

Appendix 3.4A

Noise and Vibration

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Table 3.4A-1
 Long-Term Existing Noise Measurements

Site	City/County	Address	Contributing Noise Source	Ldn (dBA)
LT-1	City of Bakersfield	1331 M St	Roadway, Community/Household, Dogs/Birds	64.6
LT-3	City of Bakersfield	9300 Windcreek	Roadway, Aircraft, Community/Household, Dogs/Birds	57.8
LT-4	City of Bakersfield	10304 Palm Ave	Community/Household	71.6
LT-5	City of Bakersfield	1107 Enger St	Community/Household	71.6
LT-6	City of Bakersfield	2800 Lona Dala Dr	Community/Household, Dogs/Birds	74
LT-7	City of Bakersfield	3210 Old Farm Rd	Rail, Community/Household, Dogs/Birds	77.7
LT-8	City of Bakersfield	21541 Paddock Place	Rail, Roadway, Community/Household	68.6
LT-9	City of Bakersfield	4340 Sandy Gap	Rail, Roadway, Community/Household	65.1
LT-10	City of Bakersfield	13417 Cheyenne Mtn. Dr	Roadway, Community/Household	59.6
LT-11	City of Bakersfield	19491 Santa Fe	Roadway, Community/Household	78.8
LT-12	City of Bakersfield	19401 Santa Fe	Rail, Roadway, Community/Household	72.8
LT-13	City of Shafter	31396 Burbank	Rail, Grade Crossing, Roadway, Community/Household	74.4
LT-14	City of Shafter	31327 Orange St	Rail, Roadway, Community/Household	79
LT-15	City of Shafter	380 Marengo	Rail, Roadway, Community/Household, Dogs/Birds	69.6
LT-16	City of Shafter	396 Prince Lane	Roadway, Community/Household	74.9
LT-17	City of Shafter	17422 Poplar	Rail, Roadway, Community/Household	79.4
LT-18	City of Shafter	17037 Scaroni	Rail, Roadway, Community/Household	72.7
LT-19	City of Wasco	16202 Wasco Ave	Rail, Roadway, Community/Household, Dogs/Birds	72.8
LT-20	City of Wasco	15850 Wasco Ave	Rail, Roadway, Community/Household, Dogs/Birds	59.9

Table 3.4A-1
 Long-Term Existing Noise Measurements

Site	City/County	Address	Contributing Noise Source	Ldn (dBA)
LT-21	City of Wasco	29502 Unnamed Street	Rail, Roadway, Community/Household, Children Playing	58.7
LT-22	City of Wasco	1886 G St	Rail, Community/Household	73.2
LT-23	City of Wasco	29352 Hwy 46 (Paso Robles Hwy)	Roadway, Industrial/Commercial, Community/Household, Children Playing, Dogs/Birds	73.4
LT-24	City of Wasco	29136 McCombs Rd at Annin Ave	Rail, Grade Crossing, Roadway Community/Household	63
LT-25	City of Wasco	29351 Whisler Rd	Rail, Roadway, Community/Household	62.7
LT-26	City of Wasco	13436 Hwy 43	Rail, Roadway, Community/Household	72
LT-27	City of Wasco	29348 Blankenship	Rail, Roadway, Community/Household	62.1
LT-28	City of Wasco	29350 Peterson	Rail, Roadway, Community/Household	67.2
LT-29	City of Wasco	29305 Second St	Rail, Roadway, Community/Household	73.6
LT-30	City of Wasco	29140 Pond Rd	Rail, Roadway, Community/Household	72.3
LT-31	City of Shafter	13767 Cherry Ave	Rail, Roadway, Community/Household, Dogs/Birds	71.1
LT-32	City of Shafter	1499 E. Los Angeles St	Rail, Grade Crossing, Roadway, Industrial/Commercial, Community/Household	64.4
LT-33	City of Shafter	E. Lerdo Hwy (between S. Beech Ave and Cherry Ave)	Roadway, Community/Household	67.2
LT-34	City of Shafter	1991 E. Lerdo Hwy	Rail, Roadway, Community/Household	66.6
LT-35	City of Shafter	460 Pine St	Roadway, Community/Household	59.4
LT-36	City of Shafter	1450 E. Lerdo Hwy	Rail, Roadway, Industrial/Commercial, Community/Household	61.4
LT-37	City of Shafter	625 E. Fresno Ave	Roadway, Community/Household	58.6

Table 3.4A-1
 Long-Term Existing Noise Measurements

Site	City/County	Address	Contributing Noise Source	Ldn (dBA)
LT-38	City of Shafter	30519 Madera	Community/Household	59.5
LT-39	City of Shafter	17259 Shafter Ave	Roadway, Community/Household	69.2
LT-40	City of Shafter	17207 Mettler Ave	Community/Household	59.1
LT-41	City of Shafter	30348 Madera Ave	Community/Household	58.4
LT-42	City of Shafter	17096 Shafter Ave	Community/Household	61.6
LT-43	City of Shafter	30592 Merced Ave	Community/Household	53.7
LT-44	City of Delano	28901 W. Cecil Way	Roadway, Community/Household	65.6
LT-45	City of Delano	Garces Hwy at Central Valley Hwy	Rail, Grade Crossing, Roadway, Community/Household	71.4
LT-46	City of Delano	11098 Hwy 43 (Central Valley Hwy)	Rail, Roadway, Community/Household	73.1
LT-47	City of Wasco	11248 Airport Ave	Rail, Community/Household	59.9
LT-48	City of Delano	8611 Avenue 32	Roadway, Community/Household	76.1
LT-49	County of Tulare	3400 Road 84, Earlimart	Rail, Roadway, Community/Household	64.5
LT-50	County of Tulare	8512 36th Ave, Earlimart	Rail, Roadway, Community/Household	62
LT-51	County of Tulare	8369 Road 84, Earlimart (at Avenue 39)	Rail, Roadway, Community/Household	68.7
LT-52	County of Tulare	9444 Hwy 43	Rail, Roadway, Community/Household	64.4
LT-53	County of Tulare	9582 Hwy 43	Rail, Roadway, Community/Household	64
LT-54	County of Tulare	9952 Hwy 43	Rail, Roadway, Community/Household	64.6
LT-55	City of Corcoran	3922 Avenue 120	Rail, Roadway, Industrial/Commercial, Community/Household	65.2

Table 3.4A-1
 Long-Term Existing Noise Measurements

Site	City/County	Address	Contributing Noise Source	Ldn (dBA)
LT-56	City of Delano	28704 Garces	Roadway, Community/Household, Dogs/Birds	61.5
LT-57	City of Delano	11446 Palm Ave	Rail, Community/Household, Dogs/Birds	59.8
LT-58	City of Corcoran	12728 Avenue 128	Rail, Roadway, Community/Household, Dogs/Birds	64.9
LT-59	City of Corcoran	2364 Avenue 144	Rail, Roadway, Community/Household, Dogs/Birds	65.2
LT-60	City of Corcoran	1847 Avenue 144	Rail, Roadway, Community/Household, Dogs/Birds	70.4
LT-61	City of Corcoran	14624 Hwy 43	Rail, Roadway, Community/Household, Dogs/Birds	66
LT-62	City of Corcoran	277 Oregon Ave	Rail, Roadway, Industrial/Commercial, Community/Household	61.4
LT-63	City of Corcoran	83 Whitley	Rail, Roadway, Community/Household	68
LT-64	City of Corcoran	825 Yoder at Brokaw	Rail, Roadway, Community/Household	80.7
LT-65	City of Corcoran	1420 N. Avenue	Rail, Roadway, Community/Household	78.4
LT-66	City of Corcoran	5904 Newark	Rail, Roadway, Community/Household, Dogs/Birds	64.4
LT-67	City of Corcoran	1940 Dairy Ave	Rail, Roadway, Community/Household	65.5
LT-68	City of Corcoran	5701 Niles	Rail, Roadway, Community/Household	64.1
LT-69	City of Corcoran	172 Orange Dr	Roadway, Community/Household, Dogs/Birds	47.6
LT-70	City of Corcoran	21 5th Ave	Community/Household, Dogs/Birds	51.1
LT-71	City of Corcoran	152 5-1/2 Ave	Roadway, Community/Household, Dogs/Birds	72.9
LT-72	City of Corcoran	455 Orange Ave	Roadway, Community/Household, Dogs/Birds	52.5
LT-73	City of Corcoran	5974 Corcoran Hwy	Roadway, Community/Household	65.4
LT-74	City of Corcoran	23088 5-1/2 Ave	Roadway, Community/Household	55.9

Table 3.4A-1
 Long-Term Existing Noise Measurements

Site	City/County	Address	Contributing Noise Source	Ldn (dBA)
LT-75	City of Corcoran	23489 Hwy 43	Rail, Roadway, Community/Household	71.7
LT-76	City of Hanford	7370 Kansas Ave	Roadway, Community/Household, Dogs/Birds	72.6
LT-77	City of Hanford	7549 Kansas Ave	Roadway, Community/Household	54.3
LT-78	City of Hanford	7685 Kansas Ave	Roadway, Community/Household	71
LT-79	City of Hanford	7520 Kent Ave	Roadway, Aircraft, Community/Household, Dogs/Birds	57.8
LT-80	City of Hanford	7290 Kent Ave	Rail, Roadway, Community/Household, Dogs/Birds	55.7
LT-81	City of Hanford	7530 Jersey Ave	Roadway, Community/Household, Dogs/Birds	57.3
LT-82	City of Hanford	15664 7th Ave	Roadway, Community/Household, Dogs/Birds	58.5
LT-83	City of Hanford	7577 Jackson Ave	Roadway, Community/Household	58.9
LT-84	City of Hanford	14976 7th Ave at Jackson	Rail, Roadway, Community/Household	58
LT-85	City of Hanford	14419 8th Ave	Roadway, Community/Household	55.5
LT-86	City of Hanford	7025 Idaho St	Roadway, Industrial/Commercial, Community/Household	65.2
LT-87	City of Hanford	7343 Houston	Roadway, Community/Household	67.9
LT-88	City of Hanford	7740 Houston	Roadway, Aircraft, Industrial/Commercial, Community/Household	64.9
LT-89	City of Hanford	7480 Hanford–Armona Rd	Roadway, Aircraft, Community/Household	57.9
LT-90	City of Hanford	7818 Hanford–Armona Rd	Roadway, Aircraft, Community/Household, Dogs/Birds	58.3
LT-91	City of Hanford	10535 8th Ave	Roadway, Aircraft, Community/Household, Dogs/Birds	52.3

Table 3.4A-1
 Long-Term Existing Noise Measurements

Site	City/County	Address	Contributing Noise Source	Ldn (dBA)
LT-92	City of Hanford	9944 Ponderosa	Roadway, Industrial/Commercial, Community/Household, Dogs/Birds	60.2
LT-93	City of Hanford	9724 Ponderosa	Roadway, Aircraft, Community/Household, Dogs/Birds	55.3
LT-94	City of Hanford	7794 Grangeville Blvd	Roadway, Community/Household, Dogs/Birds	56
LT-95	City of Hanford	7974 Grangeville Blvd	Roadway, Community/Household	60.4
LT-96	City of Hanford	8791 8th Ave	Roadway, Community/Household	59.5
LT-97	City of Hanford	8361 Flint	Roadway, Aircraft, Industrial/Commercial, Community/Household, Dogs/Birds	55.3
LT-98	City of Hanford	8290 Flint	Roadway, Community/Household	56
LT-99	City of Hanford	7895 Fargo	Roadway, Aircraft, Community/Household, Dogs/Birds	58.5
LT-100	City of Hanford	7755 Fargo	Rail, Roadway, Aircraft, Community/Household, Dogs/Birds	60.6
LT-101	City of Hanford	6141 8-1/2 Ave	Roadway, Industrial/Commercial, Community/Household, Dogs/Birds	49.6
LT-102	City of Hanford	8352 Elder	Roadway, Community/Household	48.8
LT-103	City of Hanford	8125 Elder	Roadway, Community/Household	46.7
LT-104	City of Hanford	8813 Excelsior	Aircraft, Community/Household, Dogs/Birds	63
LT-105	City of Hanford	4490 9th Ave	Roadway, Community/Household, Dogs/Birds	57.5
LT-106	City of Hanford	3739 9-1/2 Ave	Community/Household, Dogs/Birds	49.9
LT-107	City of Hanford	10560 Denver	Rail, Roadway, Community/Household, Dogs/Birds	53.8

Table 3.4A-1
 Long-Term Existing Noise Measurements

Site	City/County	Address	Contributing Noise Source	Ldn (dBA)
LT-108	County of Fresno	3127 10-1/2 Ave	Industrial/Commercial, Community/Household, Dogs/Birds	50.6
LT-109	County of Fresno	2853 Boundary Rd	Roadway, Community/Household, Dogs/Birds	61.3
LT-110	County of Fresno	8066 E. Riverdale	Roadway, Industrial/Commercial, Community/Household, Dogs/Birds	63.1
LT-111	County of Fresno	5606 Davis	Roadway, Aircraft, Community/Household, Dogs/Birds	56.9
LT-112	County of Fresno	5083 E. Elkhorn	Roadway, Community/Household, Dogs/Birds	63.5
LT-113	County of Fresno	16257 S. Minnewawa	Aircraft, Community/Household, Dogs/Birds	63.7
LT-114	County of Fresno	4224 Clarkson	Rail, Community/Household	66.3
LT-115	County of Fresno	15521 Peach	Rail, Roadway, Community/Household, Dogs/Birds	74.1
LT-116	County of Fresno	14474 Willow	Rail, Community/Household, Dogs/Birds	63.7
LT-117	County of Fresno	3289 Kamm	Rail, Roadway, Community/Household	64.5
LT-118	County of Fresno	13198 Chestnut	Rail, Roadway, Community/Household, Dogs/Birds	70.2
LT-119	City of Fresno	2313 Mountain View	Rail, Roadway, Community/Household, Dogs/Birds	67.6
LT-120	City of Fresno	2960 E. Nebraska	Rail, Roadway, Industrial/Commercial, Community/Household, Dogs/Birds	77
LT-121	City of Fresno	2625 E. Rose	Rail, Roadway, Community/Household, Dogs/Birds	65.8
LT-122	City of Fresno	2530 E. Floral	Rail, Roadway, Community/Household	75.1
LT-123	City of Fresno	2311 Dinuba	Rail, Community/Household, Dogs/Birds	64.4
LT-124	City of Fresno	2342 E. Springfield	Rail, Community/Household, Dogs/Birds	70.2

Table 3.4A-1
 Long-Term Existing Noise Measurements

Site	City/County	Address	Contributing Noise Source	Ldn (dBA)
LT-125	City of Fresno	8179 S. Maple	Rail, Roadway, Community/Household	58.1
LT-126	City of Fresno	2047 E. Adams	Rail, Grade Crossing, Roadway, Community/Household	66.8
LT-127	City of Fresno	2070 Clayton	Rail, Grade Crossing, Roadway, Community/Household	65.9
LT-128	City of Fresno	5511 S. Maple	Roadway, Industrial/Commercial, Community/Household	64.9
LT-129	City of Fresno	2235 Malaga	Rail, Roadway, Community/Household, Dogs/Birds	79.3
LT-130	City of Fresno	2109 Malaga	Rail, Roadway, Community/Household	69.4
LT-132	City of Fresno	2366 S. Grace	Rail, Roadway, Community/Household	75.2
LT-133	City of Fresno	2201 Nicholas Ave	Roadway, Community/Household	70.8
LT-134	City of Fresno	205 F St	Roadway, Community/Household	68.5
LT-135	City of Fresno	158 N. Roosevelt	Roadway, Community/Household	69
LT-136	City of Fresno	239 N. Ferger	Roadway, Community/Household	68.3
LT-137	City of Fresno	718 Arthur Ave	Roadway, Community/Household	71.8
LT-138	City of Fresno	425 N. Westley	Rail, Roadway, Community/Household	61.8
LT-139	City of Fresno	937 N. Fruit Ave	Roadway, Community/Household	68.8
LT-140	City of Fresno	1219 Esther	Roadway, Community/Household	72.1
LT-141	City of Fresno	1286 Esther	Roadway, Community/Household	66.3
LT-142	City of Fresno	1941 N. Golden State Hwy	Rail, Roadway, Community/Household	73.2
LT-143	City of Fresno	1647 W. Normal	Rail, Roadway, Community/Household	71.6
LT-144	City of Fresno	1415 W. McKinley	Rail, Grade Crossing, Roadway, Community/Household	77.3

