



May 21, 2019

By Electronic Filing

Jose P. Albuquerque
Chief, Satellite Division, International Bureau
Federal Communications Commission
445 12th St., SW
Washington, D.C. 20554

Re: HNS Licensee Sub, LLC
IBFS File Nos. SES-LIC-2017080700876 through SES-LIC-20170807-00895
Call Signs: E170151 through E170170

Dear Mr. Albuquerque:

HNS License Sub, LLC (“HNS”) hereby responds to your letter, dated April 1, 2019 (“Letter”),¹ requesting additional information on the above-referenced applications to operate 20 new gateway earth stations that will communicate with the HNS 95W satellite system.

Specifically, in response to Request #1 of the Letter, HNS supplements its Section 25.136 analysis for each earth station by providing the requested information in Attachment A, as set forth in a table (for each relevant frequency band at 27.5-28.35 GHz and 47.2-48.2 GHz) containing a list of the U.S. census block ID numbers within each county that are covered entirely or partially by the -77.6 dBm/m²/MHz PFD contour for the 27.5-28.35 GHz band and the 47.2-48.2 GHz band. Further, the relevant census blocks are illustrated by overlaying the PFD contour or protection zone on a map of census block boundaries. For each census block ID, the tables provide the following information: 1) the total population of the census block; 2) the percentage of the census block area that the PFD contour or protection zone covers; and 3) the total calculated population of the census block that is affected (using the actual area method).² The tables also provide estimates (based upon the foregoing information) of the total population per county covered by the PFD contour or protection zone, thus verifying that the population requirements of Section § 25.136 are met.

Additionally, with respect to the applications referenced in Request #2 for nine new gateways that will be collocated with previously authorized earth stations in the 27.5-28.35 GHz band,³ the calculated

¹ See Letter from Jose P. Albuquerque, FCC, to Jennifer A. Manner, HNS, IBFS File Nos. SES-LIC-20170807-00876 through SES-LIC-20170807-00895 (Apr. 1, 2019). On May 1, the Commission granted HNS’ request for an extension of time, until May 22, to respond to the Letter. See Letter from Jennifer A. Manner, HNS, to Jose Albuquerque, FCC, IBFS File Nos. SES-LIC-20170807-00876 through SES-LIC-20170807-00895 (granted May 1, 2019).

² See Public Notice, *International Bureau Seeks Comment on Implementing Earth Station Siting Methodologies*, IB Docket 17-172 (June 21, 2017), at n.11 (“Under the “actual area method,” the fraction of the population within the census geographic area corresponding to ratio of the census geographic area lying within the PFD contour to the total area of the census geographic area would be counted.”).

³ File numbers SES-LIC-20170807-00877 (Santa Clara CA, *infra* at A-22-23), SES-LIC-20170807-00879 (North Las Vegas NV, p.A-5), SES-LIC-20170807-00880 (Boise ID, p.A-3), SES-LIC-20170807-00883 (Billings MT, pp.A-7-8), SES-LIC-20170807-00889 (Cheyenne WY, p.A-11), SES-LIC-20170807-00890 (Lindon UT, p.A-14),



aggregate $-77.6 \text{ dBm/m}^2/\text{MHz}$ contours, accounting for the Section 25.209 contours of the previously authorized earth stations and the manufacturer's specification for the new gateway earth stations, are shown in orange. The similar contours attributable to the previously authorized earth stations are shown in purple, and the differences in area between the aggregate contour and the contours associated with the previously authorized earth stations are highlighted in yellow shading.

Pursuant to Request #2, for each of the nine applications for gateways collocated with previously authorized earth stations, the table set forth in Attachment A provides the same information requested in Request #1, except that population calculation is limited to the yellow highlighted area outside the contours of the previously authorized earth station. In all cases, the population coverage requirements of Section 25.136 are met.

Please contact us if you have any questions or need any further information.

Sincerely,

/s/ Jennifer A. Manner

Jennifer A. Manner

Senior Vice President, Regulatory Affairs

+1 301 428-5893

/s/ Brennan T. Price

Brennan T. Price

Senior Principal Engineer, Regulatory Affairs

+1 301 428-1654

HNS License Sub, LLC
11717 Exploration Lane
Germantown, MD 20876

Attachment

cc: Karl Kensinger
Kerry Murray
Stephen Duall
Kathryn Medley
Paul Blais

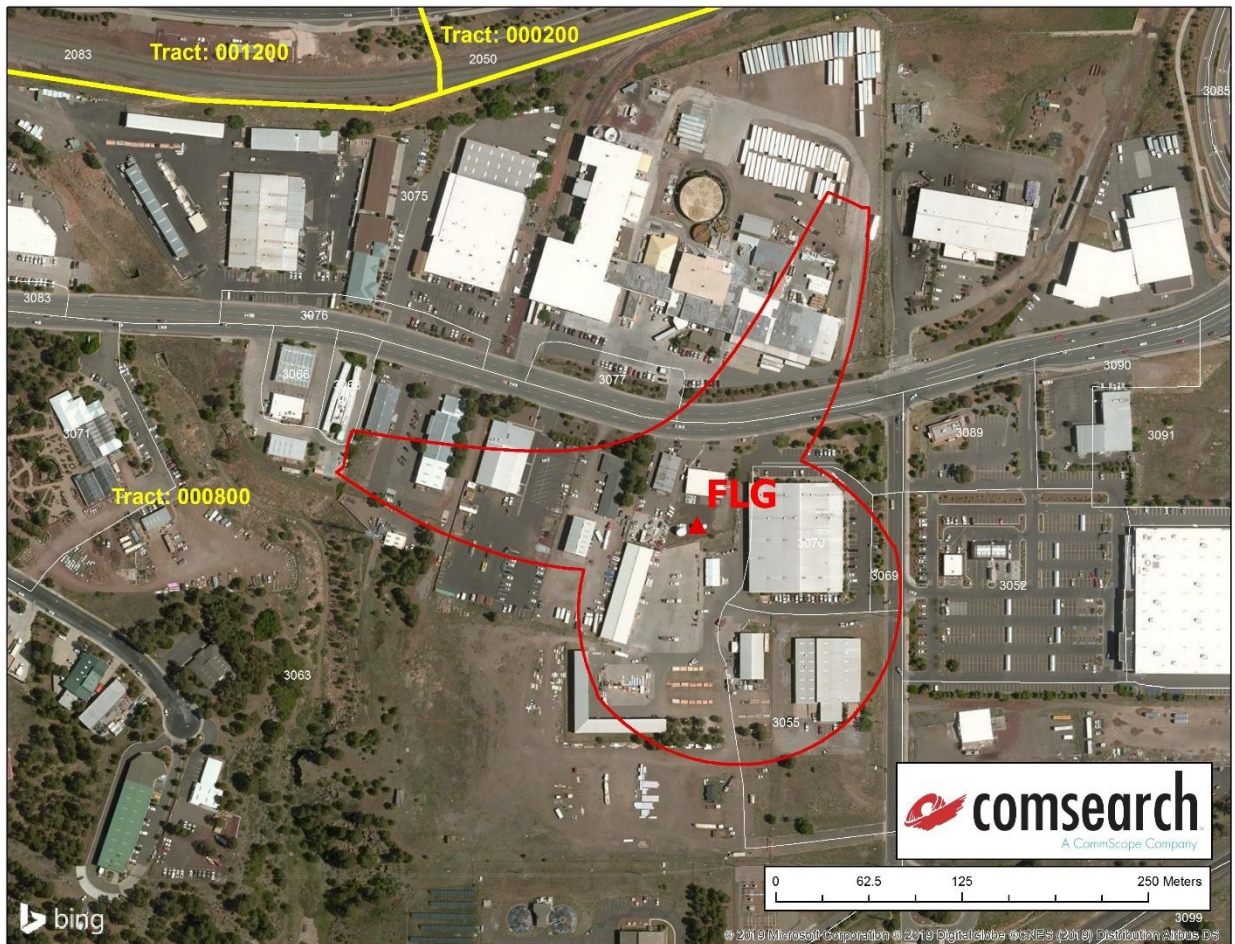
ATTACHMENT A

1. Flagstaff, AZ—28 GHz (File No. SES-LIC-20170807-00881; Call Sign E170156)

Coconino County population: 135,817

Permitted population within contour: 450

County	State	Census Tract	Census Block	Block Pop	Area Percent	Pop Weighted
Coconino	AZ	000800	3069	0	59.74%	0.00
Coconino	AZ	000800	3068	0	0.67%	0.00
Coconino	AZ	000800	3075	2	2.95%	0.06
Coconino	AZ	000800	3070	0	95.90%	0.00
Coconino	AZ	000800	3055	0	53.06%	0.00
Coconino	AZ	000800	3063	25	6.58%	1.64
Coconino	AZ	000800	3077	0	0.52%	0.00
Total						1.70



2. Boise, ID—28 GHz (File No. SES-LIC-20170807-00880; Call Sign E170155)

Ada County population: 409,239

Permitted population within contour: 450

County	State	Census Tract	Census Block	Block Pop	Shaded Area Percent	Pop Weighted
Ada	ID	002313	1011	795	0.13%	1.04
Ada	ID	002310	2037	0	0.00%	0.00
Ada	ID	002313	1033	0	0.27%	0.00
Ada	ID	002310	2038	0	0.26%	0.00
Ada	ID	002313	1034	0	2.33%	0.00
Ada	ID	002310	2039	0	0.43%	0.00
Total						1.04

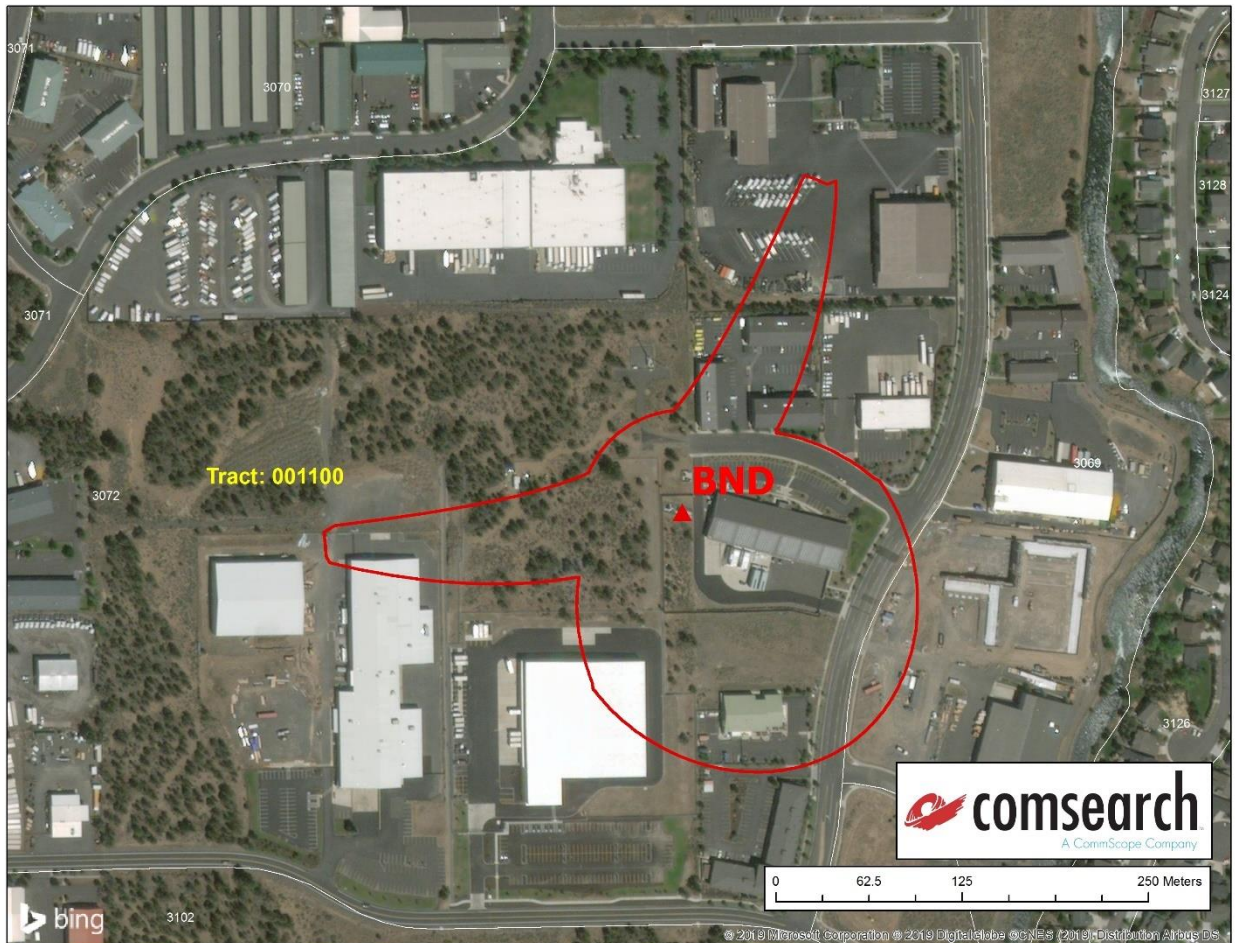


3. Bend, OR—28 GHz (File No. SES-LIC-20170807-00876; Call Sign E170151)

Deschutes County population: 163,141

Permitted population within contour: 450

County	State	Census Tract	Census Block	Block Pop	Area Percent	Pop Weighted
Deschutes	OR	001100	3072	0	17.33%	0.00
Deschutes	OR	001100	3069	59	0.82%	0.48
Total						0.48



