

TOTAL WATERBORNE COMMERCE OF THE SAN FRANCISCO BAY AND DELTA AREAS, CA

Freight Traffic, 2002
(thousand short tons)

Locality	*Foreign/Canadian		Domestic				Total	Percent	Through Traffic
	Inbound	Outbound	Coastwise		Internal				
			Receipts	Shipmnts	Receipts Shipmnts	Intraport			
ALVISO SLOUGH, CA	---	---	---	---	---	---	0.00	---	
BERKELEY, CA	---	---	---	---	---	---	0.00	---	
CARQUINEZ STRAIT, CA	4,231	1,040	6,854	767	817	42	13,750	21.12	8,198
COYOTE HILL SLOUGH, CA	---	---	---	---	---	---	---	0.00	---
NAPA RIVER, CA	---	---	---	---	123	---	123	0.19	---
NEWARK SLOUGH, CA	---	---	---	---	---	---	---	0.00	---
OAKLAND HARBOR, CA	4,021	5,439	336	1,077	1,582	---	12,455	19.13	---
OTHER SAN FRANCISCO BAY AREA PORTS, CA	---	---	52	67	2,463	14	2,597	3.99	---
PETALUMA RIVER, CA	---	---	---	---	323	---	323	0.50	---
REDWOOD CITY HARBOR, CA	659	159	---	---	---	---	818	1.26	---
RICHMOND HARBOR, CA	8,692	1,621	5,768	2,790	2,504	526	21,901	33.64	---
SACRAMENTO RIVER, CA	317	298	---	4	38	---	657	1.01	---
SAN FRANCISCO HARBOR, CA	1,069	96	0	---	840	---	2,006	3.08	---
SAN JOAQUIN RIVER, CA**	2,968	1,707	12	---	115	---	4,802	7.38	39
SAN PABLO BAY AND MARE ISLAND STRAIT, CA	1,116	283	256	615	425	---	2,695	4.14	21,684
SAN RAFAEL CREEK, CA	---	---	---	---	---	---	---	0.00	---
SUISUN BAY CHANNEL, CA	660	239	430	499	1,043	106	2,977	4.57	5,492
SUISUN CHANNEL, CA	---	---	---	---	---	---	---	0.00	---
TOTAL (UNADJUSTED)	23,733	10,882	13,709	5,819	10,274	688	65,105	---	35,412
PERCENT (UNADJUSTED)	36.45	16.71	21.06	8.94	15.78	1.06	---	100.00	---
NET VOLUME OF TONNAGE FOR THE AREA	23,733	10,882	13,709	5,819	5,157	688	59,987	---	---
PERCENT (ADJUSTED)	39.56	18.14	22.85	9.70	8.60	1.15	---	100.00	---

* Not included in the tonnage of the Bay and Delta Areas.

** Tributaries to San Joaquin River include Mokelumne Middle, and Old River.

*** Adjusted to net volume by excluding duplication of internal traffic moved between ports and waterways of the San Francisco Bay and Delta Areas.

SAN FRANCISCO BAY ENTRANCE, CA

Section Included: Main ship channel. Controlling Depth: Main ship channel, 55.0 feet. Project Depth: Main ship channel, 55 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1993	65,727	1996	59,850	1999	50,666	2002	54,143
1994	67,220	1997	53,698	2000	51,387		
1995	61,356	1998	49,929	2001	56,965		

Freight Traffic, 2002 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Through		Through		Total	Coastwise	
		Upbound*	Downbnd*	Upbound*	Downbnd*		Upbound	Downbnd
Total, all commodities	54,143	21,952	10,769	1,781	113	19,528	13,709	5,819
Total coal	1	0	0	—	—	—	—	—
1100 coal lignite	1	0	0	—	—	—	—	—
1200 coal coke	0	0	—	—	—	—	—	—
Total petroleum and petroleum products	33,182	11,997	3,137	151	79	17,819	13,304	4,515
Subtotal crude petroleum	20,641	9,534	10	79	—	11,018	10,982	37
2100 crude petroleum	20,641	9,534	10	79	—	11,018	10,982	37
Subtotal petroleum products	12,541	2,463	3,127	71	79	6,800	2,322	4,478
2211 gasoline	3,797	267	95	—	79	3,356	758	2,598
2221 kerosene	290	285	—	5	—	—	—	—
2330 distillate fuel oil	2,498	478	304	17	—	1,699	1,227	472
2340 residual fuel oil	2,776	727	1,135	—	—	914	70	845
2350 lube oil & greases	836	58	84	50	—	645	101	544
2410 petro. jelly & waxes	77	76	1	—	—	—	—	—
2429 naphtha & solvents	843	414	271	—	—	158	141	17
2430 asphalt, tar & pitch	1	—	1	—	—	—	—	—
2540 petroleum coke	1,404	159	1,236	0	—	9	9	—
2640 liquid natural gas	1	0	0	—	—	1	0	1
2990 petro. products nec	18	—	—	—	—	18	17	2
Total chemicals and related products	3,795	1,781	702	841	30	441	188	252
Subtotal fertilizers	610	487	10	83	12	18	10	7
3110 nitrogenous fert.	511	419	0	83	—	9	9	—
3120 phosphatic fert.	1	—	1	—	—	—	—	—
3130 potassic fert.	13	13	0	—	—	—	—	—
3190 fert. & mixes nec	86	56	9	0	12	9	2	7
Subtotal other chemicals and related products	3,185	1,293	692	758	19	423	178	245
3211 acyclic hydrocarbons	109	0	64	27	—	19	—	19
3212 benzene & toluene	148	91	0	—	5	51	27	24
3219 other hydrocarbons	4	2	2	—	—	—	—	—
3220 alcohols	362	59	4	131	—	167	—	167
3230 carboxylic acids	27	24	4	0	—	—	—	—
3240 nitrogen func. comp.	40	17	23	—	—	—	—	—
3250 organo - inorg. comp.	7	3	4	0	—	—	—	—
3260 organic comp. nec	973	721	3	249	—	—	—	—
3272 sulphuric acid	1	1	1	—	—	—	—	—
3273 ammonia	297	91	1	205	—	—	—	—
3274 sodium hydroxide	148	82	0	44	—	21	21	—
3275 inorg. elem., oxides, & halogen salts	410	9	373	0	—	28	28	0
3276 metallic salts	33	24	6	0	—	3	3	—
3279 inorganic chem. nec	37	3	34	0	—	—	—	—
3281 radioactive material	4	1	3	—	—	0	0	—
3282 pigments & paints	17	5	9	0	—	3	—	3
3283 coloring mat. nec	3	0	2	—	—	—	—	—
3284 medicines	43	32	11	0	—	1	0	1
3285 perfumes & cleansers	43	8	26	0	—	10	0	10
3286 plastics	137	55	80	0	—	3	0	2
3291 pesticides	3	2	1	—	—	0	—	0
3292 starches, gluten, glue	54	41	13	0	—	0	—	0
3293 explosives	2	1	0	—	—	0	0	0
3297 chemical additives	122	6	2	—	0	115	97	18
3298 wood & resin chem.	1	1	—	—	—	—	—	—
3299 chem. products nec	160	15	28	101	13	3	1	1
Total crude materials, inedible except fuels	4,473	1,130	2,590	734	0	18	5	14
Subtotal forest products, wood and chips	440	277	147	2	0	15	4	11
4110 rubber & gums	0	0	0	—	—	—	—	—
4150 fuel wood	2	2	0	—	—	—	—	—
4161 wood chips	120	0	116	—	—	4	—	4
4170 wood in the rough	44	41	3	0	—	0	0	—
4189 lumber	265	227	26	1	0	11	4	7
4190 forest products nec	8	7	1	1	—	0	0	0
Subtotal pulp and waste paper	1,088	1	1,087	—	—	0	—	0
4225 pulp & waste paper	1,088	1	1,087	—	—	0	—	0
Subtotal soil, sand, gravel, rock and stone	1,500	764	2	733	—	1	0	1
4310 building stone	38	36	0	1	—	—	—	—

SAN FRANCISCO BAY ENTRANCE, CA
Freight Traffic, 2002 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Through		Through		Total	Coastwise	
		Upbound*	Downbnd*	Upbound*	Downbnd*		Through	
						Upbound	Downbnd	
4322 limestone	4	3	1	0	—	—	—	—
4323 gypsum	716	716	0	—	—	—	—	—
4331 sand & gravel	741	9	1	732	—	—	—	—
4338 soil & fill dirt	1	—	—	—	—	1	0	1
Subtotal iron ore and scrap	869	0	869	—	—	0	0	0
4420 iron & steel scrap	869	0	869	—	—	0	0	0
Subtotal marine shells	0	0	0	—	—	—	—	—
4515 marine shells	0	0	0	—	—	—	—	—
Subtotal non-ferrous ores and scrap	129	69	60	—	—	0	0	—
4630 copper ore	0	—	0	—	—	—	—	—
4650 aluminum ore	69	68	1	—	—	—	—	—
4680 non-ferrous scrap	53	0	53	—	—	0	0	—
4690 non-ferrous ores nec	6	1	6	—	—	—	—	—
Subtotal sulphur, clay and salt	357	9	347	—	—	—	—	—
4741 sulphur, (dry)	351	8	342	—	—	—	—	—
4782 clay & refrac. mat.	6	1	5	—	—	—	—	—
Subtotal slag	6	6	0	—	—	—	—	—
4860 slag	6	6	0	—	—	—	—	—
Subtotal other non-metal. min.	85	5	78	0	0	2	0	2
4900 non-metal. min. nec	85	5	78	0	0	2	0	2
Total primary manufactured goods	3,069	2,586	416	19	0	48	5	43
Subtotal paper products	183	101	62	11	0	8	2	6
5110 newsprint	27	16	1	10	—	1	0	0
5120 paper & paperboard	107	59	45	1	—	2	0	2
5190 paper products nec	48	26	17	—	0	5	1	4
Subtotal lime, cement and glass	1,173	1,125	19	5	0	23	1	22
5220 cement & concrete	884	882	0	—	—	1	0	1
5240 glass & glass prod.	108	98	9	1	0	0	0	0
5290 misc. mineral prod.	181	145	10	5	—	21	1	20
Subtotal primary iron and steel products	379	349	28	0	—	2	—	2
5312 pig iron	2	1	1	—	—	—	—	—
5315 ferro alloys	0	0	—	—	—	—	—	—
5320 i&s primary forms	27	22	5	0	—	—	—	—
5330 i&s plates & sheets	202	183	19	—	—	—	—	—
5360 i&s bars & shapes	36	36	0	0	—	—	—	—
5370 i&s pipe & tube	100	98	1	0	—	2	—	2
5390 primary i&s nec	11	8	2	—	—	—	—	—
Subtotal primary non-ferrous metal products	1,276	955	304	2	—	15	2	13
5421 copper	5	3	2	0	—	—	—	—
5422 aluminum	24	19	4	0	—	—	—	—
5429 smelted prod. nec	277	5	272	—	—	—	—	—
5480 fab. metal products	970	927	27	2	—	15	2	13
Subtotal primary wood products	59	57	1	1	—	0	—	0
5540 primary wood prod.	59	57	1	1	—	0	—	0
Total food and farm products	6,420	2,428	3,457	31	3	502	86	416
Subtotal fish	68	19	48	0	1	1	—	1
6134 fish (not shellfish)	34	12	20	0	0	1	—	1
6136 shellfish	35	6	27	0	1	—	—	—
Subtotal grain	891	69	780	—	—	41	0	41
6241 wheat	126	1	126	—	—	—	—	—
6344 corn	12	0	12	—	—	0	0	0
6442 rice	752	68	643	—	—	41	—	41
6443 barley & rye	0	—	0	—	—	—	—	—
6445 oats	0	0	0	—	—	—	—	—
6447 sorghum grains	0	—	0	—	—	—	—	—
Subtotal oilseeds	300	272	29	0	—	—	—	—
6521 peanuts	1	1	0	—	—	—	—	—
6522 soybeans	14	1	13	—	—	—	—	—
6534 flaxseed	0	0	—	—	—	—	—	—
6590 oilseeds nec	285	269	16	0	—	—	—	—
Subtotal vegetable products	661	325	301	8	0	27	2	26
6653 vegetable oils	282	236	45	0	0	—	—	—
6654 vegetables & prod.	379	89	255	7	0	27	2	26
Subtotal processed grain and animal feed	518	81	421	1	0	16	1	15
6746 wheat flour	8	2	3	—	—	4	0	4
6747 grain mill products	56	19	35	1	0	2	0	2
6781 hay & fodder	239	29	210	—	—	0	—	0
6782 animal feed, prep.	215	32	173	—	0	9	1	9
Subtotal other agricultural products	3,982	1,662	1,878	22	2	417	83	334
6811 meat, fresh, frozen	505	62	398	0	—	45	0	45
6817 meat, prepared	16	2	14	0	—	—	—	—
6822 dairy products	84	8	45	0	0	31	0	31
6835 fish, prepared	18	14	4	0	—	—	—	—
6838 tallow, animal oils	24	0	24	—	—	—	—	—
6839 animals & prod. nec	140	3	127	0	0	11	3	7
6856 bananas & plantains	2	1	0	0	—	0	—	0
6857 fruit & nuts nec	511	26	479	1	1	5	3	2
6858 fruit juices	212	137	44	1	0	30	30	0
6861 sugar	599	597	1	0	—	0	—	0

SAN FRANCISCO BAY ENTRANCE, CA
Freight Traffic, 2002 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Through		Through		Total	Coastwise	
		Upbound*	Downbnd*	Upbound*	Downbnd*		Through	Upbound
6865 molasses	227	193	—	—	—	34	34	—
6871 coffee	107	98	3	2	—	4	1	2
6872 cocoa beans	16	15	0	0	—	—	—	—
6885 alcoholic beverages	617	324	245	12	1	35	0	35
6887 groceries	47	—	—	—	—	47	0	47
6888 water & ice	87	25	58	4	—	—	—	—
6889 food products nec	506	122	226	2	0	156	7	149
6891 tobacco & products	46	2	43	0	—	1	—	1
6893 cotton	157	0	157	—	—	—	—	—
6894 natural fibers nec	3	2	2	—	—	—	—	—
6899 farm products nec	56	30	8	0	—	17	3	14
Total all manufactured equipment, machinery and products	2,778	1,765	325	4	1	684	118	566
7110 machinery (not elec)	288	188	43	1	0	57	25	32
7120 electrical machinery	302	263	37	0	0	1	0	1
7210 vehicles & parts	579	424	51	0	0	105	31	73
7220 aircraft & parts	1	1	0	0	0	0	0	0
7230 ships & boats	1	1	1	0	0	0	0	0
7300 ordnance & access.	1	1	0	0	—	—	—	—
7400 manufac. wood prod.	81	46	25	0	0	11	5	6
7500 textile products	166	143	19	0	0	3	1	2
7600 rubber & plastic pr.	153	120	30	0	0	2	0	2
7900 manufac. prod. nec	1,206	579	119	3	0	505	56	449
Total unknown or not elsewhere classified	425	265	143	2	0	15	3	12
9900 unknown or nec	425	265	143	2	0	15	3	12

*Includes 217,323 tons of foreign upbound through in-transits; Includes 166,940 tons of foreign downbound through in-transits;
Includes 2,420 tons of Canadian upbound through in-transits; Includes 63 tons of Canadian downbound through in-transits.

