

ATTACHMENT L
Levee Encroachment Table

Rio Oso SCFRR Feasibility Study
RD 1001 LEVEES ENCROACHMENT LIST

Levee Mile	Reclamation District	Project Reach	Project STA	Encroachment	Type	Permit No.	Year	Inspection Date	Owner Name	Data Source
10.16 - 10.08	1001	Yankee Slough	0+00 - 4+00	Barbed wire fence, running along landside of levee from levee toe to hinge.	Fence			2/22/2012		USACE - PI Report
10.15	1001	Yankee Slough	0+50	Landside vehicle access ramp with pipe gate to levee crown from Highway 70.	Access					USACE - PI Report
10.08	1001	Yankee Slough	4+00	Vehicle access ramp at bridge crossing.	Access			2/22/2012		USACE - PI Report
10.08 - 10.05	1001	Yankee Slough	4+00 - 5+50	Highway 70 bridge crossing levee.	Bridge	3209	1959	2/22/2012	Department of Public Works - Division of Highways	USACE - EGIS System / USACE - PI Report
10.05	1001	Yankee Slough	5+63	Barbed wire fence running up landside slope and along landside shoulder, east side of Highway 70. Fence continues along east side of Highway 70.	Fence			2/22/2012		USACE - PI Report
10.04	1001	Yankee Slough	6+30	Waterside access ramp at Highway 70.	Access	9659	1974	2/22/2012	Charles C. Watts	USACE - PI Report
10.03	1001	Yankee Slough	6+70	Overhead power lines crossing over levee.	Overhead Utility			2/22/2012		USACE - PI Report
9.78	1001	Yankee Slough	16+50	Landside vehicle access ramp from levee toe to crown.	Access			2/22/2012		USACE - PI Report
9.73	1001	Yankee Slough	19+00	Waterside vehicle access ramp from levee toe to crown.	Access			2/22/2012		USACE - PI Report
9.69	1001	Yankee Slough	21+00	Landside vehicle access ramp from levee toe to crown.	Access			2/22/2012		USACE - PI Report
9.41	1001	Yankee Slough	35+88	10-inch HDPE conduit containing fiber-optic cables running through levee.	Fiber Optic Line	16996	1999		Level 3 Communications	USACE - EGIS System
9.39	1001	Yankee Slough	37+00	Waterside vehicle access ramp from levee toe to crown.	Access			2/20/2012		USACE - PI Report
9.38	1001	Yankee Slough	37+50	Overhead power lines crossing over levee.	Overhead Utility			2/20/2012		USACE - PI Report
9.38	1001	Yankee Slough	37+67	Coated steel telephone conduit of an unknown size running through levee, 3 feet below the crown.	Telephone	1580	1951	4/2/2019	Pacific Telephone and Telegraph Company	DWR - Utility Crossing Inventory Program / USACE - EGIS System
3.69	1001	Yankee Slough	38+00	50-foot long landside buildout that doubles crown width.	Other					USACE - PI Report
3.67	1001	Yankee Slough	39+00	Railroad crossing levee. Pipe gates on both sides of railroad.	Railroad	14706	1987	2/20/2012	Union Pacific Railroad	USACE - EGIS System / USACE - PI Report
3.66	1001	Yankee Slough	39+71	Overhead power lines crossing over levee. Power pole located on landside shoulder.	Overhead Utility			2/20/2012		USACE - PI Report
3.60	1001	Yankee Slough	40+44	1-inch PVC fiber optic conduit running through levee, 2.5 feet below the crown.	Communications	14039	1986	4/2/2019	United Telecom Communications, Inc.	DWR - Utility Crossing Inventory Program / USACE - EGIS System / USACE - PI Report

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3.63	1001	Yankee Slough	42+00	Overbuilt section of levee that doubles width of crown, 50 feet long.	Other			2/20/2012		USACE - PI Report
3.14 - 2.82	1001	Yankee Slough	66+47 - 83+45	10-foot wide and 6-foot deep ditch located 13 to 15 feet from landside toe.	Other			2/20/2012		USACE - PI Report