4. North Las Vegas, NV—28 GHz (File No. SES-LIC-20170807-00879; Call Sign E170154)

Clark County population: 2,003,613

Permitted population within contour: 2003

County	State	Census Tract	Census Block	Block Pop	Shaded Area Percent	Pop Weighted
Clark	NV	003626	1036	0	0.65%	0.00
Clark	NV	003615	2005	0	0.05%	0.00
Clark	NV	003626	1037	0	0.27%	0.00
Clark	NV	003615	2004	0	0.03%	0.00
Clark	NV	003615	2001	852	0.00%	0.00
Clark	NV	003615	2006	0	0.94%	0.00
Total						0.00

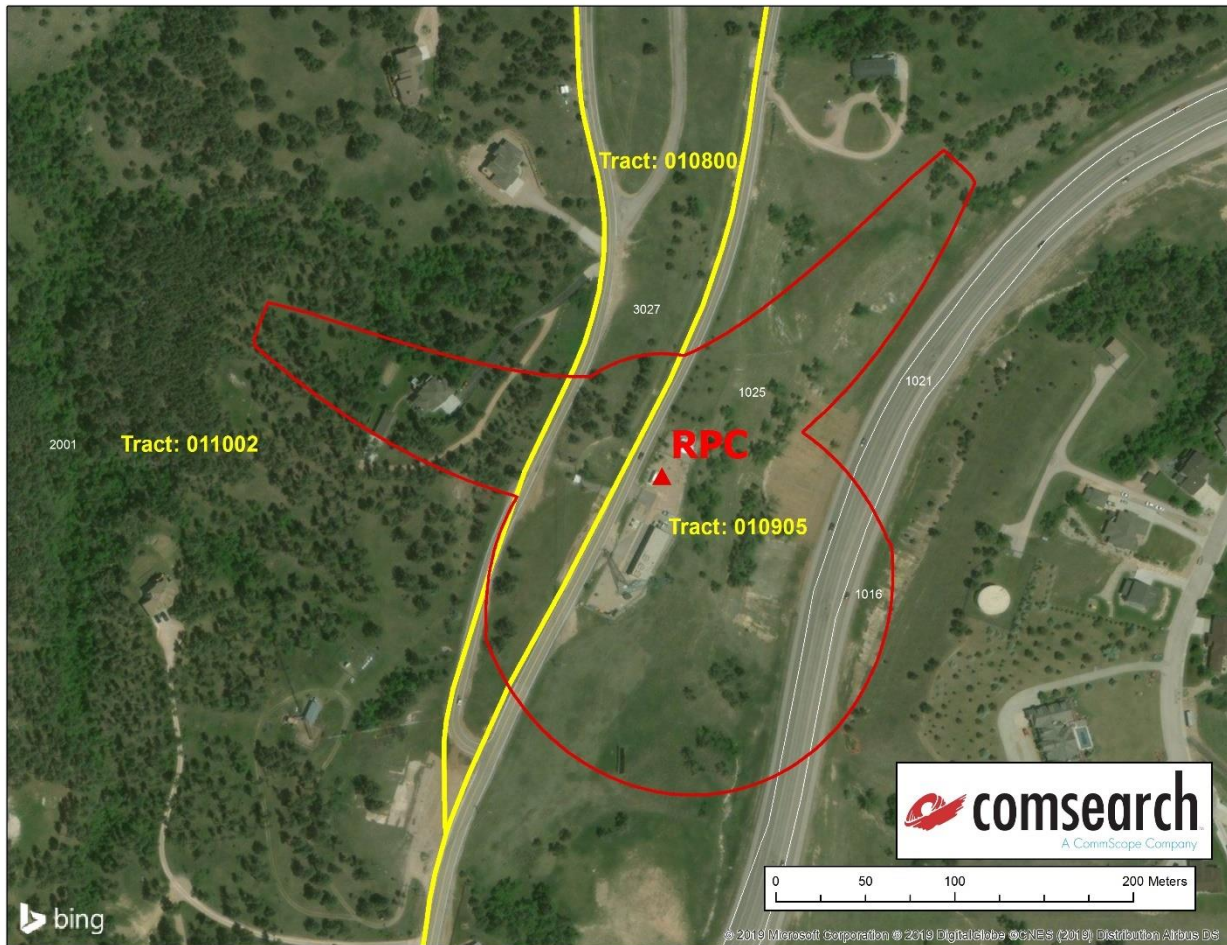


5. Rapid City, SD—28 GHz (File No. SES-LIC-20170807-00882; Call Sign E170157)

Pennington County population: 104,574

Permitted population within contour: 450

County	State	Census Tract	Census Block	Block Pop	Area Percent	Pop Weighted
Pennington	SD	011002	2001	1089	0.38%	4.19
Pennington	SD	010905	1025	15	6.35%	0.95
Pennington	SD	010800	3027	16	2.80%	0.45
Pennington	SD	010905	1021	0	5.93%	0.00
Pennington	SD	010905	1016	726	0.10%	0.75
Total						6.34



6. Billings, MT—28 GHz (File No. SES-LIC-20170807-00883; Call Sign E170158)

Yellowstone County population: 151,965

Permitted population within contour: 450

(Table on this page; map on next page)

County	State	Census Tract	Census Block	Block Pop	Shaded Area Percent	Pop Weighted
Yellowstone	MT	001000	3007	25	0.93%	0.23
Yellowstone	MT	001000	3006	26	0.64%	0.17
Yellowstone	MT	001000	4020	9	1.96%	0.18
Yellowstone	MT	001000	3010	29	0.49%	0.14
Yellowstone	MT	001000	4013	37	0.02%	0.01
Yellowstone	MT	001000	2010	70	1.27%	0.89
Yellowstone	MT	001000	4015	21	0.08%	0.02
Yellowstone	MT	001000	2007	18	0.01%	0.00
Yellowstone	MT	001000	2006	0	0.14%	0.00
Yellowstone	MT	001000	3000	204	0.48%	0.98
Yellowstone	MT	001000	2005	103	0.00%	0.00
Yellowstone	MT	001000	2020	113	0.61%	0.68
Yellowstone	MT	001000	4000	88	0.02%	0.02
Yellowstone	MT	001000	2003	28	3.69%	1.03
Yellowstone	MT	001000	2011	53	0.00%	0.00
Yellowstone	MT	001000	3001	6	4.65%	0.28
Yellowstone	MT	001000	4014	31	0.01%	0.00
Yellowstone	MT	001000	4021	24	0.00%	0.00
Yellowstone	MT	001000	4001	59	0.01%	0.01
Yellowstone	MT	001000	2018	251	0.85%	2.12
Yellowstone	MT	001000	2004	23	0.00%	0.00
Yellowstone	MT	001000	2012	19	0.03%	0.00
Yellowstone	MT	001000	1024	50	0.08%	0.04
Yellowstone	MT	001000	1023	56	0.38%	0.21
					Total	7.02

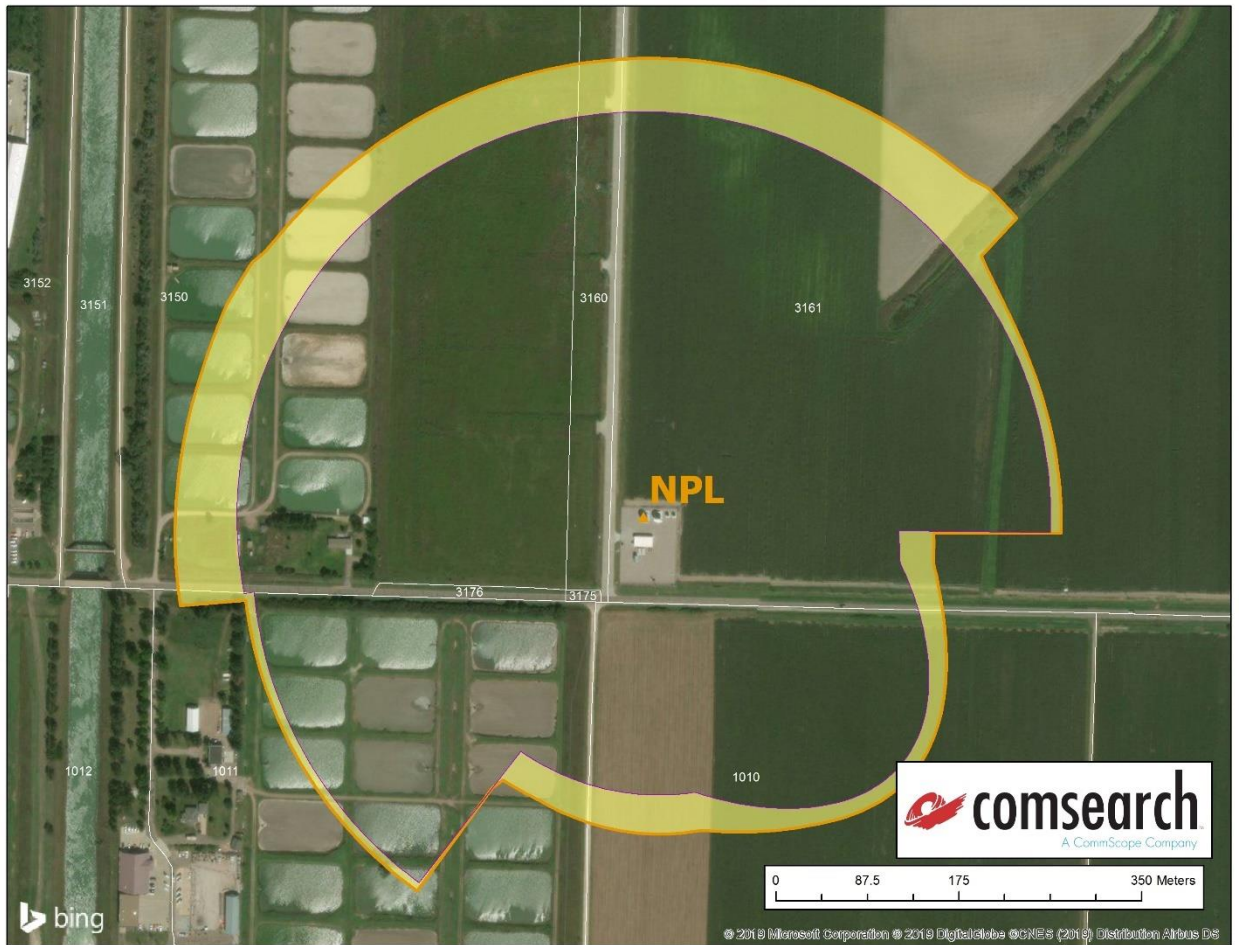


7. North Platte, NE—28 GHz (File No. SES-LIC-20170807-00883; Call Sign E170158)

Lincoln County population: 36,054

Permitted population within contour: 450

County	State	Census Tract	Census Block	Block Pop	Area Percent	Pop Weighted
Lincoln	NE	960500	3161	0	2.13%	0.00
Lincoln	NE	960600	1010	0	4.61%	0.00
Lincoln	NE	960500	3150	2	10.60%	0.21
Lincoln	NE	960500	3175	0	0.00%	0.00
Lincoln	NE	960500	3160	0	7.37%	0.00
Lincoln	NE	960500	3176	0	0.00%	0.00
Lincoln	NE	960600	1011	0	3.62%	0.00
Total						0.21