SAN FRANCISCO HARBOR, CA

Section Included: From Fort Point to San Francisco Airport on the west side of the San Francisco Bay. Controlling Depth: Main ship channel, 55.0 feet; Presidio Shoal, 34.1 feet; Black Point Shoal, 35.5 feet; Rincon Reef Rock (inner), 41 feet; Rincon Reef (outer), 42.5 feet; Blossom Rock, 40 feet; Alcatraz Shoal, 34.5 feet; Arch Rock, 36.2 feet; Harding Rocks, 36.7 feet; Shag Rocks 1 and 2, 36.9 feet; Point Knox Shoal, 38.2 feet, Islais Creek Shoal, 38.2 feet; channel and basin at San Francisco Airport, 6.8 feet in the maintained 200-foot wide southerly portion; 8 feet in the maintained portion of turning basin, 8.6 feet to seaplane ramp. Project Depth: 55 feet in entrance channel across the bar; 40 feet across Presidio Shoal, Black Point Shoal, Blossom Rock, Rincon Reef Rock, and a portion of Alcatraz Shoal; 37 feet across Arch, Shag, and Harding Rocks; 35 feet across Racoon Shoal, and the western part of Point Knox Shoal; 35 feet across Islais Creek Shoal; 10 feet to the San Francisco Airport.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1993	2,340	1996	1,982	1999	1,933	2002	2,006
1994	1,739	1997	1,003	2000	3,588		
1995	1,330	1998	1,330	2001	2,298		

Freight Traffic, 2002 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic		
		Inbound*	Outbound*		Inbound	Total	Internal
				Receipts		Shipments	
Total, all commodities	2,006	285	96	784	840	812	28
Total petroleum and petroleum products	98	23	0	—	75	48	28
Subtotal petroleum products	98	23	0	—	75	48	28
2340 residual fuel oil	62	18	—	—	43	43	—
2350 lube oil & greases	32	—	0	—	32	4	28
2410 petro. jelly & waxes	5	5	—	—	—	—	—
2429 naphtha & solvents	0	—	0	—	—	—	—
2540 petroleum coke	0	—	0	—	—	—	—
Total chemicals and related products	83	3	1	79	—	—	—
Subtotal fertilizers	0	0	0	—	—	—	—
3190 fert. & mixes nec	0	0	0	—	—	—	—
Subtotal other chemicals and related products	83	3	1	79	—	—	—
3219 other hydrocarbons	0	0	—	—	—	—	—
3220 alcohols	1	1	0	—	—	—	—
3230 carboxylic acids	0	0	0	—	—	—	—
3240 nitrogen func. comp.	0	0	—	—	—	—	—
3260 organic comp. nec	0	0	—	—	—	—	—
3272 sulphuric acid	0	—	0	—	—	—	—
3274 sodium hydroxide	0	0	—	—	—	—	—
3275 inorg. elem., oxides, & halogen salts	1	0	0	—	—	—	—
3276 metallic salts	1	1	0	0	—	—	—
3279 inorganic chem. nec	0	0	—	—	—	—	—
3282 pigments & paints	0	0	0	—	—	—	—
3284 medicines	0	0	—	—	—	—	—
3285 perfumes & cleansers	0	0	0	—	—	—	—
3286 plastics	1	1	0	—	—	—	—
3292 starches, gluten, glue	0	—	0	0	—	—	—
3299 chem. products nec	79	0	0	79	—	—	—
Total crude materials, inedible except fuels	1,464	51	5	697	712	712	—
Subtotal forest products, wood and chips	51	50	0	1	—	—	—
4150 fuel wood	0	—	0	—	—	—	—
4161 wood chips	0	0	—	—	—	—	—
4170 wood in the rough	0	0	0	0	—	—	—
4189 lumber	50	50	0	1	—	—	—
4190 forest products nec	0	0	0	—	—	—	—
Subtotal pulp and waste paper	5	—	5	—	—	—	—
4225 pulp & waste paper	5	—	5	—	—	—	—
Subtotal soil, sand, gravel, rock and stone	1,409	0	—	696	712	712	—
4310 building stone	0	0	—	—	—	—	—
4331 sand & gravel	1,408	—	—	696	712	712	—
Subtotal other non-metal. min.	0	0	—	—	—	—	—
4900 non-metal. min. nec	0	0	—	—	—	—	—
Total primary manufactured goods	156	95	2	6	53	53	—
Subtotal paper products	19	13	1	6	—	—	—
5110 newsprint	18	12	—	6	—	—	—
5120 paper & paperboard	1	0	1	—	—	—	—
5190 paper products nec	1	0	0	—	—	—	—
Subtotal lime, cement and glass	56	3	0	—	53	53	—
5240 glass & glass prod.	2	2	0	—	—	—	—
5290 misc. mineral prod.	55	2	0	—	53	53	—
Subtotal primary iron and steel products	67	67	0	—	—	—	—
5320 i&s primary forms	2	2	—	—	—	—	—
5330 i&s plates & sheets	3	3	—	—	—	—	—
5360 i&s bars & shapes	5	5	—	—	—	—	—
5370 i&s pipe & tube	57	57	0	—	—	—	—
5390 primary i&s nec	0	0	—	—	—	—	—
Subtotal primary non-ferrous metal products	3	2	1	0	—	—	—
5421 copper	0	—	0	—	—	—	—
5422 aluminum	0	—	0	—	—	—	—
5429 smelted prod. nec	0	0	0	—	—	—	—
5480 fab. metal products	3	2	1	0	—	—	—
Subtotal primary wood products	10	10	0	—	—	—	—
5540 primary wood prod.	10	10	0	—	—	—	—

SAN FRANCISCO HARBOR, CA
Freight Traffic, 2002 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic		
		Inbound*	Outbound*	Inbound	Total	Internal	
					Receipts	Shipments	
Total food and farm products	187	100	84	3	---	---	---
Subtotal fish	1	0	0	---	---	---	---
6134 fish (not shellfish)	1	0	0	---	---	---	---
6136 shellfish	0	0	0	---	---	---	---
Subtotal grain	35	0	35	---	---	---	---
6241 wheat	34	---	34	---	---	---	---
6344 corn	0	0	0	---	---	---	---
6442 rice	1	---	1	---	---	---	---
Subtotal oilseeds	1	1	---	0	---	---	---
6590 oilseeds nec	1	1	---	0	---	---	---
Subtotal vegetable products	64	54	10	0	---	---	---
6653 vegetable oils	58	50	7	0	---	---	---
6654 vegetables & prod.	6	4	2	0	---	---	---
Subtotal processed grain and animal feed	15	0	14	---	---	---	---
6747 grain mill products	0	0	0	---	---	---	---
6782 animal feed, prep.	14	0	14	---	---	---	---
Subtotal other agricultural products	71	45	24	2	---	---	---
6811 meat, fresh, frozen	8	---	8	0	---	---	---
6817 meat, prepared	1	0	0	---	---	---	---
6822 dairy products	0	0	0	---	---	---	---
6835 fish, prepared	4	2	2	---	---	---	---
6838 tallow, animal oils	7	---	7	---	---	---	---
6839 animals & prod. nec	0	---	0	---	---	---	---
6857 fruit & nuts nec	3	2	1	---	---	---	---
6858 fruit juices	4	4	0	---	---	---	---
6861 sugar	0	0	0	0	---	---	---
6871 coffee	22	21	---	1	---	---	---
6885 alcoholic beverages	15	13	0	1	---	---	---
6888 water & ice	0	0	---	---	---	---	---
6889 food products nec	7	1	5	---	---	---	---
6899 farm products nec	0	0	---	0	---	---	---
Total all manufactured equipment, machinery and products	12	10	1	0	---	---	---
7110 machinery (not elec)	1	1	0	0	---	---	---
7120 electrical machinery	1	1	0	---	---	---	---
7210 vehicles & parts	1	0	0	0	---	---	---
7230 ships & boats	0	0	---	---	---	---	---
7400 manufac. wood prod.	1	1	---	---	---	---	---
7500 textile products	1	1	0	0	---	---	---
7600 rubber & plastic pr.	2	2	0	0	---	---	---
7900 manufac. prod. nec	4	4	0	0	---	---	---
Total unknown or not elsewhere classified	5	3	2	0	---	---	---
9900 unknown or nec	5	3	2	0	---	---	---

*Includes 4,135 tons of foreign inbound in-transits; Includes 36,076 tons of foreign outbound in-transits.

REDWOOD CITY HARBOR, CA

Section Included: San Bruno Shoal channel 500 feet wide and about 4 miles long across; Redwood City Harbor channel, a channel from deep water in San Francisco Bay to Steinberger Slough. Controlling Depth: 30.8 feet in San Bruno Shoal channel; 29.8 feet in San Francisco Bay to Beacon No.8; 29.7 feet to Beacon No.15 and beginning of (outer) Turning Basin No.1; 29.5 feet in Turning Basin No.1; 29.5 feet in Turning Basin No.1; 28.5 feet to (upper) Turning Basin No.2; 29.1 in turning basin. Project Depth: 30 feet in San Bruno Shoal Channel; 30 feet to the head of the turning basin in Redwood Creek; 5 feet to Steinberger Slough, and 4 feet in Steinberger Slough.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1993	1,829	1996	985	1999	736	2002	818
1994	846	1997	1,293	2000	734		
1995	754	1998	861	2001	835		

Freight Traffic, 2002 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian
		Inbound	Outbound	Inbound
Total, all commodities	818	602	159	57
Total chemicals and related products	22	—	—	22
Subtotal other chemicals and related products	22	—	—	22
3299 chem. products nec	22	—	—	22
Total crude materials, inedible except fuels	404	271	98	35
Subtotal soil, sand, gravel, rock and stone	301	266	—	35
4323 gypsum	266	266	—	—
4331 sand & gravel	35	—	—	35
Subtotal iron ore and scrap	98	—	98	—
4420 iron & steel scrap	98	—	98	—
Subtotal slag	6	6	—	—
4860 slag	6	6	—	—
Total primary manufactured goods	393	331	61	—
Subtotal lime, cement and glass	331	331	—	—
5220 cement & concrete	331	331	—	—
Subtotal primary non-ferrous metal products	61	—	61	—
5429 smelted prod. nec	61	—	61	—

OAKLAND HARBOR, CA

Section Included: Outer and inner harbor from deep water in San Francisco Bay to San Leandro Bay, a distance of 8.5 miles. Maintained Depth: 42.0 feet deep in the entrance channel to Oakland Outer Harbor, thence a channel and turning basin 42.0 feet deep in the Outer Harbor to Oakland Army Base; 42.0 feet deep in the entrance channel to Oakland Inner Harbor, 42.0 feet deep to Howard Terminal, thence 35.0 feet deep to Government Island, thence 18.0 feet deep to San Leandro Bay. The mean range of tide is 6.4 feet at Oakland Inner Harbor,

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1993	12,734	1996	11,230	1999	11,739	2002	12,455
1994	12,914	1997	10,858	2000	12,161		
1995	13,224	1998	11,148	2001	12,273		

Freight Traffic, 2002 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Inbound*	Outbound*	Inbound*	Outbound*
Total, all commodities	9,460	3,970	5,400	51	39
Total coal	1	0	0	---	---
1100 coal lignite	1	0	0	---	---
1200 coal coke	0	0	---	---	---
Total petroleum and petroleum products	38	10	17	0	10
Subtotal crude petroleum	0	0	---	---	---
2100 crude petroleum	0	0	---	---	---
Subtotal petroleum products	38	10	17	0	10
2211 gasoline	10	---	0	---	10
2330 distillate fuel oil	0	0	0	---	---
2350 lube oil & greases	4	0	4	---	---
2410 petro. jelly & waxes	11	9	1	---	---
2429 naphtha & solvents	2	0	2	---	---
2430 asphalt, tar & pitch	1	---	1	---	---
2540 petroleum coke	11	0	10	0	---
2640 liquid natural gas	0	0	0	---	---
Total chemicals and related products	500	223	250	2	25
Subtotal fertilizers	57	35	10	0	12
3110 nitrogenous fert.	12	12	0	---	---
3120 phosphatic fert.	1	---	1	---	---
3130 potassic fert.	6	6	0	---	---
3190 fert. & mixes nec	39	18	9	0	12
Subtotal other chemicals and related products	443	187	240	2	13
3211 acyclic hydrocarbons	5	0	5	---	---
3212 benzene & toluene	0	0	0	---	---
3219 other hydrocarbons	4	2	2	---	---
3220 alcohols	6	1	4	1	---
3230 carboxylic acids	14	10	4	0	---
3240 nitrogen func. comp.	27	4	23	---	---
3250 organo - inorg. comp.	6	3	2	0	---
3260 organic comp. nec	4	1	3	0	---
3272 sulphuric acid	1	1	1	---	---
3273 ammonia	1	0	1	---	---
3274 sodium hydroxide	10	10	0	---	---
3275 inorg. elem., oxides, & halogen salts	29	8	21	0	---
3276 metallic salts	21	15	6	0	---
3279 inorganic chem. nec	2	1	1	0	---
3281 radioactive material	4	1	3	---	---
3282 pigments & paints	14	5	9	0	---
3283 coloring mat. nec	3	0	2	---	---
3284 medicines	15	5	11	0	---
3285 perfumes & cleansers	33	7	26	0	---
3286 plastics	134	54	80	0	---
3291 pesticides	3	2	1	---	---
3292 starches, gluten, glue	54	41	13	---	---
3293 explosives	2	1	0	---	---
3297 chemical additives	2	0	2	---	0
3298 wood & resin chem.	1	1	---	---	---
3299 chem. products nec	49	13	22	1	13
Total crude materials, inedible except fuels	1,856	212	1,642	2	0
Subtotal forest products, wood and chips	191	160	30	1	0
4110 rubber & gums	0	0	0	---	---
4150 fuel wood	2	2	0	---	---
4161 wood chips	0	0	0	---	---
4170 wood in the rough	28	26	3	0	---
4189 lumber	152	125	26	0	0
4190 forest products nec	8	7	1	1	---
Subtotal pulp and waste paper	1,083	1	1,082	---	---
4225 pulp & waste paper	1,083	1	1,082	---	---
Subtotal soil, sand, gravel, rock and stone	48	44	2	1	---
4310 building stone	37	36	0	1	---
4322 limestone	4	3	1	0	---
4323 gypsum	0	0	0	---	---
4331 sand & gravel	6	5	1	0	---
Subtotal iron ore and scrap	384	0	384	---	---
4420 iron & steel scrap	384	0	384	---	---
Subtotal marine shells	0	0	0	---	---
4515 marine shells	0	0	0	---	---

OAKLAND HARBOR, CA
Freight Traffic, 2002 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Inbound*	Outbound*	Inbound*	Outbound*
Subtotal non-ferrous ores and scrap	61	1	60	---	---
4630 copper ore	0	---	0	---	---
4650 aluminum ore	1	0	1	---	---
4680 non-ferrous scrap	53	0	53	---	---
4690 non-ferrous ores nec	6	1	6	---	---
Subtotal sulphur, clay and salt	6	1	5	---	---
4741 sulphur, (dry)	0	0	0	---	---
4782 clay & refrac. mat.	6	1	5	---	---
Subtotal slag	0	---	0	---	---
4860 slag	0	---	0	---	---
Subtotal other non-metal. min.	83	5	78	0	0
4900 non-metal. min. nec	83	5	78	0	0
Total primary manufactured goods	1,015	678	325	13	0
Subtotal paper products	155	88	62	5	0
5110 newsprint	9	3	1	4	---
5120 paper & paperboard	104	59	44	1	---
5190 paper products nec	42	26	16	---	0
Subtotal lime, cement and glass	262	238	19	5	0
5220 cement & concrete	0	0	0	---	---
5240 glass & glass prod.	104	95	9	1	0
5290 misc. mineral prod.	157	143	10	5	---
Subtotal primary iron and steel products	108	79	28	0	---
5312 pig iron	2	1	1	---	---
5315 ferro alloys	0	0	---	---	---
5320 i&s primary forms	23	18	5	0	---
5330 i&s plates & sheets	42	22	19	---	---
5360 i&s bars & shapes	12	12	0	0	---
5370 i&s pipe & tube	18	17	1	0	---
5390 primary i&s nec	11	8	2	---	---
Subtotal primary non-ferrous metal products	463	247	214	2	---
5421 copper	5	3	1	0	---
5422 aluminum	22	18	4	0	---
5429 smelted prod. nec	188	5	183	---	---
5480 fab. metal products	248	221	26	2	---
Subtotal primary wood products	28	26	1	1	---
5540 primary wood prod.	28	26	1	1	---
Total food and farm products	3,798	1,050	2,718	28	3
Subtotal fish	67	18	47	0	1
6134 fish (not shellfish)	32	12	20	0	0
6136 shellfish	35	6	27	0	1
Subtotal grain	223	69	154	---	---
6241 wheat	1	1	0	---	---
6344 corn	12	0	12	---	---
6442 rice	209	68	141	---	---
6443 barley & rye	0	---	0	---	---
6445 oats	0	0	0	---	---
6447 sorghum grains	0	---	0	---	---
Subtotal oilseeds	33	9	25	---	---
6521 peanuts	1	1	0	---	---
6522 soybeans	14	1	13	---	---
6534 flaxseed	0	0	---	---	---
6590 oilseeds nec	18	6	12	---	---
Subtotal vegetable products	363	99	256	7	0
6653 vegetable oils	18	14	4	0	0
6654 vegetables & prod.	345	85	253	7	0
Subtotal processed grain and animal feed	425	25	399	1	0
6746 wheat flour	4	2	3	---	---
6747 grain mill products	54	18	35	1	0
6781 hay & fodder	211	1	210	---	---
6782 animal feed, prep.	156	4	152	---	0
Subtotal other agricultural products	2,688	830	1,837	20	2
6811 meat, fresh, frozen	452	62	390	0	---
6817 meat, prepared	15	2	14	0	---
6822 dairy products	53	8	45	0	0
6835 fish, prepared	15	12	2	0	---
6838 tallow, animal oils	0	0	0	---	---
6839 animals & prod. nec	130	3	126	0	0
6856 bananas & plantains	2	1	0	0	---
6857 fruit & nuts nec	503	25	478	1	1
6858 fruit juices	177	133	43	1	0
6861 sugar	33	32	1	---	---
6865 molasses	0	0	---	---	---
6871 coffee	81	77	3	0	---
6872 cocoa beans	16	15	0	0	---
6885 alcoholic beverages	566	310	245	11	1
6888 water & ice	86	24	58	4	---
6889 food products nec	336	113	221	2	0
6891 tobacco & products	45	2	43	0	---
6893 cotton	157	0	157	---	---
6894 natural fibers nec	3	2	2	---	---
6899 farm products nec	17	8	8	0	---
Total all manufactured equipment, machinery and products	1,918	1,594	319	4	1
7110 machinery (not elec)	149	107	42	0	0