2.87	1001	Yankee Slough	80+47	24-inch corrugated metal gravity drainage pipe running through levee. Invert elevation 49 feet (USED Datum). Flap gate at outfall on waterside end. (Not field verified).	Drainage		1955	4/2/2019		DWR - Utility Crossing Inventory Program
2.86	1001	Yankee Slough	81+00	Waterside vehicle access ramp from levee toe to crown.	Access			2/20/2012		USACE - PI Report
2.54	1001	Yankee Slough	96+64	Pipe gate across levee crown.	Access			2/20/2012		USACE - PI Report
2.53	1001	Yankee Slough	96+99	Coated steel telephone conduit of unknown size running through levee, 3 feet below the crown. Conduit attached to downstream side of Swanson Road bridge.	Telephone	1580	1951	4/2/2019	Pacific Telephone and Telegraph Company	DWR - Utility Crossing Inventory Program / USACE - EGIS System
2.53	1001	Yankee Slough	97+20	Swanson Road crossing and bridge abutment.	Bridge	2809	1958	2/17/2012	County of Sutter	USACE - EGIS System / USACE - PI Report
2.53	1001	Yankee Slough	97+31	4-inch coated galvanized steel telephone conduit running through levee, 2 feet below the crown. Conduit attached to the upstream side of Swanson Road bridge.	Telephone	9166	1974	4/2/2019	Pacific Telephone and Telegraph Company	DWR - Utility Crossing Inventory Program / USACE - EGIS System / USACE - PI Report
2.52 - 2.32	1001	Yankee Slough	97+50-109+93	Landside ditch at levee toe, up to 12 feet wide and 5 feet deep.	Drainage			2/17/2012		USACE - PI Report
2.52	1001	Yankee Slough	97+60	Overhead power lines crossing over levee.	Overhead Utility			2/17/2012		USACE - PI Report
2.52	1001	Yankee Slough	97+75	12-inch coated steel drainage discharge pipe running through levee, 2.2 feet below the crown. Vertical pump on a metal structure in a drainage ditch on the landside. Steps and walkway on the landside to the pump. Pipe discharges into Yankee Slough on the waterside. Flap gate and metal apron on the waterside end. Service pole and meter box on the landside shoulder.	Drainage	3109	1959	4/2/2019	RD 1001	DWR - Utility Crossing Inventory Program / USACE - EGIS System / USACE - PI Report
2.52	1001	Yankee Slough	98+10	Pipe gate across levee crown.	Access			2/17/2012		USACE - PI Report
2.28	1001	Yankee Slough	110+20	Landside access ramp from levee toe to crown, with pipe gate at levee toe.	Access			2/17/2012		USACE - PI Report
2.28	1001	Yankee Slough	110+23	36-inch corrugated metal gravity drainage pipe running through levee, 15 feet below the crown. Flap gate and concrete U-shaped headwall at outfall on the waterside end. Slide gate at inlet on the landside end.	Drainage		1955	4/2/2019	RD 1001	DWR - Utility Crossing Inventory Program / USACE - PI Report
2.30 - 2.05	1001	Yankee Slough	111+02 - 123+96	Irrigation sprinkler heads spaced 20 to 40 feet apart along the landside toe.	Irrigation			2/17/2012		USACE - PI Report
2.06	1001	Yankee Slough	123+79	6-inch broken concrete standpipe on landside hinge.	Other			2/17/2012		USACE - PI Report
2.05	1001	Yankee Slough	124+35	Guy wire in landside slope.	Other			2/17/2012		USACE - PI Report

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2.05	1001	Yankee Slough	124+35	Landside vehicle access ramp from levee toe to crown with access gate.	Access			2/17/2012		USACE - PI Report
1.78	1001	Yankee Slough	138+72	Power pole and guy wire located in landside slope, barn at landside toe, and landscaping and irrigation located on landside slope.	Other			2/17/2012		USACE - PI Report