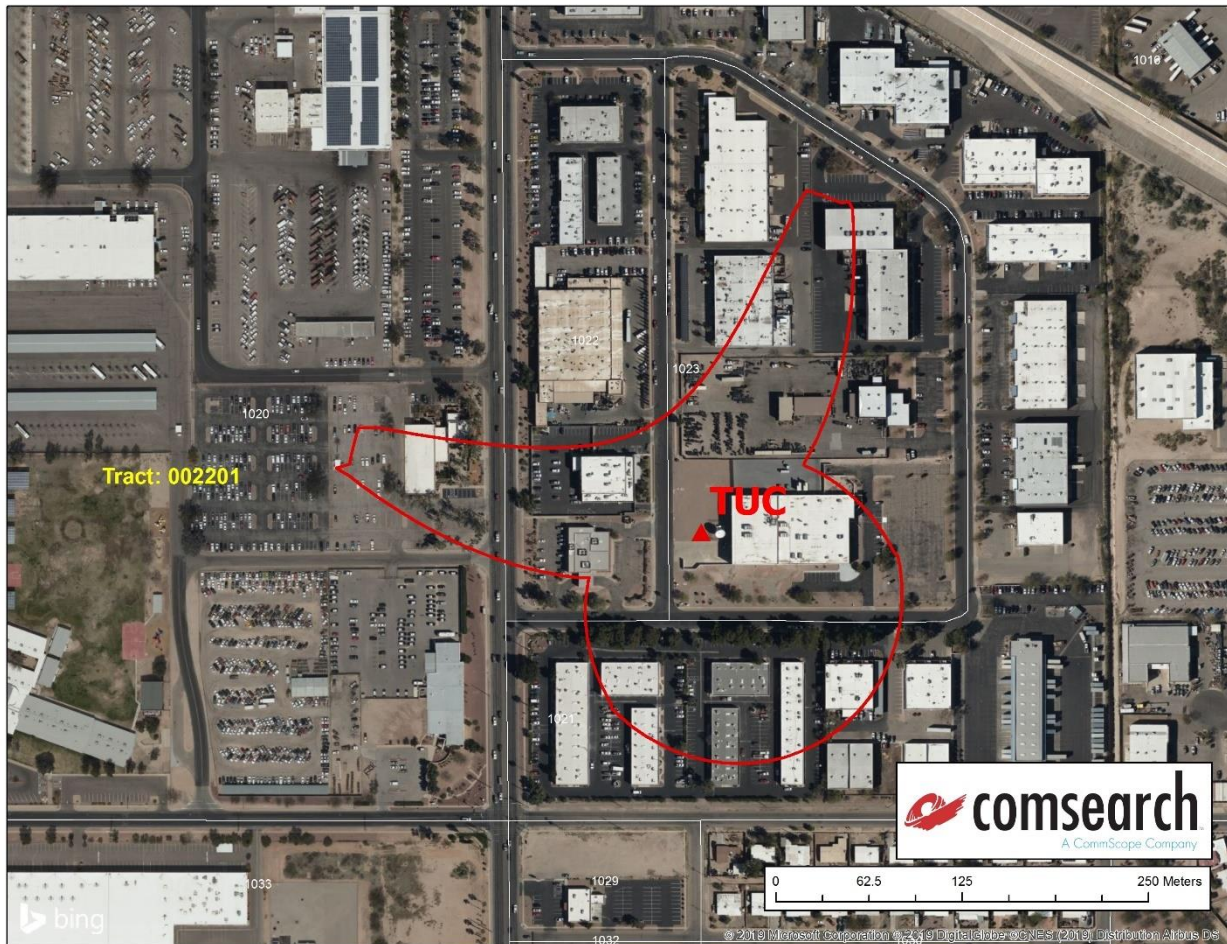


8. Tucson, AZ—28 GHz (File No. SES-LIC-20170807-00887; Call Sign E170162)

Pima County population: 993,144

Permitted population within contour: 993

County	State	Census Tract	Census Block	Block Pop	Area Percent	Pop Weighted
Pima	AZ	002201	1022	0	27.77%	0.00
Pima	AZ	002201	1020	0	1.60%	0.00
Pima	AZ	002201	1021	15	4.75%	0.71
Pima	AZ	002201	1023	0	41.90%	0.00
Total						0.71



9. Cheyenne, WY—28 GHz (File No. SES-LIC-20170807-00889; Call Sign E170164)

Laramie County population: 94,412

Permitted population within contour: 450

County	State	Census Tract	Census Block	Block Pop	Area Percent	Pop Weighted
Laramie	WY	002000	1135	0	1.25%	0.00
Laramie	WY	002000	1134	0	0.08%	0.00
Laramie	WY	002000	1131	0	2.78%	0.00
Laramie	WY	000501	1004	2	0.25%	0.01
Laramie	WY	000501	1143	0	1.12%	0.00
Total						0.01

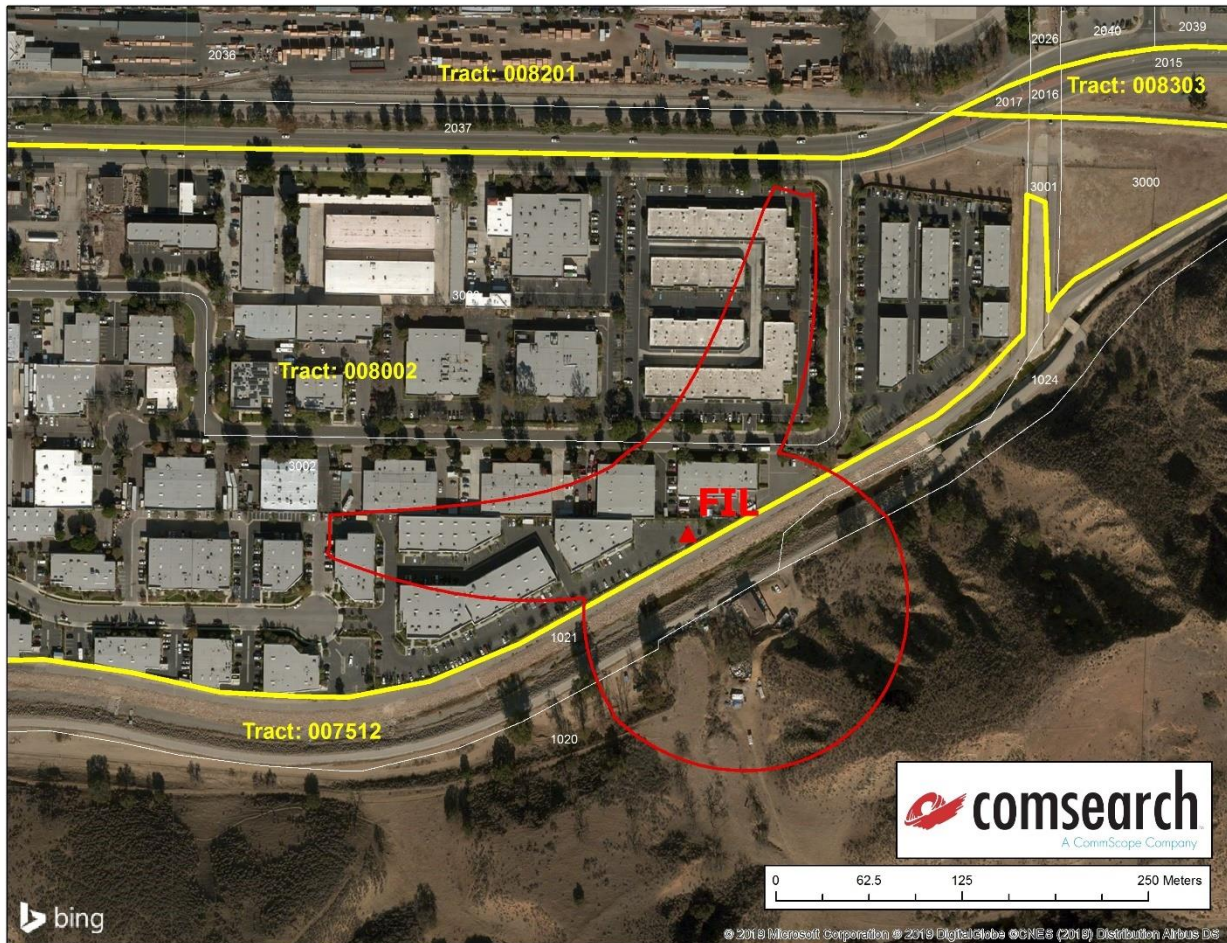


10. Simi Valley, CA—28 GHz (File No. SES-LIC-20170807-00888; Call Sign E170163)

Ventura County population: 835,790

Permitted population within contour: 835

County	State	Census Tract	Census Block	Block Pop	Area Percent	Pop Weighted
Ventura	CA	007512	1020	443	1.94%	8.59
Ventura	CA	008002	3003	0	10.44%	0.00
Ventura	CA	007512	1021	0	22.17%	0.00
Ventura	CA	008002	3002	0	16.65%	0.00
Ventura	CA	007512	1024	0	13.91%	0.00
Total						8.59

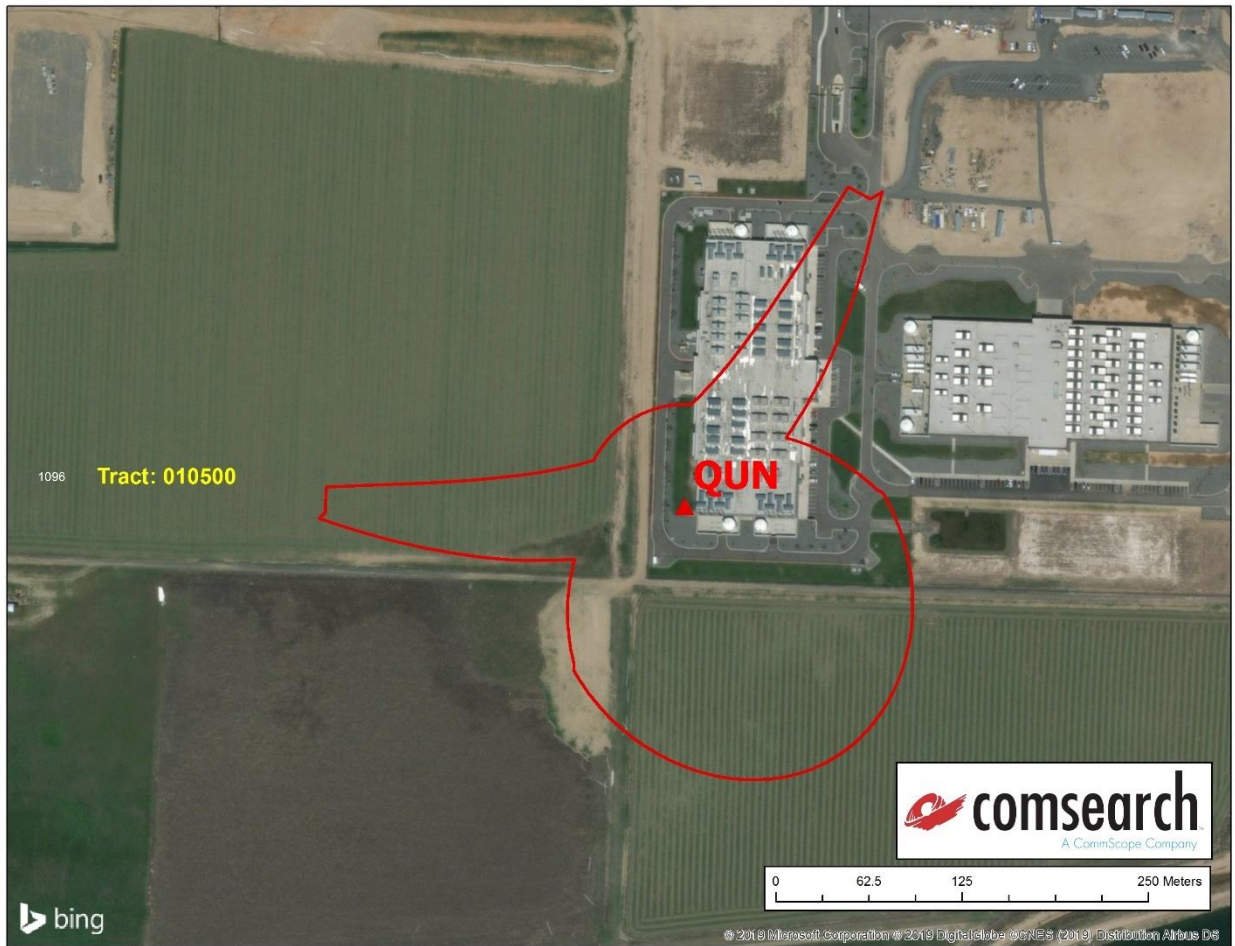


11. Quincy, WA—28 GHz (File No. SES-LIC-20170807-00878; Call Sign E170153)

Grant County population: 91,458

Permitted population within contour: 450

County	State	Census Tract	Census Block	Block Pop	Area Percent	Pop Weighted
Grant	WA	010500	1096	0	5.24%	0.00
Total						0.00



12. Lindon, UT—28 GHz (File No. SES-LIC-20170807-00890; Call Sign E170165)

Utah County population: 540,425

Permitted population within contour: 540

County	State	Census Tract	Census Block	Block Pop	Area Percent	Pop Weighted
Utah	UT	000601	2006	108	0.02%	0.02
Utah	UT	000601	2009	323	0.00%	0.01
Utah	UT	000601	2017	116	0.29%	0.33
Utah	UT	000601	2004	187	0.19%	0.35
Utah	UT	000601	2018	69	2.35%	1.62
Utah	UT	000601	2016	21	5.71%	1.20
Utah	UT	000601	2022	0	0.01%	0.00
Utah	UT	000601	2008	172	0.01%	0.02
Total						3.55

