

13.0 Index

A

access, emergency (see *emergency access*)

accident(s) S-16, S-25; 1-17, 1-20; 3.6-45; 3-10-14, 3-10-29, 3-10-30, 3-10-33, 3-10-35, 3-10-36, 3-10-39; 3.11-2, 3.11-4, 3.11-7, 3.11-17 through 3.11-19, 3.11-25 through 3.11-27, 3.11-29, 3.11-34, 3.11-37, 3.11-38, 3.11-40, 3.11-41, 3.11-46; 3.12-112, 3.12-124; 3.19-35

Alquist-Priolo Earthquake Fault Zoning Act 3.9-2, 3.9-7

American Recovery and Reinvestment Act (ARRA) 1-5; 2-113,

Americans with Disabilities Act (ADA) 1-30; 2-6; 3.11-20; 3.12-2; 8-20

Amtrak S-5, S-29, S-33, Tables S-2 and S-3; 1-4, 1-16, 1-19, 1-21, 1-25 through 1-30, 1-36; 2-24, 2-30, 2-31, 2-51 through 2-54, 2-79, 2-114; 3.2-18, 3.2-37, 3.2-43, 3.2-64, 3.2-65, 3.2-73; 3.371; 3.4-14, 3.4-27, 3.4-31; 3.11-17, 3.11-18; 3.12-61, 3.12-72, 3.12-115, 3.12-128; 3.13-12, 3.13-30, 3.13-34; 3.15-15, 3.15-18, 3.15-20, 3.15-23, 3.15-24, 3.15-32, 3.15-38, 3.15-43 through 3.15-54; 3.16-96, 3.16-98, 3.16-108; 3.17-57, 3.17-131; 3.19-7, 3.19-15, 3.19-16, 3.19-45; 4-13, 4-19, 4-25, 4-40; 7-6; 8-12, 8-16, 8-20, 8-23; 9-13, 9-14

Allensworth Ecological Reserve S-25, S-29, S-32, S-34, S-37, Tables S-2 and S-3; 2-28, 2-70, 2-120; 3.7-43, 3.7-44; 3.7-50, 3.7-85, 3.7-86, 3.7-88, 3.7-90, 3.7-92, 3.7-94, 3.7-96, 3.7-98, 3.7-100, 3.7-144, 3.7-146, 3.7-148, 3.7-150, 3.7-152, 3.7-154, 3.7-156, 3.7-159, 3.7-171, 3.7-194, 3.7-196, 3.7-206, 3.7-211, 3.7-232, 3.7-244; 3.12-128; 3.13-20, 3.13-45; 3.15-13, 3.15-20, 3.15-22, 3.15-25, 3.15-29, 3.15-31, 3.15-33, 3.15-34, 3.15-39, 3.15-43, 3.15-45, 3.15-50, 3.15-53; 3.19-44; 4-7, 4-11, 4-19, 4-23, 4-34, 4-36, 4-37, 4-49, 4-57; 7-12

attainment S-22, S-66; 3.3-1, 3.3-2, 3.3-10, 3.3-34, 3.3-43, 3.3-44, 3.3-50, 3.3-51, 3.3-59, 3.3-60, 3.3-61, 3.3-84, 3.3-89, 3.3-94; 3.7-216; 3.12-109; 3.19-12

B

Bakersfield Station 2-20, 2-31, 2-71 through 2-73, 2-79, 2-80, 2-84 through 2-87, 2-105; 3.2-43 through 3.2-52, 3.2-60, 3.2-66, 3.2-70, 3.2-99 through 3.2-113, 3.2-136 through 3.2-138, 3.2-142, 3.2-143; 3.3-20, 3.3-72, 3.3-77 through 3.3-79, 3.3-82, 3.3-90; 3.4-26, 3.4-56; 3.6-19, 3.6-48 through 3.6-53, 3.6-56 through 3.6-63, 3.6-66, 3.6-70, 3.6-71; 3.7-113, 3.7-135, 3.7-136, 3.7-164, 3.7-165, 3.7-170, 3.7-230, 3.7-246, 3.7-247; 3.8-44 through 3.8-48, 3.8-52, 3.8-61, 3.8-65; 3.9-17, 3.9-19, 3.9-38; 3.11-37; 3.12-38, 3.12-72, 3.12-84, 3.12-90, 3.12-91, 3.12-108, 3.12-118, 3.12-119, 3.12-132, 3.12-133; 3.13-15, 3.13-21, 3.13-30 through 3.13-34, 3.13-46, 3.13-49, 3.13-53, 3.13-57, 3.13-58; 3.15-18 through 3.15-24, 3.15-38, 3.15-47, 3.15-54; 3.16-47, 3.16-56, 3.16-57, 3.16-108 through 3.16-111, 3.16-124, 3.16-125, 3.16-130, 3.16-131; 3.17-125; 3.18-29; 3.19-7, 3.19-22; 4-54

BNSF Railway S-12, S-21; 2-3, 2-24 through 2-31, 2-43 through 2-45, 2-53, 2-54, 2-61 through 2-72, 2-79, 2-93, 2-95, 2-96; 3.2-18, 3.2-65, 3.2-75; 3.4-15, 3.4-18, 3.4-31, 3.4-33, 3.4-34, 3.4-51; 3.5-21; 3.7-25, 3.7-26; 3.8-30, 3.8-51; 3.11-16, 3.11-17, 3.11-31; 3.13-36, 3.13-42 through 3.13-44, 3.13-50; 3.16-27, 3.16-34; 3.19-36, 3.19-43; 4-9 through 4-12; 7-6, 7-14

C

CAA (see *Clean Air Act*)