OAKLAND HARBOR, CA
 Freight Traffic, 2002 - continued
 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Inbound*	Outbound*	Inbound*	Outbound*
7120 electrical machinery	298	262	35	0	0
7210 vehicles & parts	395	346	49	0	0
7220 aircraft & parts	1	1	0	0	0
7230 ships & boats	1	1	1	0	0
7300 ordnance & access.	1	1	0	0	—
7400 manufac. wood prod.	66	41	25	0	0
7500 textile products	161	142	19	0	0
7600 rubber & plastic pr.	149	119	30	0	0
7900 manufac. prod. nec	696	575	119	3	0
Total unknown or not elsewhere classified	333	204	128	2	0
9900 unknown or nec	333	204	128	2	0

Commodity	Total	Domestic			
		Coastwise		Internal	
		Receipts	Shipments	Receipts	Shipments
Total, all commodities	2,995	336	1,077	1,516	66
Total petroleum and petroleum products	808	116	5	686	—
Subtotal petroleum products	808	116	5	686	—
2330 distillate fuel oil	0	—	—	0	—
2340 residual fuel oil	655	—	—	655	—
2350 lube oil & greases	34	0	3	31	—
2429 naphtha & solvents	116	116	—	—	—
2640 liquid natural gas	1	0	1	—	—
2990 petro. products nec	2	0	2	—	—
Total chemicals and related products	29	4	25	—	—
Subtotal fertilizers	9	2	7	—	—
3190 fert. & mixes nec	9	2	7	—	—
Subtotal other chemicals and related products	19	2	17	—	—
3275 inorg. elem., oxides, & halogen salts	0	—	0	—	—
3281 radioactive material	0	0	—	—	—
3282 pigments & paints	3	—	3	—	—
3284 medicines	1	0	1	—	—
3285 perfumes & cleansers	10	0	10	—	—
3286 plastics	3	0	2	—	—
3291 pesticides	0	—	0	—	—
3292 starches, gluten, glue	0	—	0	—	—
3293 explosives	0	0	0	—	—
3299 chem. products nec	3	1	1	—	—
Total crude materials, inedible except fuels	853	5	9	830	8
Subtotal forest products, wood and chips	11	4	7	—	—
4170 wood in the rough	0	0	—	—	—
4189 lumber	11	4	7	—	—
4190 forest products nec	0	0	0	—	—
Subtotal pulp and waste paper	0	—	0	—	—
4225 pulp & waste paper	0	—	0	—	—
Subtotal soil, sand, gravel, rock and stone	839	0	1	830	8
4331 sand & gravel	838	—	—	830	8
4338 soil & fill dirt	1	0	1	—	—
Subtotal iron ore and scrap	0	0	0	—	—
4420 iron & steel scrap	0	0	0	—	—
Subtotal non-ferrous ores and scrap	0	0	—	—	—
4680 non-ferrous scrap	0	0	—	—	—
Subtotal other non-metal. min.	2	0	2	—	—
4900 non-metal. min. nec	2	0	2	—	—
Total primary manufactured goods	48	5	43	0	—
Subtotal paper products	8	2	6	—	—
5110 newsprint	1	0	0	—	—
5120 paper & paperboard	2	0	2	—	—
5190 paper products nec	5	1	4	—	—
Subtotal lime, cement and glass	23	1	22	0	—
5220 cement & concrete	1	0	1	—	—
5240 glass & glass prod.	0	0	0	—	—
5290 misc. mineral prod.	21	1	20	0	—
Subtotal primary iron and steel products	2	—	2	—	—
5370 i&s pipe & tube	2	—	2	—	—
Subtotal primary non-ferrous metal products	15	2	13	0	—
5480 fab. metal products	15	2	13	0	—
Subtotal primary wood products	0	—	0	—	—
5540 primary wood prod.	0	—	0	—	—
Total food and farm products	560	86	416	—	57
Subtotal fish	1	—	1	—	—
6134 fish (not shellfish)	1	—	1	—	—

OAKLAND HARBOR, CA
 Freight Traffic, 2002 - continued
 (thousand short tons)

Commodity	Total	Domestic			
		Coastwise		Internal	
		Receipts	Shipments	Receipts	Shipments
Subtotal grain	41	0	41	---	---
6344 corn	0	0	0	---	---
6442 rice	41	---	41	---	---
Subtotal vegetable products	27	2	26	---	---
6654 vegetables & prod.	27	2	26	---	---
Subtotal processed grain and animal feed	16	1	15	---	---
6746 wheat flour	4	0	4	---	---
6747 grain mill products	2	0	2	---	---
6781 hay & fodder	0	---	0	---	---
6782 animal feed, prep.	9	1	9	---	---
Subtotal other agricultural products	475	83	334	---	57
6811 meat, fresh, frozen	45	0	45	---	---
6822 dairy products	31	0	31	---	---
6839 animals & prod. nec	11	3	7	---	---
6856 bananas & plantains	0	---	0	---	---
6857 fruit & nuts nec	5	3	2	---	---
6858 fruit juices	30	30	0	---	---
6861 sugar	0	---	0	---	---
6865 molasses	91	34	---	---	57
6871 coffee	4	1	2	---	---
6885 alcoholic beverages	35	0	35	---	---
6887 groceries	47	0	47	---	---
6889 food products nec	156	7	149	---	---
6891 tobacco & products	1	---	1	---	---
6899 farm products nec	17	3	14	---	---
Total all manufactured equipment, machinery and products	684	117	566	---	---
7110 machinery (not elec)	56	24	32	---	---
7120 electrical machinery	1	0	1	---	---
7210 vehicles & parts	105	31	73	---	---
7220 aircraft & parts	0	0	0	---	---
7230 ships & boats	0	0	0	---	---
7400 manufac. wood prod.	11	5	6	---	---
7500 textile products	3	1	2	---	---
7600 rubber & plastic pr.	2	0	2	---	---
7900 manufac. prod. nec	505	56	449	---	---
Total unknown or not elsewhere classified	15	3	12	---	---
9900 unknown or nec	15	3	12	---	---

*Includes 44,803 tons of foreign inbound in-transits; Includes 38,343 tons of foreign outbound in-transits;
 Includes 2,420 tons of Canadian inbound in-transits; Includes 63 tons of Canadian outbound in-transits.

RICHMOND HARBOR, CA

Section Included: Inner harbor, from southern end of Richmond Long Wharf maneuvering area to the head of Santa Fe Channel, a distance of about 5 miles; outer harbor, from southern end of maneuvering area at Richmond Long Wharf to Point San Pablo and the north side of Point San Pablo; includes a connecting channel (Southampton Channel) to the Richmond Long Wharf maneuvering area and approach areas at Point San Pablo and Point Orient. Controlling Depth: 45.7 feet in Southampton Channel (connecting channel from San Francisco Bay to Richmond Long Wharf maneuvering area); 44.7 feet in maneuvering area to Richmond Long Wharf; 34.8 feet from Richmond Long Wharf maneuvering area to turning basin Point Richmond; 34.8 feet in Point Richmond turning basin; 34.5 feet to Point Potrero; 34.0 feet in turning basin at Point Potrero; Point Potrero (southerly apex only) 28.7 feet; 34.7 feet to Lauritzen Canal then 30.4 feet in Santa Fe Channel to upper turning basin; 30.4 feet in upper turning basin; 27 feet in approach to Point Orient; 26 feet in approach to Point San Pablo; 30.6 feet at Molate Point; and 33.4 feet in West Richmond Channel. Project Depth: 45 feet in connecting channel (Southampton Channel) from San Francisco Bay to Richmond Long Wharf maneuvering area; 45 feet in maneuvering area to Richmond Long Wharf; 35 feet to turning basin at Point Richmond; 35 feet to Point Potrero; 35 feet to Santa Fe Channel; 35 feet in Santa Fe Channel for approximately 2,000 feet then 30 feet in the remainder of Santa Fe Channel and turning basin; 20 feet in channel east of Point San Pablo Channel; 32 feet in approach to Point Orient; 32 feet in approach to Point San Pablo.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1993	24,570	1996	21,803	1999	22,356	2002	21,901
1994	24,094	1997	21,706	2000	19,388		
1995	20,839	1998	19,020	2001	21,220		

Freight Traffic, 2002 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Inbound*	Outbound	Inbound	Outbound
Total, all commodities	10,313	8,376	1,616	316	5
Total petroleum and petroleum products	8,646	7,607	984	56	---
Subtotal crude petroleum	5,998	5,994	4	---	---
2100 crude petroleum	5,998	5,994	4	---	---
Subtotal petroleum products	2,648	1,613	979	56	---
2211 gasoline	48	3	45	---	---
2221 kerosene	211	211	---	---	---
2330 distillate fuel oil	616	437	173	6	---
2340 residual fuel oil	1,157	660	497	---	---
2350 lube oil & greases	72	4	18	50	---
2410 petro. jelly & waxes	56	56	---	---	---
2429 naphtha & solvents	106	84	23	---	---
2540 petroleum coke	382	158	224	---	---
Total chemicals and related products	713	221	227	260	5
Subtotal other chemicals and related products	713	221	227	260	5
3211 acyclic hydrocarbons	70	---	44	27	---
3212 benzene & toluene	43	38	---	---	5
3220 alcohols	156	25	---	131	---
3230 carboxylic acids	10	10	---	---	---
3250 organo - inorg. comp.	1	---	1	---	---
3260 organic comp. nec	195	97	---	97	---
3274 sodium hydroxide	54	48	---	6	---
3275 inorg. elem., oxides, & halogen salts	176	---	176	---	---
3276 metallic salts	0	---	0	---	---
3279 inorganic chem. nec	2	2	---	---	---
3286 plastics	0	0	---	---	---
3291 pesticides	0	0	---	---	---
3299 chem. products nec	7	1	6	---	---
Total crude materials, inedible except fuels	618	304	314	---	---
Subtotal soil, sand, gravel, rock and stone	237	237	0	---	---
4310 building stone	0	---	0	---	---
4323 gypsum	237	237	---	---	---
Subtotal iron ore and scrap	314	---	314	---	---
4420 iron & steel scrap	314	---	314	---	---
Subtotal non-ferrous ores and scrap	68	68	---	---	---
4650 aluminum ore	68	68	---	---	---
Subtotal other non-metal. min.	0	---	0	---	---
4900 non-metal. min. nec	0	---	0	---	---
Total primary manufactured goods	49	21	28	---	---
Subtotal paper products	0	0	---	---	---
5120 paper & paperboard	0	0	---	---	---
5190 paper products nec	0	0	---	---	---
Subtotal lime, cement and glass	1	1	---	---	---
5240 glass & glass prod.	1	1	---	---	---
5290 misc. mineral prod.	0	0	---	---	---
Subtotal primary iron and steel products	19	19	---	---	---
5320 i&s primary forms	0	0	---	---	---
5330 i&s plates & sheets	8	8	---	---	---
5360 i&s bars & shapes	3	3	---	---	---
5370 i&s pipe & tube	7	7	---	---	---
Subtotal primary non-ferrous metal products	29	1	28	---	---
5422 aluminum	0	0	---	---	---
5429 smelted prod. nec	28	---	28	---	---
5480 fab. metal products	1	1	---	---	---
Total food and farm products	226	175	51	---	---
Subtotal grain	0	---	0	---	---
6442 rice	0	---	0	---	---
Subtotal oilseeds	56	56	---	---	---
6590 oilseeds nec	56	56	---	---	---

RICHMOND HARBOR, CA
Freight Traffic, 2002 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Inbound*	Outbound	Inbound	Outbound
Subtotal vegetable products	142	113	29	---	---
6653 vegetable oils	142	113	29	---	---
6654 vegetables & prod.	0	---	0	---	---
Subtotal processed grain and animal feed	7	---	7	---	---
6782 animal feed, prep.	7	---	7	---	---
Subtotal other agricultural products	22	6	15	---	---
6838 tallow, animal oils	15	---	15	---	---
6857 fruit & nuts nec	0	---	0	---	---
6885 alcoholic beverages	1	0	0	---	---
6889 food products nec	6	6	---	---	---
Total all manufactured equipment, machinery and products	1	1	0	---	---
7110 machinery (not elec)	1	1	---	---	---
7120 electrical machinery	0	0	---	---	---
7210 vehicles & parts	0	0	0	---	---
7230 ships & boats	0	0	---	---	---
7400 manufac. wood prod.	0	0	0	---	---
7500 textile products	0	0	---	---	---
7900 manufac. prod. nec	0	0	---	---	---
Total unknown or not elsewhere classified	59	46	12	---	---
9900 unknown or nec	59	46	12	---	---

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total, all commodities	11,588	5,768	2,790	940	1,564	526
Total petroleum and petroleum products	11,142	5,674	2,748	776	1,418	526
Subtotal crude petroleum	4,691	4,501	37	---	153	---
2100 crude petroleum	4,691	4,501	37	---	153	---
Subtotal petroleum products	6,451	1,173	2,711	776	1,265	526
2211 gasoline	2,150	314	1,717	66	25	29
2221 kerosene	1	---	---	1	---	---
2330 distillate fuel oil	1,195	802	87	212	36	58
2340 residual fuel oil	1,961	47	427	200	1,132	156
2350 lube oil & greases	1,137	11	480	297	67	281
2410 petro. jelly & waxes	2	---	---	---	---	2
2429 naphtha & solvents	5	---	---	---	5	---
Total chemicals and related products	150	94	42	6	8	---
Subtotal other chemicals and related products	150	94	42	6	8	---
3211 acyclic hydrocarbons	19	---	19	---	---	---
3212 benzene & toluene	39	21	10	---	8	---
3274 sodium hydroxide	21	21	---	---	---	---
3275 inorg. elem., oxides, & halogen salts	28	28	---	---	---	---
3297 chemical additives	42	23	13	6	---	---
Total crude materials, inedible except fuels	276	---	---	138	138	---
Subtotal soil, sand, gravel, rock and stone	276	---	---	138	138	---
4331 sand & gravel	276	---	---	138	138	---
Total primary manufactured goods	19	---	---	19	0	---
Subtotal lime, cement and glass	18	---	---	18	0	---
5290 misc. mineral prod.	18	---	---	18	0	---
Subtotal primary iron and steel products	0	---	---	0	---	---
5370 i&s pipe & tube	0	---	---	0	---	---
Subtotal primary non-ferrous metal products	1	---	---	1	0	---
5480 fab. metal products	1	---	---	1	0	---
Total all manufactured equipment, machinery and products	0	---	---	0	0	---
7110 machinery (not elec)	0	---	---	0	0	---

*Includes 59,709 tons of foreign inbound in-transits.