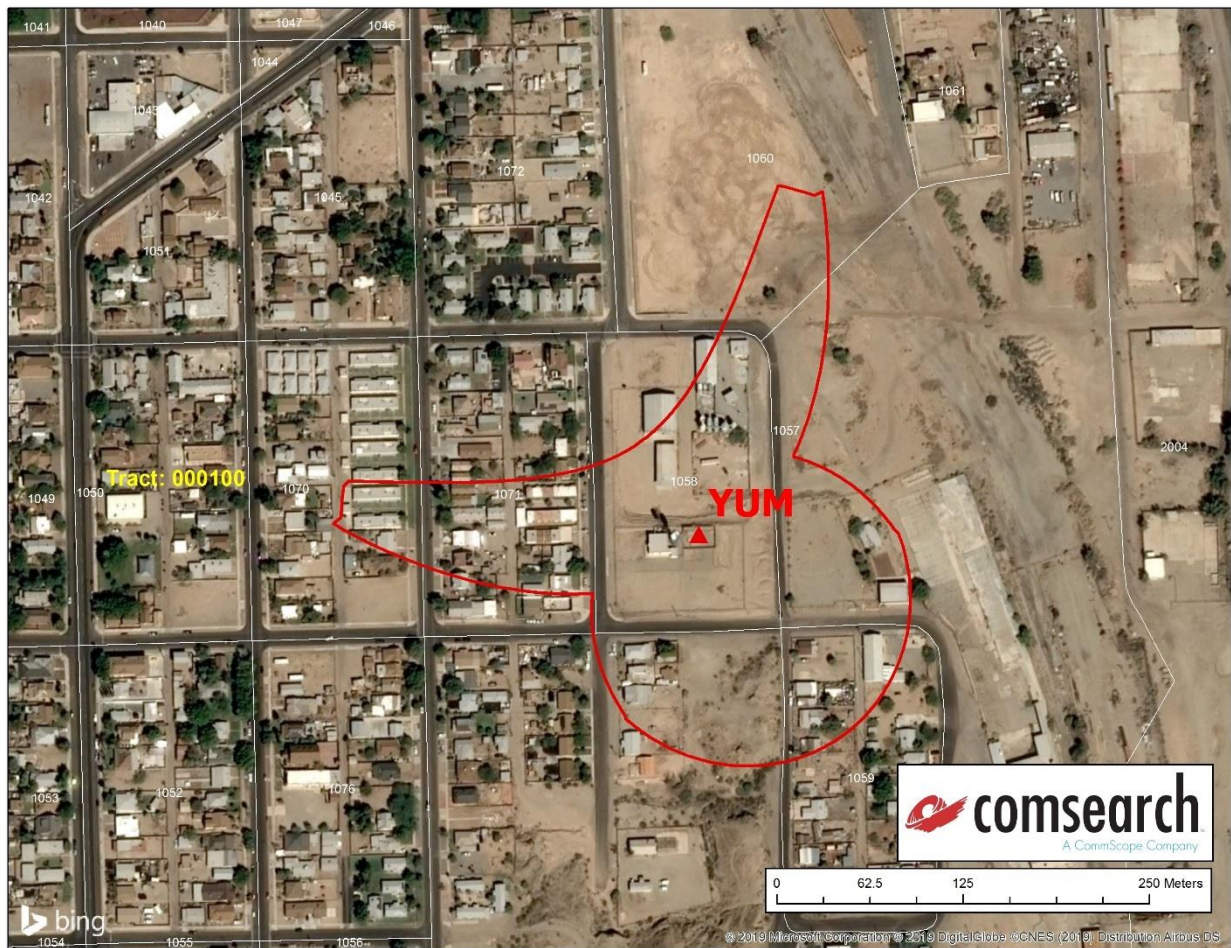


13. Yuma, AZ—28 GHz (File No. SES-LIC-20170807-00892; Call Sign E170167)

Yuma County population: 201,453

Permitted population within contour: 450

County	State	Census Tract	Census Block	Block Pop	Area Percent	Pop Weighted
Yuma	AZ	000100	1060	7	7.33%	0.51
Yuma	AZ	000100	1059	37	25.71%	9.51
Yuma	AZ	000100	1070	72	10.37%	7.46
Yuma	AZ	000100	1057	141	8.85%	12.48
Yuma	AZ	000100	1071	115	36.16%	41.59
Yuma	AZ	000100	1058	0	78.78%	0.00
Total						71.56

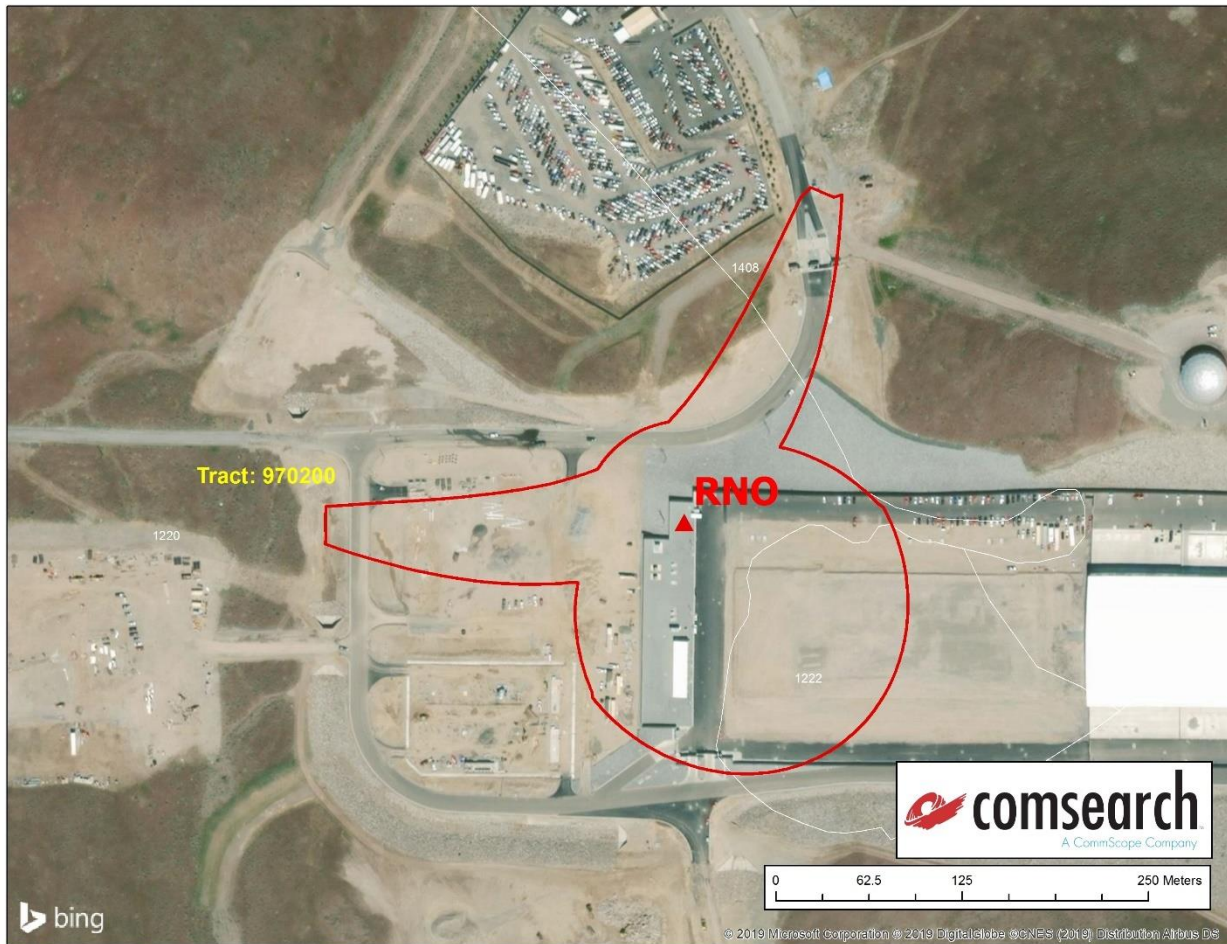


14. Reno, NV—28 GHz (File No. SES-LIC-20170807-00885; Call Sign E170160)

Storey County population: 3,934

Permitted population within contour: 295

County	State	Census Tract	Census Block	Block Pop	Area Percent	Pop Weighted
Storey	NV	970200	1408	0	0.37%	0.00
Storey	NV	970200	1222	0	42.95%	0.00
Storey	NV	970200	1220	0	0.16%	0.00
Total						0.00



15. Taos, NM—28 GHz (File No. SES-LIC-20170807-00884; Call Sign E170159)

Taos County population: 32,956

Permitted population within contour: 450

County	State	Census Tract	Census Block	Block Pop	Area Percent	Pop Weighted
Taos	NM	952600	4069	210	18.38%	38.59
Taos	NM	952600	4070	41	20.72%	8.49
Taos	NM	952600	4073	51	0.69%	0.35
Taos	NM	952600	4072	0	7.48%	0.00
Taos	NM	952600	4075	18	5.60%	1.01
Taos	NM	952600	4074	5	94.10%	4.71
Taos	NM	952600	4080	37	29.78%	11.02
Total						64.17



16. Driggs, ID—28 GHz (File No. SES-LIC-20170807-00886; Call Sign E170161)

Teton County population: 10,212

Permitted population within contour: 450

County	State	Census Tract	Census Block	Block Pop	Area Percent	Pop Weighted
Teton	ID	960100	2030	36	6.91%	2.49
Teton	ID	960100	2031	50	6.90%	3.45
Total						5.94



17. Missoula, MT—28 GHz (File No. SES-LIC-20170807-00893; Call Sign E170168)

Missoula County population: 111,011

Permitted population within contour: 450

County	State	Census Tract	Census Block	Block Pop	Area Percent	Pop Weighted
Missoula	MT	001600	1100	0	0.14%	0.00
Missoula	MT	001600	1128	53	0.00%	0.00
Missoula	MT	001600	1085	5	0.00%	0.00
Missoula	MT	001600	1129	3	0.19%	0.02
Missoula	MT	001600	1099	3	0.28%	0.02
Missoula	MT	001600	1131	0	0.00%	0.00
Missoula	MT	001600	1104	0	1.51%	0.00
Total						0.04



18. Bismarck, ND—28 GHz (File No. SES-LIC-20170807-00894; Call Sign E170169)

Burleigh County population: 86,111

Permitted population within contour: 450

(Table on this page; map on next page)

County	State	Census Tract	Census Block	Block Pop	Shaded Area Percent	Pop Weighted
Burleigh	ND	011101	3011	127	0.02%	0.02
Burleigh	ND	011101	3004	42	0.14%	0.06
Burleigh	ND	011105	1174	2	0.00%	0.00
Burleigh	ND	011105	1146	0	0.01%	0.00
Burleigh	ND	011101	3010	0	0.21%	0.00
Burleigh	ND	011101	3005	0	0.04%	0.00
Burleigh	ND	011101	3009	2	0.00%	0.00
Burleigh	ND	011105	1161	6	0.78%	0.05
Burleigh	ND	011105	1138	23	1.23%	0.28
Burleigh	ND	011101	3031	92	0.01%	0.01
Burleigh	ND	011101	3006	127	1.47%	1.87
Burleigh	ND	011105	1136	0	0.04%	0.00
Burleigh	ND	011105	1169	27	0.04%	0.01
					Total	2.30



19. Santa Clara, CA—28 GHz (File No. SES-LIC-20170807-00877; Call Sign E170152)

Santa Clara County population: 1,841,569

Permitted population within contour: 1841

(Table on this page; map on next page)

County	State	Census Tract	Census Block	Block Pop	Shaded Area Percent	Pop Weighted
Santa Clara	CA	505303	4006	0	0.75%	0.00
Santa Clara	CA	505202	3133	0	0.34%	0.00
Santa Clara	CA	505302	1017	84	0.16%	0.14
Santa Clara	CA	505202	3131	0	0.00%	0.00
Santa Clara	CA	505303	4005	368	0.72%	2.63
Santa Clara	CA	505303	4003	351	0.11%	0.37
Santa Clara	CA	505303	4004	119	2.99%	3.56
Santa Clara	CA	505303	1006	0	1.43%	0.00
Santa Clara	CA	505202	3143	0	0.01%	0.00
Santa Clara	CA	505202	3161	0	1.06%	0.00
Santa Clara	CA	505202	3140	0	0.00%	0.00
Santa Clara	CA	505202	3135	1	0.36%	0.00
Santa Clara	CA	505202	3142	0	0.01%	0.00
Santa Clara	CA	505303	1010	166	0.10%	0.16
Santa Clara	CA	505302	1016	113	0.92%	1.04
Santa Clara	CA	505303	4000	0	0.67%	0.00
Santa Clara	CA	505202	3148	0	0.20%	0.00
Santa Clara	CA	505302	1025	0	0.04%	0.00
Santa Clara	CA	505303	4001	991	1.58%	15.69
Santa Clara	CA	505202	3141	0	0.01%	0.00
Santa Clara	CA	505202	3163	0	0.00%	0.00
Santa Clara	CA	505202	3186	978	0.41%	4.06
Santa Clara	CA	505202	3134	0	1.30%	0.00
Santa Clara	CA	505202	3162	0	0.00%	0.00
Santa Clara	CA	505303	4007	4	2.92%	0.12
Santa Clara	CA	505202	3144	0	0.00%	0.00
Santa Clara	CA	505202	3132	0	0.02%	0.00
Santa Clara	CA	505202	3154	109	0.88%	0.96
					Total	28.73