California tiger salamander S-70, S-74, S-76; 3.7-30, 3.7-38, 3.7-58, 3.7-60, 3.7-66 through 3.7-68, 3.7-70 through 3.7-72, 3.7-116, 3.7-118, 3.7-120, 3.7-122, 3.7-124, 3.7-183, 3.7-184, 3.7-196, 3.7-202, 3.7-205 through 3.7-208, 3.7-211, 3.7-218, 3.7-219, 3.7-232, 3.7-235, 3.7-239;

Clean Air Act (CAA) S-8; 1-21; 3.3-1, 3.3-2, 3.3-5, 3.3-85; 3.10-2; 3.18-3

California Clean Air Act (CCAA) 3.3-6

Clean Air Act Amendments (CAAA) 3.3-21

Clean Water Act (CWA) S-8, S-38; 1-3, 1-6; 2-1, 2-19, 2-116, 2-120, 2-121; 3.1-8; 3.7-3, 3.7-6, 3.7-20, 3.7-35, 3.7-49, 3.7-79, 3.7-136, 3.7-200; 3.8-1 through 3.8-3, 3.8-5, 3.8-6, 3.8-11, 3.8-28, 3.8-59; 3.10-2; 3.19-28, 3.19-29; 7-3, 7-5, 7-16, 7-17; 8-11

Cole Slough 2-59, 2-64; 3.7-32, 3.7-63, 3.7-81, 3.7-116, 3.7-136; 3.8-23, 3.8-30 through 3.8-32, 3.8-37, 3.8-38, 3.8-68; 3.9-24; 3.11-36

Colonel Allensworth State Historic Park S-29, S-34, S-84, S-85; 3.7-170; 3.12-61, 3.12-128, 3.12-131; 3.15-3, 3.15-13, 3.15-19, 3.15-20, 3.15-22, 3.15-25, 3.15-29, 3.15-30, 3.15-33, 3.15-34, 3.15-40, 3.15-42, 3.15-46, 3.15-50 through 3.15-54; 3.16-12, 3.16-13, 3.16-34 through 3.16-36, 3.16-59, 3.16-67, 3.16-73, 3.16-76, 3.16-98, 3.16-99, 3.16-121, 3.16-122; 3.17-8; 3.19-43, 3.19-44; 4-19, 4-22, 4-30, 4-33 through 4-35, 4-49, 4-75, 4-76; 6-2

conformity S-38; 2-120; 3.3-1 through 3.3-2, 3.3-21, 3.3-34, 3.3-45, 3.3-79, 3.3-84 through 3.3-85; 3.5-17

congestion S-5, S-10, S-17, S-20, S-21, S-27; 1-7, 1-12, 1-14, 1-19, 1-20, 1-27, 1-30; 2-41, 2-53, 2-78, 2-107, 2-111; 3.2-1, 3.2-6, 3.2-52, 3.2-64, 3.2-65, 3.2-67, 3.2-96, 3.2-99, 3.2-143; 3.3-71; 3.11-27; 3.12-50, 3.12-51, 3.12-53, 3.12-54, 3.12-59, 3.12-96, 3.12-113, 3.12-120, 3.12-134, 3.12-143, 3.12-144; 3.13-8, 3.13-9, 3.13-35, 3.13-36; 3.18-5, 3.18-10; 3.19-8 through 3.19-10, 3.19-36, 3.19-40; 6-1, 6-2; 8-6

consistency S-37; 1-5; 2-19; 3.2-67; 3.7-198; 3.13-13, 3.13-18; 3.14-52; 3.18-37; 7-11, 7-13

conversion, convert S-5, S-17, S-19, S-20, S-24, S-28 through S-34, S-56, S-82, S-94; 1-23, 1-24, 1-29; 2-107; 3.7-43, 3.7-63, 3.7-113, 3.7-114, 3.7-135, 3.7-218, 3.7-223, 3.7-231; 3.8-61; 3.12-52, 3.12-127, 3.12-128, 3.12-130; 3.13-2, 3.13-14, 3.13-16, 3.13-37, 3.13-38, 3.13-42, 3.13-45 through 3.13-47, 3.13-52, 3.13-61, 3.13-62; 3.14 multiple; 3.15-1, 3.15-2; 3.17-101, 3.17-102; 3.18-19, 3.18-37; 3.19-6, 3.19-25, 3.19-26, 3.19-41 through 3.19-43, 3.19-47; 4-3, 4-74 through 4-77; 6-2, 6-3

Cottonwood Creek 3.8-23

Cowardin Classification System 3.7-15

CWA (see *Clean Water Act*)

D

delay(s)

intersection 3.2-9/3.2-10, 3.2-20, 3.2-37/3.2-38, 3.2-49, 3.2-51, 3.2-71/3.2-72, 3.2-86 through 3.2-91, 3.2-95, 3.2-97/3.2-98, 3.2-104 through 3.2-114, 3.2-117, 3.2-119/3.2-120; 3.3-18/3.3-19

travel S-10, S-21; 1-7, 1-12, 1-17, 1-20, 1-21

vehicle/vehicular 1-20; 3.2-5/3.2-6, 3.2-70, 3.2-123; 3.11-16, 3.11-25

disruption

of service 2-9, 3.2-67; 3.6-44; 3.6-45, 3.6-50/3.6-51, 3.6-55 through 3.6-69; 3.8-76

of community(ies) S-27/S-28, S-32, S-80, S-88 through S-90; 2-19, 2-23, 2-27, 2-32;
3.2-63, 3.2-67, 3.2-73; 3.12 multiple; 3.13-35 through 3.13-37, 3.13-60 through 3.13-63;
3.14-45; 3.16-141; 3.19-36 through 3.19-40, 3.19-52