SAN PABLO BAY AND MARE ISLAND STRAIT, CA

Section Included: All of San Pablo Bay and Mare Island Strait. Controlling Depth: Pinole Shoal channel 36.3 feet from San Pablo buoy at beginning of channel to buoy 9; 34.3 feet to buoy 11; 35.1 feet to end of channel; Mare Island Strait (the maintained westerly 55% of project width) 36.3 feet to the Navy Ammunition Pier; 35.8 feet to Finger Pier No. 21; 36.0 feet to "A" Street (end of maintained section); 20.5 feet to the end of 26-foot project at causeway. Project Depth: 35 feet in Pinole Shoal Channel and 30 feet in Mare Island Strait, except at upstream end of turning basin, 26 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1993	34,447	1996	28,579	1999	18,612	2002	24,380
1994	32,367	1997	22,480	2000	19,877		
1995	31,265	1998	20,198	2001	22,396		

Freight Traffic, 2002 (thousand short tons)

Commodity	Total	Foreign				Canadian		
		Inbound*	Outbound	Through		Outbound	Through	
				Upbound*	Downbnd*		Upbound	Downbnd
Total, all commodities	12,859	1,116	251	7,603	3,247	31	573	37
Total petroleum and petroleum products	6,656	1,062	251	3,294	1,885	31	95	37
Subtotal crude petroleum	3,624	861	5	2,679	---	---	79	---
2100 crude petroleum	3,624	861	5	2,679	---	---	79	---
Subtotal petroleum products	3,032	202	246	616	1,885	31	16	37
2211 gasoline	382	4	---	260	50	31	---	37
2221 kerosene	79	---	---	74	---	---	5	---
2330 distillate fuel oil	184	---	79	42	52	---	11	---
2340 residual fuel oil	686	27	167	21	471	---	---	---
2350 lube oil & greases	115	39	---	14	62	---	---	---
2410 petro. jelly & waxes	6	2	---	4	---	---	---	---
2429 naphtha & solvents	577	130	---	200	247	---	---	---
2540 petroleum coke	1,002	---	---	---	1,002	---	---	---
Total chemicals and related products	2,036	54	---	1,280	224	---	478	---
Subtotal fertilizers	535	---	---	452	---	---	83	---
3110 nitrogenous fert.	490	---	---	407	---	---	83	---
3130 potassic fert.	7	---	---	7	---	---	---	---
3190 fert. & mixes nec	37	---	---	37	---	---	---	---
Subtotal other chemicals and related products	1,501	54	---	828	224	---	395	---
3211 acyclic hydrocarbons	15	---	---	---	15	---	---	---
3212 benzene & toluene	53	48	---	5	---	---	---	---
3220 alcohols	32	---	---	32	---	---	---	---
3230 carboxylic acids	4	---	---	4	---	---	---	---
3240 nitrogen func. comp.	13	---	---	13	---	---	---	---
3250 organo - inorg. comp.	0	---	---	---	0	---	---	---
3260 organic comp. nec	774	---	---	623	---	---	151	---
3273 ammonia	296	---	---	91	---	---	205	---
3274 sodium hydroxide	63	---	---	24	---	---	39	---
3275 inorg. elem., oxides, & halogen salts	176	---	---	1	175	---	---	---
3276 metallic salts	8	---	---	8	---	---	---	---
3279 inorganic chem. nec	33	---	---	---	33	---	---	---
3284 medicines	27	---	---	27	---	---	---	---
3286 plastics	0	---	---	0	---	---	---	---
3297 chemical additives	6	6	---	---	---	---	---	---
Total crude materials, inedible except fuels	824	---	---	293	531	---	---	---
Subtotal forest products, wood and chips	183	---	---	67	116	---	---	---
4161 wood chips	116	---	---	---	116	---	---	---
4170 wood in the rough	15	---	---	15	---	---	---	---
4189 lumber	52	---	---	52	---	---	---	---
Subtotal soil, sand, gravel, rock and stone	217	---	---	217	---	---	---	---
4323 gypsum	214	---	---	214	---	---	---	---
4331 sand & gravel	3	---	---	3	---	---	---	---
Subtotal iron ore and scrap	73	---	---	---	73	---	---	---
4420 iron & steel scrap	73	---	---	---	73	---	---	---
Subtotal sulphur, clay and salt	350	---	---	8	342	---	---	---
4741 sulphur, (dry)	350	---	---	8	342	---	---	---
Total primary manufactured goods	1,461	---	---	1,461	---	---	---	---
Subtotal paper products	0	---	---	0	---	---	---	---
5120 paper & paperboard	0	---	---	0	---	---	---	---
5190 paper products nec	0	---	---	0	---	---	---	---
Subtotal lime, cement and glass	552	---	---	552	---	---	---	---
5220 cement & concrete	551	---	---	551	---	---	---	---
5240 glass & glass prod.	1	---	---	1	---	---	---	---
5290 misc. mineral prod.	0	---	---	0	---	---	---	---
Subtotal primary iron and steel products	184	---	---	184	---	---	---	---
5320 i&s primary forms	2	---	---	2	---	---	---	---
5330 i&s plates & sheets	150	---	---	150	---	---	---	---
5360 i&s bars & shapes	16	---	---	16	---	---	---	---
5370 i&s pipe & tube	16	---	---	16	---	---	---	---

SAN PABLO BAY AND MARE ISLAND STRAIT, CA
Freight Traffic, 2002 - continued
(thousand short tons)

Commodity	Total	Foreign				Canadian		
		Inbound*	Outbound	Through		Outbound	Through	
				Upbound*	Downbnd*		Upbound	Downbnd
Subtotal primary non-ferrous metal products	704	---	---	704	---	---	---	---
5422 aluminum	1	---	---	1	---	---	---	---
5480 fab. metal products	703	---	---	703	---	---	---	---
Subtotal primary wood products	21	---	---	21	---	---	---	---
5540 primary wood prod.	21	---	---	21	---	---	---	---
Total food and farm products	1,707	---	---	1,103	603	---	---	---
Subtotal grain	592	---	---	---	592	---	---	---
6241 wheat	91	---	---	---	91	---	---	---
6442 rice	501	---	---	---	501	---	---	---
Subtotal oilseeds	211	---	---	206	4	---	---	---
6590 oilseeds nec	211	---	---	206	4	---	---	---
Subtotal vegetable products	65	---	---	59	6	---	---	---
6653 vegetable oils	65	---	---	59	6	---	---	---
Subtotal processed grain and animal feed	56	---	---	56	---	---	---	---
6747 grain mill products	0	---	---	0	---	---	---	---
6781 hay & fodder	28	---	---	28	---	---	---	---
6782 animal feed, prep.	28	---	---	28	---	---	---	---
Subtotal other agricultural products	783	---	---	781	2	---	---	---
6838 tallow, animal oils	2	---	---	0	2	---	---	---
6861 sugar	565	---	---	565	---	---	---	---
6865 molasses	193	---	---	193	---	---	---	---
6885 alcoholic beverages	1	---	---	1	---	---	---	---
6888 water & ice	0	---	---	0	---	---	---	---
6889 food products nec	1	---	---	1	---	---	---	---
6899 farm products nec	22	---	---	22	---	---	---	---
Total all manufactured equipment, machinery and products	163	---	---	159	4	---	0	---
7110 machinery (not elec)	80	---	---	79	1	---	0	---
7120 electrical machinery	2	---	---	---	2	---	---	---
7210 vehicles & parts	78	---	---	77	1	---	---	---
7400 manufac. wood prod.	3	---	---	3	---	---	---	---
7500 textile products	0	---	---	0	---	---	---	---
7600 rubber & plastic pr.	0	---	---	0	0	---	---	---
7900 manufac. prod. nec	0	---	---	0	0	---	---	---
Total unknown or not elsewhere classified	12	---	---	12	---	---	---	---
9900 unknown or nec	12	---	---	12	---	---	---	---
Ton-miles (x1000) Foreign & Canadian	128,589	11,160	2,513	76,031	32,471	314	5,730	371

Commodity	Total	Coastwise			
		Receipts	Shipments	Through	
				Upbound	Downbnd
Total, all commodities	9,437	256	615	7,296	1,270
Total petroleum and petroleum products	9,155	251	615	7,210	1,080
Subtotal crude petroleum	6,446	---	---	6,446	---
2100 crude petroleum	6,446	---	---	6,446	---
Subtotal petroleum products	2,709	251	615	764	1,080
2211 gasoline	1,269	234	329	210	496
2330 distillate fuel oil	789	---	105	415	269
2340 residual fuel oil	433	---	150	15	268
2350 lube oil & greases	151	---	24	90	37
2429 naphtha & solvents	42	---	7	25	10
2540 petroleum coke	9	---	---	9	---
2990 petro. products nec	17	17	---	---	---
Total chemicals and related products	277	6	---	85	186
Subtotal fertilizers	9	---	---	9	---
3110 nitrogenous fert.	9	---	---	9	---
Subtotal other chemicals and related products	268	6	---	77	186
3212 benzene & toluene	20	6	---	---	14
3220 alcohols	167	---	---	---	167
3276 metallic salts	3	---	---	3	---
3297 chemical additives	79	---	---	74	5
Total crude materials, inedible except fuels	4	---	---	---	4
Subtotal forest products, wood and chips	4	---	---	---	4
4161 wood chips	4	---	---	---	4
Total all manufactured equipment, machinery and products	0	---	---	0	---
7110 machinery (not elec)	0	---	---	0	---
Ton-miles (x1000) Coastwise	94,371	2,565	6,149	72,960	12,697

SAN PABLO BAY AND MARE ISLAND STRAIT, CA
Freight Traffic, 2002 - continued
(thousand short tons)

Commodity	Total	Internal					
		Inbound		Outbound		Through	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	2,084	82	36	10	297	810	848
Total petroleum and petroleum products	1,303	82	29	10	297	355	530
Subtotal crude petroleum	212	79	—	—	—	133	—
2100 crude petroleum	212	79	—	—	—	133	—
Subtotal petroleum products	1,091	4	29	10	297	222	530
2211 gasoline	101	—	10	—	36	25	30
2221 kerosene	1	—	—	—	—	—	1
2330 distillate fuel oil	243	—	—	—	40	31	173
2340 residual fuel oil	436	4	16	6	137	131	143
2350 lube oil & greases	305	—	3	3	85	30	184
2429 naphtha & solvents	5	—	—	—	—	5	—
Total chemicals and related products	22	—	7	—	—	8	6
Subtotal other chemicals and related products	22	—	7	—	—	8	6
3212 benzene & toluene	8	—	—	—	—	8	—
3220 alcohols	7	—	7	—	—	—	—
3297 chemical additives	6	—	—	—	—	—	6
Total crude materials, inedible except fuels	626	—	—	—	—	390	236
Subtotal soil, sand, gravel, rock and stone	595	—	—	—	—	359	236
4331 sand & gravel	595	—	—	—	—	359	236
Subtotal marine shells	31	—	—	—	—	31	—
4515 marine shells	31	—	—	—	—	31	—
Total primary manufactured goods	76	—	—	—	—	0	76
Subtotal lime, cement and glass	73	—	—	—	—	—	73
5290 misc. mineral prod.	73	—	—	—	—	—	73
Subtotal primary iron and steel products	1	—	—	—	—	—	1
5370 i&s pipe & tube	1	—	—	—	—	—	1
Subtotal primary non-ferrous metal products	2	—	—	—	—	0	2
5480 fab. metal products	2	—	—	—	—	0	2
Total food and farm products	57	—	—	—	—	57	—
Subtotal other agricultural products	57	—	—	—	—	57	—
6865 molasses	57	—	—	—	—	57	—
Ton-miles (x1000)	18,420	822	0	0	2,970	7,980	6,649
Internal							
Tons All Traffic (x1000)	24,380						
Ton-miles All Traffic (x1000)	241,381						
Total Trip-ton-miles Internal and Intraport (x1000)	69,207						

*Includes 27,640 tons of foreign inbound in-transits; Includes 81,036 tons of foreign upbound through in-transits;
Includes 92,521 tons of foreign downbound through in-transits.

CARQUINEZ STRAIT, CA

Section Included: All of Carquinez Strait from Davis Point on the westerly end to the Benicia-Martinez Bridge at Suisun Point on the easterly end, a distance of about 8 miles. Controlling Depth: 33 feet. Project Depth: 45 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1993	26,046	1996	24,841	1999	17,388	2002	21,948
1994	26,118	1997	20,421	2000	18,435		
1995	26,931	1998	19,539	2001	20,203		

Freight Traffic, 2002 (thousand short tons)

Commodity	Total	Foreign				Canadian		
		Inbound*	Outbound*	Through Upbound* Downbnd*	Inbound	Through Upbound Downbnd		
Total, all commodities	11,460	4,005	1,040	3,598	2,207	225	348	37
Total petroleum and petroleum products	5,311	2,700	817	594	1,067	90	5	37
Subtotal crude petroleum	2,758	2,192	—	486	—	79	—	—
2100 crude petroleum	2,758	2,192	—	486	—	79	—	—
Subtotal petroleum products	2,553	508	817	108	1,067	11	5	37
2211 gasoline	347	241	27	19	23	—	—	37
2221 kerosene	79	74	—	—	—	—	5	—
2330 distillate fuel oil	104	36	41	6	11	11	—	—
2340 residual fuel oil	493	—	348	21	123	—	—	—
2350 lube oil & greases	76	12	44	2	19	—	—	—
2410 petro. jelly & waxes	4	—	—	4	—	—	—	—
2429 naphtha & solvents	447	146	212	55	35	—	—	—
2540 petroleum coke	1,002	—	146	—	856	—	—	—
Total chemicals and related products	1,982	643	219	637	5	136	342	—
Subtotal fertilizers	535	—	—	452	—	—	83	—
3110 nitrogenous fert.	490	—	—	407	—	—	83	—
3130 potassic fert.	7	—	—	7	—	—	—	—
3190 fert. & mixes nec	37	—	—	37	—	—	—	—
Subtotal other chemicals and related products	1,447	643	219	185	5	136	260	—
3211 acyclic hydrocarbons	15	—	10	—	5	—	—	—
3212 benzene & toluene	5	5	—	—	—	—	—	—
3220 alcohols	32	32	—	0	—	—	—	—
3230 carboxylic acids	4	—	—	4	—	—	—	—
3240 nitrogen func. comp.	13	13	—	0	—	—	—	—
3250 organo - inorg. comp.	0	—	—	—	0	—	—	—
3260 organic comp. nec	774	571	—	52	—	136	16	—
3273 ammonia	296	—	—	91	—	—	205	—
3274 sodium hydroxide	63	—	—	24	—	—	39	—
3275 inorg. elem., oxides, & halogen salts	176	—	175	1	—	—	—	—
3276 metallic salts	8	—	—	8	—	—	—	—
3279 inorganic chem. nec	33	—	33	—	—	—	—	—
3284 medicines	27	21	—	6	—	—	—	—
3286 plastics	0	—	—	0	—	—	—	—
Total crude materials, inedible except fuels	824	8	—	284	531	—	—	—
Subtotal forest products, wood and chips	183	—	—	67	116	—	—	—
4161 wood chips	116	—	—	—	116	—	—	—
4170 wood in the rough	15	—	—	15	—	—	—	—
4189 lumber	52	—	—	52	—	—	—	—
Subtotal soil, sand, gravel, rock and stone	217	—	—	217	—	—	—	—
4323 gypsum	214	—	—	214	—	—	—	—
4331 sand & gravel	3	—	—	3	—	—	—	—
Subtotal iron ore and scrap	73	—	—	—	73	—	—	—
4420 iron & steel scrap	73	—	—	—	73	—	—	—
Subtotal sulphur, clay and salt	350	8	—	—	342	—	—	—
4741 sulphur, (dry)	350	8	—	—	342	—	—	—
Total primary manufactured goods	1,461	—	—	1,461	—	—	—	—
Subtotal paper products	0	—	—	0	—	—	—	—
5120 paper & paperboard	0	—	—	0	—	—	—	—
5190 paper products nec	0	—	—	0	—	—	—	—
Subtotal lime, cement and glass	552	—	—	552	—	—	—	—
5220 cement & concrete	551	—	—	551	—	—	—	—
5240 glass & glass prod.	1	—	—	1	—	—	—	—
5290 misc. mineral prod.	0	—	—	0	—	—	—	—
Subtotal primary iron and steel products	184	—	—	184	—	—	—	—
5320 i&s primary forms	2	—	—	2	—	—	—	—
5330 i&s plates & sheets	150	—	—	150	—	—	—	—
5360 i&s bars & shapes	16	—	—	16	—	—	—	—
5370 i&s pipe & tube	16	—	—	16	—	—	—	—
Subtotal primary non-ferrous metal products	704	—	—	704	—	—	—	—
5422 aluminum	1	—	—	1	—	—	—	—
5480 fab. metal products	703	—	—	703	—	—	—	—
Subtotal primary wood products	21	—	—	21	—	—	—	—
5540 primary wood prod.	21	—	—	21	—	—	—	—