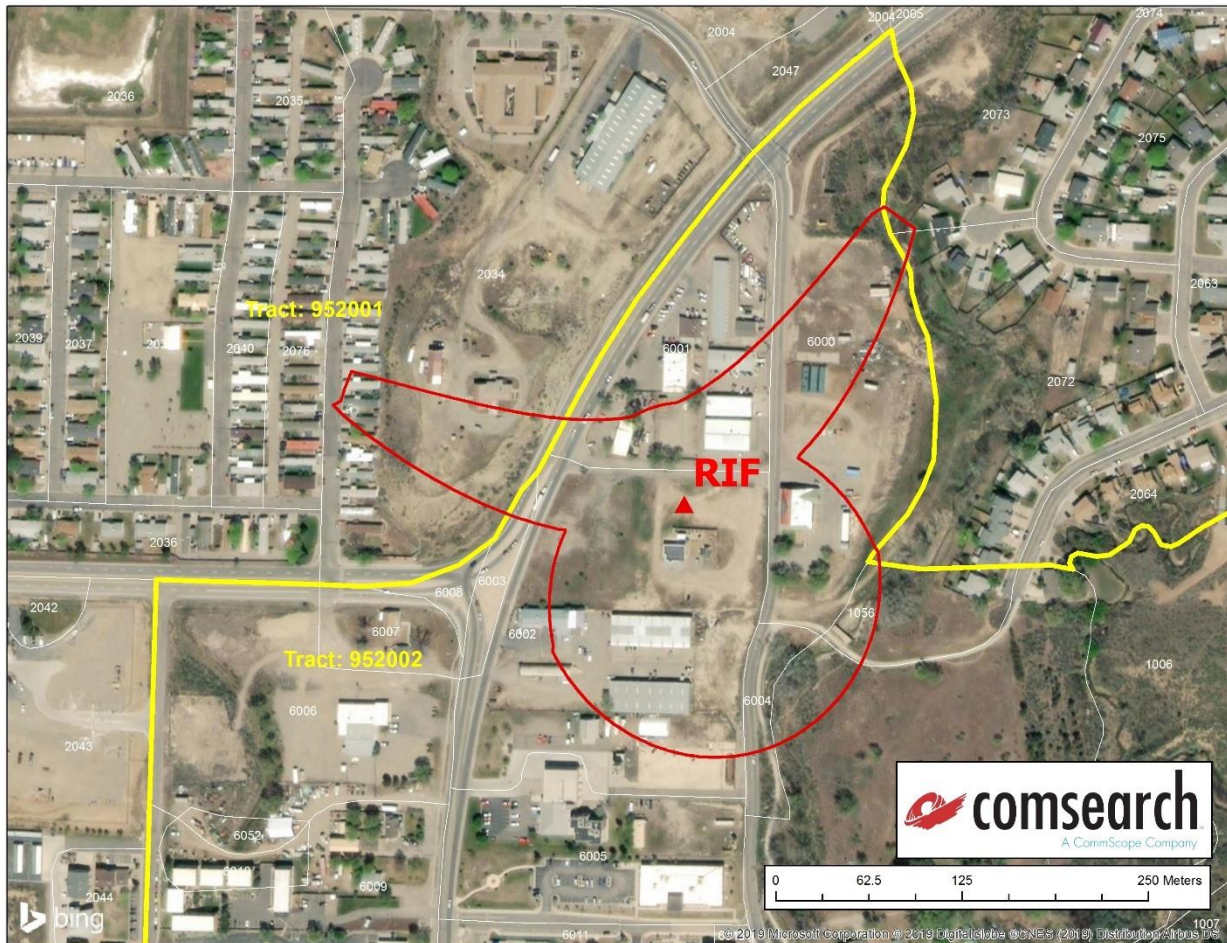


20. Rifle, CO—28 GHz (File No. SES-LIC-20170807-00891; Call Sign E170166)

Garfield County population: 56,684

Permitted population within contour: 450

County	State	Census Tract	Census Block	Block Pop	Area Percent	Pop Weighted
Garfield	CO	952002	6001	0	36.29%	0.00
Garfield	CO	952002	6003	0	14.00%	0.00
Garfield	CO	952002	6000	0	42.76%	0.00
Garfield	CO	952001	2034	95	9.67%	9.19
Garfield	CO	952002	6004	0	65.88%	0.00
Garfield	CO	952002	1056	2	20.51%	0.41
Garfield	CO	952001	2072	75	0.61%	0.46
Garfield	CO	952002	1055	11	3.72%	0.41
Garfield	CO	952001	2073	55	0.48%	0.26
Garfield	CO	952002	6002	0	65.86%	0.00
Total						10.72

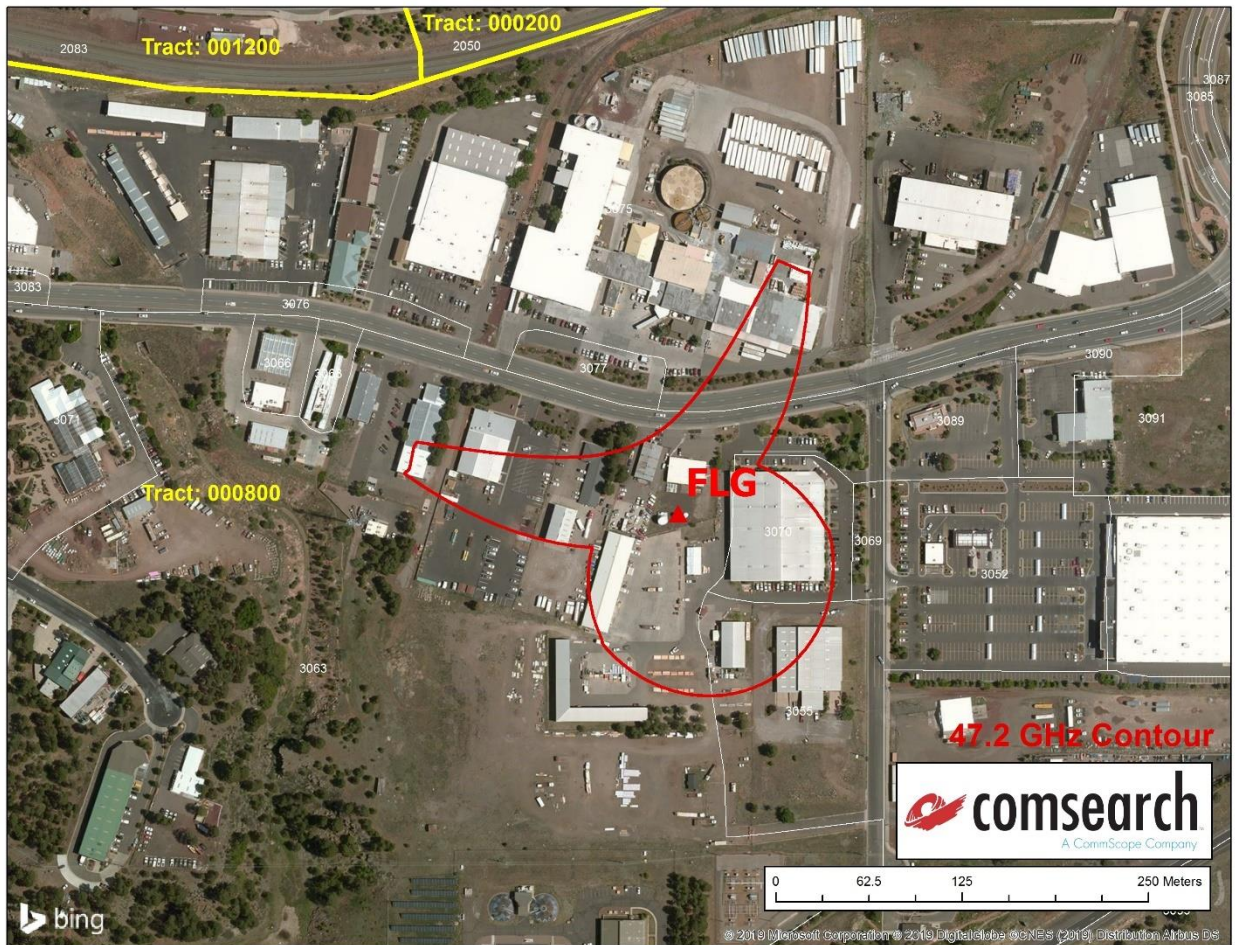


21. Flagstaff, AZ—47.2 GHz (File No. SES-LIC-20170807-00881; Call Sign E170156)

PEA 180 population: 345,454

Permitted population within contour: 2,250

County	State	Census Tract	Census Block	Block Pop	Area Percent	Pop Weighted
Coconino	AZ	000800	3075	2	1.34%	0.03
Coconino	AZ	000800	3070	0	70.20%	0.00
Coconino	AZ	000800	3055	0	22.96%	0.00
Coconino	AZ	000800	3063	25	4.20%	1.05
Total						1.08

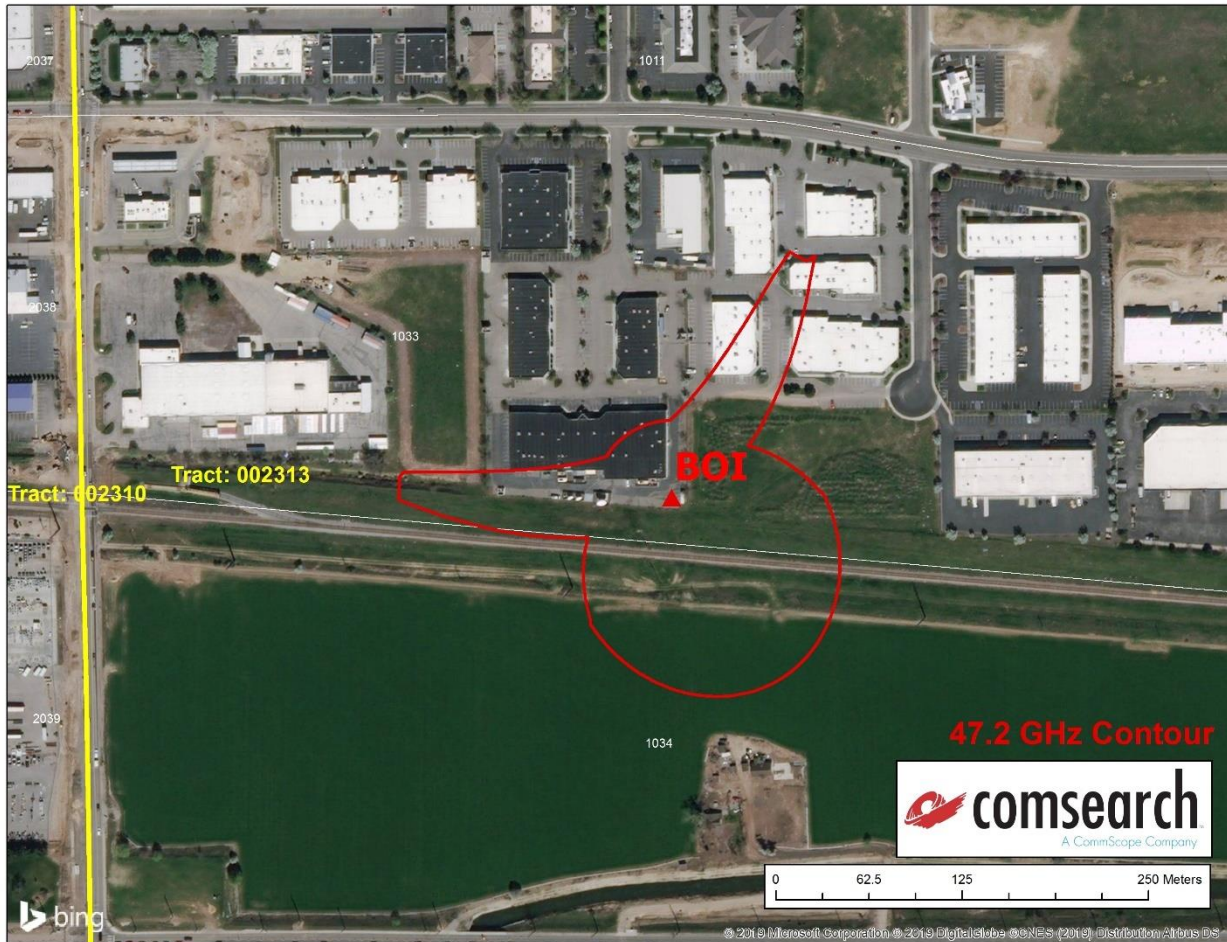


22. Boise, ID—47.2GHz (File No. SES-LIC-20170807-00880; Call Sign E170155)

PEA 156 population: 392,365

Permitted population within contour: 2,250

County	State	Census Tract	Census Block	Block Pop	Area Percent	Pop Weighted
Ada	ID	002313	1033	0	9.19%	0.00
Ada	ID	002313	1034	0	6.46%	0.00
Total						0.00