Dutch Slough 2-59, 2-65

E

economic growth 1-9, 1-11, 1-30; 3.4-78; 3.12-1; 3.13-11, 3.13-12; 3.18-8, 3.18-9, 3.18-31,
3.18-37, 3.18-38; 8-6

economics 3.12 throughout; 3.19-37, 3.19-38

emergency access S-7; 2-17; 3.2-11, 3.2-67 through 3.2-72, 3.2-77 through 3.2-81, 3.2-122,
3.2-143; 3.7-223; 3.11-7, 3.11-15, 3.11-44

emergency services S-26, S-78; 3.11-4 through 3.11-8, 3.11-25 through 3.11-28, 3.11-35, 3.11-
37, 3.11-45, 3.11-48; 3.12-54, 3.12-113, 3.12-124, 3.12-135; 3.19-34/3.19-35

emissions S-20, S-22, S-28, S-66, S-67, S-80; 1-6, 1-22 through 1-24; 2-107, 2-111, 2-112, 2-
117; 3.2-50; 3.3 multiple; 3.4-1; 3.5-3, 3.5-5, 3.5-13, 3.5-17; 3.6-2/3.6-3; 3.7-214 through 3.7-
216; 3.10-2, 3.10-8, 3.10-29, 3.10-33; 3.12-50, 3.12-53, 3.12-60, 3.12-73, 3.12-75, 3.12-109,
3.12-120, 3.12-141; 3.13-60, 3.13-63; 3.14-5; 3.15-50; 3.18-2 through 3.18-4, 3.18-20; 3.19-9
through 3.19-14

employment S-13, S-17, S-18, S-20, S-26, S-27, S-39; 1-10, 1-11; 2-37/2-38, 2-40; 3.2-63;
3.12-8, 3.12-32 through 3.12-34, 3.12-52, 3.12-54, 3.12-58/3.12-59, 3.12-96, 3.12-98/3.12-99,
3.12-101, 3.12-103 through 3.12-105, 3.12-134, 3.12-142, 3.12-144/3.12-145; 3.13-58, 3.13-59;
3.18-1, 3.18-10/3.18-11, 3.18-15 through 3.18-38; 3.19-6, 3.19-37 through 3.19-39; 5-13; 8-6,
8-41, 8-45, 8-59

Endangered Species Act (ESA)

California (CESA) 2-120; 3.7-2, 3.7-6, 3.7-8, 3.7-174

Federal (federal ESA) S-38; 3.7-2 through 3.7-6, 3.7-8/3.7-9, 3.7-38, 3.7-44, 3.7-171,
3.7-174; 7-17

energy

consumed/consumption 3.3-16, 3.3-63, 3.3-70, 3.3-88 through 3.3-91; 3.6 multiple

demand S-16; 3.6-12, 3.6-34 through 3.6-37, 3.6-42 through 3.6-50, 3.6-61 through
3.6-64, 3.6-66, 3.6-72, 3.6-77 through 3.6-79; 3.19-18 through 3.19-21

efficiency 1-23; 2-112; 3.6-2 through 3.6-4, 3.6-72, 3.6-77; 3.18-5

renewable S-20; 2-12; 3.3-16, 3.3-63, 3.3-69; 3.6-3, 3.6-36, 3.6-77; 3.19-13

F

fairy shrimp (see *vernal pool fairy shrimp*)

fire S-78; 3.3-11; 3.7-53, 3.7-80, 3.7-105, 3.7-137, 3.7-175, 3.7-213, 3.7-222; 3.11-5 through 3.11-9, 3.11-15 through 3.11-17, 3.11-35, 3.11-37 through 3.11-48; 3.12-39 through 3.12-41, 3.12-54, 3.12-58; 3.19-34/3.19-35

flood/floodplain 2-9, 2-95/2-96, 2-121; 3.6-27 through 3.6-29; 3.7- 3, 3.7-22, 3.7-26, 3.7-35 through 3.7-37, 3.7-221, 3.7-231; 3.8 multiple; 3.9-1, Table 3.9-1, 3.9-19, 3.9-22, 3.9-37/3.9-38; 3.11-42; 3.16-40; 3.19-21, 3.19-27/3.19-28, 3.19-30 through 3.19-32; 4-24, 4-75

G

greenhouse gas (GHG) S-22; 1-21/1-22; 2-107; 3.1-8; 3.3-5 through 3.3-8, 3.3-10, 3.3-13, 3.3-17/3.3-18, 3.3-24 through 3.3-26, 3.3-35, 3.3-53/3.3-54, 3.3-57, 3.3-64 through 3.3-70, 3.3-93; 3.6-75; 3.9-12, Table 3.9-5; 3.13-2, 3.13-35; 3.14-5; 3.18-2/3.18-3, 3.18-19/3.18-20, 3.18-34/3.18-35, 3.18-38; 3.19-9/3.19-10, 3.19-13, 3.19-40; 6-3

groundwater well 2-70; 3.6-20, 3.6-23, 3.6-61, 3.6-63, 3.6-64; 3.8-12, 3.8-61, 3.8-62, 3.8-64, 3.8-76; 3.9-30; 3.10-9;

growth

economic S-5, S-18; 1-9 through 1-11; 3.7-9; 3.12-1, 3.12-32 through 3.12-34, 3.12-98; 3.13 multiple; 3.16-60, 3.16-61; 3.18 multiple; 3.19-2 through 3.19-6, 3.19-8; 6-3

planned S-14, S-15, S-20; 2-37 through 2-41; 2-112; Table 3.14-1, 3.14-34, 3.14-47; 3.17-102; 3.18 multiple

population S-11, S-13, S-16 through S-18, S-20, S-30; 1-9 through 1-12, 1-23 through 1-25; 3.3-46; 3.5-14; 3.6-37, 3.6-44; 3.7-21; 3.9-27; 3.11-25; 3.12-17/3.12-18, 3.12-24/3.12-25, 3.12-54, 3.12-96; 3.13 multiple; 3.14-41; 3.15-26; 3.18 multiple; 3.19-10,, 3.19-18 through 3.19-23, 3.19-34, 3.19-40, 3.19-44/3.19-45

travel S-10, S-16; 1-7; 1-14 through 1-16, 1-19/1-20; 2-50, 2-53, 2-101; 3.2-7, 3.2-52, 3.2-63 through 3.2-65; 3.3-71; 3.6-12; 3.13 multiple