CARQUINEZ STRAIT, CA
Freight Traffic, 2002 - continued
(thousand short tons)

Commodity	Total	Foreign				Canadian		
		Inbound*	Outbound*	Through		Inbound	Through	
				Upbound*	Downbnd*			Upbound
Total food and farm products	1,707	565	1	538	602	---	---	---
Subtotal grain	592	---	---	---	592	---	---	---
6241 wheat	91	---	---	---	91	---	---	---
6442 rice	501	---	---	---	501	---	---	---
Subtotal oilseeds	211	---	---	206	4	---	---	---
6590 oilseeds nec	211	---	---	206	4	---	---	---
Subtotal vegetable products	65	---	1	59	4	---	---	---
6653 vegetable oils	65	---	1	59	4	---	---	---
Subtotal processed grain and animal feed	56	---	---	56	---	---	---	---
6747 grain mill products	0	---	---	0	---	---	---	---
6781 hay & fodder	28	---	---	28	---	---	---	---
6782 animal feed, prep.	28	---	---	28	---	---	---	---
Subtotal other agricultural products	783	565	---	216	2	---	---	---
6838 tallow, animal oils	2	---	---	0	2	---	---	---
6861 sugar	565	565	---	---	---	---	---	---
6865 molasses	193	---	---	193	---	---	---	---
6885 alcoholic beverages	1	---	---	1	---	---	---	---
6888 water & ice	0	---	---	0	---	---	---	---
6889 food products nec	1	---	---	1	---	---	---	---
6899 farm products nec	22	---	---	22	---	---	---	---
Total all manufactured equipment, machinery and products	163	77	3	82	1	---	0	---
7110 machinery (not elec)	80	---	---	79	1	---	0	---
7120 electrical machinery	2	---	2	---	---	---	---	---
7210 vehicles & parts	78	77	1	---	0	---	---	---
7400 manufac. wood prod.	3	---	---	3	---	---	---	---
7500 textile products	0	---	---	0	---	---	---	---
7600 rubber & plastic pr.	0	---	---	0	0	---	---	---
7900 manufac. prod. nec	0	---	---	0	0	---	---	---
Total unknown or not elsewhere classified	12	12	---	1	---	---	---	---
9900 unknown or nec	12	12	---	1	---	---	---	---
Ton-miles (x1000)	80,222	28,036	7,282	25,186	15,447	1,578	2,433	260
Foreign & Canadian								

Commodity	Total	Coastwise			
		Receipts	Shipments	Through	
				Upbound	Downbnd
Total, all commodities	8,566	6,854	767	442	503
Total petroleum and petroleum products	8,290	6,780	581	430	499
Subtotal crude petroleum	6,446	6,193	---	254	---
2100 crude petroleum	6,446	6,193	---	254	---
Subtotal petroleum products	1,844	587	581	177	499
2211 gasoline	707	156	275	54	221
2330 distillate fuel oil	684	304	160	111	109
2340 residual fuel oil	282	12	109	2	159
2350 lube oil & greases	127	90	37	---	---
2429 naphtha & solvents	35	16	---	9	10
2540 petroleum coke	9	9	---	---	---
Total chemicals and related products	271	74	186	12	---
Subtotal fertilizers	9	---	---	9	---
3110 nitrogenous fert.	9	---	---	9	---
Subtotal other chemicals and related products	263	74	186	3	---
3212 benzene & toluene	14	---	14	---	---
3220 alcohols	167	---	167	---	---
3276 metallic salts	3	---	---	3	---
3297 chemical additives	79	74	5	---	---
Total crude materials, inedible except fuels	4	---	---	---	4
Subtotal forest products, wood and chips	4	---	---	---	4
4161 wood chips	4	---	---	---	4
Total all manufactured equipment, machinery and products	0	0	---	---	---
7110 machinery (not elec)	0	0	---	---	---
Ton-miles (x1000)	56,423	47,033	2,776	3,094	3,521
Coastwise					

SUISUN BAY CHANNEL, CA

Section Included: Suisun Bay Channel from Suisun Point at west end of Benicia-Martinez Bridge to East Reach of Middleground Island thence to mouth of New York Slough. Controlling Depth: 35.0 feet from Suisun Point to Avon Wharf; 35.0 feet to Preston Point; 35.0 feet to Middle Point; 35.0 feet through East Reach Middleground Island, 38.0 feet to mouth of New York Slough, 35.0 feet thru New York Slough. Project Depth: 35 feet from Benicia-Martinez Bridge to Avon Pier, 30 feet for remainder of channel.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1993	7,133	1996	7,407	1999	5,728	2002	8,469
1994	7,556	1997	6,752	2000	6,515		
1995	7,012	1998	6,644	2001	6,419		

Freight Traffic, 2002 (thousand short tons)

Commodity	Total	Foreign				Canadian		
		Inbound	Outbound	Through		Inbound	Outbound	Through Upbound
				Upbound*	Downbnd*			
Total, all commodities	6,189	639	202	2,959	2,004	21	37	327
Total petroleum and petroleum products	1,703	588	202	6	865	5	37	---
Subtotal crude petroleum	486	486	---	---	---	---	---	---
2100 crude petroleum	486	486	---	---	---	---	---	---
Subtotal petroleum products	1,217	101	202	6	865	5	37	---
2211 gasoline	79	19	23	---	---	---	37	---
2221 kerosene	5	---	---	---	---	5	---	---
2330 distillate fuel oil	17	6	11	---	---	---	---	---
2340 residual fuel oil	145	21	123	---	---	---	---	---
2350 lube oil & greases	21	---	10	2	8	---	---	---
2410 petro. jelly & waxes	4	---	---	4	---	---	---	---
2429 naphtha & solvents	90	55	35	---	---	---	---	---
2540 petroleum coke	856	---	---	---	856	---	---	---
Total chemicals and related products	985	52	---	585	5	16	---	327
Subtotal fertilizers	535	---	---	452	---	---	---	83
3110 nitrogenous fert.	490	---	---	407	---	---	---	83
3130 potassic fert.	7	---	---	7	---	---	---	---
3190 fert. & mixes nec	37	---	---	37	---	---	---	---
Subtotal other chemicals and related products	450	52	---	134	5	16	---	244
3211 acyclic hydrocarbons	5	---	---	---	5	---	---	---
3220 alcohols	0	---	---	0	---	---	---	---
3230 carboxylic acids	4	---	---	4	---	---	---	---
3240 nitrogen func. comp.	0	---	---	0	---	---	---	---
3250 organo - inorg. comp.	0	---	---	---	0	---	---	---
3260 organic comp. nec	67	52	---	---	---	16	---	---
3273 ammonia	296	---	---	91	---	---	---	205
3274 sodium hydroxide	63	---	---	24	---	---	---	39
3275 inorg. elem., oxides, & halogen salts	1	---	---	1	---	---	---	---
3276 metallic salts	8	---	---	8	---	---	---	---
3284 medicines	6	---	---	6	---	---	---	---
3286 plastics	0	---	---	0	---	---	---	---
Total crude materials, inedible except fuels	816	---	---	284	531	---	---	---
Subtotal forest products, wood and chips	183	---	---	67	116	---	---	---
4161 wood chips	116	---	---	---	116	---	---	---
4170 wood in the rough	15	---	---	15	---	---	---	---
4189 lumber	52	---	---	52	---	---	---	---
Subtotal soil, sand, gravel, rock and stone	217	---	---	217	---	---	---	---
4323 gypsum	214	---	---	214	---	---	---	---
4331 sand & gravel	3	---	---	3	---	---	---	---
Subtotal iron ore and scrap	73	---	---	---	73	---	---	---
4420 iron & steel scrap	73	---	---	---	73	---	---	---
Subtotal sulphur, clay and salt	342	---	---	---	342	---	---	---
4741 sulphur, (dry)	342	---	---	---	342	---	---	---
Total primary manufactured goods	1,461	---	---	1,461	---	---	---	---
Subtotal paper products	0	---	---	0	---	---	---	---
5120 paper & paperboard	0	---	---	0	---	---	---	---
5190 paper products nec	0	---	---	0	---	---	---	---
Subtotal lime, cement and glass	552	---	---	552	---	---	---	---
5220 cement & concrete	551	---	---	551	---	---	---	---
5240 glass & glass prod.	1	---	---	1	---	---	---	---
5290 misc. mineral prod.	0	---	---	0	---	---	---	---
Subtotal primary iron and steel products	184	---	---	184	---	---	---	---
5320 i&s primary forms	2	---	---	2	---	---	---	---
5330 i&s plates & sheets	150	---	---	150	---	---	---	---
5360 i&s bars & shapes	16	---	---	16	---	---	---	---
5370 i&s pipe & tube	16	---	---	16	---	---	---	---
Subtotal primary non-ferrous metal products	704	---	---	704	---	---	---	---
5422 aluminum	1	---	---	1	---	---	---	---
5480 fab. metal products	703	---	---	703	---	---	---	---
Subtotal primary wood products	21	---	---	21	---	---	---	---
5540 primary wood prod.	21	---	---	21	---	---	---	---

SUISUN BAY CHANNEL, CA
 Freight Traffic, 2002 - continued
 (thousand short tons)

Commodity	Total	Foreign				Canadian		
		Inbound	Outbound	Through		Inbound	Outbound	Through Upbound
				Upbound*	Downbnd*			
Total food and farm products	1,141	---	---	538	602	---	---	---
Subtotal grain	592	---	---	---	592	---	---	---
6241 wheat	91	---	---	---	91	---	---	---
6442 rice	501	---	---	---	501	---	---	---
Subtotal oilseeds	211	---	---	206	4	---	---	---
6590 oilseeds nec	211	---	---	206	4	---	---	---
Subtotal vegetable products	64	---	---	59	4	---	---	---
6653 vegetable oils	64	---	---	59	4	---	---	---
Subtotal processed grain and animal feed	56	---	---	56	---	---	---	---
6747 grain mill products	0	---	---	0	---	---	---	---
6781 hay & fodder	28	---	---	28	---	---	---	---
6782 animal feed, prep.	28	---	---	28	---	---	---	---
Subtotal other agricultural products	218	---	---	216	2	---	---	---
6838 tallow, animal oils	2	---	---	0	2	---	---	---
6865 molasses	193	---	---	193	---	---	---	---
6885 alcoholic beverages	1	---	---	1	---	---	---	---
6888 water & ice	0	---	---	0	---	---	---	---
6889 food products nec	1	---	---	1	---	---	---	---
6899 farm products nec	22	---	---	22	---	---	---	---
Total all manufactured equipment, machinery and products	83	---	---	82	1	---	---	0
7110 machinery (not elec)	80	---	---	79	1	---	---	0
7210 vehicles & parts	0	---	---	---	0	---	---	---
7400 manufac. wood prod.	3	---	---	3	---	---	---	---
7500 textile products	0	---	---	0	---	---	---	---
7600 rubber & plastic pr.	0	---	---	0	0	---	---	---
7900 manufac. prod. nec	0	---	---	0	0	---	---	---
Total unknown or not elsewhere classified	1	---	---	1	---	---	---	---
9900 unknown or nec	1	---	---	1	---	---	---	---
Ton-miles (x1000) Foreign & Canadian	81,146	1,279	404	44,378	30,067	42	74	4,902

Commodity	Total	Coastwise			
		Receipts	Shipments	Through	
				Upbound	Downbnd
Total, all commodities	945	430	499	12	4
Total petroleum and petroleum products	929	430	499	---	---
Subtotal crude petroleum	254	254	---	---	---
2100 crude petroleum	254	254	---	---	---
Subtotal petroleum products	675	177	499	---	---
2211 gasoline	276	54	221	---	---
2330 distillate fuel oil	219	111	109	---	---
2340 residual fuel oil	162	2	159	---	---
2429 naphtha & solvents	19	9	10	---	---
Total chemicals and related products	12	---	---	12	---
Subtotal fertilizers	9	---	---	9	---
3110 nitrogenous fert.	9	---	---	9	---
Subtotal other chemicals and related products	3	---	---	3	---
3276 metallic salts	3	---	---	3	---
Total crude materials, inedible except fuels	4	---	---	---	4
Subtotal forest products, wood and chips	4	---	---	---	4
4161 wood chips	4	---	---	---	4
Ton-miles (x1000) Coastwise	1,740	555	947	175	63

Commodity	Total	Internal						
		Inbound Upbound	Outbound		Through		Intra	
			Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	1,334	462	6	575	149	37	8	98
Total petroleum and petroleum products	458	198	---	210	---	34	---	16
Subtotal crude petroleum	8	---	---	8	---	---	---	---
2100 crude petroleum	8	---	---	8	---	---	---	---
Subtotal petroleum products	450	198	---	202	---	34	---	16
2211 gasoline	51	28	---	24	---	---	---	---

SUISUN BAY CHANNEL, CA
 Freight Traffic, 2002 - continued
 (thousand short tons)

Commodity	Total	Internal						
		Inbound	Outbound		Through		Intra	
		Upbound	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
2330 distillate fuel oil	126	29	—	89	—	—	—	8
2340 residual fuel oil	136	87	—	40	—	—	—	8
2350 lube oil & greases	133	49	—	50	—	34	—	—
2429 naphtha & solvents	5	5	—	—	—	—	—	—
Total chemicals and related products	36	30	—	6	—	—	—	—
Subtotal other chemicals and related products	36	30	—	6	—	—	—	—
3212 benzene & toluene	8	8	—	—	—	—	—	—
3297 chemical additives	28	22	—	6	—	—	—	—
Total crude materials, inedible except fuels	783	235	6	358	92	3	8	82
Subtotal soil, sand, gravel, rock and stone	764	235	6	358	73	3	8	82
4331 sand & gravel	764	235	6	358	73	3	8	82
Subtotal marine shells	19	—	—	—	19	—	—	—
4515 marine shells	19	—	—	—	19	—	—	—
Total food and farm products	57	—	—	—	57	—	—	—
Subtotal other agricultural products	57	—	—	—	57	—	—	—
6865 molasses	57	—	—	—	57	—	—	—
Ton-miles (x1000)	6,956	257	41	3,198	2,240	549	8	664
Internal								
Tons All Traffic (x1000)		8,469						
Ton-miles All Traffic (x1000)		89,842						
Total Trip-ton-miles Internal and Intraport (x1000)		44,021						

*Includes 182 tons of foreign upbound through in-transits; Includes 92,442 tons of foreign downbound through in-transits.