23. Bend, OR—47.2 GHz (File No. SES-LIC-20170807-00876; Call Sign E170151)

PEA 213 population: 289,034

Permitted population within contour: 2,250

County	State	Census Tract	Census Block	Block Pop	Area Percent	Pop Weighted
Deschutes	OR	001100	3072	0	10.56%	0.00
Total						0.00



24. North Las Vegas, NV—47.2GHz (File No. SES-LIC-20170807-00879; Call Sign E170154)

PEA 26 population: 2,151,455

Permitted population within contour: 2,250

County	State	Census Tract	Census Block	Block Pop	Area Percent	Pop Weighted
Clark	NV	003615	2004	0	1.82%	0.00
Clark	NV	003615	2006	0	10.87%	0.00
Total						0.00

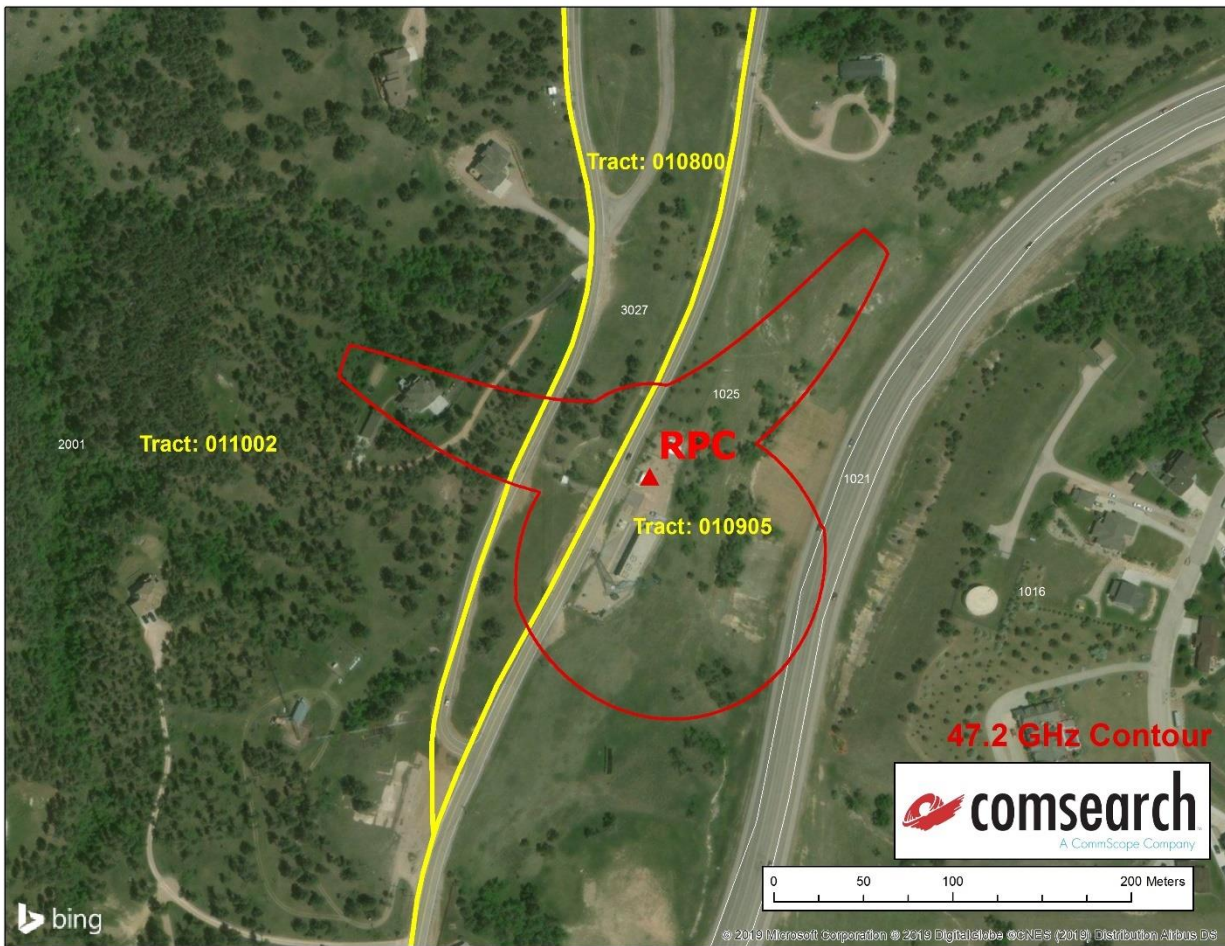


25. Rapid City, SD—47.2 GHz (File No. SES-LIC-20170807-00882; Call Sign E170157)

PEA 276 population: 183,639

Permitted population within contour: 2,250

County	State	Census Tract	Census Block	Block Pop	Area Percent	Pop Weighted
Pennington	SD	011002	2001	1089	0.18%	1.98
Pennington	SD	010905	1025	15	4.21%	0.63
Pennington	SD	010800	3027	16	1.69%	0.27
Pennington	SD	010905	1021	0	1.28%	0.00
Total						2.88



26. Billings, MT—47.2 GHz (File No. SES-LIC-20170807-00883; Call Sign E170158)

PEA 190 population: 324,077

Permitted population within contour: 2,250

County	State	Census Tract	Census Block	Block Pop	Area Percent	Pop Weighted
Yellowstone	MT	001000	2006	0	0.60%	0.00
Yellowstone	MT	001000	2020	113	2.73%	3.09
Yellowstone	MT	001000	2018	251	10.60%	26.59
Total						29.68

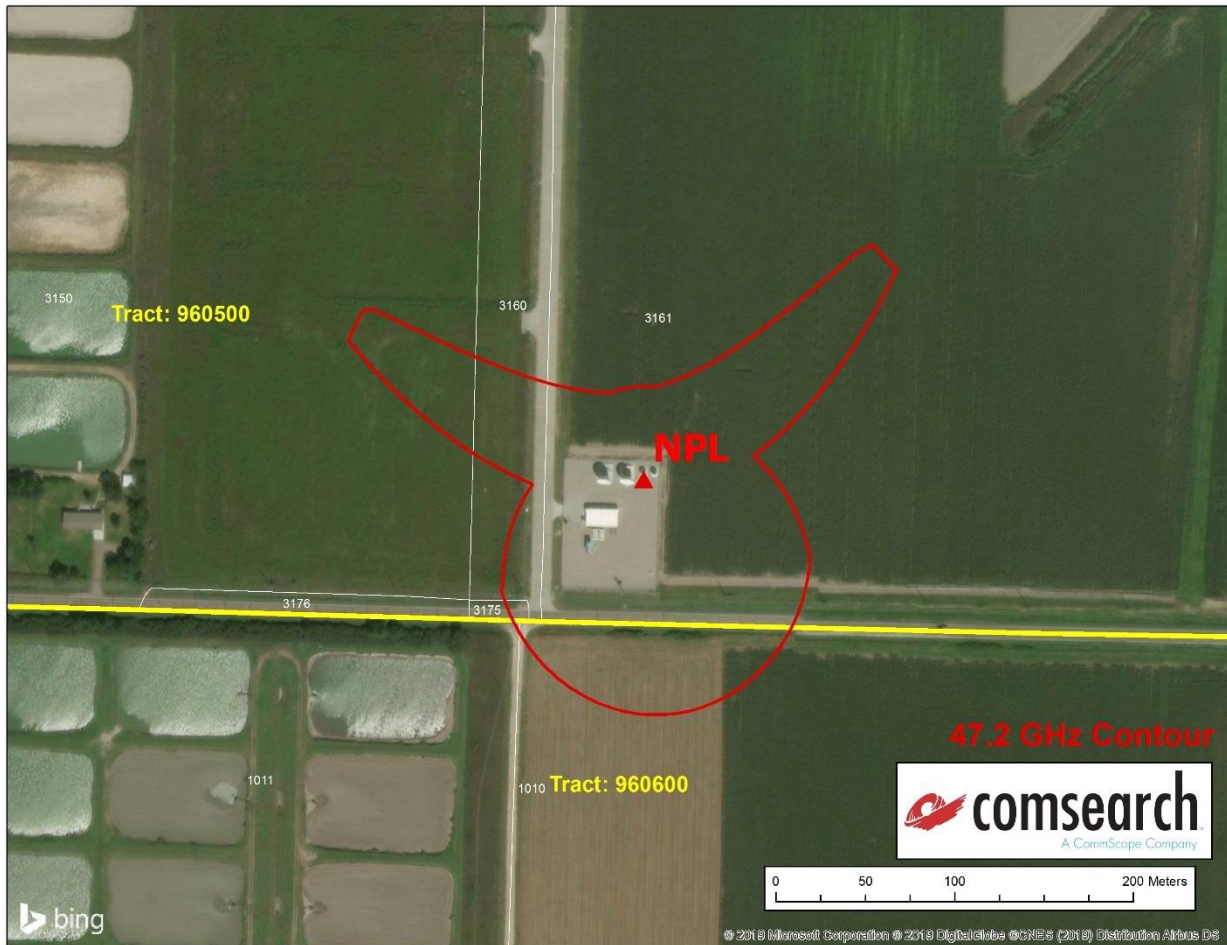


27. North Platte, NE—47.2 GHz

PEA 374 population: 61,592

Permitted population within contour: 2,250

County	State	Census Tract	Census Block	Block Pop	Area Percent	Pop Weighted
Lincoln	NE	960500	3161	0	1.75%	0.00
Lincoln	NE	960600	1010	0	2.39%	0.00
Lincoln	NE	960500	3150	2	0.85%	0.02
Lincoln	NE	960500	3175	0	34.22%	0.00
Lincoln	NE	960500	3160	0	12.49%	0.00
Lincoln	NE	960600	1011	0	0.01%	0.00
Total						0.02



28. Tucson, AZ—47.2 GHz (File No. SES-LIC-20170807-00887; Call Sign E170162)

PEA 53 population: 993,144

Permitted population within contour: 2,250

County	State	Census Tract	Census Block	Block Pop	Area Percent	Pop Weighted
Pima	AZ	002201	1022	0	20.18%	0.00
Pima	AZ	002201	1020	0	0.48%	0.00
Pima	AZ	002201	1021	15	2.07%	0.31
Pima	AZ	002201	1023	0	27.62%	0.00
Total						0.31

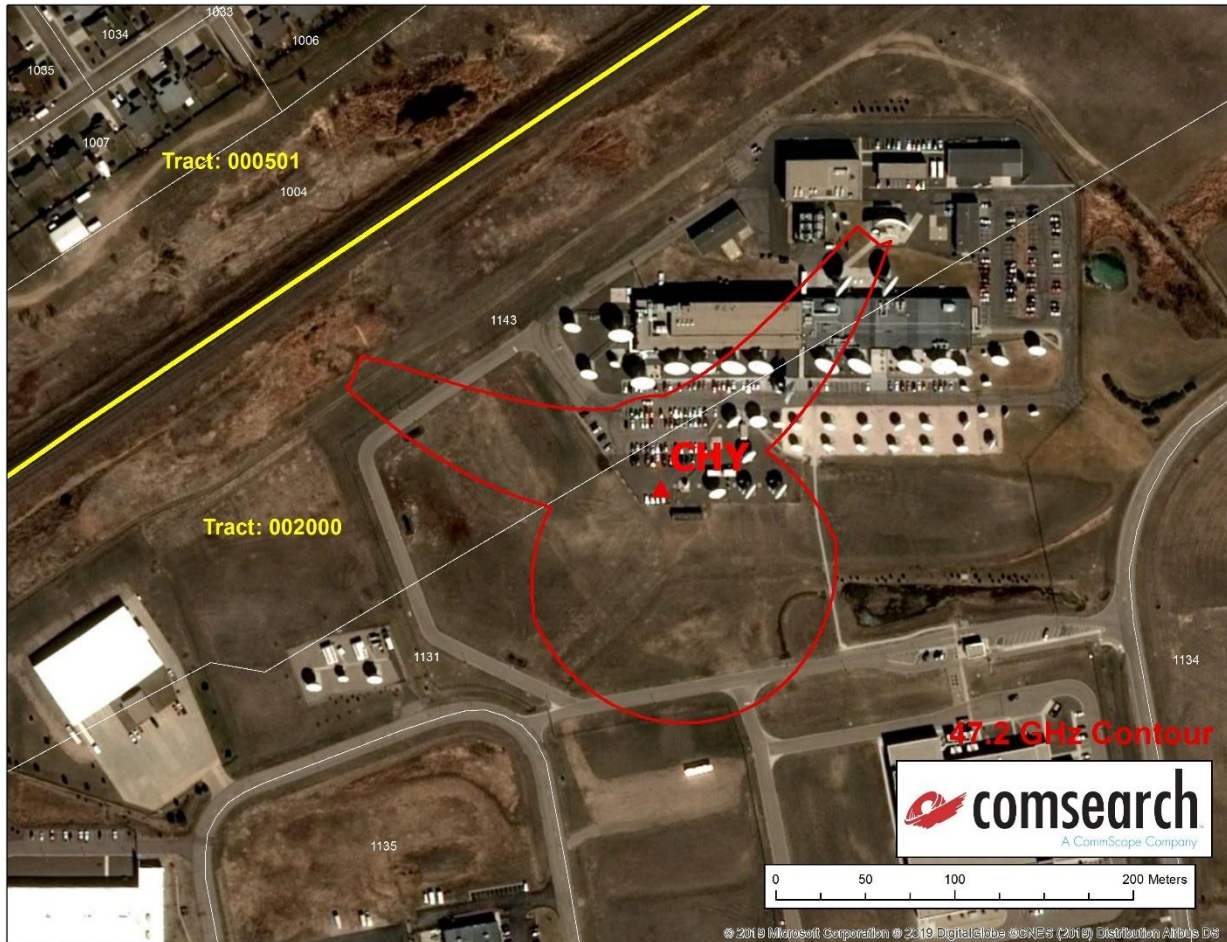


29. Cheyenne, WY—47.2 GHz (File No. SES-LIC-20170807-00889; Call Sign E170164)

PEA 257 population: 213,445

Permitted population within contour: 2,250

County	State	Census Tract	Census Block	Block Pop	Area Percent	Pop Weighted
Laramie	WY	002000	1131	0	7.40%	0.00
Laramie	WY	002000	1143	0	3.91%	0.00
Total						0.00