H

habitats of concern S-44 through S-46, S-50 through S-52; 3.7-1/3.7-2, 3.7-21, 3.7-32 through 3.7-34, 3.7-39, 3.7-41, 3.7-49, 3.7-51, 3.7-79 through 3.7-81, 3.7-86, 3.7-94, 3.7-98, 3.7-103, 3.7-135 through 3.7-138, 3.7-144, 3.7-146, 3.7-148, 3.7-150, 3.7-152, 3.7-154, 3.7-156, 3.7-159, 3.7-161 through 3.7-163, 3.7-170, 3.7-173, 3.7-177/3.7-178, 3.7-180, 3.7-192 through 3.7-195, 3.7-199, 3.7-203, 3.7-217, 3.7-218, 3.7-237, 3.7-241; 3.12-110, 3.12-121; 3.19-23 through 3.19-26

historic property, properties S-30 through S-32, S-34; 3.4-5; 3.16-2, 3.16-10, 3.16-120; 3.17 multiple; 3.19-49, 3.19-50; 4-3, 4-7, 4-25/4-26, 4-42/4-43, 4-45 through 4-47, 4-53, 4-54, 4-56, 4-60 through 4-62, 4-66, 4-73, 4-76; 7-10

Hoover's woolly-star 3.7-1, 3.7-28, 3.7-40

I

intercity travel S-9/ S-10; 1-1, 1-5 through 1-8, 1-11 through 1-22; 2-20, 2-53; 3.2-63, 3.2-64; 3.11-25, 3.11-29; 3.18-31; 4-8, 4-48

J

jobs S-18, S-27; 1-10/1-11, 1-24; 2-37; 3.12-8, 3.12-33, 3.12-54, 3.12-57, 3.12-58, 3.12-98, 3.12-101, 3.12-103, 3.12-144, 3.12-145; 3.18-15, 3.18-17, 3.18-21 through 3.18-33. 3.18-37; 3.19-4, 3.19-6, 3.19-37/3.19-38; 7-6; 8-45

K

Kern River Parkway S-29, S-34, S-83, S-85, S-86; 3.15-14, 3.15-23 through 3.15-25, 3.15-29, 3.15-34, 3.15-36, 3.15-40, 3.15-43, 3.15-46, 3.15-51 through 3.15-53; 3.16-12, 3.16-40, 3.16-59, 3.16-67, 3.16-68, 3.16-103, 3.16-104, 3.16-121, 3.16-123, 3.16-129, 3.16-146; 3.19-44, 3.19-46 through 3.19-48; 4-19, 4-24, 4-38/4-39, 4-54/4-55, 4-64, 4-73 through 4-77, 4-79; 6-2; 8-32, 8-35

L

M

meeting(s) S-5, S-11, S-35, S-36; 1-23; 2-18, 2-19; 3.4-1, 3.4-9; 3.7-171, 3.7-174; 3.10-33; 3.12-14 through 3.12-16, 3.12-134; 3.13-16; Table 3.17-3; 4-23; 7-1, 7-4; 8.0 multiple

movement corridor(s) S-24/S-25, S-69, S-76; 3.7-1 through 3.7-5, 3.7-12/3.7-13, 3.7-17, 3.7-20/3.7-21, 3.7-44 through 3.7-46, 3.7-49, 3.7-51, 3.7-100 through 3.7-103, 3.7-164 through 3.7-171, 3.7-178, 3.7-180, 3.7-192, 3.7-194, 3.7-203, 3.7-206, 3.7-217/3.7-218, 3.7-219, 3.7-224, 3.7-231 through 3.7-233, 3.7-243; 3.19-23, 3.19-25/3.19-26

N

National Historic Preservation Act (NHPA) S-8, S-30; 2-120; 3.1-8; 3.7-36; 3.12-116; 3.16-2, 3.16-60, 3.17-1 through 3.17-4, 3.17-11, 3.17-12, 3.17-16, 3.17-19, 3.17-43, 3.17-103, 3.17-104, 3.17-137; 3.19-50; 4-2, 4-3, 4-5, 4-7, 4-26, 4-34, 4-41, 4-43 through 4-45, 4-56, 4-67; 7-5, 7-17

natural gas 3.2-48, 3.3-9, 3.3-65, 3.3-74, 3.3-76, 3.6-1 through 3.6-3, 3.6-10, 3.6-11, 3.6-15, 3.6-16, 3.6-18, 3.6-33, 3.6-35, 3.6-36, 3.6-39, 3.6-45, 3.6-52, 3.6-53, 3.6-57, 3.6-58, 3.9-2, 3.9-3, 3.9-7, 3.9-31, 3.10-5, 3.10-11, 3.10-33, 3.10-34, 3.10-36, 3.19-17, 3.19-18, 3.19-20

natural resources S-11; 1-4, 1-5, 1-21, 2-18, 3.6-9, 3.8-8, 3.9-5, 3.18-33, 3.19-1, 3.19-27, 4-8, 4-45, 6-2, 6-4, 7-3, 7-4

nonattainment 1-22, 3.3-1, 3.3-2, 3.3-6, 3.3-21, 3.3-34, 3.3-35, 3.3-43, 3.3-44, 3.3-50, 3.3-60, 3.3-61, 3.3-79, 3.3-84, 3.3-92; 3.12-109; 3.19-10