Table 3.4A-1
 Long-Term Existing Noise Measurements

Site	City/County	Address	Contributing Noise Source	Ldn (dBA)
LT-145	City of Shafter	18455 Driver Rd	Community/Household	57.2
LT-146	City of Shafter	16455 Shafter Rd	Roadway, Community/Household	55.3
LT-147	City of Shafter	2502 Zachary Ave	Roadway, Community/Household	57.8
LT-148	City of Wasco	Unnamed Road - Between Gromer Ave and McCombs Ave	Roadway, Community/Household	61.4
LT-149	City of Wasco	Corner of 6th St and Root Ave	Roadway, Community/Household	55.1
LT-150	City of Fresno	1636 Broadway	Roadway, Community/Household	61
LT-151	City of Fresno	517 Farris	Roadway, Community/Household	67.5
LT-152	City of Fresno	1503 C St	Roadway, Community/Household	64.2
LT-153	City of Fresno	635 Fresno St at Pottle	Roadway, Community/Household	64.5
LT-154	City of Fresno	1127 Tulare St	Roadway, Community/Household	64.6
LT-155	City of Fresno	1105 Kern St	Roadway, Community/Household	62.8
LT-156	City of Fresno	248 N. Van Ness Ave	Roadway, Community/Household	60.9
LT-157	City of Fresno	310 N. Fulton St at Mildreda Ave	Roadway, Community/Household	66.4
LT-158	City of Fresno	405 Effie	Roadway, Aircraft, Community/Household, Dogs/Birds	67.1
LT-159	City of Bakersfield	415 Delores	Rail, Roadway, Community/Household	63.1
LT-160	City of Bakersfield	725 Eureka St	Roadway, Community/Household	59.4
LT-161	City of Bakersfield	1306 E. 19th Ave	Rail, Roadway, Community/Household	68.3
LT-162	City of Bakersfield	1430 Eureka	Rail, Roadway, Community/Household	58.1

Table 3.4A-1
 Long-Term Existing Noise Measurements

Site	City/County	Address	Contributing Noise Source	Ldn (dBA)
LT-163	City of Bakersfield	1054 Washington St	Rail, Roadway, Community/Household	66.1
LT-164	City of Bakersfield	827 Chico St at Beale Ave	Roadway, Community/Household	61.8
LT-165	City of Bakersfield	1414 11th St	Rail, Roadway, Community/Household	63.2
LT-166	City of Bakersfield	2126 Larcus St	Roadway, Community/Household	61
LT-167	City of Bakersfield	1106 Quantico St	Rail, Roadway, Community/Household	59.1
LT-168	City of Bakersfield	2900 Citrus Ave	Rail, Roadway, Community/Household	61.2
LT-169	City of Bakersfield	2001 Kentucky St	Rail, Roadway, Community/Household	66.3
LT-170	City of Bakersfield	2333 Center St	Rail, Roadway, Community/Household	63.5
LT-171	City of Bakersfield	2619 Trust St	Rail, Roadway, Community/Household	62.5
LT-172	City of Bakersfield	2903 Pioneer Dr (Edison Village)	Rail, Roadway, Community/Household	57.4
LT-173	City of Bakersfield	721 Oswell St (Black & White Mobile Home Lodge)	Rail, Roadway, Community/Household	71.1
LT-174	City of Bakersfield	3309 Camellia St	Rail, Roadway, Community/Household	70.2
LT-175	City of Bakersfield	301 Cooley Dr	Rail, Roadway, Community/Household	72.3
LT-176	City of Bakersfield	6601 Eucalyptus Dr	Rail, Roadway, Community/Household	60.4
LT-177	City of Bakersfield	706 Zinara St	Rail, Community/Household	67.4
LT-178	City of Bakersfield	4312 Deacon	Roadway, Community/Household	61.1
LT-179	City of Bakersfield	250 Fairfax Rd (Bakersfield Palms RV Resort)	Rail, Roadway, Community/Household	66.6
LT-180	City of Bakersfield	7749 Mills Dr	Rail, Roadway, Community/Household, Dogs/Birds	64.6

Table 3.4A-1
 Long-Term Existing Noise Measurements

Site	City/County	Address	Contributing Noise Source	Ldn (dBA)
LT-181	City of Bakersfield	426 Monica St	Rail, Community/Household	65.8
LT-182	City of Bakersfield	8633 E. Brundage Lane	Rail, Roadway, Community/Household	68.1
LT-183	City of Bakersfield	9307 Brillow Dr	Rail, Roadway, Community/Household	61.7
LT-184	City of Bakersfield	355 S. Vineland Rd	Rail, Grade Crossing, Roadway, Community/Household	66
LT-185	City of Bakersfield	963 Buna Lane	Rail, Roadway, Community/Household	65.9
LT-186	City of Bakersfield	12252 Atlantic St	Rail, Roadway, Community/Household	65.6
LT-187	City of Bakersfield	1660 Pine St at Truxtun Ave	Rail, Roadway, Community/Household	66.8
LT-188	City of Bakersfield	2009 California St	Roadway, Community/Household, Children Playing	69.7
LT-189	City of Bakersfield	701 Oleander Ave	Roadway, Community/Household	60.5
LT-190	City of Bakersfield	301 A St at 3rd St	Roadway, Community/Household	62.3
LT-191	City of Bakersfield	1621 6th St	Roadway, Community/Household	68.6
LT-192	City of Bakersfield	1015 O St (Corner of N and 11th)	Roadway, Community/Household	63.8
LT-193	City of Bakersfield	906 3rd St (Corner of P and 3rd)	Roadway, Community/Household	69
LT-194	City of Bakersfield	200 Texas St (Corner of Texas and King)	Roadway, Community/Household	64.6
LT-197	City of Bakersfield	2311 19th St	Roadway, Community/Household, Dogs/Birds	67.8
LT-198	City of Bakersfield	2323 Spruce	Roadway, Community/Household	71.3
LT-199	City of Bakersfield	2330 21st St	Roadway, Community/Household	65.9
LT-200	City of Bakersfield	528 Monterey	Roadway, Community/Household	63.8
LT-201	City of Laton	19948 S. Fowler Ave	Rail, Roadway, Community/Household	66.2

Table 3.4A-1
 Long-Term Existing Noise Measurements

Site	City/County	Address	Contributing Noise Source	Ldn (dBA)
LT-202	City of Laton	21030 S. Fowler Ave	Rail, Roadway, Community/Household	67.4
LT-203	City of Hanford	4767 12th Ave	Rail, Community/Household	62.1
LT-204	City of Hanford	2264 N. Heron Dr	Rail, Roadway, Community/Household	70.7
LT-205	City of Hanford	2098 N. Heron Dr	Rail, Roadway, Community/Household	71.1
LT-206	City of Hanford	444 Ford St	Rail, Roadway, Community/Household	77.3
LT-207	City of Hanford	807 W. 7th St	Rail, Roadway, Community/Household	60.5
LT-208	City of Hanford	18026 10th Ave	Rail, Community/Household	76.5
LT-209	City of Hanford	2043 Kings Rd	Rail, Community/Household	68.9
LT-210	City of Hanford	1005 W. Water St	Rail, Community/Household	70.5
LT-211	City of Hanford	10833 Malta St	Rail, Community/Household	67
LT-212	City of Hanford	502 Phillips St	Rail, Roadway, Community/Household	70.4
LT-213	City of Hanford	1125 Rodgers Rd	Rail, Roadway, Community/Household	65.8
LT-214	City of Hanford	1515 Thornton St	Rail, Roadway, Community/Household	73.6
LT-215	City of Hanford	410 Scott St	Rail, Community/Household	74
LT-216	City of Hanford	4728 12th Ave	Rail, Community/Household	59.9
LT-217	City of Hanford	4592 12th Ave	Rail, Community/Household	61.5
LT-218	City of Hanford	5671 Letson Ave	Roadway, Community/Household	61.5
LT-219	City of Hanford	5505 E. Mt. Whitney Ave.	Roadway, Community/Household	62.1
LT-220	City of Hanford	21292 Old Kingston Grade	Roadway, Community/Household	58.6

Table 3.4A-1
 Long-Term Existing Noise Measurements

Site	City/County	Address	Contributing Noise Source	Ldn (dBA)
LT-221	City of Hanford	13422 Elder Ave	Roadway, Community/Household	47.6
LT-222	City of Hanford	8600 13th Street	Roadway, Community/Household	61.2
LT-223	City of Hanford	13314 Grangeville Blvd	Roadway, Community/Household	63.2
LT-224	City of Hanford	12864 13th Ave	Roadway, Community/Household	75.5
LT-225	City of Hanford	11093 13th Ave	Roadway, Community/Household	62.9
LT-226	City of Hanford	12659 Hanford Armona	Roadway, Community/Household	69.3
LT-227	City of Hanford	12629 Hanford Armona	Roadway, Community/Household	56.6
LT-228	City of Hanford	12030 Iona Ave	Roadway, Community/Household	58.6
LT-229	City of Hanford	9930 Kansas Ave	Roadway, Community/Household	70.8
LT-230	City of Bakersfield	806 E. 19 th St.	Roadway, Community/Household	64.4

Source: URS/HMM/Arup Joint Venture, Fresno to Bakersfield Noise and Vibration Technical Report (Oakland, CA: URS Corporation, May 2010).

Acronyms:

dBA = A-weighted decibel(s)
 Ldn = day-night sound level
 LT = long-term

Table 3.4A-2
 Short-Term Existing Noise Measurement and Estimates

Site	City/County	Address	Contributing Noise Source	Measured Leq (dBA)	Estimated Ldn (dBA)
ST-1	Bakersfield	Bakersfield High School (14th and F St)	Rail, Roadway, Aircraft, Children Playing, Dogs/Birds	59.5	69.1
ST-2	Bakersfield	2215 Truxtun Ave	Rail, Roadway, Aircraft	77.8	79.9
ST-3	Bakersfield	Intersection of Myrtle and California	Roadway, Community/Household, Dogs/Birds	71.4	72.1
ST-4	Bakersfield	Jastro Park	Roadway, Community/Household	68.7	71.2
ST-5	Bakersfield	Beale Memorial Library (701 Truxtun Ave)	Rail, Roadway, Dogs/Birds	57.8	67.7
ST-6	Bakersfield	Franklin Elementary School (2400 Truxtun Ave)	Rail, Roadway, Aircraft, Community/Household	65	68.8
ST-7	Bakersfield	1109 Harvest Creek	Roadway, Aircraft, Community/Household, Dogs/Birds	64.9	69.0
ST-8	Bakersfield	8600 Lyn River	Roadway, Aircraft, Community/Household	67.4	71.4
ST-9	Bakersfield	Jewetta Ave (Suncrest RV Park)	Rail, Roadway, Community/Household	59.8	64.2
ST-10	Bakersfield	2050 Verdugo La	Rail, Roadway, Community/Household, Dogs/Birds	57	68.8
ST-11	Bakersfield	2001 Dean Ave	Rail, Roadway, Community/Household, Dogs/Birds	55.3	54.3
ST-12	Bakersfield	3209 Nebula Court	Rail, Aircraft, Community/Household, Dogs/Birds	58.5	59.5
ST-13	Bakersfield	4408 Allen Rd	Rail, Grade Crossing, Roadway, Community/Household, Dogs/Birds	74.7	75.7
ST-14a	Bakersfield	14527 Palm Ave	Rail, Grade Crossing, Roadway, Aircraft, Community/Household	53.4	65.9
ST-14b	Bakersfield	14527 Palm Ave	Rail, Grade Crossing, Roadway, Aircraft, Community/Household	49	64.1

Table 3.4A-2
 Short-Term Existing Noise Measurement and Estimates

Site	City/County	Address	Contributing Noise Source	Measured Leq (dBA)	Estimated Ldn (dBA)
ST-15	Bakersfield	13017 Hageman Frontage Rd	Roadway, Aircraft, Community/Household, Dogs/Birds	65.8	78.4
ST-16	Bakersfield	Frontier High School (6401 Allen Rd)	Rail, Grade Crossing, Roadway, Aircraft, Children Playing	43.8	58.9
ST-17	Bakersfield	Pentecostal Church of God + house (32186 7th Standard)	Rail, Grade Crossing, Roadway, Community/Household	66.6	78.1
ST-18	Bakersfield	19441 Santa Fe Rd	Rail, Grade Crossing, Roadway, Community/Household	71.6	83
ST-19	Shafter	31363 Orange St	Rail, Grade Crossing, Community/Household, Dogs/Birds	46.7	61.2
ST-20	Shafter	18631 Santa Fe Rd	Rail, Grade Crossing, Roadway, Community/Household, Dogs/Birds	52.8	67.3
ST-21	Shafter	1240 Los Angeles	Rail, Grade Crossing, Roadway, Community/Household	57.1	65.8
ST-22	Shafter	455 E. Ash	Rail, Grade Crossing, Roadway, Community/Household	58	66.7
ST-23	Shafter	511 Jackson	Rail, Grade Crossing, Roadway, Children Playing	68.3	69.6
ST-24	Shafter	Shafter High School (526 Mannel Ave)	Rail, Grade Crossing, Roadway, Children Playing	60.2	68.3
ST-25	Wasco	29600 Kimberlina	Rail, Grade Crossing, Community/Household	42.5	48.2
ST-26	Wasco	29895 Merced Ave	Rail, Grade Crossing, Roadway, Community/Household	72	72.7

Table 3.4A-2
 Short-Term Existing Noise Measurement and Estimates

Site	City/County	Address	Contributing Noise Source	Measured Leq (dBA)	Estimated Ldn (dBA)
ST-27	Wasco	715 Mayer Lane	Rail, Grade Crossing, Roadway, Community/Household, Children Playing, Dogs/Birds	68.1	72.5
ST-28	Wasco	Redwood Elementary School (331 Shafter Ave)	Rail, Grade Crossing, Roadway	64.2	70.7
ST-29	Wasco	397 Fresno Ave	Roadway, Aircraft, Dogs/Birds	58	64.4
ST-30	Wasco	Prospect and Hwy 43	Rail, Grade Crossing, Roadway	63.6	69
ST-31	Wasco	Kimberlina	Rail, Roadway, Dogs/Birds	63.3	68.7
ST-32	Wasco	Theresa Burke Elementary School (Filburn and Griffith, Wasco)	Rail, Roadway, Aircraft, Community/Household, Children Playing	56.2	61.8
ST-33	Wasco	15848 Griffith Ave	Rail, Roadway, Aircraft, Community/Household, Children Playing, Dogs/Birds	42.7	48.2
ST-34	Wasco	4th St at F St	Rail, Roadway, Aircraft, Industrial/Commercial, Children Playing	69	70.9
ST-35	Wasco	Wasco Child Development Center (764 H St)	Rail, Grade Crossing, Roadway	67.4	69.3
ST-36	Wasco	St. Johns School (9th St at Broadway)	Rail, Roadway Community/Household, Children Playing, Dogs/Birds	60.6	66.7
ST-37	Wasco	Filburn Ave	Rail, Roadway, Community/Household, Dogs/Birds	38.1	57.81
ST-38	Wasco	Karl F. Clemens Middle School (5th St at Broadway)	Rail, , Roadway, Aircraft, Community/Household, Children Playing, Dogs/Birds	63.3	67.4
ST-39	Wasco	Thomas Jefferson Middle School (Griffith at 1st St)	Rail, Roadway, Children Playing, Dogs/Birds	57.9	63

