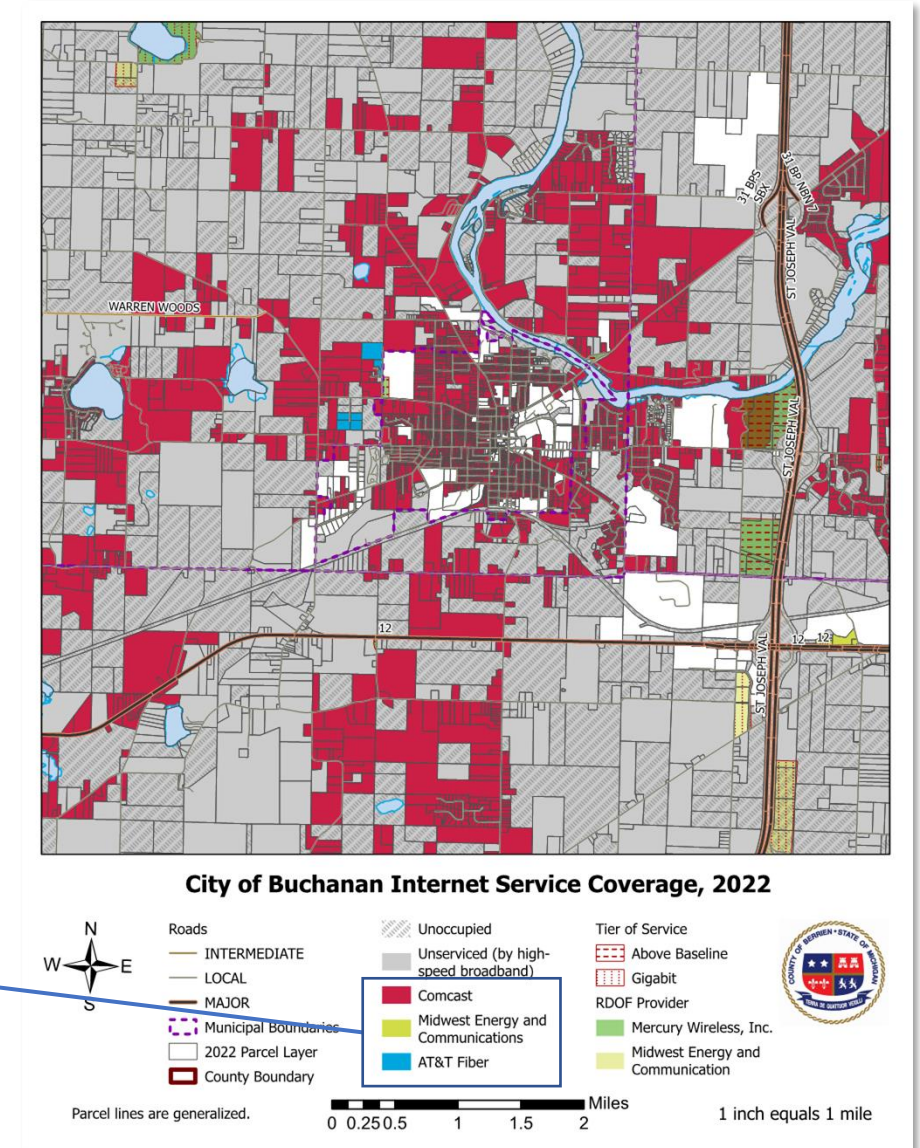
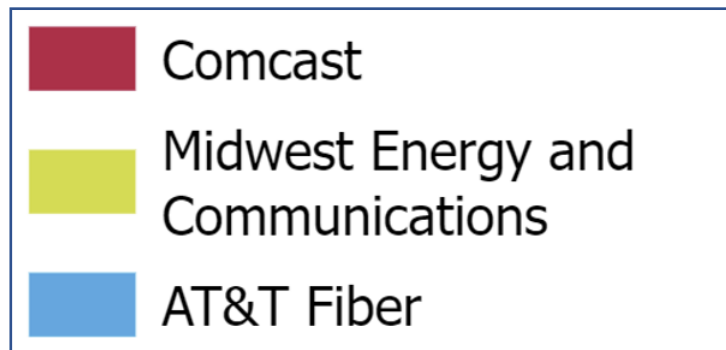
How to Read the Maps

- Service Provider – Each parcel that is serviceable by Cable or Fiber is identified by provider. In some cases, a single parcel may have two providers available, which will be identifiable with the online version