PETALUMA RIVER, CA

Section Included: From across the flats in San Pablo Bay to the mouth of the Petaluma River a distance of 5.3 miles with a controlling depth of 7.0 feet. from the mouth of the river to Western Ave. a distance of 13 miles with a controlling depth of 8.0 feet and 270 feet above Western Ave. A controlling depth of 4.0 feet. Project Depth is 8.0 feet, except for 200 feet above Western Ave. which is 4.0 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1993	208	1996	208	1999	326	2002	323
1994	232	1997	216	2000	325		
1995	196	1998	280	2001	322		

Freight Traffic, 2002 (thousand short tons)

Commodity	Grand Total	Internal	
		Inbound Upbound	Outbound Downbnd
Total, all commodities	323	250	74
Total crude materials, inedible except fuels	250	250	—
Subtotal soil, sand, gravel, rock and stone	238	238	—
4331 sand & gravel	238	238	—
Subtotal marine shells	12	12	—
4515 marine shells	12	12	—
Total primary manufactured goods	74	—	74
Subtotal lime, cement and glass	73	—	73
5290 misc. mineral prod.	73	—	73
Subtotal primary non-ferrous metal products	1	—	1
5480 fab. metal products	1	—	1
Ton-miles (x1000)	3,557	2,748	809
Tons All Traffic (x1000)	323		
Ton-miles All Traffic (x1000)	3,557		
Total Trip-ton-miles Internal and Intraport (x1000)	10,212		

HUMBOLDT HARBOR AND BAY, CA

Section Included: Entrance channel to bay and channels in bay between Arcata Wharf on the north and Fields Landing on the south. Controlling Depth: Bar entrance channel, 45.1 feet; channel between the jetties, 35.0 feet; channel at intersection of Fields Landing and North Bay Channel, 27.5 feet, North Bay Channel, 34.8 feet to Standard Oil Wharf at Bucksport, 34.5 feet for remainder of channel; Samoa Channel, 34.6 feet; 30.0 feet in Samoa Turning Basin; Eureka Channel, 29.3 feet to angle in channel, 11.5 feet to "D" Street, 8.9 feet to head of project; Fields Landing Channel, 26.3 feet to Buhne Point, 29.6 feet at Buhne Point; 28.0 feet to turning basin, 28.5 feet in turning basin, 19.6 feet in southeast corner of turning basin. Project Depth: Entrance channel, 40 feet; North Bay, Samoa, and lower portion of Eureka Channel 30 feet, upper portion of Eureka Channel and Fields Landing Channel, 26 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1993	994	1996	1,197	1999	1,302	2002	920
1994	1,407	1997	1,175	2000	1,063		
1995	1,220	1998	1,072	2001	950		

Freight Traffic, 2002 (thousand short tons)

Commodity	Grand Total	Foreign	Canadian	Domestic		
		Outbound	Inbound	Total	Coastwise	
				Receipts	Shipments	
Total, all commodities	920	241	71	608	527	81
Total petroleum and petroleum products	266	—	—	266	266	—
Subtotal petroleum products	266	—	—	266	266	—
2211 gasoline	266	—	—	266	266	—
Total crude materials, inedible except fuels	626	212	71	343	262	81
Subtotal forest products, wood and chips	477	63	71	343	262	81
4161 wood chips	128	60	—	68	—	68
4170 wood in the rough	342	—	71	271	258	13
4189 lumber	7	3	—	4	4	—
Subtotal pulp and waste paper	149	149	—	—	—	—
4225 pulp & waste paper	149	149	—	—	—	—
Total primary manufactured goods	26	26	—	—	—	—
Subtotal paper products	26	26	—	—	—	—
5120 paper & paperboard	17	17	—	—	—	—
5190 paper products nec	9	9	—	—	—	—
Subtotal lime, cement and glass	1	1	—	—	—	—
5220 cement & concrete	1	1	—	—	—	—
Total unknown or not elsewhere classified	2	2	—	—	—	—
9900 unknown or nec	2	2	—	—	—	—

Other Harbors and Waterways 2002

Harbor or Waterway Project	Commodity	Thousand Short Tons
BERKELEY, CA	No Commerce Reported	
BODEGA BAY, CA	No Commerce Reported	
CRESCENT CITY HARBOR, CA	No Commerce Reported	
MONTEREY HARBOR, CA	No Commerce Reported	
MOSS LANDING HARBOR, CA	No Commerce Reported	
NAPA RIVER, CA	4331 sand & gravel	122
	5370 i&s pipe & tube	1
	5480 fab. metal products	1
	Total Tons(x1000)	123
	Total Ton-miles(x1000)	1,237
	Total Trip-ton-miles Internal and Intraport (x1000)	4,091
NOYO RIVER, CA	No Commerce Reported	
PILLAR POINT HARBOR, CA	No Commerce Reported	
SAN RAFAEL CREEK, CA	No Commerce Reported	
SANTA CRUZ HARBOR, CA	No Commerce Reported	
SUISUN CHANNEL, CA	No Commerce Reported	
Non-project		
OTHER SAN FRANCISCO BAY AREA PORTS, CA (NET)	2100 crude petroleum	133
	2211 gasoline	56
	2330 distillate fuel oil	25
	2340 residual fuel oil	422
	2350 lube oil & greases	15
	4331 sand & gravel	1,909
	4515 marine shells	31
	5290 misc. mineral prod.	4
	5370 i&s pipe & tube	0
	5480 fab. metal products	1
	7110 machinery (not elec)	0
	Total Tons(x1000)	2,597

Trips and Drafts of Vessels, 2002
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
SAN FRANCISCO BAY ENTRANCE, CA												
	Upbound						Downbound					
Grand Total	3,591	2,243	758	311	47	232	3,594	2,249	746	309	21	269
FOREIGN												
Total	2,506	2,017	460	17	7	5	2,532	2,040	470	12	8	2
49	1	—	1	—	—	—	—	—	—	—	—	—
43	5	4	1	—	—	—	—	—	—	—	—	—
42	14	9	5	—	—	—	2	2	—	—	—	—
41	25	16	9	—	—	—	13	13	—	—	—	—
40	29	23	6	—	—	—	36	36	—	—	—	—
39	45	36	9	—	—	—	48	44	4	—	—	—
38	87	62	25	—	—	—	70	65	5	—	—	—
37	122	74	48	—	—	—	85	79	6	—	—	—
36	152	103	49	—	—	—	125	116	9	—	—	—
35	115	98	17	—	—	—	95	88	7	—	—	—
34	129	114	15	—	—	—	193	126	67	—	—	—
33	158	146	12	—	—	—	159	150	9	—	—	—
32	276	258	18	—	—	—	274	250	24	—	—	—
31	168	149	19	—	—	—	140	115	25	—	—	—
30	215	187	28	—	—	—	206	180	26	—	—	—
29	161	121	40	—	—	—	168	149	18	—	—	1
28	156	119	37	—	—	—	186	125	61	—	—	—
27	160	133	27	—	—	—	158	116	42	—	—	—
26	119	84	35	—	—	—	126	79	47	—	—	—
25	87	71	16	—	—	—	113	89	24	—	—	—
24	68	51	17	—	—	—	80	61	19	—	—	—
23	38	29	7	1	1	—	48	37	11	—	—	—
22	41	36	4	—	—	1	61	37	22	1	1	—
21	33	27	5	—	1	—	42	34	7	—	1	—
20	34	32	2	—	—	—	40	23	17	—	—	—
19	23	19	4	—	—	—	22	12	10	—	—	—
18	45	16	4	16	5	4	42	14	10	11	6	1
DOMESTIC												
Total	1,085	226	298	294	40	227	1,062	209	276	297	13	267
50	2	—	2	—	—	—	—	—	—	—	—	—
49	2	—	2	—	—	—	—	—	—	—	—	—
48	1	—	1	—	—	—	—	—	—	—	—	—
46	1	—	1	—	—	—	—	—	—	—	—	—
45	7	—	7	—	—	—	—	—	—	—	—	—
44	16	—	16	—	—	—	—	—	—	—	—	—
43	7	—	7	—	—	—	—	—	—	—	—	—
41	3	—	3	—	—	—	—	—	—	—	—	—
40	22	—	22	—	—	—	8	—	8	—	—	—
39	21	—	21	—	—	—	—	—	—	—	—	—
38	17	—	17	—	—	—	3	—	3	—	—	—
37	17	—	17	—	—	—	16	—	16	—	—	—
36	5	—	5	—	—	—	20	1	19	—	—	—
35	12	6	6	—	—	—	27	15	12	—	—	—
34	26	18	8	—	—	—	37	30	7	—	—	—
33	27	21	6	—	—	—	25	19	6	—	—	—
32	40	22	18	—	—	—	27	18	9	—	—	—
31	26	15	11	—	—	—	21	14	7	—	—	—
30	23	5	18	—	—	—	24	9	15	—	—	—
29	18	11	7	—	—	—	10	7	3	—	—	—
28	18	11	7	—	—	—	7	4	3	—	—	—
27	17	11	6	—	—	—	56	7	49	—	—	—
26	18	6	5	—	—	7	21	1	6	—	—	14
25	6	4	2	—	—	—	12	2	10	—	—	—
24	2	1	1	—	—	—	5	4	1	—	—	—
23	9	2	7	—	—	—	16	6	10	—	—	—
22	6	—	6	—	—	—	17	7	9	—	—	1
21	23	5	4	—	—	14	70	15	13	—	—	42
20	36	3	2	26	—	5	47	7	5	26	—	9
19	19	—	—	2	—	17	30	6	—	2	—	22
18	638	85	63	266	40	184	563	37	65	269	13	179
										Total trips:		7,185

Trips and Drafts of Vessels, 2002
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels		
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	
SAN FRANCISCO HARBOR, CA													
Grand Total			Inbound						Outbound				
	36,963	35,736	15	698	413	101	36,420	35,207	17	697	412	87	
FOREIGN													
Total	160	144	9	4	3	—	159	136	14	4	5	—	
39	1	1	—	—	—	—	—	—	—	—	—	—	
38	11	11	—	—	—	—	—	—	—	—	—	—	
37	1	1	—	—	—	—	—	—	—	—	—	—	
35	2	2	—	—	—	—	—	—	—	—	—	—	
34	7	6	1	—	—	—	3	2	1	—	—	—	
33	4	4	—	—	—	—	5	5	—	—	—	—	
32	8	8	—	—	—	—	9	9	—	—	—	—	
31	7	7	—	—	—	—	6	5	1	—	—	—	
30	14	12	2	—	—	—	5	5	—	—	—	—	
29	8	6	2	—	—	—	17	16	1	—	—	—	
28	5	5	—	—	—	—	12	12	—	—	—	—	
27	19	19	—	—	—	—	27	26	1	—	—	—	
26	16	15	1	—	—	—	20	18	2	—	—	—	
25	21	21	—	—	—	—	21	21	—	—	—	—	
24	7	6	1	—	—	—	5	5	—	—	—	—	
23	6	6	—	—	—	—	3	3	—	—	—	—	
22	23	14	2	4	3	—	26	9	8	4	5	—	
DOMESTIC													
Total	36,803	35,592	6	694	410	101	36,261	35,071	3	693	407	87	
50	2	—	2	—	—	—	—	—	—	—	—	—	
32	1	—	1	—	—	—	—	—	—	—	—	—	
31	—	—	—	—	—	—	1	—	1	—	—	—	
28	1	—	1	—	—	—	—	—	—	—	—	—	
25	—	—	—	—	—	—	1	—	1	—	—	—	
22	36,799	35,592	2	694	410	101	36,259	35,071	1	693	407	87	
											Total trips:	73,383	
REDWOOD CITY HARBOR, CA													
Grand Total			Inbound						Outbound				
	203	27	—	114	62	—	189	27	—	101	61	—	
FOREIGN													
Total	29	27	—	2	—	—	27	27	—	—	—	—	
33	8	8	—	—	—	—	1	1	—	—	—	—	
32	4	4	—	—	—	—	1	1	—	—	—	—	
31	—	—	—	—	—	—	3	3	—	—	—	—	
30	5	5	—	—	—	—	1	1	—	—	—	—	
29	2	2	—	—	—	—	4	4	—	—	—	—	
28	1	1	—	—	—	—	2	2	—	—	—	—	
27	1	1	—	—	—	—	1	1	—	—	—	—	
26	—	—	—	—	—	—	1	1	—	—	—	—	
25	—	—	—	—	—	—	3	3	—	—	—	—	
24	—	—	—	—	—	—	4	4	—	—	—	—	
22	8	6	—	2	—	—	6	6	—	—	—	—	
DOMESTIC													
Total	174	—	—	112	62	—	162	—	—	101	61	—	
22	174	—	—	112	62	—	162	—	—	101	61	—	
											Total trips:	392	
OAKLAND HARBOR, CA													
Grand Total			Inbound						Outbound				
	12,013	9,034	3	2,138	432	406	12,495	9,522	1	2,145	410	417	
FOREIGN													
Total	1,531	1,525	3	2	1	—	1,546	1,538	1	5	2	—	
43	4	4	—	—	—	—	—	—	—	—	—	—	

Trips and Drafts of Vessels, 2002
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

OAKLAND HARBOR, CA - continued

Inbound

Outbound

FOREIGN

42	9	9	—	—	—	—	2	2	—	—	—	—
41	16	16	—	—	—	—	13	13	—	—	—	—
40	22	22	—	—	—	—	36	36	—	—	—	—
39	35	35	—	—	—	—	44	44	—	—	—	—
38	50	50	—	—	—	—	65	65	—	—	—	—
37	72	72	—	—	—	—	77	77	—	—	—	—
36	102	102	—	—	—	—	115	115	—	—	—	—
35	95	95	—	—	—	—	88	88	—	—	—	—
34	103	103	—	—	—	—	112	112	—	—	—	—
33	122	122	—	—	—	—	135	135	—	—	—	—
32	224	224	—	—	—	—	230	230	—	—	—	—
31	106	106	—	—	—	—	89	89	—	—	—	—
30	150	148	2	—	—	—	148	148	—	—	—	—
29	95	94	1	—	—	—	115	115	—	—	—	—
28	98	98	—	—	—	—	80	80	—	—	—	—
27	87	87	—	—	—	—	66	66	—	—	—	—
26	41	41	—	—	—	—	33	33	—	—	—	—
25	23	23	—	—	—	—	23	23	—	—	—	—
24	25	25	—	—	—	—	22	22	—	—	—	—
23	11	11	—	—	—	—	15	15	—	—	—	—
22	41	38	—	2	1	—	38	30	1	5	2	—

DOMESTIC

Total	10,482	7,509	—	2,136	431	406	10,949	7,984	—	2,140	408	417
37	—	—	—	—	—	—	1	1	—	—	—	—
36	4	4	—	—	—	—	4	4	—	—	—	—
35	8	8	—	—	—	—	24	24	—	—	—	—
34	19	19	—	—	—	—	41	41	—	—	—	—
33	25	25	—	—	—	—	12	12	—	—	—	—
32	19	19	—	—	—	—	15	15	—	—	—	—
31	12	12	—	—	—	—	12	12	—	—	—	—
30	4	4	—	—	—	—	4	4	—	—	—	—
29	9	9	—	—	—	—	4	4	—	—	—	—
28	10	10	—	—	—	—	3	3	—	—	—	—
27	11	11	—	—	—	—	5	5	—	—	—	—
26	6	6	—	—	—	—	—	—	—	—	—	—
25	5	5	—	—	—	—	2	2	—	—	—	—
24	1	1	—	—	—	—	5	5	—	—	—	—
23	1	1	—	—	—	—	6	6	—	—	—	—
22	10,348	7,375	—	2,136	431	406	10,811	7,846	—	2,140	408	417
										Total trips:		24,508

RICHMOND HARBOR, CA

Inbound

Outbound

Grand Total	6,529	53	386	4,162	419	1,509	6,567	65	391	4,173	415	1,523
--------------------	--------------	-----------	------------	--------------	------------	--------------	--------------	-----------	------------	--------------	------------	--------------

FOREIGN

Total	261	52	196	7	2	4	271	65	203	1	—	2
49	1	—	1	—	—	—	—	—	—	—	—	—
43	1	—	1	—	—	—	—	—	—	—	—	—
42	3	—	3	—	—	—	—	—	—	—	—	—
41	4	—	4	—	—	—	—	—	—	—	—	—
40	7	1	6	—	—	—	—	—	—	—	—	—
39	9	—	9	—	—	—	3	—	3	—	—	—
38	20	1	19	—	—	—	4	—	4	—	—	—
37	10	1	9	—	—	—	2	2	—	—	—	—
36	34	1	33	—	—	—	8	1	7	—	—	—
35	10	1	9	—	—	—	3	—	3	—	—	—
34	7	—	7	—	—	—	68	4	64	—	—	—
33	6	1	5	—	—	—	5	3	2	—	—	—
32	11	6	5	—	—	—	13	3	10	—	—	—
31	5	—	5	—	—	—	17	7	10	—	—	—
30	17	4	13	—	—	—	16	6	10	—	—	—
29	17	3	14	—	—	—	20	8	11	—	—	1
28	13	2	11	—	—	—	24	4	20	—	—	—