Table 3.4A-2
 Short-Term Existing Noise Measurement and Estimates

Site	City/County	Address	Contributing Noise Source	Measured Leq (dBA)	Estimated Ldn (dBA)
ST-40	Wasco	Gromer Ave at Annin St	Rail, Grade Crossing, Roadway, Community/Household, Dogs/Birds	60.4	65.6
ST-41	Wasco	Hwy 43 at Taussig Ave	Rail, Roadway, Dogs/Birds	64.9	72.4
ST-42	Wasco	28994 Taussig Ave	Roadway, Aircraft, Community/Household	62.2	69.6
ST-43	Wasco	28998 Blankenship Ave	Rail, Dogs/Birds	49.5	55
ST-44	Wasco	29398 Blankenship Ave	Rail, Roadway, Community/Household	49.8	55.4
ST-45	Wasco	29370 Peterson Rd	Rail, Roadway, Community/Household, Dogs/Birds	60.2	65.7
ST-46	Wasco	29380 Elmo near Hwy 43	Roadway	55.5	66.9
ST-47	Wasco	29160 Pond Rd	Rail, Roadway, Dogs/Birds	69	69.9
ST-48	Wasco	11815 Pond Rd, Wasco	Rail, Roadway, Children Playing, Dogs/Birds	58.3	64.9
ST-49	Shafter	31793 Riverside St	Roadway, Aircraft, Community/Household, Dogs/Birds	53.6	45.4
ST-50	Shafter	18455 Driver Rd	Roadway, Aircraft, Community/Household, Dogs/Birds	55.5	47.3
ST-51	Shafter	Fresno Ave	Rail, Roadway, Community/Household, Children Playing	59.7	66
ST-52	Shafter	Field at corner of Beech and Canal	Rail, Roadway, Community/Household, Children Playing	43.9	50.1
ST-53	Shafter	30998 Fresno Ave	Rail, Aircraft, Community/Household, Dogs/Birds	56.5	61.3
ST-54	Shafter	1740 Beech	Roadway, Aircraft, Community/Household, Dogs/Birds	61.6	66.4

Table 3.4A-2
 Short-Term Existing Noise Measurement and Estimates

Site	City/County	Address	Contributing Noise Source	Measured Leq (dBA)	Estimated Ldn (dBA)
ST-55	Shafter	350 Pine St	Rail, Roadway, Community/Household, Dogs/Birds	55.4	62.1
ST-56	Shafter	1190 Weyand Way at State St	Rail, Aircraft, Dogs/Birds	73.3	62.1
ST-57	Shafter	31145 Fresno	Rail, Roadway, Aircraft	52.3	62.1
ST-58	Shafter	17431 Mannel Ave	Roadway, Community/Household, Dogs/Birds	52.7	62.1
ST-59	Shafter	Mannel Ave	Rail, Roadway, Industrial/Commercial, Community/Household, Dogs/Birds	54.7	64.1
ST-60	Shafter	Shafter Ave	Rail, Roadway, Community/Household, Dogs/Birds	57.1	57.5
ST-61	Shafter	17413 Mettler	Rail, Roadway, Aircraft, Dogs/Birds	52.4	52.8
ST-62	Shafter	155 Redwood Dr	Roadway, Aircraft	54.8	61.3
ST-63	Shafter	100 Walker St (Behind Shafter Museum)	Rail, Roadway, Dogs/Birds	67.7	74.1
ST-64	Shafter	Merced Ave	Roadway	63.6	65.6
ST-65	Shafter	Unknown	Roadway, Children Playing	55	58.6
ST-66	Shafter	17052 Shafter Ave	Rail, Roadway, Community/Household	45	51.4
ST-67	Shafter	Merced Ave	Rail, Roadway, Community/Household, Dogs/Birds	55.3	61.7
ST-68	Shafter	30345 Merced Ave	Roadway	60.8	59.1
ST-69	Shafter	Merced Ave	Roadway, Aircraft Community/Household, Dogs/Birds	60.2	66.6
ST-70	Shafter	30749 Merced	Community/Household	59.1	65.9
ST-71	Shafter	29140 Schuster Rd	Rail, Roadway, Community/Household	47.7	66.71

Table 3.4A-2
 Short-Term Existing Noise Measurement and Estimates

Site	City/County	Address	Contributing Noise Source	Measured Leq (dBA)	Estimated Ldn (dBA)
ST-72	Wasco	Schuster Rd	Rail, Roadway, Dogs/Birds	60.2	65.4
ST-73	Wasco	11242 Hwy 43	Roadway, Children Playing	68.1	72.2
ST-74	Wasco	Schuster Rd	Roadway	62.9	66.9
ST-75	Wasco	28994 Garces Hwy	Rail, Roadway, Community/Household	60	65.3
ST-76	Wasco	28820 Garces Hwy	Rail, Roadway, Dogs/Birds	65.9	61.5
ST-77	Earlimart	2990 Road 84	Roadway, Aircraft, Community/Household, Children Playing, Dogs/Birds	49	51.3
ST-78	Earlimart	8830 Avenue 24	Rail, Grade Crossing, Roadway, Dogs/Birds	63.2	65.6
ST-79	Earlimart	Avenue 32	Roadway, Aircraft, Dogs/Birds	47.4	68.71
ST-80	Earlimart	3442 Road 84	Rail, Roadway, Dogs/Birds	53.7	64.5
ST-81	Earlimart	4011 Road 84	Rail, Grade Crossing, Roadway, Industrial/Commercial	64.4	71.2
ST-82	Earlimart	3764 Road 84	Rail, Roadway, Community/Household	58.4	65.1
ST-83a	Corcoran	Avenue 108	Rail, Roadway, Community/Household, Dogs/Birds	52.5	57.4
ST-83b	Corcoran	Avenue 108	Rail, Roadway, Dogs/Birds	53.4	62.4
ST-84	Corcoran	11200 Hwy 43 at Avenue 112	Rail, Grade Crossing, Roadway, Aircraft, Dogs/Birds	47.8	62.4
ST-85	Wasco	28794 Shuster Ave, Wasco	Roadway, Community/Household, Dogs/Birds	53.8	59.8
ST-86	Wasco	Schuster Rd near Palm Ave	Rail, Roadway, Dogs/Birds	41.8	60.9
ST-87	Wasco	28384 Garces Hwy	Roadway, Dogs/Birds	65.3	70.3

Table 3.4A-2
 Short-Term Existing Noise Measurement and Estimates

Site	City/County	Address	Contributing Noise Source	Measured Leq (dBA)	Estimated Ldn (dBA)
ST-88	Wasco	11237 Magnolia	Roadway, Industrial/Commercial, Children Playing, Dogs/Birds	58.6	63.5
ST-89	Earlimart	3141 Avenue 36	Rail, Grade Crossing, Roadway, Dogs/Birds	41.4	59.5
ST-90	Corcoran	14942 Hwy 43	Rail, Roadway, Aircraft	60.7	68.2
ST-91	Corcoran	710 Hanna Ave	Rail, Roadway, Community/Household, Dogs/Birds	61.2	69.9
ST-92	Corcoran	747 Hall Ave	Rail, Roadway, Industrial/Commercial, Dogs/Birds	59.8	68.5
ST-93	Corcoran	1000 Paterson	Rail, Roadway	70	78.4
ST-94	Corcoran	614 Otis (Kings Mobile Lodge)	Rail, Roadway, Dogs/Birds	70.3	78.4
ST-95	Corcoran	Hale St at North Ave	Roadway, Dogs/Birds	60.7	62
ST-96	Corcoran	6269 Newark Rd	Rail, Roadway, Dogs/Birds	49.3	61.6
ST-97	Corcoran	320 Otis	Rail, Grade Crossing, Roadway, Community/Household, Dogs/Birds	64.5	76.8
ST-98	Corcoran	23756 5th Avenue	Roadway, Dogs/Birds	59.4	62.6
ST-99	Corcoran	306 5th Avenue	Rail, Roadway, Community/Household	54.5	57.7
ST-100	Corcoran	5th Avenue at Niles Rd	Roadway	43.4	49.5
ST-101	Corcoran	23261 5th Ave	Rail, Roadway, Aircraft, Community/Household, Dogs/Birds	46.9	47.3
ST-102	Corcoran	23340 5-1/2 Ave	Rail, Roadway, Community/Household, Dogs/Birds	61.8	62.2
ST-103	Hanford	22075 8th Avenue	Roadway, Dogs/Birds	55.7	59.4

Table 3.4A-2
 Short-Term Existing Noise Measurement and Estimates

Site	City/County	Address	Contributing Noise Source	Measured Leq (dBA)	Estimated Ldn (dBA)
ST-104	Hanford	7603 Kent Avenue	Rail, Roadway, Aircraft, Community/Household, Dogs/Birds	54.8	60.2
ST-105	Hanford	16299 7th Ave	Rail, , Roadway, Aircraft, Community/Household	59.6	60.5
ST-106	Hanford	16680 7th Ave	Roadway, Aircraft, Community/Household	59.6	60.5
ST-107	Hanford	12051 8th Avenue at Hwy 43	Roadway, Community/Household	57.8	58.7
ST-108	Hanford	13320 7th Ave	Roadway, Aircraft, Community/Household, Dogs/Birds	52.2	57.2
ST-109	Hanford	13012 7th Ave	Roadway, Aircraft, Dogs/Birds	55.2	60.2
ST-110	Hanford	7696 Grangeville Rd	Roadway, Aircraft, Dogs/Birds	52.6	59.7
ST-111	Hanford	8229 Flint Ave	Rail, Roadway, Community/Household, Dogs/Birds	55.2	58.8
ST-112	Hanford	7746 Fargo	Roadway, Aircraft, Industrial/Commercial, Dogs/Birds	52.5	58
ST-113	Hanford	7968 Fargo	Rail, Roadway, Community/Household, Dogs/Birds	51.7	56
ST-114	Hanford	3295 10th Ave	Roadway	65.4	68
ST-115	Selma	Clarkson	Rail, Roadway, Dogs/Birds	58.6	59.2
ST-115b	Selma	16495 Minnewawa	Rail, Roadway	55.4	61.9
ST-116	Selma	14677 South Willow	Rail, Aircraft, Community/Household, Dogs/Birds	53.2	58.6
ST-117	Selma	2136 Rose Ave	Rail, Roadway, Aircraft, Community/Household, Dogs/Birds	62.6	65.3

Table 3.4A-2
 Short-Term Existing Noise Measurement and Estimates

Site	City/County	Address	Contributing Noise Source	Measured Leq (dBA)	Estimated Ldn (dBA)
ST-118	Fresno	Monroe Elementary School (on Chestnut)	Roadway, Industrial/Commercial, Dogs/Birds	58.7	64.1
ST-119	Fresno	12382 Chestnut	Rail, Roadway, Community/Household	56.7	62.2
ST-120	Fresno	8254 Cedar	Rail, Roadway, Aircraft, Community/Household, Dogs/Birds	53.6	58.6
ST-121	Fresno	Pacific Union Elementary School (Corner of Rowell and Bowles)	Rail, Roadway, Community/Household, Dogs/Birds	55.6	60.7
ST-122	Fresno	2419 Manning Ave	Roadway, Community/Household, Dogs/Birds	63.2	70.2
ST-123	Fresno	2189 East Morton	Rail, Roadway, Aircraft, Dogs/Birds	65.2	60.9
ST-124	Fresno	2120 American	Rail, Roadway, Aircraft, Dogs/Birds	64.1	66.2
ST-125	Fresno	2097 Jefferson	Rail, Roadway, Community/Household, Dogs/Birds	66	61.6
ST-126	Fresno	4199 Cedar Ave	Roadway, Community/Household, Dogs/Birds	63.6	68.9
ST-127	Fresno	2233 Church St	Rail, Roadway, Aircraft, Industrial/Commercial	63.5	66.8
ST-128	Fresno	1814 H St	Rail, Roadway, Aircraft	57.1	59.4
ST-129	Fresno	Motel Drive at Olive St (Roeding Park)	Rail, Roadway, Dogs/Birds	61.4	68.6
ST-130	Fresno	704 Adeline Ave	Rail, Roadway, Community/Household, Dogs/Birds	55.6	59.7
ST-131	Fresno	1636 Broadway	Rail, Roadway, Aircraft, Industrial/Commercial, Community/Household	59.7	63.9

Table 3.4A-2
 Short-Term Existing Noise Measurement and Estimates

Site	City/County	Address	Contributing Noise Source	Measured Leq (dBA)	Estimated Ldn (dBA)
ST-132	Fresno	660 F St	Rail, Industrial/Commercial, Community/Household	60	63.7
ST-133	Fresno	852 Divisadero (Iron Bird Lofts)	Rail, Roadway, Aircraft, Industrial/Commercial, Community/Household	55.4	60.7
ST-134	Fresno	1383 N. Golden State Blvd (Town House Motel)	Rail, Roadway, Industrial/Commercial	56.2	62.3
ST-135	Fresno	1436 University Ave	Roadway, Aircraft, Industrial/Commercial	55.8	68.6
ST-136	Fresno	1631 Weldon Ave	Rail Roadway Community/Household Dogs/Birds	54.6	58.3
ST-137	Fresno	1224 University	Rail, Roadway	58.2	58.2
ST-138	Fresno	1125 West Ave or Northwest Ave	Roadway, Community/Household, Dogs/Birds	56.9	66.7
ST-139	Fresno	Fremont Elementary School (University Ave)	Rail, Roadway, Community/Household, Children Playing	55.8	65.5
ST-140	Fresno	530 W. Florida Ave	Rail, Roadway, Community/Household, Dogs/Birds	53.9	66.1
ST-141	Shafter	31793 Riverside St	Rail, Roadway, Community/Household, Dogs/Birds	48.1	54
ST-142	Shafter	16819 N. Shafter Ave	Roadway, Industrial/Commercial, Community/Household	59.2	68.2
ST-143	Shafter	29577 Poso Drive	Rail, Roadway, Aircraft, Community/Household, Dogs/Birds	53	62.4
ST-144	Fresno	Bethel Temple Church (1224 Kern St)	Roadway, Aircraft, Industrial/Commercial, Dogs/Birds	60.9	66.9

Table 3.4A-2
 Short-Term Existing Noise Measurement and Estimates

Site	City/County	Address	Contributing Noise Source	Measured Leq (dBA)	Estimated Ldn (dBA)
ST-145	Fresno	Buddhist Temple (1129 Tulane)	Rail, Roadway, Aircraft, Industrial/Commercial, Dogs/Birds	56.9	61.4
ST-146	Fresno	La Vena's Educational Center (1015 Fresno St)	Roadway, Industrial/Commercial	68.4	71.2
ST-147	Fresno	School ground on Stanislaus St	Rail, Roadway, Community/Household, Children Playing, Dogs/Birds	58	59.6
ST-148	Fresno	Park at corner of Amador and C St	Roadway, Dogs/Birds	60.1	61.8
ST-149	Fresno	Glory Bound Ministries (916 Waterman at Kern St)	Rail, Roadway, Aircraft, Community/Household, Dogs/Birds	58.8	61.1
ST-150	Fresno	Boys and Girls Club (930 Tulare St at Mayor)	Rail, Roadway, Aircraft, Community/Household, Dogs/Birds	57.5	59.3
ST-151	Fresno	Life Ministries (552 Tuolumne St)	Rail, Roadway, Aircraft, Dogs/Birds	65.2	66.7
ST-152	Fresno	1904 McKenzie	Rail, Roadway, Aircraft, Community/Household	67.3	73.8
ST-153	Fresno	472 Calaveras	Rail, Roadway, Industrial/Commercial, Dogs/Birds	59.4	65.7
ST-154	Fresno	313 Blackstone	Roadway, Community/Household	61.5	63.1
ST-155	Fresno	1225 Divisadero St at Poplar Ave	Rail, Roadway, Aircraft, Industrial/Commercial, Community/Household	62.2	66.1
ST-156	Fresno	455 Broadway (Broadmont Apartments)	Roadway, Aircraft, Industrial/Commercial	60.8	64
ST-157	Fresno	(West of) 282 San Pablo	Rail, Roadway, Aircraft, Community/Household, Dogs/Birds	61.4	63.5
ST-158	Bakersfield	1227 Miller St	Rail, Roadway, Aircraft, Community/Household, Dogs/Birds	62.2	70.7