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How to Read the Maps

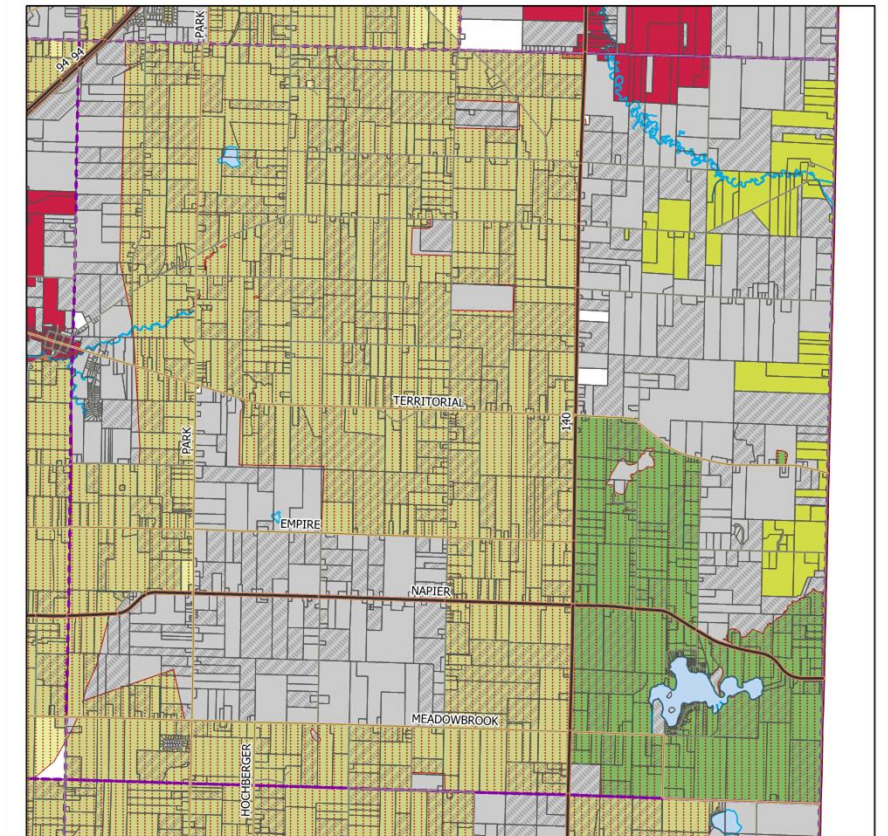
- Grant Funded Areas – Layers showing where Rural Digital Opportunity Funds (RDOF) are being applied to currently unserved areas. RDOF areas throughout the county are shown based on census blocks, and do not necessarily align with parcel level property lines.

Tier of Service

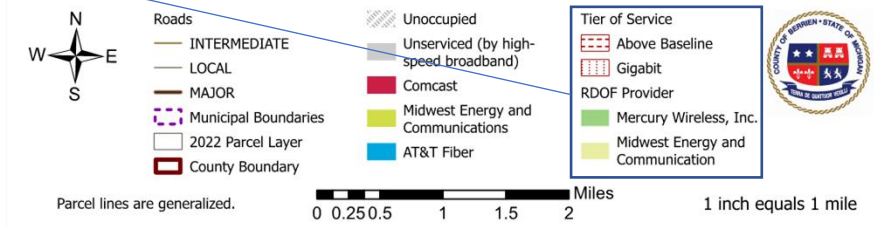
-  Above Baseline
-  Gigabit

RDOF Provider

-  Mercury Wireless, Inc.
-  Midwest Energy and Communication

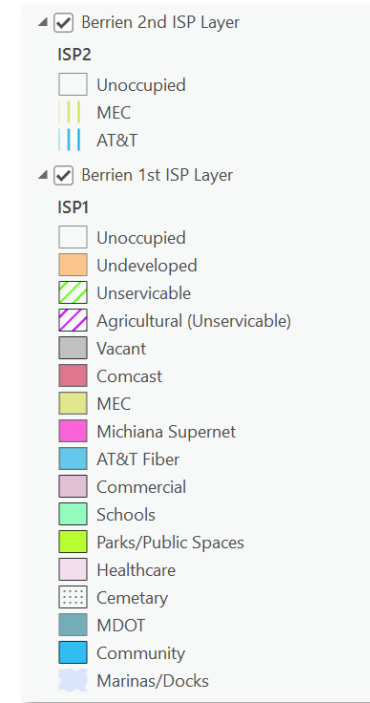


Bainbridge Township Internet Service Coverage, 2022



Going online

- Community Parcels – Township Halls, Police, Fire Departments, Libraries, and other “Community Anchor Institutions” have been separately identified for future planning purposes. Community Parcels are classified as “served” unless otherwise indicated on the maps as a “Unserviceable.”
- Schools – All schools are considered serviceable but have been identified separately so that this tool may be used for future educational network planning.
- Parks/Public Spaces – Identified separately and are classified as “serviceable” but may require special consideration if having service to them is a requirement.
- Commercial/Industrial/Healthcare – Industrial Parks, Commercial Districts, Hospital campuses, and other large businesses are classified separately since they will typically have multiple commercial options for Internet and Business Networking requirements. Commercial parcels are considered served, but not specified by service provider.