1.73	1001	Yankee Slough	139+39	8 5/8-inch gas line of an unknown material running through levee, at an unknown depth.	Gas	4399, 4399-A, 4399-B	1964	4/2/2019	PG&E	DWR - Utility Crossing Inventory Program / USACE - EGIS System
1.73	1001	Yankee Slough	139+39	Coated steel telephone conduit of an unknown size along the center of the crown, 2.6 feet below the crown. (Not field verified)	Telephone	1580	1951	4/2/2019	Pacific Telephone and Telegraph Company	DWR - Utility Crossing Inventory Program / USACE - EGIS System
1.73	1001	Yankee Slough	139+50	Landside vehicle access ramp from levee toe to crown.	Access			2/17/2012		USACE - PI Report
1.71	1001	Yankee Slough	140+70	8-inch coated steel irrigation pipe running through levee, 3 feet below the crown. Pump station with platform on bank of Yankee Slough. Air vent on landside shoulder.	Irrigation	13645	1983	4/2/2019	Richard Nelson	DWR - Utility Crossing Inventory Program / USACE - EGIS System / USACE - PI Report
1.70	1001	Yankee Slough	141+60	Waterside vehicle access ramp from levee toe to crown. Ramp provides access to pump.	Access			2/17/2012		USACE - PI Report
1.68	1001	Yankee Slough	143+70	Overhead power line crossing over levee. Power pole and guy wire on landside slope.	Overhead Utility			2/17/2012		USACE - PI Report
1.50			152+50	Landside access ramp from levee toe to crown.	Access			2/17/2012		USACE - PI Report
1.48	1001	Yankee Slough	153+40	Landside access ramp from levee toe to crown.	Access			2/17/2012		USACE - PI Report
1.30	1001	Yankee Slough	162+03	6-inch irrigation pipe of an unknown material running through levee, 3 feet below the crown. 15-horsepower submersible pump and platform on the waterside. Standpipe on landside slope.	Irrigation	13646	1983	4/2/2019	Conant Orchards	DWR - Utility Crossing Inventory Program / USACE - EGIS System / USACE - PI Report
1.30	1001	Yankee Slough	163+00	Waterside vehicle access ramp from levee toe to crown.	Access			2/17/2012		USACE - PI Report
1.29	10001	Yankee Slough	164+40	Landside vehicle access ramp from levee toe to crown	Access			2/17/2012		USACE - PI Report
1.14 - 1.17	1001	Yankee Slough	170+38 - 172+20	Valves located at landside toe for irrigation lines and sprinkler pipe that parallel the levee.	Irrigation			2/17/2012		USACE - PI Report
1.10	1001	Yankee Slough	172+70	8-inch irrigation pipe of an unknown material running through levee, 2.6 feet below the crown. 6-inch steel riser pipe with siphon breaker on the landside shoulder.	Irrigation	14219	1985	4/2/2019	Frank B. Foster	DWR - Utility Crossing Inventory Program / USACE - EGIS System / USACE - PI Report
0.89	1001	Yankee Slough	183+91	Access pipe gate across levee crown.	Access			2/17/2012		USACE - PI Report

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0.88	1001	Yankee Slough	184+21	4.5-inch coated galvanized steel telephone conduit running through levee, 3 feet below the crown.	Telephone	1580	1951	4/2/2019	Pacific Telephone and Telegraph Company	DWR - Utility Crossing Inventory Program / USACE - EGIS System
0.88	1001	Yankee Slough	184+30	Pleasant Grove Road bridge crossing levee. Abutment on waterside.	Bridge			2/17/2012		USACE - PI Report
0.88	1001	Yankee Slough	184+50	4-inch coated steel telephone conduit running through levee, 4 feet below the crown. Conduit attached to east side of Pleasant Grove Road bridge.	Telephone	13927	1984	4/2/2019	Pacific Bell	DWR - Utility Crossing Inventory Program / USACE - EGIS System / USACE - PI Report