O

outreach xxv, S-5, S-34, S-92; 3.2-65, 3.12-1, 3.12-9, 3.12-12 through 3.12-14, 3.12-50, 3.12-119, 3.12-120, 3.12-121, 3.13-8, 3.13-16, 3.15-7, 3.17-19, 3.17-21, 3.17-22, 3.17-26, 3.17-27, 3.17-30, 3.19-37, 7-1 through 7-3, 7-7, 7-10, 7-12, 7-18, 7-20, 7-21, 7-23, 7-27 through 7-30, 7-34, 7-35, 7-42

P

paleontological resources S-30/S-31, S-59 through S-64, S-85; 3.12-48, 3.12-59, 3.12-65, 3.12-112, 3.12-113, 3.17-1 through 3.17-3, 3.17-5 through 3.17-7, 3.17-9, 3.17-12, 3.17-18, 3.17-19, 3.17-32, 3.17-33, 3.17-85 through 3.17-87, 3.17-90, 3.17-93, 3.17-94, 3.17-116, 3.17-117, 3.17-126, 3.17-128, 3.17-132, 3.19-45 through 3.19-47, 3.19-52

parking, parking facilities S-14, S-20, S-80; 1-26, 2-6, 2-8, 2-16, 2-69 through 2-71, 2-76, 2-77, 2-78, 2-99, 2-100, 2-101, 2-106, 3.1-4, 3.2-3, 3.2-10, 3.2-31, 3.2-36, 3.2-42, 3.2-49, 3.2-66, 3.2-67, 3.2-70, 3.2-98, 3.2-99, 3.2-102, 3.2-105, 3.2-110, 3.2-111, 3.2-125 through 3.2-127, 3.3-17, 3.3-18, 3.3-27, 3.3-71 through 3.3-73, 3.4-14, 3.6-65, 3.6-67, 3.7-17, 3.8-16, 3.8-40, 3.8-43, 3.8-52, 3.8-53, 3.8-57, 3.8-66, 3.11-15, 3.11-20, 3.12-51, 3.12-63, 3.12-70, 3.12-72 through 3.12-74, 3.12-76, 3.12-120, 3.12-121, 3.12-126, 3.13-6, 3.13-7, 3.13-15, 3.13-21, 3.13-29, 3.13-44, 3.13-46 through 3.13-53, 3.13-57, 3.13-61, 3.15-5, 3.15-32, 3.15-34, 3.16-4, 3.16-14, 3.16-40, 3.16-41, 3.16-47, 3.16-50, 3.16-63, 3.16-64, 3.16-83, 3.16-94, 3.16-116, 3.16-121, 3.16-128, 3.16-133, 3.16-139, 3.16-141, 3.16-144, 3.17-111, 3.19-25, 3.19-27, 4-9, 4-14, 4-15

parks S-13, 2-37, 2-106, 3.4-27, 3.4-28, 3.4-34, 3.4-44, 3.12-38, 3.12-40, 3.12-48, 3.12-64, 3.12-68, 3.12-112, 3.13-19, 3.15-1 through 3.15-7, 3.15-18 through 3.15-27, 3.15-29, 3.15-32, 3.15-33, 3.15-43, 3.15-45 through 3.15-48, 3.16-1, 3.16-5 through 3.16-8, 3.16-27, 3.19-40 through 3.19-42, 4-1, 4-12

Colonel Allensworth State Historic Park S-29, S-34, S-84, S-85; 3.7-170; 3.12-61, 3.12-128, 3.12-131; 3.15-3, 3.15-13, 3.15-19, 3.15-20, 3.15-22, 3.15-25, 3.15-29, 3.15-30, 3.15-33, 3.15-34, 3.15-40, 3.15-42, 3.15-46, 3.15-50 through 3.15-54; 3.16-12, 3.16-13, 3.16-34 through 3.16-36, 3.16-59, 3.16-67, 3.16-73, 3.16-76, 3.16-98, 3.16-99, 3.16-121, 3.16-122; 3.17-8; 3.19-43, 3.19-44; 4-19, 4-22, 4-30, 4-33 through 4-35, 4-49, 4-75, 4-76; 6-2

Chukchansi Park 2-70, 3.12-74, 3.13-21, 3.15-13, 3.15-18 through 20, 3.15-26, 3.15-32 through 3.15-35, 3.15-40, 3.15-44

Father Stephen Wyatt Park S-24, S-45, S-46, S-71 through S-73, 3.15-13, 3.15-18, 3.15-22, 3.15-27, 3.15-29, 3.15-33, 3.15-34, 3.15-40, 3.15-42, 3.15-47 through 3.15-50, 3.16-12, 3.19-41, 4-13, 4-14, 4-31

Jastro Park 3.15-14, 3.15-23, 3.15-24, 3.16-107, 3.16-125, 3.16-132

Kern River Parkway S-29, S-34, S-83, S-85, S-86; 3.15-14, 3.15-23 through 3.15-25, 3.15-29, 3.15-34, 3.15-36, 3.15-40, 3.15-43, 3.15-46, 3.15-51 through 3.15-53; 3.16-12, 3.16-40, 3.16-59, 3.16-67, 3.16-68, 3.16-103, 3.16-104, 3.16-121, 3.16-123, 3.16-129, 3.16-146; 3.19-44, 3.19-46 through 3.19-48; 4-19, 4-24, 4-38/4-39, 4-54/4-55, 4-64, 4-73 through 4-77, 4-79; 6-2; 8-32, 8-35

Orchard Park 2-38, 3.13-13, 3.15-14, 3.15-22, 3.15-25, 3.15-30, 3.15-38, 3.15-43, 3.19-41, 3.19-43, 3.19-44