Table 3.4A-2
 Short-Term Existing Noise Measurement and Estimates

Site	City/County	Address	Contributing Noise Source	Measured Leq (dBA)	Estimated Ldn (dBA)
ST-159	Bakersfield	Bessie Owens Intermediate School (815 Eureka St at King St)	Rail, Roadway, Dogs/Birds	55	60.4
ST-160	Bakersfield	400 Chico	Rail, Roadway	56.9	62.8
ST-161	Bakersfield	Alpine St	Rail, Roadway, Aircraft, Community/Household	61.7	70.4
ST-162	Bakersfield	Grace Christian Center (231 Beale Avenue at Chico)	Roadway, Community/Household, Children Playing, Dogs/Birds	59.3	64.8
ST-163	Bakersfield	Unknown	Roadway, Children Playing, Dogs/Birds	54.6	59.6
ST-164	Bakersfield	Our Lady of Guadalupe Church (601 E. California Ave)	Roadway, Industrial/Commercial, Dogs/Birds	67.6	73.9
ST-165	Bakersfield	Martin Luther King Jr. Memorial Park; California Veteran Memorial Building (Corner of Owens St and California Ave)	Roadway, Industrial/Commercial, Children Playing, Dogs/Birds	59	63.2
ST-166	Bakersfield	Church (1020 E. California Ave)	Roadway, Aircraft, Dogs/Birds	59.5	63.7
ST-167	Bakersfield	Mt. Vernon Elementary School (2162 Potomac Ave)	Roadway, Children Playing, Dogs/Birds	64.1	68.5
ST-168	Bakersfield	Corner of Exchange St and Steele Ave	Rail, Roadway, Dogs/Birds	59.7	64.1
ST-169	Bakersfield	1241 Ogden	Roadway, Aircraft, Dogs/Birds	60.1	70.8
ST-170	Bakersfield	Potomac Park	Rail, Roadway, Community/Household, Dogs/Birds	60.1	66.4
ST-171	Bakersfield	Corner of Center St and Tauchen St	Rail, Roadway, Dogs/Birds	63.4	69.2
ST-172	Bakersfield	1008 Webster	Aircraft, Dogs/Birds	61.6	67.4
ST-173	Bakersfield	2509 E. California	Rail, Roadway, Community/Household, Dogs/Birds	58.4	65.4

Table 3.4A-2
 Short-Term Existing Noise Measurement and Estimates

Site	City/County	Address	Contributing Noise Source	Measured Leq (dBA)	Estimated Ldn (dBA)
ST-174	Bakersfield	2523 Steele St	Rail, Roadway, Community/Household, Dogs/Birds	62.7	61.3
ST-175	Bakersfield	Lake St	Rail, Roadway	51.3	59.3
ST-176	Bakersfield	612 Descano St	Rail, Roadway, Community/Household, Children Playing	59.5	61.9
ST-177	Bakersfield	Ramon Garza School (2901 Center St)	Rail, Roadway, Children Playing, Dogs/Birds	68.8	71.2
ST-178	Bakersfield	3201 Edison Hwy	Rail, Roadway, Community/Household	72.8	75.2
ST-179	Bakersfield	526 Normandy Way (Corner of Normandy and Sterling)	Roadway, Community/Household, Dogs/Birds	62.7	74.1
ST-180	Bakersfield	3815 Edison	Roadway	66.9	75.2
ST-181	Bakersfield	Virginia Avenue School (3301 Virginia Ave, Bakersfield)	Roadway, Children Playing	59.3	71.3
ST-182	Bakersfield	Unitarian-Universalist Fellowship (Corner of Deacon St and Sterling Rd)	Roadway, Dogs/Birds	54	65.9
ST-183	Bakersfield	317 Sterling	Rail, Roadway, Industrial/Commercial	61	72.9
ST-184	Bakersfield	Foothill High School (501 Park Dr, Bakersfield)	Rail, Roadway, Community/Household, Dogs/Birds	52.4	58.1
ST-185	Bakersfield	The Church of Jesus Christ of Latter Day Saints (851 Monica St)	Roadway, Dogs/Birds	57.3	65.6
ST-186	Bakersfield	300 Royal	Rail, Roadway	61.1	65.8
ST-187	Bakersfield	Edison Middle School (721 Edison Rd, Bakersfield)	Roadway	67.1	76.3
ST-188	Bakersfield	415 Monica St	Community/Household, Dogs/Birds	54.6	63.7

Table 3.4A-2
 Short-Term Existing Noise Measurement and Estimates

Site	City/County	Address	Contributing Noise Source	Measured Leq (dBA)	Estimated Ldn (dBA)
ST-189	Bakersfield	532 Pepper	Rail, Dogs/Birds	60.9	70
ST-190	Bakersfield	Penn Elementary School (2201 San Emidio St)	Rail, Roadway, Community/Household, Dogs/Birds	53.1	63
ST-191	Bakersfield	3131 Truxtun Ave—Corner of Oak St and Truxtun Ave	Roadway	71.5	75.7
ST-192	Bakersfield	3114 Chester Lane	Roadway, Industrial/Commercial	63.6	65.7
ST-193	Bakersfield	Beale Park (Corner of Dracena St and Oleander Ave)	Roadway, Community/Household, Dogs/Birds	57.2	66.8
ST-194	Bakersfield	Church of the Brethren (2471 Palm St at A St)	Roadway, Children Playing	66.1	67.5
ST-195	Bakersfield	1608 E St	Rail, Roadway, Aircraft, Community/Household, Dogs/Birds	57	59.8
ST-196	Bakersfield	Lowell Park (Corner of 4th St and P St)	Roadway, Dogs/Birds	61.2	65.7
ST-197	Bakersfield	Beale Park (1980 Palm St)	Roadway, Dogs/Birds	54.2	56.5
ST-198	Bakersfield	10th St	Roadway	61.8	73.4
ST-199	Bakersfield	Bakersfield Police Activity League (413 East 3rd St (Corner of Marsh and 3rd)	Roadway, Children Playing, Dogs/Birds	57.8	60.5
ST-200	Bakersfield	John Fremont School	Roadway, Children Playing, Dogs/Birds	56.7	59.4
ST-201	Bakersfield	Trinity Methodist Church (Corner of Niles and King streets	Roadway, Aircraft, Dogs/Birds	61	62.7
ST-202	Bakersfield	1070 Tulare	Rail, Roadway, Aircraft, Dogs/Birds	55.6	57.2
ST-203	Bakersfield	Jastro Park (Corner of Elm St and 18th St)	Roadway, Children Playing, Dogs/Birds	61	69
ST-204	Bakersfield	2330 Elm St	Roadway, Aircraft	69.7	69.9

Table 3.4A-2
 Short-Term Existing Noise Measurement and Estimates

Site	City/County	Address	Contributing Noise Source	Measured Leq (dBA)	Estimated Ldn (dBA)
ST-205	Hanford	1158 Northstar Dr	Rail, Community/Household, Dogs/Birds	63.3	70.7
ST-206	Hanford	1041 Willow Dr	Rail, Community/Household	55.4	68.9
ST-207	Hanford	1052 Minaret Pl	Rail, Community/Household	51.9	68.9
ST-208	Hanford	1950 Roland Dr	Roadway, Community/Household	46.6	71.1
ST-209	Hanford	10796 Hume Ave	Rail, Community/Household	54.4	67.0
ST-210	Hanford	1117 Audubon Rd	Rail, Community/Household	58.1	71.1
ST-211	Hanford	11125 Doris St	Rail, Community/Household	62.8	74.0
ST-212	Hanford	10221 Kansas Ave	Rail, Community/Household, Dogs/Birds	61.7	76.5
ST-213	Hanford	10870 Thompson Dr	Rail, Community/Household, Dogs/Birds	52.7	67.0
ST-214	Hanford	11582 10-1/2 Ave	Roadway, Community/Household	53.6	70.4
ST-215	Hanford	19461 S. Sunnyside Ave	Roadway, Community/Household	47.0	59.4
ST-216	Hanford	20739 Dennis Ave	Roadway, Community/Household	46.3	43.6
ST-217	Hanford	3816 13 1/4 Ave	Roadway, Community/Household	46.1	53.2
ST-218	Hanford	13499 Excelsior Ave	Roadway, Community/Household	62.1	64.5
ST-219	Hanford	13391 Fargo Ave	Roadway, Community/Household	65.7	67.2
ST-220	Hanford	9700 13th Ave	Roadway, Community/Household	63.4	66.0
ST-221	Hanford	10282 13th Ave	Roadway, Community/Household	61.7	64.5
ST-222	Hanford	10729 13th Ave	Roadway, Community/Household	61.6	64.6
ST-223	Hanford	1340 Edgewood Dr	Roadway, Community/Household	61.0	63.4
ST-224	Hanford	12726 Houston Ave	Roadway, Community/Household	49.6	55.8

Table 3.4A-2
 Short-Term Existing Noise Measurement and Estimates

Site	City/County	Address	Contributing Noise Source	Measured Leq (dBA)	Estimated Ldn (dBA)
ST-225	Hanford	12947 Houston Ave	Roadway, Community/Household	64.5	70.4
ST-226	Hanford	2011 Idaho Ave	Roadway, Community/Household	49.6	47.5
ST-227	Hanford	16585 11th Ave	Roadway, Community/Household	47.1	56.4
ST-228	Hanford	Near 18439 10th Ave	Roadway, Community/Household	52.5	64.3
ST-229	Hanford	Near 9846 Lansing Ave	Roadway, Community/Household	55.4	67.2
ST-230	Bakersfield	728 E. 19th St.	Roadway, Community/Household	64	65.5
ST-231	Bakersfield	821 21st St.	Roadway, Community/Household	62.2	67.9
ST-232	Bakersfield	918 E. 21st St.	Roadway, Community/Household	57.2	63.8
ST-233	Bakersfield	919 E. 21st St.	Roadway, Community/Household	54.6	61.5
ST-234	Bakersfield	822 E. 21st St.	Roadway, Community/Household	63.1	68.4
ST-235	Bakersfield	921 Sumner St.	Roadway, Community/Household	66.8	66.5
ST-236	Bakersfield	1021 Sumner St.	Roadway, Community/Household	67.9	74.6
ST-237	Bakersfield	1412 Kentucky St.	Roadway, Community/Household	65.1	72.5
ST-238	Bakersfield	1310 Kentucky St.	Roadway, Community/Household	65.7	71.7
ST-239	Bakersfield	1222 Kentucky St.	Roadway, Community/Household	68.6	73.5

Source: URS/HMM/Arup Joint Venture, Fresno to Bakersfield Noise and Vibration Technical Report (Oakland, CA: URS Corporation, May 2010).

Note: The Leq (h) and Ldn for these LT sites differs by approximately 20 dB, and the short-term measurement was taken during one of the quietest hours of the LT data.

Acronyms:

dB = decibel

dBA = A-weighted decibels

Ldn = day-night sound level, dBA

Leq = equivalent sound level, dBA

LT = long-term

ST = short-term

Table 3.4A-3
 Existing Vibration Measurements

Site	Address	Event Descriptions	Distance to Tracks	Measured Maximum (VdB)
V-01	11901 Snowberry Lane, Bakersfield	BNSF Freight EB, BNSF GT EB, BNSF GT WB, BNSF DS EB	65 ft	84, 76, 82, 78
V-02	10430 Glenn St, Green Acres	Amtrak WB, BNSF WB, BNSF EB, Amtrak EB, BNSF WB	92 ft	92, 77, 76, 71, 79
V-03	2500 Jewetta Ave #27, Bakersfield	BNSF WB, Amtrak and BNSF, BNSF, Amtrak (2) w/ MC, BNSF, EB, Amtrak, Amtrak	60 ft	82, 80, 81, 75, 71
V-04	11501 Mockingbird Court, Bakersfield	Amtrak EB 1/6, BNSF Engines 2/0, BNSF Freight EB 3/28/2, BNSF DS WB 4/98/0	105–110 ft	64, 66, 67, 76
V-05	12013 Compass Ave, Bakersfield	Amtrak WB, BNSF EB, BNSF WB, BNSF WB, Amtrak EB	70 ft	76, 70, 75, 75, 77
V-06	8611 Avenue 32, Earlimart	Amtrak EB 1/4, BNSF EB 4/ / 2, BNSF EB 4/	75 ft	69, 82, 71
V-07	417 Dolores St, Bakersfield	BNSF–WB 2/117 TOFC Empty at 25 mph (40 kph), BNSF–EB 75/2 Tank Cars at 25 mph (40 kph), AMBIENT	165 ft	78, 70, 61
V-08	721 Oswell St, Bakersfield	BNSF–EB Mixed 4/88/2 at 45 mph (72 kph), AMBIENT	93 ft	74, 69
V-09	250 Fairfax Rd, Site 320, Bakersfield Palms RV Park, Bakersfield	UPRR–WB DS /92/1 at 35-45 mph	163 ft	59
V-10	2264 N. Heron Place, Hanford	Amtrak EB 4/1 at 45 mph, Amtrak WB 1/4 at 45 mph, BNSF–EB Mixed 3/55/2 at 45 mph, BNSF–EB Grain 3/108 at 45 mph, BNSF–EB Mixed 3/95/2 at 45 mph, Amtrak WB 1/4 at 45 mph, BNSF–EB Mixed 3/88/2 at 45 mph, BNSF–EB Mixed 3/103/2 at 30 mph, Amtrak EB 4/1 at 50 mph, BNSF–EB Mixed 2/3 at 45 mph	108 ft	83, 86, 95, 88, 96, 78, 83, 80, 81, 85
V-11	1158 W. Northstar Dr, Hanford	Amtrak EB 4/1 at 45 mph, Amtrak WB 1/4 at 45 mph, BNSF–EB Mixed 3/55/2 at 45 mph, BNSF–EB Grain 3/108 at 45 mph, BNSF–EB Mixed 3/95/2 at 45 mph, Amtrak WB 1/4 at 45 mph, BNSF–EB Mixed 3/88/2 at 45 mph, BNSF–EB Mixed 3/103/2 at 30 mph, Amtrak EB 4/1 at 50 mph, BNSF–EB Mixed 2/3 at 45 mph, BNSF–EB Mixed 2/3 at 45 mph	166 ft	80, 78, 85, 79, 78, 78, 81, 83, 73, 78, 78

Table 3.4A-3
 Existing Vibration Measurements

Site	Address	Event Descriptions	Distance to Tracks	Measured Maximum (VdB)
V-12	2098 N. Heron Place, Hanford	BNSF-WB DS/TOFC 4/105 at 45 mph, BNSF-EB 3 at 45 mph, BNSF-WB Mixed 5/86 at 45 mph, BNSF-WB Auto Racks 3/71 at 40 mph, Amtrak WB 1/4 at 45 mph	183 ft	74, 69, 80, 73, 66
<p>Source: URS/HMM/Arup Joint Venture, Fresno to Bakersfield Noise and Vibration Technical Report (Oakland, CA: URS Corporation, May 2010).</p> <p>Note: x / y / z = number of x locos, y cars, z locos</p> <p>Acronyms:</p> <p>BNSF BNSF Railway EB eastbound DS double stack GT grain train hh: 12-hour clock, with a leading zero (e.g., 07) kph kilometer(s) per hour m meters MC motorcycle mixed mixed freight mm minutes with a leading zero mph mile(s) per hour TOFC trailer on flat car UPRR Union Pacific VdB RMS vibration velocity level, dB WB westbound</p>				

Table 3.4A-4
 Potential Noise Impacts Long-Term Measurement Sites along the
 BNSF Alternative without Mitigation for Design Year 2035

Site	Source Height (feet)	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn} -dBA)	Projected HST Noise Level (L _{dn} -dBA)	Impact Criteria		Total Noise Level (L _{dn} -dBA)	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
Fresno										
LT-128	3.0	1,218	Residential	64.9	61	66	61	66	1	Moderate
LT-129	3.0	293	Residential	79.3	69	75	65	80	0	Moderate
LT-130	3.0	407	Residential	69.4	67	69	64	71	2	Moderate
LT-132	3.0	317	Residential	75.2	69	73	65	76	1	Moderate
LT-133	3.0	531	Residential	70.8	66	70	65	72	1	Moderate
LT-134	3.0	690	Residential	68.5	64	68	63	70	1	Moderate
LT-150	3.0	972	Residential	61.0	62	64	58	65	4	Moderate
LT-152	3.0	1,926	Residential	64.2	58	66	60	65	1	None
LT-153	3.0	1,886	Residential	64.6	58	66	61	65	1	None
LT-154	3.0	1,992	Residential	62.8	58	65	59	64	1	None
LT-155	3.0	1,218	Residential	64.9	61	66	61	66	1	Moderate
Monmouth										
LT-117	15.0	469	Residential	64.5	67	66	61	69	4	Severe
LT-118	10.0	444	Residential	70.2	67	70	64	72	2	Moderate
LT-119	10.0	727	Residential	67.6	64	68	63	69	2	Moderate
LT-120	11.0	77	Residential	77.0	75	75	65	79	2	Severe
LT-121	10.0	175	Residential	65.8	72	67	61	73	7	Severe
LT-122	15.0	43	Residential	75.1	74	73	65	78	3	Severe
LT-123	10.0	167	Residential	64.4	72	66	60	73	9	Severe