0.88 - 0.62	1001	Yankee Slough	184+52 - 200+00	Power poles spaces at 200 to 250 feet apart along the landside toe.	Overhead Utility			2/17/2012		USACE - PI Report
0.88	1001	Yankee Slough	184+70	Overhead power line crossing over levee.	Overhead Utility			2/17/2012		USACE - PI Report
0.75	1001	Yankee Slough	191+50	Chain link fence running along landside toe. House and propane tank located within 15 feet of landside toe.	Other			2/17/2012		USACE - PI Report
0.75	1001	Yankee Slough	191+78	Discharge pipe running through levee. Low lift pump located in Yankee Slough channel.	Irrigation	14218	1985		Frank B. Foster	USACE - EGIS System
0.73	1001	Yankee Slough	192+40	Landside vehicle access ramp from levee toe to crown.	Access			2/17/2012		USACE - PI Report
0.70	1001	Yankee Slough	194+15	Overhead power line crossing over levee	Overhead Utility			2/17/2012		USACE - PI Report
0.67	1001	Yankee Slough	195+73	Landside vehicle access ramp from levee toe to crown.	Access	7446	1971	40956	George Darby	USACE - EGIS System / USACE - PI Report
0.65	1001	Yankee Slough	198+13	Shed within 15 feet of landside toe.	Other			2/17/2012		USACE - PI Report
0.56	1001	Yankee Slough	202+93	Two power poles, fence, and large tank on landside slope or within 15 feet of landside toe.	Other			2/17/2012		USACE - PI Report
0.53	1001	Yankee Slough	203+18	Landside access ramp and pipe gate crossing levee crown.	Access			2/17/2012		USACE - PI Report
0.51	1001	Yankee Slough	203+99	Coated steel telephone conduit of an unknown size along the center of the crown, 2.6 feet below the crown. (Not field verified)	Telephone	1580	1951	4/2/2019	Pacific Telephone and Telegraph Company	DWR - Utility Crossing Inventory Program / USACE - EGIS System
0.47	1001	Yankee Slough	206+95	Removed 7-inch steel irrigation pipe running through levee, 1.9 feet below the crown. Portable pump mounted on the bank during summer months. Control valve on waterside. Steel plate bolted on the waterside end during the winter months. Pipe discharges into a 30-inch concrete standpipe at the landside toe. (Not field verified)	Irrigation	2281	1956	4/2/2019	Willard R. Brown	DWR - Utility Crossing Inventory Program / USACE - EGIS System / USACE PI Report
0.34	1001	Yankee Slough	214+03	Landside access ramp that cuts into embankment.	Access			2/17/2012		USACE - PI Report

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0.30	1001	Yankee Slough	214+99	Coated steel telephone conduit of an unknown size along the landside toe, 2.5 feet deep. (Not field verified)	Telephone	1580	1951	4/2/2019	Pacific Telephone and Telegraph Company	DWR - Utility Crossing Inventory Program / USACE - EGIS System
0.24	1001	Yankee Slough	218+31	6-inch coated steel irrigation pipe running through levee, 3.5 feet below the crown. Metal cutoff collar placed on the pipe at the center of the levee crown. Pump was removed. Pump base on the waterside berm. Shutoff valve on the discharge side of the pump. Foot valve below water on the intake side of pump. Siphon breaker on landside shoulder. Pipe discharges into underground irrigation system on the landside. Power pole and meter box, 10 feet from the landward toe. 1.5-inch flexible conduit through levee, 3.5 feet below the crown.	Irrigation	5562	1967	4/2/2019	Samual B. Single	DWR - Utility Crossing Inventory Program / USACE - EGIS System / USACE - PI Report /