Stringham Park 3.15-14, 3.15-19

particulate matter (PM) S-17, S-18, S-50, S-51, 1-19, 1-21, 2-86, 2-87, 3.3-2, 3.3-3, 3.3-10 through 3.3-12, 3.3-14, 3.3-19 through 3.3-21, 3.3-23 through 26, 3.3-29, 3.3-31 through 3.3-33, 3.3-36 through 3.3-42, 3.3-44 through 3.3-46, 3.3-49 through 3.3-55, 3.3-64, 3.3-65, 3.3-73 through 3.3-78, 3.3-80 through 3.3-86, 3.13-1, 3.19-8, 3.19-9, 3.19-12, 3.19-13, 6-3

Pacific Gas and Electric Company (PG&E) 2-12, 3.6-16, 3.6-18, 3.6-44, 3.6-55, 3.6-56, 3.6-58, 3.6-72, 3.6-77, 3.7-37, 3.11-18, 3.19-10

Pixley National Wildlife Refuge 2-26, 3.7-15, 3.7-35, 3.8-23, 3.8-45, 3.13-20, 3.13-43, 3.15-13, 3.15-18, 3.15-27, 3.15-34, 3.15-40

PM (see *particulate matter*)

Poso Creek 2-53, 2-58, 2-64, 2-65, 2-67, 3.2-76, 3.6-20, 3.7-19, 3.7-29, 3.7-38, 3.7-41, 3.7-85, 3.7-93, 3.7-101, 3.7-131, 3.7-138, 3.7-142, 3.7-143, 3.7-156, 3.7-157, 3.7-193, 3.8-12, 3.8-23, 3.8-26, 3.8-29, 3.8-34, 3.8-36, 3.8-47, 3.8-55, 3.8-60, 3.8-64, 3.8-65, 3.9-18, 3.11-36, 3.16-11, 3.17-36, 3.19-42

Preferred Alternative S-6, S-37, S-38; 3.3-86; 3.17-2, 3.17-16; 4-64, 4-68; 6-1; 7-1 through 7-3, 7-7 through 7-17; 8-18

Q

R

rail

conventional rail 1-5, 1-16, 1-18, 2-35, 2-112, 3.2-64, 3.11-2, 3.11-28 through 3.11-30, 3.18-10, 4-8, 5-10

freight S-19, 1-13, 1-14, 1-18, 1-24, 1-25, 1-27, 2-4, 2-10, 2-18, 2-27, 2-29, 2-35, 2-50, 2-52, 2-53, 2-60, 3.2-1, 3.2-2, 3.2-10, 3.2-17, 3.2-42, 3.2-51, 3.2-63, 3.2-64, 3.2-67, 3.2-71, 3.2-99, 3.2-103, 3.2-106, 3.2-111, 3.2-127, 3.4-2, 3.4-13, 3.4-24 through 3.4-26, 3.4-29, 3.4-32, 3.4-48, 3.4-49, 3.4-72, 3.4-73, 3.5-13, 3.5-19, 3.5-20, 3.6-13, 3.8-23, 3.8-43, 3.8-47, 3.8-60, 3.8-61, 3.10-34, 3.10-35, 3.11-2, 3.11-3, 3.11-17, 3.11-28 through 3.11-30, 3.11-34, 3.11-42, 3.11-52, 3.12-66, 3.12-67, 3.13-4, 3.13-5, 3.13-7, 3.13-11, 3.13-32, 3.13-41, 3.13-42, 3.14-55, 3.15-26, 3.16-13, 3.16-22, 3.16-41, 3.16-50, 3.16-57, 3.16-67, 3.16-93, 3.16-137, 3.17-75, 3.17-76, 3.17-96, 3.17-109, 3.17-112, 3.18-5, 3.19-14, 3.19-42, 4-8, 4-14, 4-29, 4-31, 4-32, 4-42, 4-45, 4-50, 7-21

passenger rail 1-1, 1-3, 1-5, 1-14, 1-16 through 1-19, 1-23 through 1-25, 1-31, 2-4 through 2-6, 2-10, 2-13, 2-15, 2-16, 2-35, 2-49 through 2-52, 2-70, 2-99 through 2-103, 2-105 through 2-108, 2-113, 3.1-5, 3.2-1, 3.2-2, 3.2-4, 3.2-6, 3.2-11, 3.2-17, 3.2-48, 3.2-62 through 3.2-65, 3.2-67, 3.2-71, 3.4-2, 3.4-24, 3.4-32, 3.5-5, 3.5-13, 3.5-15, 3.5-19, 3.10-34 through 3.10-37, 3.11-1 through 3.11-4, 3.11-6, 3.11-15, 3.11-17, 3.11-28, 3.11-29, 3.11-34, 3.11-35, 3.11-40, 3.12-78, 3.13-4, 3.13-5, 3.13-10 through 3.13-12, 3.17-81, 3.18-6

rescue S-66, 3.11-8 3.11-9, 3.11-24, 3.11-25, 3.11-35, 3.11-37, 3.11-43 through 3.11-46, 3.19-33

rivers 2-8, 2-59, 2-65, 3.7 multiple, 3.8 multiple, 3.9-1, 3.9-6, 3.9-10, 3.9-11, 3.9-12, 3.9-16, 3.9-22, 3.9-27, 3.9-28, 3.9-30, 3.9-33, 3.9-35, 3.9-36, 3.9-40, 3.11-42, 3.15-43, 3.16 multiple, 3.17 multiple

Kern River S-90, 1-30, 2-31, 2-59, 2-66, 2-71, 2-72, 21-115, 2-119, 3.6-21, 3.6-22, 3.7 multiple, 3.8 multiple, 3.12-65, 3.13-43, 3.16 multiple, 3.17-48, 3.17-57, 3.17-87, 3.17-96, 3.17-97, 3.19-23, 3.19-27, 3.19-28, 3.19-30, 3.19-46, 3.19-