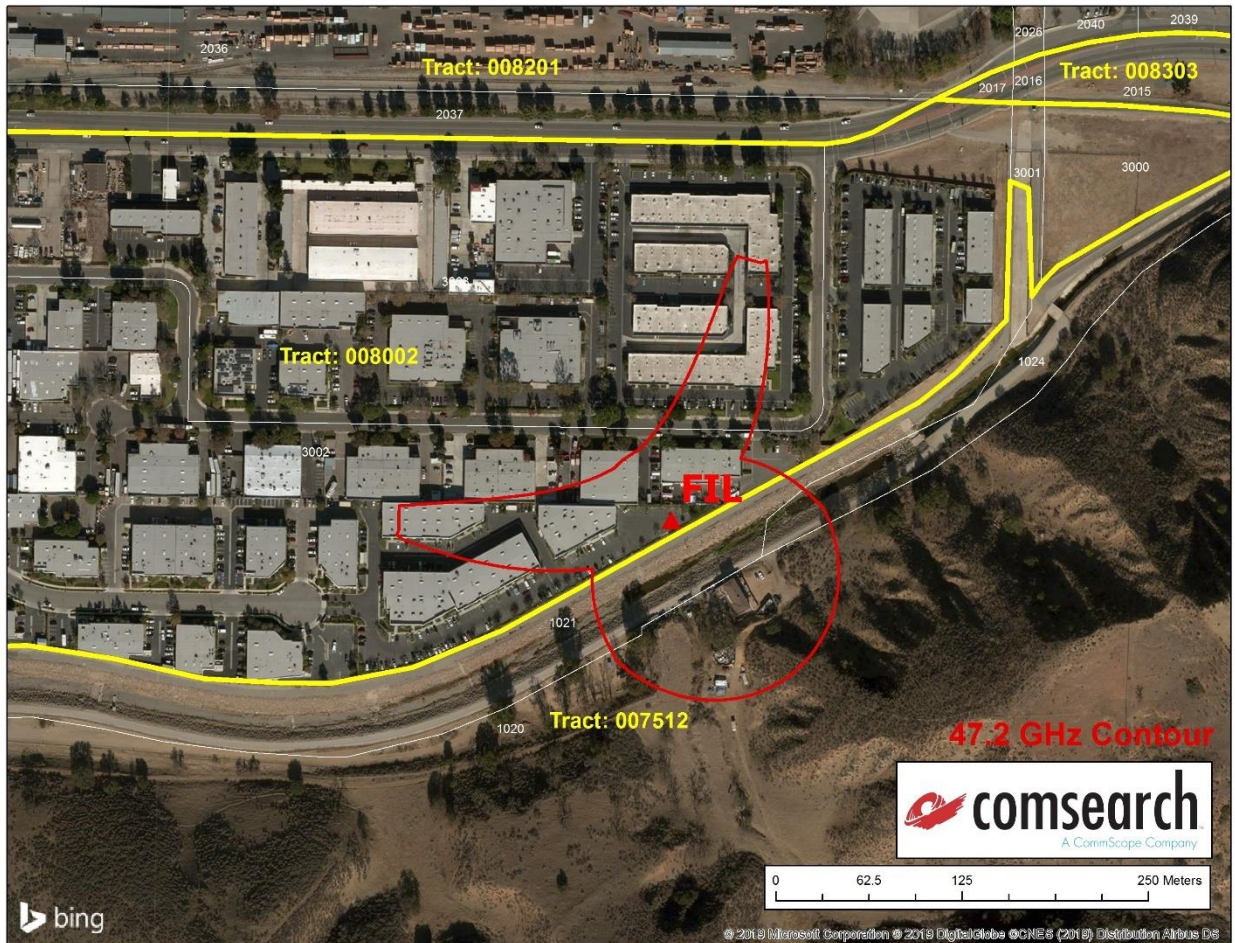


30. Simi Valley, CA—47.2 GHz (File No. SES-LIC-20170807-00888; Call Sign E170163)

PEA 2 population: 19,410,169

Permitted population within contour: 19,410

County	State	Census Tract	Census Block	Block Pop	Area Percent	Pop Weighted
Ventura	CA	007512	1020	443	0.93%	4.12
Ventura	CA	008002	3003	0	5.05%	0.00
Ventura	CA	007512	1021	0	18.13%	0.00
Ventura	CA	008002	3002	0	10.75%	0.00
Ventura	CA	007512	1024	0	8.00%	0.00
Total						4.12

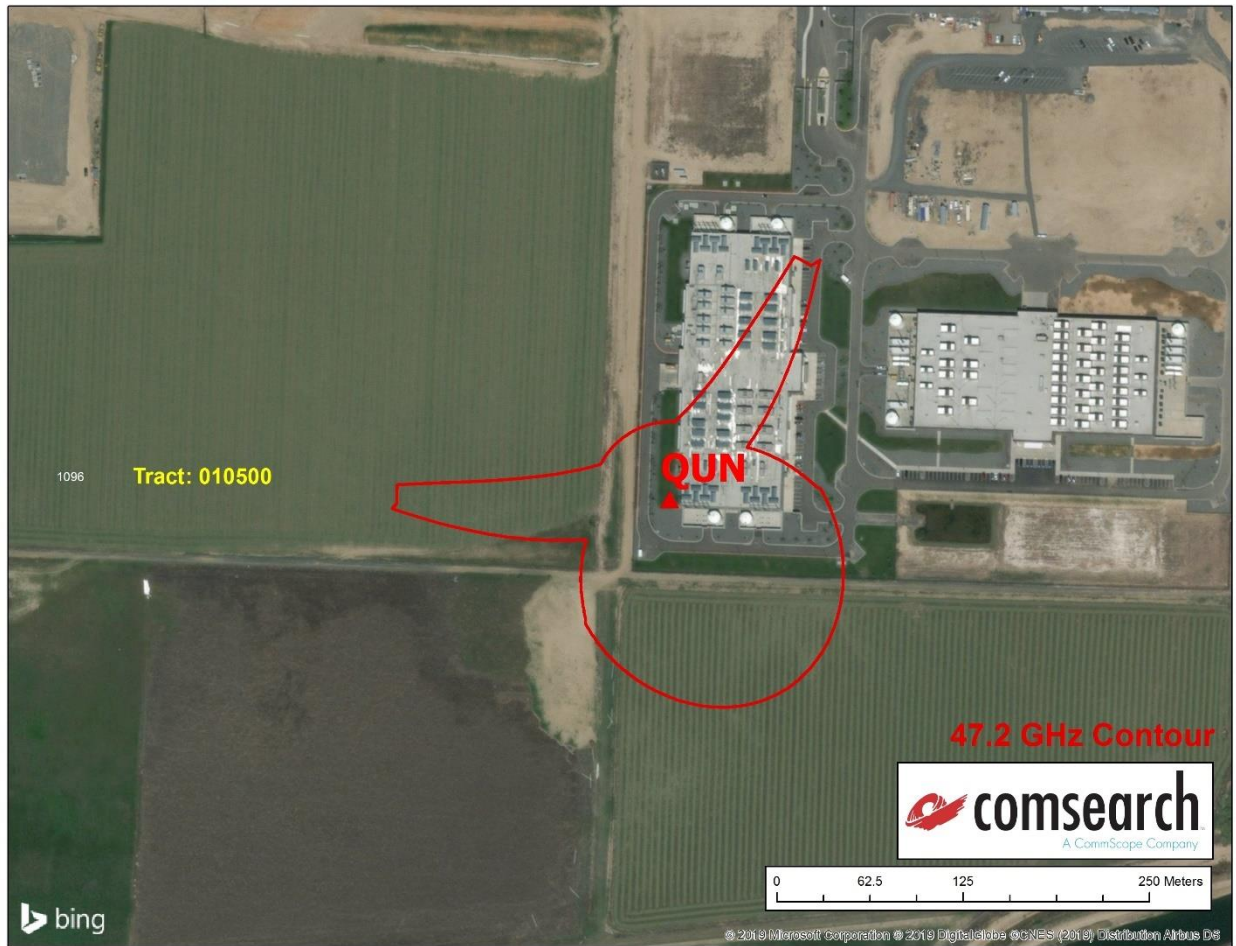


31. Quincy, WA—47.2 GHz (File No. SES-LIC-20170807-00878; Call Sign E170153)

PEA 206 population: 300,767

Permitted population within contour: 2,250

County	State	Census Tract	Census Block	Block Pop	Area Percent	Pop Weighted
Grant	WA	010500	1096	0	3.03%	0.00
Total						0.00



32. Lindon, UT—47.2 GHz (File No. SES-LIC-20170807-00890; Call Sign E170165)

PEA 27 population: 2,142,152

Permitted population within contour: 2,250

County	State	Census Tract	Census Block	Block Pop	Area Percent	Pop Weighted
Utah	UT	000601	2018	69	12.21%	8.43
Utah	UT	000601	2016	21	1.74%	0.37
Utah	UT	000601	2008	172	1.40%	2.41
Total						21.36



33. Yuma, AZ—47.2 GHz (File No. SES-LIC-20170807-00892; Call Sign E170167)

PEA 157 population: 390,768

Permitted population within contour: 2,250

County	State	Census Tract	Census Block	Block Pop	Area Percent	Pop Weighted
Yuma	AZ	000100	1060	7	2.06%	0.14
Yuma	AZ	000100	1059	37	7.23%	2.68
Yuma	AZ	000100	1070	72	0.00%	0.00
Yuma	AZ	000100	1057	141	4.47%	6.31
Yuma	AZ	000100	1071	115	22.20%	25.53
Yuma	AZ	000100	1058	0	68.22%	0.00
Total						34.66