0.21	1001	Yankee Slough	220+00	Overhead power lines crossing over levee.	Overhead Utility	2769		2/17/2012	PG&E	USACE - EGIS System / USACE - PI Report
0.07	1001	Yankee Slough	228+88	Farming activity along landside toe.	Other			2/17/2012		USACE - PI Report
0.07	1001	Yankee Slough	230+95	Fencing across the levee crown.	Access			2/17/2012		USACE - PI Report
12.60	1001	Bear River	2+00	Landside access ramp from levee toe to crown with pipe gate.	Access	3470	1960	2/22/2012	RD 1001	USACE - EGIS System / USACE - PI Report
12.59	1001	Bear River	2+50	Waterside vehicle access ramp from levee toe to crown.	Access	5947	1968	2/22/2012	Frank P. LaSalle	USACE - EGIS System / USACE - PI Report
12.57 - 12.28	1001	Bear River	3+64 - 18+55	10-foot wide, 4-foot deep ditch 10 feet from landside toe.	Other			2/22/2012		USACE - PI Report
12.31	1001	Bear River	17+58	15-foot portion of barbed wire fence within 15 feet of waterside toe.	Fence			2/22/2012		USACE - PI Report
11.90	1001	Bear River	39+00	Landside vehicle access ramp from levee toe to crown with access gate.	Access			2/22/2012		USACE - PI Report
11.89	1001	Bear River	39+59	3-inch pipe running through levee. Part of pipe is PVC slip lined. No positive closure observed. Located less than a foot below levee crown.	Pipeline			2/22/2012		USACE - PI Report
11.88	1001	Bear River	39+68	12-inch corrugated metal gravity irrigation pipe running through levee, 20.5 feet below the crown. Invert elevation 45.2 feet (USED Datum). Slide gate on the waterside. (Not field verified)	Irrigation		1955	4/2/2019		DWR - Utility Crossing Inventory Program
11.69	1001	Bear River	48+00	40-foot long waterside building that doubles crown width.						
11.65	1001	Bear River	50+00	40-foot long waterside building that doubles crown width.	Other			2/22/2012		USACE - PI Report
11.65	1001	Bear River	52+25	Sprinklers and fence 2 to 3 feet below waterside hinge for re-vegetation site on waterside embankment.	Fence			2/22/2012		USACE - PI Report
11.42	1001	Bear River	64+50	Landside vehicle access ramp from levee toe to crown.	Access			2/22/2012		USACE - PI Report
11.39 - 11.21	1001	Bear River	66+16 - 75+48	3- to 6-foot wide, 2-foot deep ditch located within 10 feet of landside toe.	Other			2/22/2012		USACE - PI Report
11.26	1001	Bear River	72+80	50-foot long waterside buildout that doubles crown width.	Other			2/22/2012		USACE - PI Report
10.61	1001	Bear River	107+00	Waterside vehicle access ramp from levee toe to crown.	Access	1667	1952	2/22/2012	Sutter County	USACE - EGIS System / USACE - PI Report
10.60	1001	Bear River	107+46	Wire fence at landside toe.	Fence			2/22/2012		USACE - PI Report

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10.60	1001	Bear River	107+70	Landside vehicle access ramp from levee toe to crown.	Access			2/22/2012		USACE - PI Report
10.60	1001	Bear River	107+90	Overhead power lines crossing over levee. Utility pole at waterside shoulder.	Overhead Utility			2/22/2012		USACE - PI Report
10.57	1001	Bear River	109+17	Two sheds and fence located at landside toe.	Other			2/22/2012		USACE - PI Report
10.36 - 10.16	1001	Bear River	120+00 - 130+71	Barbed wire fence, running along landside of levee from levee toe to hinge.	Fence			2/22/2012		USACE - PI Report
10.36	1001	Bear River	120+28	Abandoned 38-inch diameter concrete tank, 8 feet from landside toe.	Other			2/22/2012		USACE - PI Report
10.34	1001	Bear River	121+00	Landside buildout, 30 feet long and 30 feet wide.	Other			2/22/2012		USACE - PI Report