Kings River S-6, S-7, S-12, 2-59, 2-61, 2-64, 2-65, 2-67, 3.2-75, 3.4-71, 3.6-21 thru -23. 3.7 multiple, 3.8 multiple, 3.9-37, 3.10-9, 3.11-36, 3.12-38, 3.16-11, 3.16-23, 3.16-84 3.16-94, 3.17-48, 3.17-87, 3.19-23, 3.19-24, 3.19-27, 3.19-28, 3.19-30, 3.19-32, 3.19-45

Tule River 2-28, 2-65, 2-70, 3.2-75, 3.2-79, 3.6-17, 3.7-43, 3.7-46, 3.7-48, 3.7-82, 3.7-89, 3.7-90, 3.7-91, 3.7-102, 3.7-137, 3.7-139, 3.7-149 thru -152, 3.7-167, 3.7-168, 3.7-231, 3.8-13, 3.8-24, 3.8-28, 3.8-31, 3.8-50, 3.8-54, 3.8-58, 3.8-3.8-64, 3.8-69, 3.9-37, 3.11-36, 3.14-32, 3.16-11, 3.16-23, 3.16-94, 3.17-48, 3.19-23, 3.19-27, 3.19-28, 3.19-45, 4-11

road closure S-19, S-21, S-42, S-44, S-66, 2-36, 2-69, 2-117, 3.2 multiple, 3.11-27, 3.11-28, 3.11-35, 3.11-43, 3.12-50, 3.12-53, 3.12-54, 3.12-106, 3.12-107, 3.12-109, 3.12-113, 3.12-114, 3.12-120, 3.12-124, 3.13-36, 3.19-7, 3.19-36, 7-10

runoff S-16, 2-59, 3.6-6, 3.6-27, 3.6-67, 3.6-69, 3.7-37, 3.7-38, 3.7-50, 3.7-54, 3.7-61, 3.7-63, 3.7-106, 3.7-115, 3.7-138, 3.8 multiple, 3.9-28, 3.9-30, 3.9-40, 3.12-111, 3.12-122, 3.19-6, 3.19-24, 3.19-28 thru -31

S

safety S-1, S-5, S-16, S-21, S-23, S-25, S-36, S-54, S-55, S-78, 1-1, 1-3, 1-5, 1-7, 1-20, 1-21, 1-25, 1-28, 2-3 thru 2-5, 2-12, 2-16, 2-17, 2-102, 2-106, 2-115, 2-117, 3.1-2, 3.2-1, 3.2-9, 3.2-10, 3.2-11, 3.2-67, 3.2-68 thru -71, 3.2-121 thru -123, 3.3-5, 3.3-7, 3.3-32, 3.3-62, 3.3-82, 3.3-90, 3.4-2, 3.4-31, 3.4-51, 3.4-52, 3.5-3, 3.5-4, 3.5-5, 3.5-17, 3.5-18, 3.5-21, 3.6-1, 3.6-2, 3.6-4, 3.6-5, 3.6-10, 3.6-11, 3.7-166, 3.7-175, 3.7-215, 3.7-213, 3.8-4, 3.8-7, 3.8-9, 3.8-10, 3.8-50, 3.8-59, 3.9-1, 3.9-3 thru -6, 3.9-16, 3.9-22, 3.9-27, 3.9-28, 3.9-36 thru -38, 3.10 multiple, 3.11 multiple, 3.12 multiple, 3.13-5, 3.13-9, 3.14-6, 3.14-60, 3.15-48, 3.16-60, 3.16-63, 3.16-116, 3.17-7, 3.17-9, 3.17-89, 3.17-131, 3.18-5, 3.18-7, 3.19-32, 3.19-34, 3.19-35, 3.19-52. 4-32, 4-39, 7-4, 7-8, 7-10, 7-14

San Joaquin kit fox 3.7 multiple, 3.19-24

San Joaquin River 3.3-14, 3.6-20, 3.8-5, 3.8-55, 3.9-4, 3.10-9

San Joaquin woolly threads 3.7-15, 3.7-29, 3.7-41

scenic corridors 3.16-2, 3.16-4

school Summary multiple, 2-30, 2-32, 2-39, 2-40, 2-66, 2-71, 2-72, 3.1-2, 3.2-71, 3.2-72, 3.2-120 thru 3.2-123, 3.4-3 thru 3.4-50, 3.4-75, 3.5-6, 3.5-12 thru -17, 3.10 multiple, 3.11 multiple, 3.12 multiple, 3.13-16, 3.13-30, 3.13-35, 3.13-43, 3.13-46, 3.13-53, 3.13-59, 3.14-46, 3.15 multiple, 3.16 multiple, 3.17-59, 3.17-60, 3.17-64, 3.17-86, 3.17-87, 3.17-96, 3.17-117, 3.17-119, 3.17-120, 3.17-141, 3.18-33, 3.19-5, 3.19-7, 3.19-13, 3.19-33, 3.19-38, 3.19-45, 4-22, 4-23, 4-45, 4-46, 7-5, 7-15, 8-2, 8-8, 8-18, 8-29, 8-31, 8-47, 8-52

Senate Bill 375 S-15, 1-23, 3.13-2, 3.14-4, 3.18-5,

sever, severance S-35, 3.12-54 thru -56, 3.14-9, 3.14-10, 3.14-41, 3.14-46, 3.14-50, 3.14-51, 3.14-63, 4-49, 4-52

sound barrier S-23, S-30, S-89, 3.1-7, 3.4-57 thru -79, 3.12-110, 3.12-121, 3.12-129, 3.16-64, 3.16-68, 3.16-69, 3.16-100, 3.16-108, 3.16-120, 3.19-17, 4-37, 4-56, 4-57