Table 3.4A-4
 Potential Noise Impacts Long-Term Measurement Sites along the
 BNSF Alternative without Mitigation for Design Year 2035

Site	Source Height (feet)	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn} -dBA)	Projected HST Noise Level (L _{dn} -dBA)	Impact Criteria		Total Noise Level (L _{dn} -dBA)	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
LT-124	7.0	231	Residential	70.2	71	70	64	73	3	Severe
LT-125	10.0	960	Residential	58.1	63	62	57	64	6	Severe
LT-126	15.0	913	Residential	66.8	63	67	62	68	2	Moderate
LT-127	10.0	111	Residential	65.9	75	67	61	75	9	Severe
Hanford										
LT-081	10.0	1,635	Residential	57.3	59	62	56	61	4	Moderate
LT-083	10.0	46	Residential	58.9	76	63	57	76	17	Severe
LT-085	10.0	1,852	Residential	55.5	58	61	56	60	5	Moderate
LT-086	10.0	2,275	Residential	65.2	57	66	61	66	1	None
LT-087	10.0	620	Residential	67.9	65	68	63	70	2	Moderate
LT-088	10.0	1,361	Residential	64.9	60	66	61	66	1	None
LT-089	10.0	185	Residential	57.9	72	62	57	72	14	Severe
LT-090	10.0	1,797	Residential	58.3	59	63	57	62	3	Moderate
LT-091	10.0	2,147	Residential	52.3	57	60	54	59	6	Moderate
LT-092	10.0	90	Residential	60.2	75	64	58	75	15	Severe
LT-093	10.0	138	Residential	55.3	74	61	55	74	18	Severe
LT-094	20.0	1,492	Residential	56.0	61	62	56	63	6	Moderate
LT-099	12.0	2,117	Residential	58.5	58	63	57	61	3	Moderate
LT-100	12.0	1,675	Residential	60.6	59	64	58	63	2	Moderate
LT-112	7.0	1,849	Residential	63.5	58	65	60	65	1	None

Table 3.4A-4
 Potential Noise Impacts Long-Term Measurement Sites along the
 BNSF Alternative without Mitigation for Design Year 2035

Site	Source Height (feet)	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn} -dBA)	Projected HST Noise Level (L _{dn} -dBA)	Impact Criteria		Total Noise Level (L _{dn} -dBA)	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
LT-113	7.0	306	Residential	63.7	69	65	60	70	6	Severe
LT-114	7.0	245	Residential	66.3	70	67	62	72	5	Severe
LT-115	10.0	130	Residential	74.1	74	72	65	77	3	Severe
LT-116	10.0	122	Residential	63.7	74	65	60	74	11	Severe
LT-081	10.0	1,635	Residential	57.3	59	62	56	61	4	Moderate
LT-083	10.0	46	Residential	58.9	76	63	57	76	17	Severe
LT-085	10.0	1,852	Residential	55.5	58	61	56	60	5	Moderate
LT-086	10.0	2,275	Residential	65.2	57	66	61	66	1	None
LT-087	10.0	620	Residential	67.9	65	68	63	70	2	Moderate
LT-088	10.0	1,361	Residential	64.9	60	66	61	66	1	None
LT-089	10.0	185	Residential	57.9	72	62	57	72	14	Severe
LT-090	10.0	1,797	Residential	58.3	59	63	57	62	3	Moderate
LT-091	10.0	2,147	Residential	52.3	57	60	54	59	6	Moderate
LT-092	10.0	90	Residential	60.2	75	64	58	75	15	Severe
LT-093	10.0	138	Residential	55.3	74	61	55	74	18	Severe
LT-094	20.0	1,492	Residential	56.0	61	62	56	63	6	Moderate
LT-099	12.0	2,117	Residential	58.5	58	63	57	61	3	Moderate
LT-100	12.0	1,675	Residential	60.6	59	64	58	63	2	Moderate
LT-112	7.0	1,849	Residential	63.5	58	65	60	65	1	None
LT-113	7.0	306	Residential	63.7	69	65	60	70	6	Severe

Table 3.4A-4
 Potential Noise Impacts Long-Term Measurement Sites along the
 BNSF Alternative without Mitigation for Design Year 2035

Site	Source Height (feet)	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn} -dBA)	Projected HST Noise Level (L _{dn} -dBA)	Impact Criteria		Total Noise Level (L _{dn} -dBA)	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
LT-114	7.0	245	Residential	66.3	70	67	62	72	5	Severe
LT-115	10.0	130	Residential	74.1	74	72	65	77	3	Severe
LT-116	10.0	122	Residential	63.7	74	65	60	74	11	Severe
Corcoran										
LT-059	20.0	977	Residential	65.2	64	66	61	68	2	Moderate
LT-060	17.0	1,889	Residential	70.4	59	70	65	71	0	None
LT-061	14.0	846	Residential	66.0	64	67	61	68	2	Moderate
LT-062	40.0	791	Residential	61.4	65	64	59	67	5	Severe
LT-064	34.0	372	Residential	80.7	69	75	65	81	0	Moderate
LT-065	10.0	83	Residential	78.4	76	75	65	80	2	Severe
LT-066	10.0	565	Residential	64.4	66	66	60	68	4	Moderate
LT-067	10.0	184	Residential	65.5	72	66	61	73	7	Severe
LT-068	11.0	613	Residential	64.1	65	66	60	68	4	Moderate
LT-071	11.0	445	Residential	72.9	67	72	65	74	1	Moderate
LT-075	14.0	412	Residential	71.7	68	71	65	73	1	Moderate
Pixley										
LT-052	14.0	1,033	Residential	64.4	62	66	60	66	2	Moderate
LT-053	10.0	774	Residential	64.0	64	66	60	67	3	Moderate
LT-054	17.0	947	Residential	64.6	63	66	61	67	2	Moderate

Table 3.4A-4
 Potential Noise Impacts Long-Term Measurement Sites along the
 BNSF Alternative without Mitigation for Design Year 2035

Site	Source Height (feet)	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn} -dBA)	Projected HST Noise Level (L _{dn} -dBA)	Impact Criteria		Total Noise Level (L _{dn} -dBA)	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
LT-055	12.0	1,630	Residential	65.2	59	66	61	66	1	None
LT-058	14.0	2,191	Residential	64.9	57	66	61	66	1	None
Allensworth										
LT-026	9.0	321	Residential	72.0	69	71	65	74	2	Moderate
LT-027	9.0	1,434	Residential	62.1	60	64	59	64	2	Moderate
LT-028	9.0	1,097	Residential	67.2	62	68	62	68	1	None
LT-029	9.0	724	Residential	73.6	64	72	65	74	0	None
LT-030	9.0	18	Residential	72.3	77	71	65	78	6	Severe
LT-044	10.0	846	Residential	65.6	63	67	61	68	2	Moderate
LT-045	14.0	856	Residential	71.4	63	70	65	72	1	None
LT-046	0.0	464	Residential	73.1	67	72	65	74	1	Moderate
LT-047	10.0	1,479	Residential	59.9	60	63	58	63	3	Moderate
LT-048	11.0	259	Residential	76.1	70	74	65	77	1	Moderate
LT-049	11.0	284	Residential	64.5	70	66	61	71	6	Severe
LT-050	10.0	247	Residential	62.0	70	64	59	71	9	Severe
LT-051	10.0	162	Residential	68.7	73	69	63	74	5	Severe

Table 3.4A-4
 Potential Noise Impacts Long-Term Measurement Sites along the
 BNSF Alternative without Mitigation for Design Year 2035

Site	Source Height (feet)	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn} -dBA)	Projected HST Noise Level (L _{dn} -dBA)	Impact Criteria		Total Noise Level (L _{dn} -dBA)	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
Wasco-Shafter										
LT-009a	8.0	968	Residential	60.0	62	63	58	64	4	Moderate
LT-009b	8.0	848	Residential	60.0	63	63	58	65	5	Moderate
LT-009	9.0	626	Residential	65.1	65	66	61	68	3	Moderate
LT-010	8.0	1,114	Residential	59.6	62	63	58	64	4	Moderate
LT-011a	8.0	568	Residential	64.5	66	66	60	68	4	Moderate
LT-011	8.0	39	Residential	78.8	78	75	65	81	2	Severe
LT-012	8.0	30	Residential	72.8	78	72	65	79	6	Severe
LT-013	15.0	7	Residential	74.4	74	73	65	77	3	Severe
LT-014	38.0	414	Residential	79.0	68	75	65	79	0	Moderate
LT-015a	40.0	1,031	Residential	64.0	64	66	60	67	3	Moderate
LT-015	40.0	703	Residential	69.6	66	69	64	71	1	Moderate
LT-016a	28.0	775	Residential	64.0	65	66	60	68	4	Moderate
LT-016b	28.0	782	Residential	61.0	65	64	58	67	6	Severe
LT-016	25.0	329	Residential	74.9	69	73	65	76	1	Moderate
LT-017	10.0	331	Residential	79.4	69	75	65	80	0	Moderate
LT-018	7.0	416	Residential	72.7	67	71	65	74	1	Moderate
LT-019	29.0	158	Residential	72.8	72	72	65	76	3	Severe
LT-020	40.0	688	Residential	59.9	66	63	58	67	7	Severe
LT-022	39.0	42	Residential	73.2	68	72	65	74	1	Moderate

Table 3.4A-4
 Potential Noise Impacts Long-Term Measurement Sites along the
 BNSF Alternative without Mitigation for Design Year 2035

Site	Source Height (feet)	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn} -dBA)	Projected HST Noise Level (L _{dn} -dBA)	Impact Criteria		Total Noise Level (L _{dn} -dBA)	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
LT-023	15.0	1,619	Residential	73.4	60	72	65	74	0	None
LT-024	9.0	1,157	Residential	63.0	61	65	60	65	2	Moderate
LT-025	11.0	1,517	Residential	62.7	60	65	59	64	2	Moderate
LT-031	41.0	1,827	Residential	71.1	61	70	65	71	0	None
LT-032	37.0	1,737	Residential	64.4	61	66	60	66	2	Moderate
Bakersfield										
LT-001	49.0	279	Residential	64.6	70	66	61	71	6	Severe
LT-003	58.0	89	Residential	57.8	69	62	57	69	11	Severe
LT-004	13.0	42	Residential	71.6	75	71	65	77	5	Severe
LT-005	1.0	40	Residential	71.5	80	71	65	80	9	Severe
LT-006	1.0	82	Residential	74.0	77	72	65	78	4	Severe
LT-007	5.0	52	Residential	77.7	79	75	65	82	4	Severe
LT-008	9.0	536	Residential	68.6	66	69	63	70	2	Moderate
LT-159	38.0	124	Residential	63.1	72	65	60	73	10	Severe
LT-160	38.0	9	Residential	59.4	68	63	57	68	9	Severe
LT-161	38.0	82	Residential	68.3	72	68	63	73	5	Severe
LT-162	39.0	886	Residential	58.1	65	62	57	65	7	Severe
LT-163	49.0	1,600	Residential	66.1	62	67	62	67	1	Moderate
LT-164	38.0	950	Residential	61.8	64	64	59	66	4	Moderate
LT-165	37.0	1,686	Residential	63.2	61	65	60	65	2	Moderate

Table 3.4A-4
 Potential Noise Impacts Long-Term Measurement Sites along the
 BNSF Alternative without Mitigation for Design Year 2035

Site	Source Height (feet)	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn} -dBA)	Projected HST Noise Level (L _{dn} -dBA)	Impact Criteria		Total Noise Level (L _{dn} -dBA)	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
LT-166	63.0	1,220	Residential	61.0	63	64	58	65	4	Moderate
LT-167	76.0	477	Residential	59.1	67	63	57	68	9	Severe
LT-168	76.0	198	Residential	61.2	70	64	58	70	9	Severe
LT-169	54.0	596	Residential	66.3	67	67	62	69	3	Moderate
LT-170	68.0	444	Residential	63.5	68	65	60	69	6	Severe
LT-171	76.0	345	Residential	62.5	69	65	59	70	7	Severe
LT-172	76.0	311	Residential	57.4	69	62	56	69	12	Severe
LT-187	66.0	1,055	Residential	66.8	64	67	62	69	2	Moderate
LT-188	51.0	928	Residential	69.7	64	69	64	71	1	Moderate
LT-189	56.0	2,455	Residential	60.5	59	64	58	63	2	Moderate
LT-192	48.0	1,324	Residential	63.8	63	65	60	66	2	Moderate
LT-197	62.0	1,950	Residential	67.8	61	68	63	69	1	None

Acronyms:

FRA Federal Railroad Administration
 HST high-speed train
 L_{dn} day-night sound level
 VdB vibration velocity level

Table 3.4A-5
 Potential Noise Impacts Short-Term Measurement Sites along the BNSF Alternative without Mitigation for Design Year 2035

Site	Source Height	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn})	Projected HST Noise Level (L _{dn})	Impact Criteria		Total Noise Level (L _{dn})	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
Fresno										
ST-124	3.0	646	Residential	66.2	65	67	62	69	2	Moderate
ST-126	3.0	1,217	Residential	68.9	61	69	64	70	1	None
ST-127	3.0	544	Residential	66.8	66	67	62	69	2	Moderate
ST-132	3.0	402	Residential	63.7	67	65	60	69	5	Severe
ST-144	3.0	1,633	Institutional	66.9	59	72	67	68	1	None
ST-145	3.0	1,877	Institutional	61.4	58	69	64	63	2	None
ST-146	3.0	2,415	Institutional	71.2	56	75	70	71	0	None
Monmouth										
ST-118	11.0	1,426	Residential	64.1	60	66	60	66	1	None
ST-119	11.0	711	Residential	62.2	64	65	59	66	4	Moderate
ST-120	10.0	1,156	Residential	58.6	61	63	57	63	5	Moderate
ST-121b	10.0	390	Residential	67.0	68	67	62	70	3	Severe
ST-121	10.0	873	Institutional	60.7	63	69	63	65	5	Moderate
ST-122	15.0	782	Residential	70.2	64	70	65	71	1	None
ST-123	10.0	170	Residential	60.9	72	64	58	73	12	Severe
ST-125	10.0	628	Residential	61.6	65	64	59	67	5	Severe
Hanford										
ST-107	10.0	2,142	Residential	58.7	57	63	57	61	2	Moderate
ST-108	29.0	2,439	Residential	57.2	58	62	56	61	4	Moderate
ST-109	25.0	2,375	Residential	60.2	58	63	58	62	2	Moderate

Table 3.4A-5
 Potential Noise Impacts Short-Term Measurement Sites along the BNSF Alternative without Mitigation for Design Year 2035

Site	Source Height	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn})	Projected HST Noise Level (L _{dn})	Impact Criteria		Total Noise Level (L _{dn})	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
ST-110	37.0	1,263	Residential	59.7	63	63	58	64	5	Moderate
ST-112	10.0	1,413	Residential	58.0	60	62	57	62	4	Moderate
ST-115a	7.0	1,341	Residential	59.2	60	63	57	63	4	Moderate
ST-115b	7.0	840	Residential	61.9	63	64	59	66	4	Moderate
ST-116	30.0	625	Residential	58.6	66	63	57	67	8	Severe
Corcoran										
ST-089	10.0	2,439	Residential	59.5	57	63	58	61	2	None
ST-090	15.0	488	Residential	68.2	67	68	63	71	2	Moderate
ST-091	40.0	404	Residential	69.9	68	69	64	72	2	Moderate
ST-092	40.0	475	Residential	68.5	67	68	63	71	3	Moderate
ST-093	30.0	130	Residential	78.4	73	75	65	79	1	Moderate
ST-094	15.0	30	Residential	78.4	74	75	65	80	1	Moderate
ST-095	12.0	820	Residential	62.0	64	64	59	66	4	Moderate
ST-096	14.0	973	Residential	61.6	63	64	59	65	4	Moderate
Pixley										
ST-083	12.0	2,031	Residential	57.4	58	62	56	61	3	Moderate
Allensworth										
ST-043	10.0	2,329	Residential	55.0	57	61	55	59	4	Moderate
ST-047	17.0	309	Residential	69.9	69	69	64	73	3	Moderate
ST-048	14.0	982	Residential	64.9	63	66	61	67	2	Moderate