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	Bainbridge	Baroda	Benton Twp	Benton Harbor	Berrien Center	Bertrand	Buchanan Twp	City of Buchanan	Chikaming	Coloma Twp	City of Coloma	Gallen	Hagar	Lake Twp	City of Bridgman	Lincoln	New Buffalo	City of New Buffalo	Niles Twp	City of Niles	Oronoko	Pipestone	Royalton	Sodus	St Joseph	St Joseph City	Three Oaks	Watervliet Twp	City of Watervliet	Weesaw	Totals
Unoccupied	371	278	690	305	509	311	556	35	821	593	63	242	205	393	172	333	639	101	470	335	507	369	360	241	110	126	211	491	92	397	13338
Unservicable	1306	564	618	18	1051	460	593	8	482	396	2	799	553	509	11	204	331	10	367	11	532	931	79	272	32	80	451	142	0	727	11539
Comcast	15	457	4669	3367	1026	849	1011	1813	2878	1858	667	3	2557	888	976	5289	2720	1283	4977	4477	2393	0	1944	606	4277	3324	979	1373	783	305	57764
MEC Fiber	69	0	0	0	0	12	0	0	0	28	0	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	38	0	0	165
AT&T Fiber	0	0	37	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	71	0	0	0	0	121
Commercial	5	25	496	187	6	18	7	106	83	28	16	14	54	45	57	182	117	142	273	255	20	1	56	32	155	296	32	23	4	4	2739
Schools	2	1	17	28	3	1	1	10	2	2	4	1	1	1	2	11	3	16	8	11	76	0	5	3	11	5	2	0	4	0	231
Parks/Public Spaces	1	3	15	16	1	1	0	22	13	2	2	0	11	1	0	6	4	1	7	33	0	0	0	0	8	50	9	0	3	0	209
Community Healthcare	0	5	3	2	0	0	2	10	3	0	0	0	0	4	2	8	3	5	3	11	3	0	2	0	5	8	3	0	0	1	83
	0	0	3	0	1	0	0	0	0	0	0	0	0	0	2	2	0	0	1	12	0	11	0	0	1	0	0	0	2	0	35
MEC RDOF Parcels	656	0	318	0	421	6	0	0	0	107	0	0	23	0	0	0	0	0	14	0	97	643	0	73	0	0	0	14	0	0	2372
Mercury RDOF Parcels	219	0	0	0	0	0	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	309
Total Parcels	1775	1333	7539	4889	2601	1656	2226	2037	4322	2910	755	1060	3717	1847	1224	6073	4014	1656	6183	5169	3561	1324	2461	1275	4684	4003	1693	2068	890	1437	86382
Undeveloped/Unoccupied	371	278	1646	1270	509	314	605	67	856	596	63	242	536	396	173	369	827	192	544	358	508	369	363	341	183	164	216	491	93	398	13338
Total Occupied Parcels	1404	1055	5893	3619	2092	1342	1621	1970	3466	2314	692	818	3181	1451	1051	5704	3187	1464	5639	4811	3053	955	2098	934	4501	3839	1477	1577	797	1039	73044
Unserved (including Ag)	1306	564	618	18	1051	460	593	8	482	396	2	799	553	509	11	204	331	10	367	11	532	931	79	272	32	80	451	142	0	727	11539
Served Parcels	84	457	4706	3367	1026	861	1018	1813	2878	1886	667	3	2557	888	976	5289	2720	1283	4977	4477	2393	18	1944	606	4283	3395	979	1411	783	305	58050
Grant Funded (approximate)	875	0	318	0	421	6	90	0	0	107	0	0	23	0	0	0	0	0	14	0	97	643	0	73	0	0	0	14	0	0	2681
Remaining unserved parcels (Gaps)	431	564	300	18	630	454	503	8	482	289	2	799	530	509	11	204	331	10	353	11	435	288	79	199	32	80	451	128	0	727	8858
Minimum Cost to fill all Gaps	\$2,155,000	\$2,820,000	\$1,800,000	\$144,000	\$3,150,000	\$2,724,000	\$3,018,000	\$64,000	\$2,892,000	\$1,589,500	\$16,000	\$3,995,000	\$2,915,000	\$3,054,000	\$88,000	\$1,020,000	\$2,151,500	\$80,000	\$2,118,000	\$88,000	\$1,740,000	\$1,440,000	\$632,000	\$995,000	\$192,000	\$640,000	\$2,706,000	\$704,000	\$0	\$3,635,000	\$48,566,000
Maximum Cost to fill all Gaps	\$3,448,000	\$5,640,000	\$3,300,000	\$216,000	\$6,300,000	\$4,994,000	\$5,533,000	\$96,000	\$5,302,000	\$3,034,500	\$25,000	\$7,990,000	\$5,830,000	\$6,108,000	\$121,000	\$2,040,000	\$3,972,000	\$110,000	\$4,236,000	\$121,000	\$3,697,500	\$2,592,000	\$948,000	\$1,990,000	\$320,000	\$880,000	\$4,510,000	\$1,216,000	\$0	\$7,633,500	\$84,570,000

By Township and City – Villages are included in the Township counts

The Numbers

- Total Parcels – 86,382
- Total Unoccupied or undeveloped – 13,338
- Total Occupied – 73,044
- Total Unservicable – 11,539 (Summer of 2022)
- Total Planned under RDOF – 2,681
- Total Parcels currently not planned for – 8,858



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Total Funding Required to fill all Gaps

\$48,566,000 - \$84,570,000

Questions?

Thank You



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