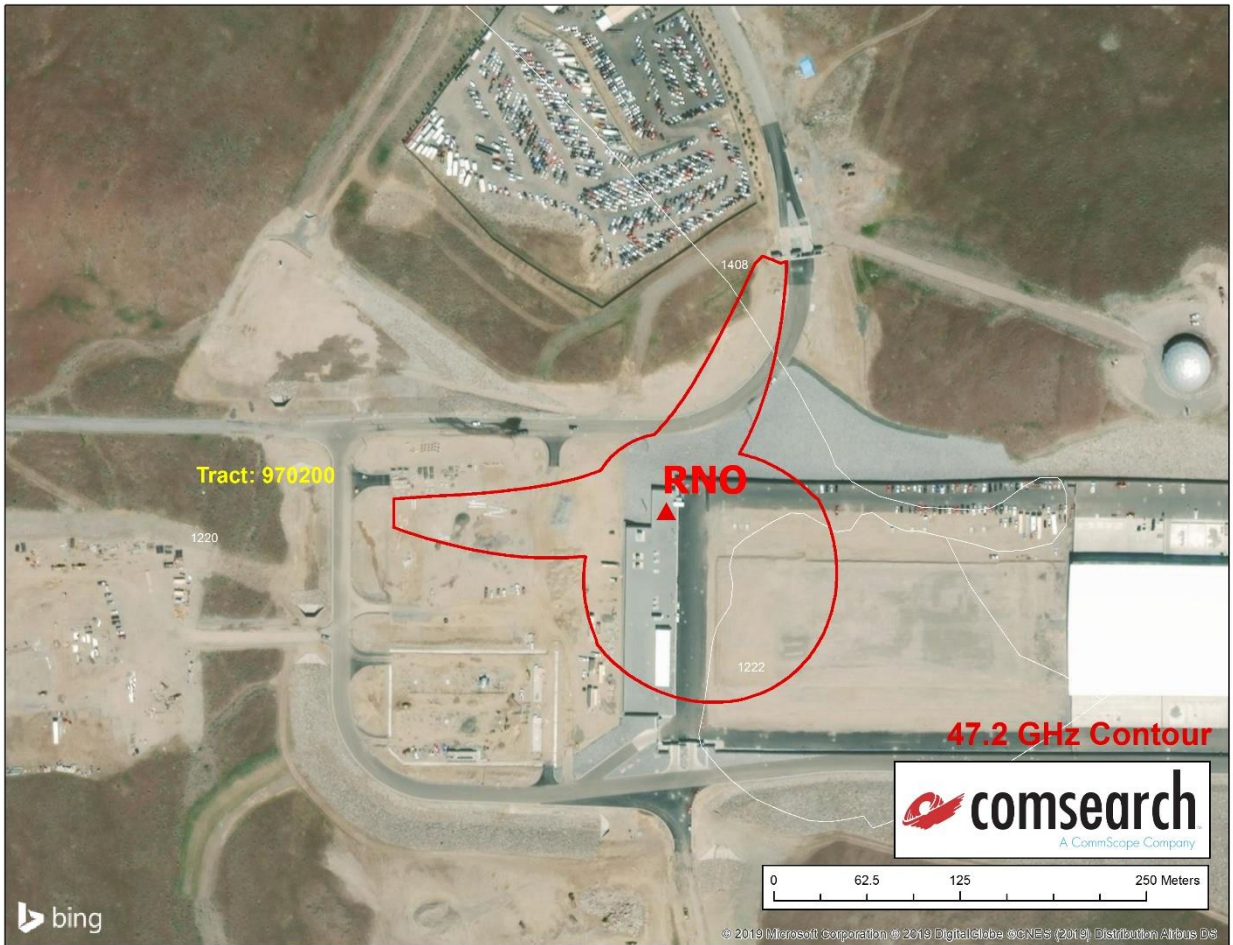


34. Reno, NV—47.2 GHz (File No. SES-LIC-20170807-00885; Call Sign E170160)

PEA 76 population: 786,501

Permitted population within contour: 2,250

County	State	Census Tract	Census Block	Block Pop	Area Percent	Pop Weighted
Storey	NV	970200	1408	0	0.10%	0.00
Storey	NV	970200	1222	0	20.73%	0.00
Storey	NV	970200	1220	0	0.10%	0.00
Total						0.00



35. Taos, NM—47.2 GHz (File No. SES-LIC-20170807-00884; Call Sign E170159)

PEA 357 population: 73,183

Permitted population within contour: 2,250

County	State	Census Tract	Census Block	Block Pop	Area Percent	Pop Weighted
Taos	NM	952600	4069	210	13.58%	28.51
Taos	NM	952600	4070	41	3.40%	1.39
Taos	NM	952600	4072	0	1.50%	0.00
Taos	NM	952600	4075	18	2.18%	0.39
Taos	NM	952600	4074	5	55.58%	2.78
Total						33.07



36. Driggs, ID—47.2 GHz (File No. SES-LIC-20170807-00886; Call Sign E170161)

PEA 187 population: 328,567

Permitted population within contour: 2,250

County	State	Census Tract	Census Block	Block Pop	Area Percent	Pop Weighted
Teton	ID	960100	2030	36	4.41%	1.59
Teton	ID	960100	2031	50	0.16%	0.08
Total						1.67



37. Missoula, MT—47.2 GHz (File No. SES-LIC-20170807-00893; Call Sign E170168)

PEA 158 population: 378,009

Permitted population within contour: 2,250

County	State	Census Tract	Census Block	Block Pop	Area Percent	Pop Weighted
Missoula	MT	001600	1099	8	8.49%	0.68
Total						0.68

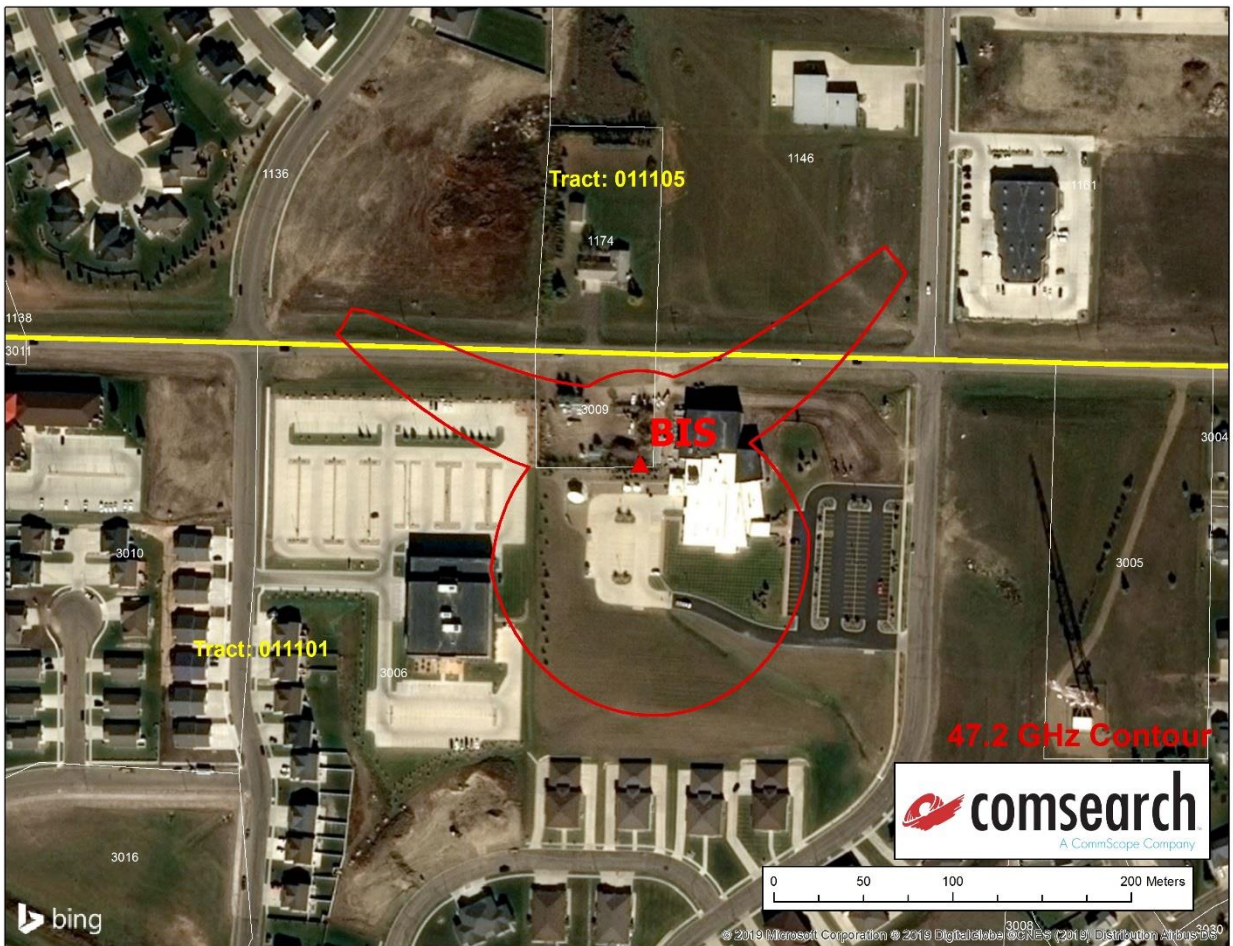


38. Bismarck, ND—47.2 GHz (File No. SES-LIC-20170807-00894; Call Sign E170169)

PEA 325 population: 108,779

Permitted population within contour: 2,250

County	State	Census Tract	Census Block	Block Pop	Area Percent	Pop Weighted
Burleigh	ND	011105	1146	0	1.98%	0.00
Burleigh	ND	011101	3009	2	77.51%	1.55
Burleigh	ND	011101	3006	127	8.04%	10.22
Burleigh	ND	011105	1136	0	0.08%	0.00
Total						11.77

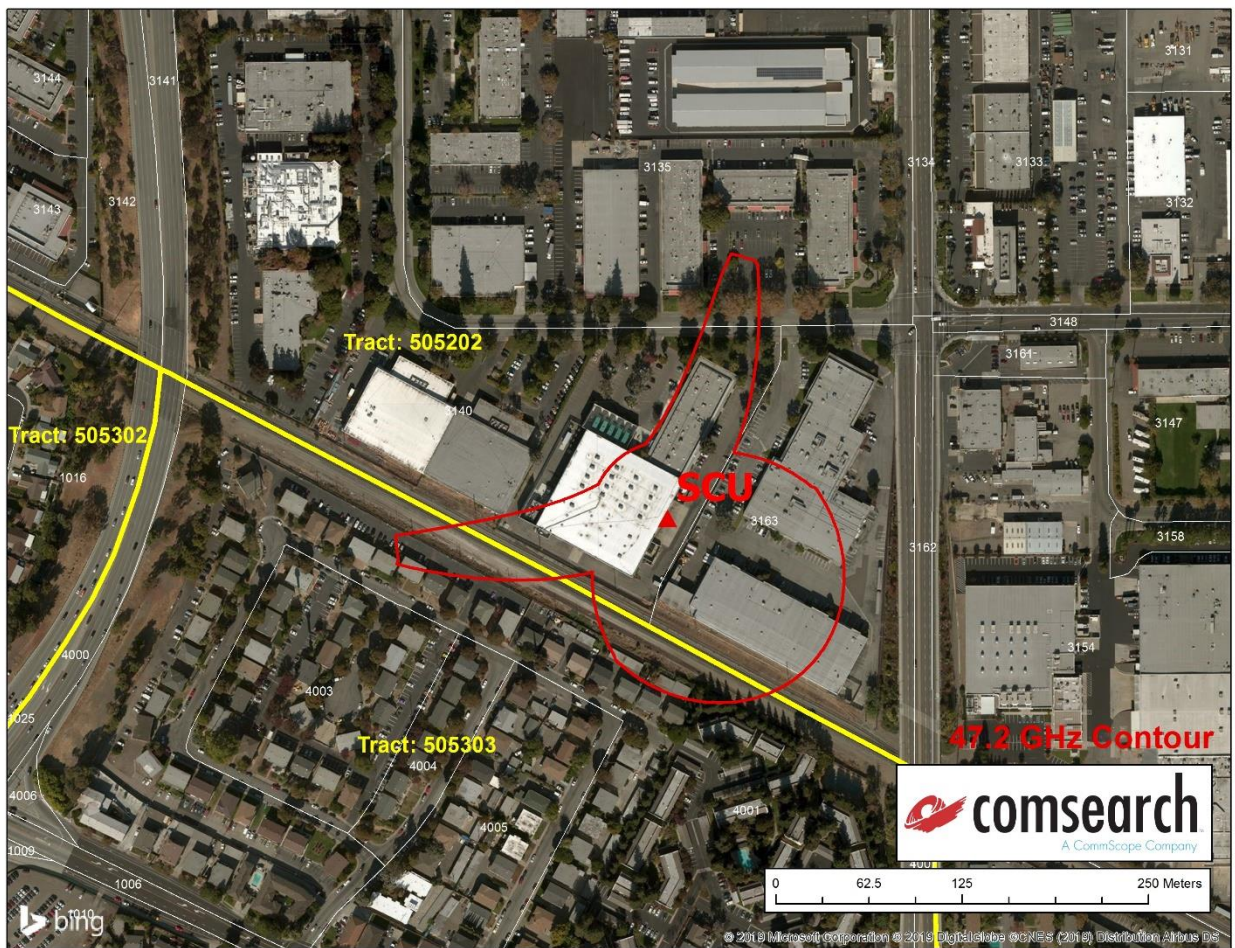


39. Santa Clara, CA—47.2 GHz (File No. SES-LIC-20170807-00877; Call Sign E170152)

PEA 4 population: 9,027,937

Permitted population within contour: 9,027

County	State	Census Tract	Census Block	Block Pop	Area Percent	Pop Weighted
Santa Clara	CA	505202	3140	0	13.77%	0.00
Santa Clara	CA	505202	3135	1	1.09%	0.01
Santa Clara	CA	505303	4001	991	4.47%	44.27
Santa Clara	CA	505202	3163	0	39.84%	0.00
Total						44.28



40. Rifle, CO—47.2GHz (File No. SES-LIC-20170807-00891; Call Sign E170166)

PEA 102 population: 562,340

Permitted population within contour: 2,250

County	State	Census Tract	Census Block	Block Pop	Area Percent	Pop Weighted
Garfield	CO	952002	6001	0	25.32%	0.00
Garfield	CO	952002	6003	0	6.70%	0.00
Garfield	CO	952002	6000	0	22.66%	0.00
Garfield	CO	952001	2034	95	3.98%	3.78
Garfield	CO	952002	6004	0	38.41%	0.00
Garfield	CO	952002	1055	11	0.03%	0.00
Garfield	CO	952002	6002	0	47.39%	0.00
Total						10.72