Table 3.4A-5
 Potential Noise Impacts Short-Term Measurement Sites along the BNSF Alternative without Mitigation for Design Year 2035

Site	Source Height	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn})	Projected HST Noise Level (L _{dn})	Impact Criteria		Total Noise Level (L _{dn})	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
ST-071	1.0	1,233	Residential	66.7	61	67	62	68	1	None
ST-072	0.0	582	Residential	65.4	65	66	61	68	3	Moderate
ST-073	12.0	259	Residential	72.2	70	71	65	74	2	Moderate
ST-074	10.0	769	Residential	66.9	64	67	62	69	2	Moderate
ST-075	14.0	1,879	Residential	65.3	59	66	61	66	1	None
ST-077	11.0	1,954	Residential	51.3	58	60	54	59	8	Moderate
ST-078	11.0	795	Residential	65.6	64	67	61	68	2	Moderate
ST-079	10.0	1,121	Residential	68.7	62	69	63	69	1	None
ST-080	10.0	1,432	Residential	64.5	60	66	60	66	1	None
ST-081	10.0	117	Residential	71.2	74	70	65	76	5	Severe
ST-082	10.0	148	Residential	65.1	73	66	61	74	9	Severe
ST-086	11.0	1,944	Residential	60.9	58	64	58	63	2	None
Wasco-Shafter										
ST-014a	7.0	1,025	Residential	64.1	62	66	60	66	2	Moderate
ST-014b	7.0	1,025	Residential	64.1	62	66	60	66	2	Moderate
ST-017	6.0	9	Institutional	78.1	80	80	70	82	4	Moderate
ST-018	5.0	18	Residential	83.0	80	75	65	85	2	Severe
ST-019	32.0	1,478	Residential	61.2	62	64	58	64	3	Moderate
ST-020	22.0	68	Residential	67.3	75	68	62	75	8	Severe
ST-021	41.0	877	Residential	65.8	65	67	61	68	2	Moderate
ST-022a	41.0	1,035	Residential	64.0	64	66	60	67	3	Moderate

Table 3.4A-5
 Potential Noise Impacts Short-Term Measurement Sites along the BNSF Alternative without Mitigation for Design Year 2035

Site	Source Height	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn})	Projected HST Noise Level (L _{dn})	Impact Criteria		Total Noise Level (L _{dn})	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
ST-022	41.0	1,101	Residential	66.7	63	67	62	68	2	Moderate
ST-023c	41.0	670	Residential	64.0	66	66	60	68	4	Severe
ST-023	40.0	99	Residential	69.6	72	69	64	74	5	Severe
ST-024	38.0	1,849	Institutional	68.3	61	73	68	69	1	None
ST-026	8.0	314	Residential	72.7	69	71	65	74	2	Moderate
ST-027a	9.0	934	Residential	64.0	63	66	60	66	2	Moderate
ST-027	10.0	411	Residential	72.5	68	71	65	74	1	Moderate
ST-028a	31.0	993	Residential	64.0	64	66	60	67	3	Moderate
ST-028	34.0	813	Institutional	70.7	65	75	70	72	1	None
ST-029	23.0	1,304	Residential	64.4	62	66	60	66	2	Moderate
ST-030	34.0	444	Residential	69.0	68	69	64	71	2	Moderate
ST-031	6.0	504	Residential	68.7	66	69	63	71	2	Moderate
ST-032	40.0	2,479	Institutional	61.8	59	69	64	64	2	None
ST-033	39.0	2,189	Residential	48.2	59	59	53	60	11	Severe
ST-034	28.0	526	Residential	70.9	67	70	65	72	2	Moderate
ST-035	35.0	355	Institutional	69.3	69	74	69	72	3	Moderate
ST-036	36.0	1,812	Institutional	66.7	61	72	67	68	1	None
ST-037	40.0	1,775	Residential	57.8	61	62	57	63	5	Moderate
ST-038	30.0	1,828	Institutional	67.4	60	73	67	68	1	None
ST-040	13.0	1,119	Residential	65.6	62	67	61	67	2	Moderate
ST-041	13.0	74	Residential	72.4	75	71	65	77	4	Severe

Table 3.4A-5
 Potential Noise Impacts Short-Term Measurement Sites along the BNSF Alternative without Mitigation for Design Year 2035

Site	Source Height	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn})	Projected HST Noise Level (L _{dn})	Impact Criteria		Total Noise Level (L _{dn})	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
ST-042	13.0	2,468	Residential	69.6	57	69	64	70	0	None
ST-061	9.0	1,690	Residential	52.8	59	60	54	60	7	Moderate
ST-062	30.0	1,118	Residential	61.3	63	64	59	65	4	Moderate
ST-063	32.0	124	Residential	74.1	73	73	65	76	2	Severe
ST-065	27.0	2,416	Residential	58.6	58	63	57	62	3	Moderate
Bakersfield										
ST-001	50.0	21	Institutional	69.1	66	74	69	71	2	None
ST-002	60.0	576	Residential	79.9	67	75	65	80	0	Moderate
ST-003a	67.0	976	Residential	62.1	65	65	59	66	4	Severe
ST-003	70.0	850	Residential	72.1	65	71	65	73	1	Moderate
ST-004a	69.0	1,160	Residential	61.2	64	64	58	66	4	Moderate
ST-004	70.0	1,041	Institutional	71.2	64	75	70	72	1	None
ST-005a	45.0	857	Residential	62.7	65	65	59	67	4	Moderate
ST-005	48.0	335	Institutional	67.7	69	73	68	71	4	Moderate
ST-006	63.0	1,089	Institutional	68.8	64	74	68	70	1	None
ST-007	70.0	495	Residential	69.0	67	69	64	71	2	Moderate
ST-008a	84.0	703	Residential	60.0	66	63	58	67	7	Severe
ST-008	82.0	156	Residential	71.4	69	70	65	73	2	Moderate
ST-008b	85.0	1,794	Residential	61.5	62	64	59	65	3	Moderate
ST-009	0.0	234	Residential	64.2	70	66	60	71	7	Severe
ST-010	10.0	275	Residential	68.8	70	69	63	72	4	Severe

Table 3.4A-5
 Potential Noise Impacts Short-Term Measurement Sites along the BNSF Alternative without Mitigation for Design Year 2035

Site	Source Height	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn})	Projected HST Noise Level (L _{dn})	Impact Criteria		Total Noise Level (L _{dn})	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
ST-011	4.0	392	Residential	54.3	68	61	55	68	13	Severe
ST-012	4.0	225	Residential	59.5	71	63	58	71	12	Severe
ST-013	5.0	629	Residential	75.7	65	74	65	76	0	None
ST-015	5.0	273	Residential	78.4	70	75	65	79	1	Moderate
ST-158	38.0	61	Institutional	70.7	70	75	70	73	3	Moderate
ST-159	38.0	217	Institutional	60.4	71	69	63	71	11	Severe
ST-160	39.0	84	Residential	62.8	72	65	59	72	10	Severe
ST-161	39.0	930	Residential	70.4	64	70	65	71	1	None
ST-162	38.0	982	Institutional	64.8	64	71	66	68	3	None
ST-163	48.0	1,697	Residential	59.6	61	63	58	63	4	Moderate
ST-164	38.0	1,357	Institutional	73.9	62	77	70	74	0	None
ST-165	38.0	1,580	Institutional	63.2	62	70	65	65	2	None
ST-166	35.0	1,256	Institutional	63.7	63	70	65	66	3	None
ST-167	68.0	2,300	Institutional	68.5	60	73	68	69	1	None
ST-168	69.0	338	Residential	64.1	69	66	60	70	6	Severe
ST-169	53.0	802	Residential	70.8	65	70	65	72	1	Moderate
ST-170	76.0	970	Residential	66.4	65	67	62	69	2	Moderate
ST-171	63.0	654	Residential	69.2	66	69	64	71	2	Moderate
ST-172	73.0	500	Residential	67.4	67	68	62	70	3	Moderate
ST-173	74.0	390	Residential	65.4	68	66	61	70	5	Severe
ST-174	75.0	35	Residential	61.3	64	64	59	66	4	Moderate

Table 3.4A-5
 Potential Noise Impacts Short-Term Measurement Sites along the BNSF Alternative without Mitigation for Design Year 2035

Site	Source Height	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn})	Projected HST Noise Level (L _{dn})	Impact Criteria		Total Noise Level (L _{dn})	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
ST-175	46.0	1,268	Residential	59.3	63	63	57	64	5	Moderate
ST-176	76.0	483	Residential	61.9	67	64	59	68	7	Severe
ST-177	76.0	1,488	Residential	71.2	63	70	65	72	1	None
ST-190	61.0	1,822	Institutional	63.0	61	70	65	65	2	None
ST-191	75.0	912	Residential	75.7	65	74	65	76	0	None
ST-192	75.0	2,101	Residential	65.7	61	67	61	67	1	None
ST-195a	49.0	534	Residential	67.7	67	68	63	70	3	Moderate
ST-195	51.0	741	Residential	59.8	66	63	58	67	7	Severe
ST-198	48.0	1,628	Residential	73.4	61	72	65	74	0	None
ST-203	73.0	1,654	Residential	69.0	62	69	64	70	1	None

Acronyms:
 dBA A-weighted decibel(s)
 FRA Federal Railroad Administration
 HST high-speed train
 L_{dn} day-night sound level

Table 3.4A-6

Potential Noise Impacts Long-Term Measurement Sites along the Hanford West Bypass 1 Alternative At-Grade without Mitigation for Design Year 2035

Site	Source Height	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn})	Projected HST Noise Level (L _{dn})	Impact Criteria		Total Noise Level (L _{dn})	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
LT-1	282	1578	Residential	62	66	67	61	68	6	Severe
LT-10	230	217	Residential	57	71	60	54	71	14	Severe
LT-11	229	1051	Residential	59	62	65	60	64	5	Moderate
LT-111	264	1911	Residential	57	59	66	60	61	4	Moderate
LT-112	265	1217	Residential	64	61	62	56	66	2	Moderate
LT-113	266	1271	Residential	73	61	62	56	73	0	None
LT-114	268	700	Residential	66	65	70	65	68	2	Moderate
LT-115	267	249	Residential	74	70	67	61	76	2	Moderate
LT-116	275	114	Residential	64	74	68	63	75	11	Severe
LT-117	279	518	Residential	64	66	68	63	68	4	Severe
LT-12	213	1863	Residential	71	59	66	61	71	0	None
LT-2	290	536	Residential	62	70	66	60	71	9	Severe
LT-208	213	1178	Residential	76	62	69	64	76	0	None
LT-3	290	1654	Residential	59	66	66	60	67	8	Severe
LT-4	251	544	Residential	48	66	65	60	66	18	Severe
LT-5	244	1479	Residential	61	60	63	57	64	3	Moderate
LT-6	239	540	Residential	63	66	64	59	68	5	Severe
LT-7	230	365	Residential	76	68	67	61	77	1	Moderate
LT-8	230	1351	Residential	63	61	67	61	65	2	Moderate

Table 3.4A-7

Potential Noise Impacts Short-Term Measurement Sites along the Hanford West Bypass 1 Alternative At-Grade without Mitigation for Design Year 2035

Site	Source Height	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn})	Projected HST Noise Level (L _{dn})	Impact Criteria		Total Noise Level (L _{dn})	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
ST-1	275	235	Residential	59	72	72	65	73	14	Severe
ST-10	230	1124	Residential	56	62	59	53	63	7	Moderate
ST-11	231	1554	Residential	70	60	64	58	70	0	None
ST-115a	268	459	Residential	59	67	64	59	68	9	Severe
ST-115b	266	1053	Residential	62	62	63	57	65	3	Moderate
ST-116	272	616	Residential	59	65	67	61	66	7	Severe
ST-12	225	159	Residential	48	73	65	60	73	25	Severe
ST-13	215	1389	Residential	56	61	67	61	62	6	Moderate
ST-14	213	278	Residential	64	70	69	64	71	7	Severe
ST-15	212	1462	Residential	67	60	66	60	68	1	None
ST-2	290	2020	Residential	44	65	72	65	65	21	Severe
ST-212	213	407	Residential	76	68	65	60	77	1	Moderate
ST-3	256	768	Residential	53	64	70	65	64	11	Severe
ST-4	254	206	Residential	64	71	74	65	72	8	Severe
ST-5	245	207	Residential	67	71	69	64	73	6	Severe
ST-6	231	147	Residential	66	73	62	56	74	8	Severe
ST-7	231	705	Residential	64	65	74	65	67	3	Moderate
ST-8	231	1077	Residential	65	62	67	62	67	2	Moderate
ST-9	230	2056	Residential	63	58	60	54	64	1	None

Table 3.4A-8

Potential Noise Impacts Long-Term Measurement Sites along the Hanford West Bypass 1 Alternative Below-Grade without Mitigation for Design Year 2035

Site	Source Height	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn})	Projected HST Noise Level (L _{dn})	Impact Criteria		Total Noise Level (L _{dn})	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
LT-1	282	1578	Residential	62	66	64	59	68	6	Severe
LT-10	197	217	Residential	57	69	62	56	69	12	Severe
LT-11	229	1051	Residential	59	62	63	57	64	5	Moderate
LT-111	264	1911	Residential	57	59	62	56	61	4	Moderate
LT-112	265	1217	Residential	64	61	66	60	66	2	Moderate
LT-113	266	1271	Residential	73	61	72	65	73	0	None
LT-114	268	700	Residential	66	65	67	61	68	2	Moderate
LT-115	267	249	Residential	74	70	72	65	76	2	Moderate
LT-116	275	114	Residential	64	74	66	60	75	11	Severe
LT-117	279	518	Residential	64	66	66	60	68	4	Severe
LT-12	213	1863	Residential	71	59	70	65	71	0	None
LT-2	290	536	Residential	62	70	64	59	71	9	Severe
LT-208	213	1178	Residential	76	62	74	65	76	0	None
LT-3	290	1654	Residential	59	66	63	57	67	8	Severe
LT-4	251	544	Residential	48	66	59	53	66	18	Severe
LT-5	244	1479	Residential	61	60	64	58	64	3	Moderate
LT-6	239	540	Residential	63	66	65	60	68	5	Severe
LT-7	193	365	Residential	76	61	74	65	76	0	None
LT-8	193	1351	Residential	63	54	65	60	63	0	None
LT-9	193	494	Residential	69	59	69	64	69	0	None

Table 3.4A-9

Potential Noise Impacts Short-Term Measurement Sites along the Hanford West Bypass 1 Alternative Below-Grade without Mitigation for Design Year 2035

Site	Source Height	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn})	Projected HST Noise Level (L _{dn})	Impact Criteria		Total Noise Level (L _{dn})	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
ST-1	275	235	Residential	59	72	63	57	73	14	Severe
ST-10	220	1124	Residential	56	62	62	56	63	7	Moderate
ST-11	231	1554	Residential	70	60	69	64	70	0	None
ST-115a	268	459	Residential	59	67	63	57	68	9	Severe
ST-115b	266	1053	Residential	62	62	64	59	65	3	Moderate
ST-116	272	616	Residential	59	65	63	57	66	7	Severe
ST-12	225	159	Residential	48	73	59	53	73	25	Severe
ST-13	215	1389	Residential	56	61	62	56	62	6	Moderate
ST-14	213	278	Residential	64	70	66	60	71	7	Severe
ST-15	212	1462	Residential	67	60	67	62	68	1	None
ST-2	290	2020	Residential	44	65	59	52	65	21	Severe
ST-212	213	407	Residential	76	68	74	65	77	1	Moderate
ST-3	256	768	Residential	53	64	60	54	64	11	Severe
ST-4	254	206	Residential	64	71	66	60	72	8	Severe
ST-5	245	207	Residential	67	71	67	62	73	6	Severe
ST-6	198	147	Residential	66	74	67	61	74	8	Severe
ST-7	193	705	Residential	64	57	66	60	65	1	None
ST-8	193	1077	Residential	65	55	66	61	65	0	None
ST-9	206	2056	Residential	63	55	65	60	64	1	None