Trips and Drafts of Vessels, 2002
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
RICHMOND HARBOR, CA - continued												
	Inbound						Outbound					
FOREIGN												
27	14	6	8	—	—	—	15	4	11	—	—	—
26	16	6	10	—	—	—	17	5	12	—	—	—
25	9	2	7	—	—	—	13	5	8	—	—	—
24	9	4	5	—	—	—	8	1	7	—	—	—
23	7	4	1	1	1	—	11	6	5	—	—	—
22	31	9	11	6	1	4	24	6	16	1	—	1
DOMESTIC												
Total	6,268	1	190	4,155	417	1,505	6,296	—	188	4,172	415	1,521
49	2	—	2	—	—	—	1	—	1	—	—	—
48	1	—	1	—	—	—	—	—	—	—	—	—
46	1	—	1	—	—	—	—	—	—	—	—	—
45	8	—	8	—	—	—	1	—	1	—	—	—
44	15	—	15	—	—	—	—	—	—	—	—	—
43	7	—	7	—	—	—	—	—	—	—	—	—
41	3	—	3	—	—	—	1	—	1	—	—	—
40	9	—	9	—	—	—	3	—	3	—	—	—
39	3	—	3	—	—	—	—	—	—	—	—	—
38	6	—	6	—	—	—	1	—	1	—	—	—
37	8	—	8	—	—	—	5	—	5	—	—	—
36	3	—	3	—	—	—	18	—	18	—	—	—
35	5	—	5	—	—	—	16	—	16	—	—	—
34	8	—	8	—	—	—	5	—	5	—	—	—
33	3	—	3	—	—	—	6	—	6	—	—	—
32	10	—	10	—	—	—	12	—	12	—	—	—
31	7	—	7	—	—	—	15	—	15	—	—	—
30	11	—	11	—	—	—	18	—	18	—	—	—
29	4	—	4	—	—	—	12	—	12	—	—	—
28	6	—	6	—	—	—	3	—	3	—	—	—
27	5	—	5	—	—	—	11	—	11	—	—	—
26	3	—	3	—	—	—	3	—	3	—	—	—
25	6	—	6	—	—	—	4	—	4	—	—	—
24	1	1	—	—	—	—	1	—	1	—	—	—
23	2	—	2	—	—	—	4	—	4	—	—	—
22	6,131	—	54	4,155	417	1,505	6,156	—	48	4,172	415	1,521
										Total trips:		13,096

SAN PABLO BAY AND MARE ISLAND STRAIT, CA												
Grand Total	Upbound				Downbound							
	7,091	4,082	445	1,484	679	401	7,036	4,091	425	1,402	676	442
FOREIGN												
Total	525	269	252	2	1	1	529	274	252	2	1	—
42	2	—	2	—	—	—	—	—	—	—	—	—
41	5	—	5	—	—	—	—	—	—	—	—	—
39	—	—	—	—	—	—	1	—	1	—	—	—
38	6	—	6	—	—	—	1	—	1	—	—	—
37	39	—	39	—	—	—	6	—	6	—	—	—
36	16	—	16	—	—	—	2	—	2	—	—	—
35	8	—	8	—	—	—	4	—	4	—	—	—
34	12	5	7	—	—	—	10	8	2	—	—	—
33	18	11	7	—	—	—	13	6	7	—	—	—
32	29	16	13	—	—	—	21	7	14	—	—	—
31	50	36	14	—	—	—	25	11	14	—	—	—
30	29	18	11	—	—	—	36	20	16	—	—	—
29	39	16	23	—	—	—	12	6	6	—	—	—
28	39	13	26	—	—	—	68	27	41	—	—	—
27	39	20	19	—	—	—	49	19	30	—	—	—
26	46	22	24	—	—	—	55	22	33	—	—	—
25	34	25	9	—	—	—	53	37	16	—	—	—
24	27	16	11	—	—	—	41	29	12	—	—	—
23	14	8	6	—	—	—	19	13	6	—	—	—
22	73	63	6	2	1	1	113	69	41	2	1	—

Trips and Drafts of Vessels, 2002
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

SAN PABLO BAY AND MARE ISLAND STRAIT, CA - continued
Upbound

Downbound

DOMESTIC

Total	6,566	3,813	193	1,482	678	400	6,507	3,817	173	1,400	675	442
45	4	—	4	—	—	—	1	—	1	—	—	—
41	1	—	1	—	—	—	—	—	—	—	—	—
40	14	—	14	—	—	—	6	—	6	—	—	—
39	18	—	18	—	—	—	—	—	—	—	—	—
38	12	—	12	—	—	—	3	—	3	—	—	—
37	10	—	10	—	—	—	7	—	7	—	—	—
36	2	—	2	—	—	—	2	—	2	—	—	—
35	2	—	2	—	—	—	5	—	5	—	—	—
34	2	—	2	—	—	—	1	—	1	—	—	—
33	4	—	4	—	—	—	2	—	2	—	—	—
32	13	—	13	—	—	—	6	—	6	—	—	—
31	20	—	20	—	—	—	4	—	4	—	—	—
30	25	—	25	—	—	—	14	—	14	—	—	—
29	14	—	14	—	—	—	3	—	3	—	—	—
28	3	—	3	—	—	—	1	—	1	—	—	—
27	2	—	2	—	—	—	37	—	37	—	—	—
26	10	—	3	—	—	7	17	—	3	—	—	14
25	2	—	2	—	—	—	10	—	10	—	—	—
24	1	—	1	—	—	—	1	—	1	—	—	—
23	6	—	6	—	—	—	8	—	8	—	—	—
22	6,401	3,813	35	1,482	678	393	6,379	3,817	59	1,400	675	428
										Total trips:		14,127

CARQUINEZ STRAIT, CA

Upbound

Downbound

Grand Total	2,909	269	417	1,508	423	292	2,684	274	404	1,296	421	289
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FOREIGN

Total	507	269	234	2	1	1	511	274	235	1	1	—
39	—	—	—	—	—	—	1	—	1	—	—	—
38	5	—	5	—	—	—	1	—	1	—	—	—
37	—	—	37	—	—	—	5	—	5	—	—	—
36	15	—	15	—	—	—	2	—	2	—	—	—
35	6	—	6	—	—	—	4	—	4	—	—	—
34	12	5	7	—	—	—	10	8	2	—	—	—
33	18	11	7	—	—	—	11	6	5	—	—	—
32	29	16	13	—	—	—	20	7	13	—	—	—
31	49	36	13	—	—	—	25	11	14	—	—	—
30	29	18	11	—	—	—	35	20	15	—	—	—
29	39	16	23	—	—	—	12	6	6	—	—	—
28	38	13	25	—	—	—	63	27	36	—	—	—
27	38	20	18	—	—	—	45	19	26	—	—	—
26	46	22	24	—	—	—	55	22	33	—	—	—
25	33	25	8	—	—	—	52	37	15	—	—	—
24	27	16	11	—	—	—	40	29	11	—	—	—
23	14	8	6	—	—	—	19	13	6	—	—	—
22	72	63	5	2	1	1	111	69	40	1	1	—

DOMESTIC

Total	2,402	—	183	1,506	422	291	2,173	—	169	1,295	420	289
45	4	—	4	—	—	—	1	—	1	—	—	—
41	1	—	1	—	—	—	—	—	—	—	—	—
40	14	—	14	—	—	—	6	—	6	—	—	—
39	18	—	18	—	—	—	—	—	—	—	—	—
38	12	—	12	—	—	—	3	—	3	—	—	—
37	10	—	10	—	—	—	7	—	7	—	—	—
36	2	—	2	—	—	—	3	—	3	—	—	—
35	2	—	2	—	—	—	6	—	6	—	—	—
34	2	—	2	—	—	—	1	—	1	—	—	—
33	4	—	4	—	—	—	1	—	1	—	—	—
32	16	—	16	—	—	—	4	—	4	—	—	—
31	18	—	18	—	—	—	5	—	5	—	—	—
30	25	—	25	—	—	—	14	—	14	—	—	—
29	13	—	13	—	—	—	2	—	2	—	—	—

Trips and Drafts of Vessels, 2002
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

CARQUINEZ STRAIT, CA - continued

Upbound							Downbound					
DOMESTIC												
28	4	—	4	—	—	—	—	—	—	—	—	—
27	2	—	2	—	—	—	38	—	38	—	—	—
26	6	—	2	—	—	4	9	—	2	—	—	7
25	2	—	2	—	—	—	9	—	9	—	—	—
24	1	—	1	—	—	—	2	—	2	—	—	—
23	6	—	6	—	—	—	5	—	5	—	—	—
22	2,240	—	25	1,506	422	287	2,057	—	60	1,295	420	282
Total trips:											5,593	

SUISUN BAY CHANNEL, CA

Upbound							Downbound					
Grand Total	1,742	201	123	854	452	112	1,763	210	133	843	452	125
FOREIGN												
Total	296	201	93	1	1	—	313	210	101	1	1	—
39	—	—	—	—	—	—	1	—	1	—	—	—
38	1	—	1	—	—	—	—	—	—	—	—	—
37	7	—	7	—	—	—	—	—	—	—	—	—
36	3	—	3	—	—	—	—	—	—	—	—	—
35	—	—	—	—	—	—	1	—	1	—	—	—
34	2	1	1	—	—	—	8	8	—	—	—	—
33	12	8	4	—	—	—	6	5	1	—	—	—
32	18	13	5	—	—	—	7	5	2	—	—	—
31	37	31	6	—	—	—	12	6	6	—	—	—
30	20	14	6	—	—	—	22	18	4	—	—	—
29	20	12	8	—	—	—	6	5	1	—	—	—
28	25	9	16	—	—	—	32	25	7	—	—	—
27	18	11	7	—	—	—	24	14	10	—	—	—
26	28	18	10	—	—	—	35	16	19	—	—	—
25	22	17	5	—	—	—	39	29	10	—	—	—
24	18	11	7	—	—	—	25	21	4	—	—	—
23	9	4	5	—	—	—	12	9	3	—	—	—
22	10	10	—	—	—	—	25	13	12	—	—	—
21	9	8	1	—	—	—	19	16	3	—	—	—
20	14	14	—	—	—	—	15	10	5	—	—	—
19	11	11	—	—	—	—	10	3	7	—	—	—
18	12	9	1	1	1	—	14	7	5	1	1	—
DOMESTIC												
Total	1,446	—	30	853	451	112	1,450	—	32	842	451	125
39	3	—	3	—	—	—	—	—	—	—	—	—
38	4	—	4	—	—	—	1	—	1	—	—	—
37	5	—	5	—	—	—	7	—	7	—	—	—
36	—	—	—	—	—	—	1	—	1	—	—	—
35	1	—	1	—	—	—	3	—	3	—	—	—
33	—	—	—	—	—	—	2	—	2	—	—	—
30	1	—	1	—	—	—	2	—	2	—	—	—
29	2	—	2	—	—	—	2	—	2	—	—	—
28	1	—	1	—	—	—	—	—	—	—	—	—
27	1	—	1	—	—	—	1	—	1	—	—	—
26	1	—	—	—	—	1	1	—	—	—	—	1
25	—	—	—	—	—	—	1	—	1	—	—	—
22	1	—	1	—	—	—	1	—	1	—	—	—
21	5	—	—	—	—	5	4	—	—	—	—	4
20	19	—	—	15	—	4	15	—	—	14	—	1
19	5	—	—	2	—	3	6	—	—	2	—	4
18	1,397	—	11	836	451	99	1,403	—	11	826	451	115
Total trips:											3,505	

Trips and Drafts of Vessels, 2002
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

PETALUMA RIVER, CA

	Upbound						Downbound					
Grand Total	549	---	---	180	369	---	559	---	---	184	375	---
DOMESTIC												
Total	549	---	---	180	369	---	559	---	---	184	375	---
13	87	---	---	---	87	---	---	---	---	---	---	---
12	23	---	---	2	21	---	2	---	---	2	---	---
11	1	---	---	---	1	---	---	---	---	---	---	---
10	2	---	---	---	2	---	---	---	---	---	---	---
9	121	---	---	111	10	---	111	---	---	111	---	---
8	22	---	---	---	---	---	18	---	---	18	---	---
7	3	---	---	3	---	---	23	---	---	13	10	---
6	42	---	---	42	---	---	104	---	---	40	64	---
5	23	---	---	---	23	---	29	---	---	---	29	---
4	8	---	---	---	8	---	44	---	---	---	44	---
3	3	---	---	---	3	---	160	---	---	---	160	---
2	214	---	---	---	214	---	68	---	---	---	68	---
										Total trips:		1,108

HUMBOLDT HARBOR AND BAY, CA

	Inbound						Outbound					
Grand Total	241	31	---	105	69	36	223	31	---	101	66	25
FOREIGN												
Total	53	31	---	9	13	---	67	31	---	18	18	---
37	---	---	---	---	---	---	1	1	---	---	---	---
35	---	---	---	---	---	---	1	1	---	---	---	---
34	---	---	---	---	---	---	1	1	---	---	---	---
33	1	1	---	---	---	---	4	4	---	---	---	---
32	1	1	---	---	---	---	2	2	---	---	---	---
31	2	2	---	---	---	---	1	1	---	---	---	---
30	3	3	---	---	---	---	2	2	---	---	---	---
29	1	1	---	---	---	---	2	2	---	---	---	---
28	---	---	---	---	---	---	3	3	---	---	---	---
27	2	2	---	---	---	---	---	---	---	---	---	---
26	4	4	---	---	---	---	2	2	---	---	---	---
25	1	1	---	---	---	---	4	4	---	---	---	---
24	2	2	---	---	---	---	4	4	---	---	---	---
23	8	7	---	---	1	---	2	2	---	---	---	---
22	5	2	---	---	3	---	2	2	---	---	---	---
21	3	2	---	---	1	---	1	---	---	---	1	---
20	5	2	---	---	3	---	---	---	---	---	---	---
19	1	---	---	---	1	---	1	---	---	---	1	---
18	14	1	---	9	4	---	34	---	---	18	16	---
DOMESTIC												
Total	188	---	---	96	56	36	156	---	---	83	48	25
18	188	---	---	96	56	36	156	---	---	83	48	25
										Total trips:		464

BERKELEY, CA
No Vessel Trips Reported

BODEGA BAY, CA
No Vessel Trips Reported

CRESCENT CITY HARBOR, CA
No Vessel Trips Reported

Trips and Drafts of Vessels, 2002
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
MONTEREY HARBOR, CA No Vessel Trips Reported												
MOSS LANDING HARBOR, CA No Vessel Trips Reported												
NAPA RIVER, CA (15 feet and less)												
			Upbound						Downbound			
Grand Total	126	—	—	64	62	—	127	—	—	64	63	—
										Total trips:		253
NOYO RIVER, CA No Vessel Trips Reported												
PILLAR POINT HARBOR, CA No Vessel Trips Reported												
SAN RAFAEL CREEK, CA No Vessel Trips Reported												
SANTA CRUZ HARBOR, CA No Vessel Trips Reported												
SUISUN CHANNEL, CA No Vessel Trips Reported												
OTHER SAN FRANCISCO BAY AREA PORTS, CA (37 feet and less)												
			Inbound						Outbound			
Grand Total	24,878	21,423	7	1,978	1,153	317	24,830	21,451	9	1,890	1,163	317
										Total trips:		49,708

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	N	
NAPA RIVER, CA		25
NOYO RIVER, CA		25
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PETALUMA RIVER, CA		23
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SAN FRANCISCO BAY AND DELTA AREAS, CA, TOTAL WATERBORNE COMMERCE OF THE		1
SAN FRANCISCO BAY AREA PORTS, CA, OTHER		25
SAN FRANCISCO BAY ENTRANCE, CA		2
SAN FRANCISCO HARBOR, CA		5
SAN FRANCISCO, CA DISTRICT		1
SAN PABLO BAY AND MARE ISLAND STRAIT, CA		14
SAN RAFAEL CREEK, CA		25
SANTA CRUZ HARBOR, CA		25
SUISUN BAY CHANNEL, CA		20
SUISUN CHANNEL, CA		25
	T	
TOTAL WATERBORNE COMMERCE OF THE SAN FRANCISCO BAY AND DELTA AREAS, CA		1

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BERKELEY, CA		32
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	M	
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	N	
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SUISUN CHANNEL, CA		33