South Coast Air Quality Management District 3.3-17, 3.3-20,

SPRR (and *Southern Pacific Railroad*) 2-21, 2-76, 2-77, 3.16-11, 3.16-81, 3.17-59, 3.17-60, 3.17-61, 3.17-86, 3.17-87, 3.17-91, 3.17-139, 3.18-12, 3.19-3, 4-20, 4-27, 4-30, 4-31, 4-43

stormwater S-16, 2-9, 2-59, 2-121, 3.6-6 thru 3.6-77 multiple, 3.7-6, 3.7-37, 3.7-50, 3.7-218, 3.7-222, 3.8 multiple, 3.11-17, 3.12-111, 3.12-122, 3.19-6, 3.19-28 thru -31

stormwater management 3.6-67, 3.6-77, 3.8-6 thru 3.8-10, 3.8-41, 3.8-52, 3.8-72, 3.8-73, 3.12-111

Swainson's hawk S-72, S-75, S-77, 3.7 multiple, 3.19-24

T

tax S-26, S-27, S-32, S-33, 1-30, 3.11-37, 3.12 multiple, 3.13-2, 3.14-1, 3.14-2, 3.14-3, 3.14-8, 3.18-20, 3.18-31, 3.19-37, 3.19-38, 7-4, 7-6, 7-14

TGV (Tres Grand Vitesse)

tiger salamander (see *California tiger salamander*) 3.7 multiple,

TOD (see *transit-oriented development*)

tourism S-10, 1-7, 1-9, 1-18, 1-19

traction power substation 2-1, 2-6, 2-12, 2-14, 2-64 thru -69, 2-71, 2-72, 2-114, 2-119, 3.4-15, 3.5-70, 3.7-11, 3.8-46, 3.8-50, 3.8-64, 3.8-65, 3.8-70, 3.14-11,

transit-oriented development (TOD) S-16, S-20, S-38, 2-22, 2-104, 2-111, Section 3.13 multiple

transportation, regional S-11, S-15, S-16, 1-16, 1-18, 1-19, 1-23, 2-41, Section 3.2 multiple, Section 3.13 multiple, 3.14-4, 3.14-5, 3.14-7, 3.14-41, Section 3.18 multiple, 3.19-2, 3.19-33, 6-3, 8-13, 8-62

travel time S-1, S-9, S-10, S-20, S-38, 1-5 thru 1-7, 1-16, 1-18 thru 1-21, 1-30, 2-2, 2-19, 2-20, 2-30, 2-32, 2-34, 2-104, 3.2-1, 3.2-64, 3.2-72, 3.12-59, 3.12-61, 3.12-14, 3.13-8, 3.14-50, 3.14-59, 3.18-10, 3.18-11, 3.19-40, 4-8, 4-47 thru -49, 4-52 thru -54, 4-66, 4-70, 4-73 thru -75, 5-12, 6-3, 7-1, 8-8

Tulare County Association of Governments 1-14, 1-20, 1-27, 2-38, 3.2-2, 3.2-4, 3.3-45, 3.13-3, 3.13-4, 3.13-10, 3.18-4, 3.18-6, 3.18-14, 3.18-17

Tule River Tribal Council 1-27

U

V

Vernal pool fairy shrimp (see *fairy shrimp*) S-71, S-74, S-77, 3.7-41, 3.7-61, 3.7-64, 3.7-66, 3.7-68, 3.7-70, 3.7-72, 3.7-76 thru -78, 3.7-119, 3.7-121, 3.7-123, 3.7-125, 3.7-127, 3.7-129, 3.7-130, 3.7-197, 3.7-207 thru 212, 3-19-24

W

water 1-22, 2-9 thru -11, 2-36, 2-39, 2-59, 2-78, 2-112, 2-117, 2-120, 2-121, 3.2-69, 3.3-2, 3.3-9, 3.3-16, 3.3-17, 3.3-28, 3.3-33, 3.3-64, 3.3-86 thru 3.3-90, 3.6 (multiple, throughout), 3.7 (multiple, throughout), 3.8 (multiple, throughout), 3.9 (multiple, throughout), 3.10-6, 3.10-9, 3.10-17, 3.10-31, 3.11-5, 3.12-111, 3.12-122, 3.13-53, 3.13-32, 3.13-34, 3.13-36, 3.19-18 thru -31, 4-29, 4-30, 7-12

demand 3-6-12, 3.6-49, 3.6-61 thru -65, 3.8-42, 3.8-61 thru -63, 3.18-33, 3.19-18

management S-17, 3.6-4, 3.6-7, 3.6-31, 3.6-62, 3.6-67, 3.6-69, 3.8-6, 3.8-72,

resources S-16, S-20, 2-19, 3.6-67, 3.7-122, 3.8-6 thru -11, 3.18-18 thru -22, 3.8-59, 3.8-72, 3.8-76, 7-3

western burrowing owl 3.7-24, 3.7-26, 3.7-31, 3.7-114, 3.7-120, 3.7-122, 3.7-128, 3.7-206, 3.7-209, 3.7-211 thru 3.7-214, 3.7-220, 3.19-24, 3.19-34, 3.19-63, 3.19-69, 3.19-83,

Westside Parkway 1-30, 2-30, 2-66, 3.2-43, 3.16-103.

wetland(s) S-24, S-31, S-37, S-42 thru S-47, S-69, 1-23, 2-19, 2-28, 2-119, 3.7 (multiple, throughout), 3.8-1, 3.8-72, 3.8-73, 3.12-111, 3.12-121, 3.19-23 thru -26, 4-67, 4-73, 4-74, 7-9, 7-12, 7-14