Table 3.4A-10

Potential Noise Impacts Long-Term Measurement Sites along the Hanford West Bypass 2 Alternative At-Grade without Mitigation for Design Year 2035

Site	Source Height	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn})	Projected HST Noise Level (L _{dn})	Impact Criteria		Total Noise Level (L _{dn})	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
LT-1	282	1578	Residential	62	66	64	59	68	6	Severe
LT-10	230	217	Residential	57	71	62	56	71	14	Severe
LT-11	229	1051	Residential	59	62	63	57	64	5	Moderate
LT-111	264	1911	Residential	57	59	62	56	61	4	Moderate
LT-112	265	1217	Residential	64	61	66	60	66	2	Moderate
LT-113	266	1271	Residential	73	61	72	65	73	0	None
LT-114	268	700	Residential	66	65	67	61	68	2	Moderate
LT-115	267	249	Residential	74	70	72	65	76	2	Moderate
LT-116	275	114	Residential	64	74	66	60	75	11	Severe
LT-117	279	518	Residential	64	66	66	60	68	4	Severe
LT-12	234	872	Residential	71	68	70	65	73	2	Moderate
LT-2	290	536	Residential	62	70	64	59	71	9	Severe
LT-208	232	220	Residential	76	73	74	65	78	2	Moderate
LT-3	290	1654	Residential	59	66	63	57	67	8	Severe
LT-4	251	544	Residential	48	66	59	53	66	18	Severe
LT-5	244	1479	Residential	61	60	64	58	64	3	Moderate
LT-6	239	540	Residential	63	66	65	60	68	5	Severe
LT-7	230	365	Residential	76	68	74	65	77	1	Moderate
LT-8	230	1351	Residential	63	61	65	60	65	2	Moderate
LT-9	230	494	Residential	69	67	69	64	71	2	Moderate

Table 3.4A-11

Potential Noise Impacts Short-Term Measurement Sites along the Hanford West Bypass 2 Alternative At-Grade without Mitigation for Design Year 2035

Site	Source Height	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn})	Projected HST Noise Level (L _{dn})	Impact Criteria		Total Noise Level (L _{dn})	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
ST-1	275	235	Residential	59	72	63	57	73	14	Severe
ST-10	230	1124	Residential	56	62	62	56	63	7	Moderate
ST-11	231	1554	Residential	70	60	69	64	70	0	None
ST-115a	268	459	Residential	59	67	63	57	68	9	Severe
ST-115b	266	1053	Residential	62	62	64	59	65	3	Moderate
ST-116	272	616	Residential	59	65	63	57	66	7	Severe
ST-12	225	159	Residential	48	73	59	53	73	25	Severe
ST-13	221	549	Residential	56	66	62	56	66	10	Severe
ST-14	214	924	Residential	64	63	66	60	67	3	Moderate
ST-15	210	1177	Residential	67	62	67	62	68	1	None
ST-2	290	2020	Residential	44	65	59	52	65	21	Severe
ST-212	237	637	Residential	76	70	74	65	77	1	Moderate
ST-3	256	768	Residential	53	64	60	54	64	11	Severe
ST-4	254	206	Residential	64	71	66	60	72	8	Severe
ST-5	245	207	Residential	67	71	67	62	73	6	Severe
ST-6	231	147	Residential	66	73	67	61	74	8	Severe
ST-7	231	705	Residential	64	65	66	60	67	3	Moderate
ST-8	231	1077	Residential	65	62	66	61	67	2	Moderate
ST-9	230	2056	Residential	63	58	65	60	64	1	None

Table 3.4A-12

Potential Noise Impacts Long-Term Measurement Sites along the Hanford West Bypass 2 Alternative Below-Grade without Mitigation for Design Year 2035

Site	Source Height	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn})	Projected HST Noise Level (L _{dn})	Impact Criteria		Total Noise Level (L _{dn})	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
LT-1	282	1578	Residential	62	66	64	59	68	6	Severe
LT-10	197	217	Residential	57	69	62	56	69	12	Severe
LT-11	229	1051	Residential	59	62	63	57	64	5	Moderate
LT-111	264	1911	Residential	57	59	62	56	61	4	Moderate
LT-112	265	1217	Residential	64	61	66	60	66	2	Moderate
LT-113	266	1271	Residential	73	61	72	65	73	0	None
LT-114	268	700	Residential	66	65	67	61	68	2	Moderate
LT-115	267	249	Residential	74	70	72	65	76	2	Moderate
LT-116	275	114	Residential	64	74	66	60	75	11	Severe
LT-117	279	518	Residential	64	66	66	60	68	4	Severe
LT-12	234	872	Residential	71	68	70	65	73	2	Moderate
LT-2	290	536	Residential	62	70	64	59	71	9	Severe
LT-208	232	220	Residential	76	73	74	65	78	2	Moderate
LT-3	290	1654	Residential	59	66	63	57	67	8	Severe
LT-4	251	544	Residential	48	66	59	53	66	18	Severe
LT-5	244	1479	Residential	61	60	64	58	64	3	Moderate
LT-6	239	540	Residential	63	66	65	60	68	5	Severe
LT-7	193	365	Residential	76	61	74	65	76	0	None
LT-8	193	1351	Residential	63	54	65	60	63	0	None
LT-9	193	494	Residential	69	59	69	64	69	0	None

Table 3.4A-13

Potential Noise Impacts Short-Term Measurement Sites along the Hanford West Bypass 2 Alternative Below-Grade without Mitigation for Design Year 2035

Site	Source Height	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn})	Projected HST Noise Level (L _{dn})	Impact Criteria		Total Noise Level (L _{dn})	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
ST-1	275	235	Residential	59	72	63	57	73	14	Severe
ST-10	220	1124	Residential	56	62	62	56	63	7	Moderate
ST-11	231	1554	Residential	70	60	69	64	70	0	None
ST-115a	268	459	Residential	59	67	63	57	68	9	Severe
ST-115b	266	1053	Residential	62	62	64	59	65	3	Moderate
ST-116	272	616	Residential	59	65	63	57	66	7	Severe
ST-12	225	159	Residential	48	73	59	53	73	25	Severe
ST-13	221	549	Residential	56	66	62	56	66	10	Severe
ST-14	214	924	Residential	64	63	66	60	67	3	Moderate
ST-15	210	1177	Residential	67	62	67	62	68	1	None
ST-2	290	2020	Residential	44	65	59	52	65	21	Severe
ST-212	237	637	Residential	76	70	74	65	77	1	Moderate
ST-3	256	768	Residential	53	64	60	54	64	11	Severe
ST-4	254	206	Residential	64	71	66	60	72	8	Severe
ST-5	245	207	Residential	67	71	67	62	73	6	Severe
ST-6	198	147	Residential	66	74	67	61	74	8	Severe
ST-7	193	705	Residential	64	57	66	60	65	1	None
ST-8	193	1077	Residential	65	55	66	61	65	0	None
ST-9	206	2056	Residential	63	55	65	60	64	1	None
ST-1	275	235	Residential	59	72	63	57	73	14	Severe

Table 3.4A-14

Potential Noise Impacts Long-Term Measurement Sites along the Corcoran Elevated Alternative without Mitigation for Design Year 2035

Site	Source Height	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn})	Projected HST Noise Level (L _{dn})	Impact Criteria		Total Noise Level (L _{dn})	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
LT-059	16.0	977	Residential	65.2	63	66	61	67	2	Moderate
LT-060	18.0	1,889	Residential	70.4	59	70	65	71	0	None
LT-061	18.0	846	Residential	66.0	64	67	61	68	2	Moderate
LT-062	42.0	637	Residential	61.4	66	64	59	67	6	Severe
LT-064	48.0	217	Residential	80.7	71	75	65	81	0	Moderate
LT-065	46.0	261	Residential	78.4	70	75	65	79	1	Moderate
LT-066	17.0	364	Residential	64.4	68	66	60	70	5	Severe
LT-067	27.0	385	Residential	65.5	68	66	61	70	5	Severe
LT-068	39.0	412	Residential	64.1	68	66	60	70	5	Severe
LT-071	42.0	250	Residential	72.9	70	72	65	75	2	Moderate
LT-075	12.0	211	Residential	71.7	71	71	65	74	3	Severe

Table 3.4A-15

Potential Noise Impacts Short-Term Measurement Sites along the Corcoran Elevated Alternative without Mitigation for Design Year 2035

Site	Source Height	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn})	Projected HST Noise Level (L _{dn})	Impact Criteria		Total Noise Level (L _{dn})	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
ST-089	10.0	2,439	Residential	59.5	57	63	58	61	2	None
ST-090	17.0	488	Residential	68.2	67	68	63	71	2	Moderate
ST-091	48.0	255	Residential	69.9	70	69	64	73	3	Severe
ST-092	47.0	612	Residential	68.5	66	68	63	71	2	Moderate
ST-093	48.0	289	Residential	78.4	70	75	65	79	1	Moderate
ST-094	48.0	200	Residential	78.4	71	75	65	79	1	Moderate
ST-095	46.0	997	Residential	62.0	64	64	59	66	4	Moderate
ST-096	12.0	1,173	Residential	61.6	61	64	59	65	3	Moderate
ST-097	46.0	350	Residential	76.8	69	75	65	77	1	Moderate

Acronyms:
 dBA A-weighted decibel(s)
 FRA Federal Railroad Administration
 L_{dn} day-night sound level

Table 3.4A-16

Potential Noise Impacts Long-Term Measurement Sites along the Corcoran Bypass Alternative without Mitigation for Design Year 2035

Site	Source Height	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn})	Projected HST Noise Level (L _{dn})	Impact Criteria		Total Noise Level (L _{dn})	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
LT-059	40.0	684	Residential	65.2	66	66	61	69	3	Moderate
LT-060	38.0	2,345	Residential	70.4	59	70	65	71	0	None
LT-061	34.0	184	Residential	66.0	71	67	61	73	7	Severe
LT-063	14.0	1,274	Residential	68.0	61	68	63	69	1	None
LT-066	14.0	852	Residential	64.4	64	66	60	67	3	Moderate
LT-067	14.0	1,858	Residential	65.5	59	66	61	66	1	None
LT-068	14.0	1,328	Residential	64.1	61	66	60	66	2	Moderate
LT-070	14.0	1,704	Residential	51.1	59	60	54	60	9	Moderate
LT-071	14.0	1,885	Residential	72.9	59	72	65	73	0	None
LT-072	14.0	617	Residential	52.5	65	60	54	66	13	Severe
LT-073	14.0	1,599	Residential	83.9	60	75	65	84	0	None
LT-075	12.0	25	Residential	71.7	75	71	65	77	5	Severe

Acronyms:

dBA A-weighted decibel(s)
 FRA Federal Railroad Administration
 L_{dn} day-night sound level

Table 3.4A-17

Potential Noise Impacts Short-Term Measurement Sites along the Corcoran Bypass Alternative without Mitigation for Design Year 2035

Site	Source Height	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn})	Projected HST Noise Level (L _{dn})	Impact Criteria		Total Noise Level (L _{dn})	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
ST-089	9.0	2,439	Residential	59.5	56	63	58	61	2	None
ST-090	27.0	577	Residential	68.2	67	68	63	70	2	Moderate
ST-096	13.0	2,104	Residential	61.6	58	64	59	63	1	None
ST-099	14.0	118	Residential	57.7	73	62	57	74	16	Severe
ST-100	14.0	1,267	Residential	49.5	61	59	53	61	12	Severe
ST-089	9.0	2,439	Residential	59.5	56	63	58	61	2	None
ST-090	27.0	577	Residential	68.2	67	68	63	70	2	Moderate
ST-096	13.0	2,104	Residential	61.6	58	64	59	63	1	None
ST-099	14.0	118	Residential	57.7	73	62	57	74	16	Severe
ST-100	14.0	1,267	Residential	49.5	61	59	53	61	12	Severe

Acronyms:
 dBA A-weighted decibel(s)
 FRA Federal Railroad Administration
 L_{dn} day-night sound level

Table 3.4A-18

Potential Noise Impacts Long-Term Measurement Sites along the Allensworth Bypass Alternative without Mitigation for Design Year 2035

Site	Source Height	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn})	Projected HST Noise Level (L _{dn})	Impact Criteria		Total Noise Level (L _{dn})	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
LT-026	10.0	907	Residential	72.0	63	71	65	73	1	None
LT-027	10.0	2,184	Residential	62.1	57	64	59	63	1	None
Acronyms: dBA A-weighted decibel(s) FRA Federal Railroad Administration L _{dn} day-night sound level										

Table 3.4A-19

Potential Noise Impacts Short-Term Measurement Sites along the Allensworth Bypass Alternative without Mitigation for Design Year 2035

Site	Source Height	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn})	Projected HST Noise Level (L _{dn})	Impact Criteria		Total Noise Level (L _{dn})	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
ST-043	11.0	1,510	Residential	55.0	60	61	55	61	6	Moderate
Acronyms: dBA A-weighted decibel(s) FRA Federal Railroad Administration L _{dn} day-night sound level										

Table 3.4A-20

Potential Noise Impacts Long-Term Measurement Sites along the Wasco-Shafter Bypass Alternative without Mitigation for Design Year 2035

Site	Source Height	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn})	Projected HST Noise Level (L _{dn})	Impact Criteria		Total Noise Level (L _{dn})	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
LT-009a	9.0	968	Residential	60.0	63	63	58	64	4	Moderate
LT-009b	8.0	848	Residential	60.0	63	63	58	65	5	Moderate
LT-009	9.0	626	Residential	65.1	65	66	61	68	3	Moderate
LT-010	8.0	1,114	Residential	59.6	62	63	58	64	4	Moderate
LT-011a	47.0	625	Residential	64.5	66	66	60	68	4	Severe
LT-011	73.0	3	Residential	78.8	64	75	65	79	0	None
LT-012	55.0	219	Residential	72.8	70	72	65	75	2	Moderate
LT-013	8.0	2,206	Residential	74.4	57	73	65	74	0	None
LT-023	12.0	2,376	Residential	73.4	57	72	65	74	0	None
LT-025	43.0	1,022	Residential	62.7	64	65	59	66	4	Moderate
LT-031	7.0	1,770	Residential	71.1	59	70	65	71	0	None
LT-033	7.0	1,421	Residential	67.2	60	68	62	68	1	None
LT-034	7.0	829	Residential	66.6	63	67	62	68	2	Moderate
LT-035	9.0	2,415	Residential	59.4	57	63	57	61	2	None
LT-036	8.0	641	Residential	61.4	65	64	59	66	5	Severe
LT-037	10.0	2,168	Residential	58.6	57	63	57	61	2	Moderate
LT-039	9.0	1,440	Residential	69.2	60	69	64	70	1	None
LT-042	8.0	2,172	Residential	61.6	57	64	59	63	1	None
LT-043	8.0	238	Residential	53.7	70	61	55	71	17	Severe
LT-146	7.0	1,873	Residential	55.3	58	61	55	60	5	Moderate
LT-148	12.0	31	Residential	61.4	75	64	59	75	14	Severe
LT-149	10.0	479	Residential	55.1	67	61	55	67	12	Severe

Acronyms:
 dBA A-weighted decibel(s)
 FRA Federal Railroad Administration
 L_{dn} day-night sound level

Table 3.4A-21

Potential Noise Impacts Short-Term Measurement Sites along the Wasco-Shafter Bypass Alternative without Mitigation for Design Year 2035

Site	Source Height	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn})	Projected HST Noise Level (L _{dn})	Impact Criteria		Total Noise Level (L _{dn})	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
ST-014a	7.0	1,025	Residential	64.1	62	66	60	66	2	Moderate
ST-014b	7.0	1,025	Residential	64.1	62	66	60	66	2	Moderate
ST-017	72.0	12	Institutional	78.1	64	80	70	78	0	None
ST-018	70.0	73	Residential	83.0	65	75	65	83	0	Moderate
ST-019	7.0	1,435	Residential	61.2	60	64	58	64	2	Moderate
ST-041	35.0	138	Residential	72.4	72	71	65	75	3	Severe
ST-042	35.0	2,498	Residential	69.6	58	69	64	70	0	None
ST-051	10.0	2,289	Residential	66.0	57	67	61	67	1	None
ST-052	11.0	2,363	Residential	50.1	57	60	53	58	8	Moderate
ST-053	11.0	1,612	Residential	61.3	59	64	59	63	2	Moderate
ST-054	9.0	559	Residential	66.4	66	67	62	69	3	Moderate
ST-056	9.0	1,856	Residential	62.1	58	65	59	64	2	None
ST-058	9.0	1,931	Residential	62.1	58	65	59	64	1	None
ST-059	9.0	1,464	Residential	64.1	60	66	60	66	1	None
ST-064	8.0	266	Residential	65.6	70	67	61	71	6	Severe
ST-066	8.0	723	Residential	51.4	64	60	54	64	13	Severe
ST-067	8.0	1,886	Residential	61.7	58	64	59	63	2	None
ST-070	9.0	882	Residential	65.9	63	67	61	68	2	Moderate
ST-142	8.0	124	Residential	68.2	74	68	63	75	7	Severe
ST-143	10.0	1,134	Residential	62.4	62	65	59	65	3	Moderate

Acronyms:

dBA A-weighted decibel(s)
 FRA Federal Railroad Administration
 L_{dn} day-night sound level

Table 3.4A-22

Potential Noise Impacts Long-Term Measurement Sites along the Bakersfield South Alternative without Mitigation for Design Year 2035

Site	Source Height	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn})	Projected HST Noise Level (L _{dn})	Impact Criteria		Total Noise Level (L _{dn})	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
LT-001	47.0	364	Residential	64.6	69	66	61	70	5	Severe
LT-003	61.0	131	Residential	57.8	70	62	57	71	13	Severe
LT-004	16.0	65	Residential	71.6	74	71	65	76	4	Severe
LT-005	1.0	30	Residential	71.5	80	71	65	80	9	Severe
LT-006	2.0	82	Residential	74.0	77	72	65	78	4	Severe
LT-007	5.0	52	Residential	77.7	79	75	65	82	4	Severe
LT-008	9.0	536	Residential	68.6	66	69	63	70	2	Moderate
LT-159	40.0	950	Residential	63.1	64	65	60	67	4	Moderate
LT-160	40.0	1,108	Residential	59.4	63	63	57	65	5	Severe
LT-161	44.0	1,562	Residential	68.3	62	68	63	69	1	None
LT-162	47.0	598	Residential	58.1	66	62	57	67	9	Severe
LT-163	56.0	238	Residential	66.1	70	67	62	72	6	Severe
LT-164	41.0	204	Residential	61.8	71	64	59	71	10	Severe
LT-165	40.0	375	Residential	63.2	69	65	60	70	6	Severe
LT-166	67.0	354	Residential	61.0	69	64	58	69	8	Severe
LT-167	70.0	226	Residential	59.1	70	63	57	70	11	Severe
LT-168	79.0	98	Residential	61.2	67	64	58	68	6	Severe
LT-169	61.0	1,755	Residential	66.3	61	67	62	68	1	None
LT-170	68.0	1,124	Residential	63.5	64	65	60	67	3	Moderate
LT-171	70.0	663	Residential	62.5	66	65	59	68	5	Severe
LT-172	75.0	352	Residential	57.4	69	62	56	69	11	Severe

Table 3.4A-22

Potential Noise Impacts Long-Term Measurement Sites along the Bakersfield South Alternative without Mitigation for Design Year 2035

Site	Source Height	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn})	Projected HST Noise Level (L _{dn})	Impact Criteria		Total Noise Level (L _{dn})	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
LT-187	59.0	610	Residential	66.8	66	67	62	70	3	Moderate
LT-188	47.0	1,366	Residential	69.7	62	69	64	70	1	None
LT-192	47.0	1,339	Residential	63.8	63	65	60	66	2	Moderate
LT-197	54.0	1,493	Residential	67.8	62	68	63	69	1	None
LT-199	55.0	2,323	Residential	65.9	59	67	61	67	1	None

Acronyms:
 dBA A-weighted decibel(s)
 FRA Federal Railroad Administration
 L_{dn} day-night sound level

Table 3.4A-23

Potential Noise Impacts Short-Term Measurement Sites along the Bakersfield South Alternative without Mitigation for Design Year 2035

Site	Source Height	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn})	Projected HST Noise Level (L _{dn})	Impact Criteria		Total Noise Level (L _{dn})	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
ST-001	48.0	444	Institutional	69.1	68	74	69	72	2	None
ST-002	54.0	118	Residential	79.9	71	75	65	80	1	Moderate
ST-003a	60.0	1,418	Residential	62.1	63	65	59	65	3	Moderate
ST-003	64.0	1,285	Residential	72.1	63	71	65	73	1	None
ST-004a	63.0	723	Residential	61.2	66	64	58	67	6	Severe
ST-004	64.0	606	Institutional	71.2	67	75	70	73	1	None
ST-005a	47.0	1,284	Residential	62.7	63	65	59	66	3	Moderate
ST-005	48.0	538	Institutional	67.7	67	73	68	70	3	None
ST-006	57.0	635	Institutional	68.8	66	74	68	71	2	None
ST-007	79.0	761	Residential	69.0	66	69	64	71	2	Moderate
ST-008a	88.0	1,010	Residential	60.0	64	63	58	66	6	Severe
ST-008	85.0	447	Residential	71.4	68	70	65	73	2	Moderate
ST-008b	89.0	2,108	Residential	61.5	61	64	59	64	3	Moderate
ST-009	0.0	234	Residential	64.2	70	66	60	71	7	Severe
ST-010	10.0	200	Residential	68.8	72	69	63	73	5	Severe
ST-011	14.0	297	Residential	54.3	69	61	55	70	15	Severe
ST-012	4.0	225	Residential	59.5	71	63	58	71	12	Severe
ST-013	5.0	629	Residential	75.7	65	74	65	76	0	None
ST-015	5.0	273	Residential	78.4	70	75	65	79	1	Moderate
ST-158	43.0	1,410	Institutional	70.7	62	75	70	71	1	None
ST-159	40.0	917	Institutional	60.4	65	69	63	66	6	Moderate
ST-160	40.0	681	Residential	62.8	66	65	59	68	5	Severe
ST-161	40.0	167	Residential	70.4	72	70	65	74	4	Severe
ST-162	41.0	203	Institutional	64.8	71	71	66	72	7	Severe
ST-164	40.0	479	Institutional	73.9	68	77	70	75	1	None

Table 3.4A-23

Potential Noise Impacts Short-Term Measurement Sites along the Bakersfield South Alternative without Mitigation for Design Year 2035

Site	Source Height	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn})	Projected HST Noise Level (L _{dn})	Impact Criteria		Total Noise Level (L _{dn})	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
ST-165	41.0	359	Institutional	63.2	69	70	65	70	7	Moderate
ST-166	41.0	90	Institutional	63.7	72	70	65	73	9	Severe
ST-167	69.0	1,517	Institutional	68.5	63	73	68	70	1	None
ST-168	68.0	324	Residential	64.1	69	66	60	70	6	Severe
ST-169	59.0	434	Residential	70.8	68	70	65	73	2	Moderate
ST-170	75.0	911	Residential	66.4	65	67	62	69	2	Moderate
ST-171	66.0	1,478	Residential	69.2	63	69	64	70	1	None
ST-172	70.0	1,023	Residential	67.4	64	68	62	69	2	Moderate
ST-173	71.0	13	Residential	65.4	64	66	61	68	2	Moderate
ST-174	70.0	391	Residential	61.3	68	64	59	69	8	Severe
ST-176	79.0	578	Residential	61.9	67	64	59	68	6	Severe
ST-177	75.0	1,548	Residential	71.2	63	70	65	72	1	None
ST-190	54.0	2,279	Institutional	63.0	60	70	65	65	2	None
ST-191	64.0	496	Residential	75.7	67	74	65	76	1	Moderate
ST-195a	47.0	168	Residential	67.7	71	68	63	73	5	Severe
ST-195	47.0	301	Residential	59.8	69	63	58	70	10	Severe
ST-198	47.0	1,937	Residential	73.4	60	72	65	74	0	None
ST-203	63.0	1,228	Residential	69.0	63	69	64	70	1	None

Acronyms:
 dBA A-weighted decibel(s)
 FRA Federal Railroad Administration
 L_{dn} day-night sound level

Table 3.4A-24

Potential Noise Impacts Long-Term Measurement Sites along the Bakersfield Hybrid Alternative without Mitigation for Design Year 2035

Site	Source Height	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn})	Projected HST Noise Level (L _{dn})	Impact Criteria		Total Noise Level (L _{dn})	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
LT-001	41.0	125	Residential	65	60	66	61	66	1	None
LT-003	60.0	131	Residential	58	70	62	57	71	13	Severe
LT-004	17.0	64	Residential	72	74	71	65	76	4	Severe
LT-005	0.0	4	Residential	72	80	71	65	80	9	Severe
LT-006	1.0	82	Residential	74	77	72	65	78	4	Severe
LT-007	5.0	52	Residential	78	79	75	65	82	4	Severe
LT-008	9.0	536	Residential	69	66	69	63	70	2	Moderate
LT-159	43.0	24	Residential	63	59	65	60	65	1	None
LT-160	41.0	291	Residential	59	62	63	57	64	4	Moderate
LT-161	42.0	353	Residential	68	61	68	63	69	1	None
LT-162	45.0	1,303	Residential	58	57	62	57	60	2	None
LT-163	54.0	1,842	Residential	66	55	67	62	66	0	None
LT-164	41.0	1,239	Residential	62	57	64	59	63	1	None
LT-165	41.0	2,043	Residential	63	54	65	60	64	0	None
LT-166	68.0	1,230	Residential	61	59	64	58	63	2	Moderate
LT-167	77.0	477	Residential	59	64	63	57	65	6	Severe
LT-168	77.0	198	Residential	61	66	64	58	68	6	Severe
LT-169	58.0	479	Residential	66	61	67	62	67	1	None
LT-170	70.0	442	Residential	64	63	65	60	66	3	Moderate
LT-171	76.0	345	Residential	62	64	65	59	67	4	Moderate
LT-172	75.0	311	Residential	57	66	62	56	67	10	Severe
LT-187	61.0	610	Residential	67	60	67	62	68	1	None

Table 3.4A-24

Potential Noise Impacts Long-Term Measurement Sites along the Bakersfield Hybrid Alternative without Mitigation for Design Year 2035

Site	Source Height	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn})	Projected HST Noise Level (L _{dn})	Impact Criteria		Total Noise Level (L _{dn})	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
LT-188	52.0	1,336	Residential	70	56	69	64	70	0	None
LT-192	56.0	1,140	Residential	64	57	65	60	65	1	None
LT-197	53.0	1,492	Residential	68	56	68	63	68	0	None
LT-199	58.0	2,323	Residential	66	54	67	61	66	0	None
LT-230	41.0	454	Residential	64	60	66	60	66	1	Moderate

Acronyms:
 dBA A-weighted decibel(s)
 FRA Federal Railroad Administration
 L_{dn} day-night sound level

Table 3.4A-25

Potential Noise Impacts Short-Term Measurement Sites along the Bakersfield Hybrid Alternative without Mitigation for Design Year 2035

Site	Source Height	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn})	Projected HST Noise Level (L _{dn})	Impact Criteria		Total Noise Level (L _{dn})	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
ST-001	52.0	396	Institutional	69	60	74	69	70	0	None
ST-002	56.0	116	Residential	80	62	75	65	80	0	None
ST-003	63.0	1,285	Residential	72	58	71	65	72	0	None
ST-003a	61.0	1,418	Residential	62	58	65	59	63	1	None
ST-004	63.0	606	Institutional	71	61	75	70	72	0	None
ST-004a	62.0	723	Residential	61	60	64	58	64	2	Moderate
ST-005	56.0	475	Institutional	68	59	73	68	68	1	None
ST-005a	51.0	887	Residential	63	58	65	59	64	1	None
ST-006	57.0	635	Institutional	69	60	74	68	69	1	None
ST-007	80.0	761	Residential	69	66	69	64	71	2	Moderate
ST-008	85.0	447	Residential	71	68	70	65	73	2	Moderate
ST-008a	89.0	1,010	Residential	60	64	63	58	66	6	Severe
ST-008b	90.0	2,108	Residential	62	61	64	59	64	3	Moderate
ST-009	0.0	234	Residential	64	70	66	60	71	7	Severe
ST-010	8.0	200	Residential	69	71	69	63	73	5	Severe
ST-011	15.0	297	Residential	54	69	61	55	70	15	Severe
ST-012	7.0	225	Residential	60	71	63	58	71	12	Severe
ST-013	5.0	629	Residential	76	65	74	65	76	0	None
ST-015	5.0	273	Residential	78	70	75	65	79	1	Moderate
ST-158	41.0	497	Institutional	71	60	75	70	71	0	None
ST-159	41.0	505	Institutional	60	60	69	63	63	3	None

Table 3.4A-25

Potential Noise Impacts Short-Term Measurement Sites along the Bakersfield Hybrid Alternative without Mitigation for Design Year 2035

Site	Source Height	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn})	Projected HST Noise Level (L _{dn})	Impact Criteria		Total Noise Level (L _{dn})	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
ST-160	43.0	202	Residential	63	62	65	59	65	3	Moderate
ST-161	43.0	1,037	Residential	70	57	70	65	71	0	None
ST-162	41.0	1,286	Institutional	65	56	71	66	65	1	None
ST-163	48.0	1,359	Residential	60	57	63	58	61	2	None
ST-164	42.0	1,513	Institutional	74	56	77	70	74	0	None
ST-165	41.0	1,894	Institutional	63	54	70	65	64	1	None
ST-166	41.0	1,636	Institutional	64	55	70	65	64	1	None
ST-167	69.0	2,302	Institutional	69	57	73	68	69	0	None
ST-168	71.0	338	Residential	64	63	66	60	67	3	Moderate
ST-169	56.0	944	Residential	71	59	70	65	71	0	None
ST-170	75.0	970	Residential	66	63	67	62	68	2	Moderate
ST-171	65.0	640	Residential	69	61	69	64	70	1	None
ST-172	73.0	500	Residential	67	63	68	62	69	1	Moderate
ST-173	75.0	390	Residential	65	64	66	61	68	2	Moderate
ST-174	77.0	35	Residential	61	59	64	59	63	2	Moderate
ST-175	48.0	971	Residential	59	58	63	57	62	2	Moderate
ST-176	76.0	483	Residential	62	65	64	59	66	5	Severe
ST-177	76.0	1,488	Residential	71	61	70	65	72	0	None
ST-190	58.0	2,280	Institutional	63	55	70	65	64	1	None
ST-191	65.0	496	Residential	76	62	74	65	76	0	None
ST-195	52.0	319	Residential	60	60	63	58	63	3	Moderate
ST-195a	53.0	289	Residential	68	60	68	63	68	1	None

Table 3.4A-25

Potential Noise Impacts Short-Term Measurement Sites along the Bakersfield Hybrid Alternative without Mitigation for Design Year 2035

Site	Source Height	Distance to HST Track (feet)	Land Use Type	Existing Noise Level (L _{dn})	Projected HST Noise Level (L _{dn})	Impact Criteria		Total Noise Level (L _{dn})	Noise Level Increase (dBA)	FRA Impact No Mitigation
						Severe	Moderate			
ST-198	52.0	1,730	Residential	73	55	72	65	73	0	None
ST-203	63.0	1,228	Residential	69	59	69	64	69	0	None
ST-230	41.0	501	Residential	66	60	67	61	67	1	None
ST-231	41.0	595	Residential	68	60	68	63	69	1	None
ST-232	41.0	512	Residential	64	60	65	60	65	2	Moderate
ST-233	41.0	289	Residential	62	62	64	59	65	3	Moderate
ST-234	41.0	292	Residential	68	62	68	63	69	1	None
ST-235	41.0	793	Residential	67	59	67	62	67	1	None
ST-236	41.0	713	Residential	75	59	73	65	75	0	None
ST-237	46.0	890	Residential	73	58	71	65	73	0	None
ST-238	44.0	1,104	Residential	72	57	71	65	72	0	None
ST-239	43.0	1,197	Residential	74	57	72	65	74	0	None

Acronyms:

dBA A-weighted decibel(s)
 FRA Federal Railroad Administration
 L_{dn} day-night sound level

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