Port Facilities by Waterway

Waterway: **Carquinez Strait** Mile: PWD: 76
 Name: **Benicia Industries, Wharf No. 95.**
 Port: Carquinez Strait
 Location: Benicia, north side of Carquinez Strait; approximately 1,500 feet below Benicia-Martinez Bridge (Interst Datum: MLLW
 Operator: Benicia Industries, Inc.; Kinder Morgan Energy Partners LLC; and Huntway Refining Co.
 Owner: Benicia Industries, Inc.
 Address: Phone: 707-745-2394
 Town: Benicia State: CA County: Solano
 Railway Connection: Surface tracks serving terminal at rear connect with Union Pacific Railroad.
 Purpose: Receipt of automobiles and crude oil; receipt and shipment of general cargo; shipment of bagged rice, petroleum coke and petroleum products.
 Depth Alongside (feet): 38 | | Latitude (decimal): 38.041111
 Total Berthing Space (feet): 2,404 | | Longitude (decimal): -122.1347
 Remarks: Kinder Morgan Energy Partners LLC: Four concrete, coke storage silos with one interstitial bin are located at rear, total capacity 25,000 tons. □Huntway Refining Co. of Northern California: One 24-inch crude oil pipeline extends to wharf from 5 storage tanks at rear, total capacity 300,000 barrels; and one 8-inch products pipeline extends from 2 storage tanks at rear, total capacity 48,000 barrels. Terminal occupies approximately 250 acres of paved, fenced, and partially lighted property.
 Port Series: 31 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82323 San Francisco District

Waterway: **Carquinez Strait** Mile: PWD: 66
 Name: **California and Hawaiian Sugar Co., Berths 1 through 5.**
 Port: Carquinez Strait
 Location: South side, Carquinez Strait, Crockett, above Carquinez Bridges (Interstate Highway Datum: MLLW 80).
 Operator: California and Hawaiian Sugar Co.
 Owner: California and Hawaiian Sugar Co.
 Address: 830 Loring Avenue. Phone: 510-787-4336
 Town: Crockett State: CA County: Contra Costa
 Railway Connection: Tracks inside and along rear of plant buildings connect with Union Pacific Railroad.
 Purpose: Receipt of unrefined sugar and plant supplies; occasional shipment of packaged refined sugar.
 Depth Alongside (feet): 33 - 34 | - | - Latitude (decimal): 38.057222
 Total Berthing Space (feet): 2,815 | | Longitude (decimal): -122.2203
 Remarks: Wharf is occupied by a sugar refinery and warehouse buildings for storing packaged sugar. Nine steel storage tanks located in rear have total capacity for 112,000 tons of sugar.
 Port Series: 31 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82323 San Francisco District

Port Facilities by Waterway

Waterway: **Carquinez Strait** Mile: PWD: 78
 Name: **California Maritime Academy Wharf.**
 Port: Carquinez Strait
 Location: Vallejo, north side of Carquinez Strait, below Carquinez (Interstate Highway 80) Datum: MLLW
 Bridges.
 Operator: California Maritime Academy and U.S. Coast Guard.
 Owner: State of California.
 Address: 200 Maritime Academy Drive. Phone: 707-654-1127
 Town: Vallejo State: CA County: Solano
 Railway Connection: None.
 Purpose: Mooring Maritime Academy training vessels; mooring U.S. Coast Guard vessels.
 Depth Alongside (feet): 32 | 20 | 10 Latitude (decimal): 38.065833
 Total Berthing Space (feet): 460 | 240 | 100, Longitude (decimal): -122.2311
 Remarks: Training vessels 'TS Golden Bear,' 'MV Little Bear,' 'MV Black Bear,' and 'MV Cub,' moor at wharf.
 Small craft berth at various concrete floats at rear of face. U.S. Coast Guard Station Carquinez is
 located at rear.

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82323 San Francisco District

Waterway: **Carquinez Strait** Mile: PWD: 77
 Name: **City of Benecia Dock.**
 Port: Carquinez Strait
 Location: Benecia, north side of Carquinez Strait; Approximately 1.5 miles below Benecia- Datum: MLLW
 Martinez Bridge, foot of
 Operator: City of Benecia.
 Owner: City of Benecia.
 Address: Phone: 707-746-4240
 Town: Benecia State: CA County: Solano
 Railway Connection: None.
 Purpose: Mooring vessels.
 Depth Alongside (feet): 8 | | Latitude (decimal): 38.042222
 Total Berthing Space (feet): 180 | | Longitude (decimal): -122.1533
 Remarks: At time of survey (2000) dock was used by FCI Constructors Interbeton, Inc., A Joint Venture as a
 mobilization site. □

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82323 San Francisco District

Port Facilities by Waterway

Waterway: **Carquinez Strait** Mile: PWD: 67
 Name: **Defense Fuel Supply Center, Ozol Wharf.**
 Port: Carquinez Strait
 Location: South side, Carquinez Strait, Ozol, approximately 2.3 miles below Benicia-Martinez Datum: MLLW
 (Interstate Highway 6)
 Operator: Not operated.
 Owner: U.S. Government.
 Address: Phone: 925-250-8651
 Town: Ozol State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Not used.
 Depth Alongside (feet): 40 | | Latitude (decimal): 38.028611
 Total Berthing Space (feet): 880 | | Longitude (decimal): -122.1611
 Remarks: Two 20-inch pipelines extending from wharf to 12 underground, steel storage tanks, total capacity
 1,000,000 barrels were not in use at time of survey (2000). Storage tanks also connect with interstate
 pipeline system operated by Kinder Morgan Energy Partners LLC.
 Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82323 San Francisco District

Waterway: **Carquinez Strait** Mile: PWD: 75
 Name: **ExxonMobil Corp., Benicia Refinery Wharf.**
 Port: Carquinez Strait
 Location: Benicia, north side of Carquinez Strait, below Benicia-Martinez (Interstate Highway Datum: MLLW
 680) Bridge.
 Operator: ExxonMobil Corp.
 Owner: ExxonMobil Corp.
 Address: 3400 East Second Street. Phone: 707-745-7568
 Town: Benicia State: CA County: Solano
 Railway Connection: Trackage serving refinery in rear connects with Union Pacific Railroad.
 Purpose: Receipt and shipment of petroleum products, receipt of crude oil.
 Depth Alongside (feet): 32 | | Latitude (decimal): 38.044722
 Total Berthing Space (feet): 1,100 | | Longitude (decimal): -122.1292
 Remarks: Prefabricated metal building on wharf contains technicians' shelter and 5,000 foot, floating, oil spill
 containment boom, and recovery equipment. Three 16-inch crude oil pipelines becoming one 36-inch
 pipeline, extend to 6 steel storage tanks at rear, total capacity 2,280,000 barrels; four 12-inch product
 pipelines extend to 15 steel storage tanks at rear, total capacity approximately 1,500,000 barrels.
 Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82323 San Francisco District

Port Facilities by Waterway

Waterway: **Carquinez Strait** Mile: PWD: 68
 Name: **Martinez Marina Municipal Pier.**
 Port: Carquinez Strait
 Location: Martinez, foot of N. Court Street, approximately 1.3 miles below Benicia-Martinez Datum: MLLW
 (Interstate Highway 68)
 Operator: City of Martinez.
 Owner: City of Martinez.
 Address: 7 North Court Street. Phone: 925-313-0942
 Town: Martinez State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Mooring fishing boats and miscellaneous floating equipment; fueling small vessels.
 Depth Alongside (feet): 20 - 25 | 5 - 20 | Latitude (decimal): 38.0275
 Total Berthing Space (feet): 520 | | Longitude (decimal): -122.1394
 Remarks: City of Martinez Marina, which has 423 berths, is located adjacent to and east of pier. Berths consist of plastic foam-filled floats. Oil spill and patrol cleanup vessels are moored in marina. One 20-ton, gasoline travel lift capable of handling 60- by 15-foot boats, travels on 80-foot, timber pile, steel-decked, runways at marina in rear. Metered pumps on wharf are supplied by one 10,000-gallon, diesel fuel, and one 10,000-gallon, gasoline storage tanks.

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82323 San Francisco District

Waterway: **Carquinez Strait** Mile: PWD: 69
 Name: **Martinez Refining Co., Martinez Refinery Wharf.**
 Port: Carquinez Strait
 Location: Martinez, approximately 0.6 mile below Benicia-Martinez (Interstate Highway 680) Datum: MLLW
 Bridge.
 Operator: Martinez Refining Co.
 Owner: Martinez Refining Co., A Division of Equilon Enterprises LLC.
 Address: 1800 Marina Vista Drive Phone: 925-313-5204
 Town: Martinez State: CA County: Contra Costa
 Railway Connection: Trackage serving refinery in rear connects with Union Pacific Railroad.
 Purpose: Receipt and shipment of crude oil and petroleum products.
 Depth Alongside (feet): 45 - ea | | 20 - ea Latitude (decimal): 38.031389
 Total Berthing Space (feet): 682* | | 442w/ Longitude (decimal): -122.1317
 Remarks: One 24-, one 14-, two 12-, two 8-, eight 6-, and one 4-inch pipelines extend from wharf to 66 steel storage tanks located at refinery in rear, total capacity 5,316,000 barrels. Wharf is also served by one 12-inch raw water line, one 10-inch line extends to one 75,000-barrel slop tank; one 3-inch steam line, and one 1 1/2-inch air line. Wharf is equipped with two 1,000 foot oil spill containment booms at each end, and concrete containment basins.

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82323 San Francisco District

Port Facilities by Waterway

Waterway: **Carquinez Strait** Mile: PWD: 72
Name: **Shore Terminals, Martinez Wharf.**
Port: Carquinez Strait
Location: South side of Suisun Bay, approximately 1.2 miles above Union Pacific Railroad Datum: MLLW
Operator: Shore Terminals, LLC.
Owner: Shore Terminals, LLC.
Address: 2801 Waterfront Road. Phone: 925-228-3227
Town: Martinez State: CA County: Contra Costa
Railway Connection: None.
Purpose: Receipt and shipment of crude oil and petroleum products.
Depth Alongside (feet): 40 | | Latitude (decimal): 38.045556
Total Berthing Space (feet): 1,000 | | Longitude (decimal): -122.1011
Remarks: Two 16-inch unloading arms can be used for crude oil, or one 16- and one 10-inch loading arms for product via manifold. Two 12-inch pipelines extend from wharf to 11 storage tanks in rear, total capacity 800,000 barrels, including two 175,000 barrel, insulated tanks convertible to crude oil. One 2-inch slop line from catch basin on wharf extends to two 10,000-barrel slop tanks. One 30-, and one 12-inch, insulated pipelines extend to wharf from 4 crude oil/aviation fuel storage tanks at rear, total capacity 2,000,000 barrels. A vapor recovery system to control vessel loading emissions is installed. One 6-inch pipeline extends to Tosco Refining Co., San Francisco Area Refinery at Avon (Ref. Nos. 73 and 74), one 20-/16-inch crude oil pipeline extends to ExxonMobil Corp., Benicia Refinery (Ref. No. 75) across the strait. Storage tanks also connect with pipelines operated by Kinder Morgan Energy Partners LLC. An automated, 1,500 foot floating, oil spill containment boom is maintained on wharf.

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 81050 San Francisco District

Port Facilities by Waterway

Waterway: **Carquinez Strait** Mile: PWD: 64
 Name: **Shore Terminals, Selby Marine Terminal, Small Craft Wharf.**
 Port: Carquinez Strait
 Location: South side, Carquinez Strait, Selby, 0.1 mile above Davis Point. Datum: MLLW
 Operator: Shore Terminals LLC.
 Owner: Shore Terminals LLC.
 Address: 90 San Pablo Avenue. Phone: 510-787-1076
 Town: Selby State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Mooring tugs and small craft.
 Depth Alongside (feet): 13 - 30 | | Latitude (decimal): 38.058056
 Total Berthing Space (feet): 545 | | Longitude (decimal): -122.245

Waterway: **Carquinez Strait** Mile: PWD: 64
 Name: **Shore Terminals, Selby Marine Terminal, Small Craft Wharf.**
 Port: Carquinez Strait
 Location: South side, Carquinez Strait, Selby, 0.1 mile above Davis Point. Datum: MLLW
 Operator: Shore Terminals LLC.
 Owner: Shore Terminals LLC.
 Address: 90 San Pablo Avenue. Phone: 510-787-1076
 Town: Selby State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Mooring tugs and small craft.
 Depth Alongside (feet): 13 - 30 | | Latitude (decimal): 38.058056
 Total Berthing Space (feet): 545 | | Longitude (decimal): -122.245
 Remarks: -□□

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82323 San Francisco District

Remarks: -□□

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82323 San Francisco District

Port Facilities by Waterway

Waterway: **Carquinez Strait** Mile: PWD: 64
 Name: **Shore Terminals, Selby Marine Terminal, Small Craft Wharf.**
 Port: Carquinez Strait
 Location: South side, Carquinez Strait, Selby, 0.1 mile above Davis Point. Datum: MLLW
 Operator: Shore Terminals LLC.
 Owner: Shore Terminals LLC.
 Address: 90 San Pablo Avenue. Phone: 510-787-1076
 Town: Selby State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Mooring tugs and small craft.
 Depth Alongside (feet): 13 - 30 | Latitude (decimal): 38.058056
 Total Berthing Space (feet): 545 | Longitude (decimal): -122.245
 Waterway: **Carquinez Strait** Mile: PWD: 64

Name: **Shore Terminals, Selby Marine Terminal, Small Craft Wharf.**
 Port: Carquinez Strait
 Location: South side, Carquinez Strait, Selby, 0.1 mile above Davis Point. Datum: MLLW
 Operator: Shore Terminals LLC.
 Owner: Shore Terminals LLC.
 Address: 90 San Pablo Avenue. Phone: 510-787-1076
 Town: Selby State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Mooring tugs and small craft.
 Depth Alongside (feet): 13 - 30 | Latitude (decimal): 38.058056
 Total Berthing Space (feet): 545 | Longitude (decimal): -122.245
 Remarks: -□□

Port Series: 31 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82323 San Francisco District

Remarks: -□□

Port Series: 31 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82323 San Francisco District

Port Facilities by Waterway

Waterway: **Carquinez Strait** Mile: PWD: 65
 Name: **Shore Terminals, Selby Marine Terminal, Tanker Wharf.**
 Port: Carquinez Strait
 Location: South side, Carquinez Strait, Selby, 1.2 miles above Davis Point. Datum: MLLW
 Operator: Shore Terminals LLC.
 Owner: Shore Terminals LLC.
 Address: 90 San Pablo Avenue. Phone: 510-787-1076
 Town: Selby State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Receipt and shipment of petroleum products.
 Depth Alongside (feet): 40 - 45 | | Latitude (decimal): 38.059167
 Total Berthing Space (feet): 850 | | Longitude (decimal): -122.2411
 Waterway: **Carquinez Strait** Mile: PWD: 65
 Name: **Shore Terminals, Selby Marine Terminal, Tanker Wharf.**
 Port: Carquinez Strait
 Location: South side, Carquinez Strait, Selby, 1.2 miles above Davis Point. Datum: MLLW
 Operator: Shore Terminals LLC.
 Owner: Shore Terminals LLC.
 Address: 90 San Pablo Avenue. Phone: 510-787-1076
 Town: Selby State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Receipt and shipment of petroleum products.
 Depth Alongside (feet): 40 - 45 | | Latitude (decimal): 38.059167
 Total Berthing Space (feet): 850 | | Longitude (decimal): -122.2411
 Remarks: Four 12-inch pipelines extend from wharf to 22 storage tanks located at rear, total capacity 3,000,000 barrels. Tankage connects with Kinder Morgan Energy Partners LLC interstate pipeline system.
 Port Series: 31 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82323 San Francisco District

Remarks: Four 12-inch pipelines extend from wharf to 22 storage tanks located at rear, total capacity 3,000,000 barrels. Tankage connects with Kinder Morgan Energy Partners LLC interstate pipeline system.
 Port Series: 31 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82323 San Francisco District

Port Facilities by Waterway

Waterway: **Carquinez Strait** Mile: PWD: 65
 Name: **Shore Terminals, Selby Marine Terminal, Tanker Wharf.**
 Port: Carquinez Strait
 Location: South side, Carquinez Strait, Selby, 1.2 miles above Davis Point. Datum: MLLW
 Operator: Shore Terminals LLC.
 Owner: Shore Terminals LLC.
 Address: 90 San Pablo Avenue. Phone: 510-787-1076
 Town: Selby State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Receipt and shipment of petroleum products.
 Depth Alongside (feet): 40 - 45 | | Latitude (decimal): 38.059167
 Total Berthing Space (feet): 850 | | Longitude (decimal): -122.2411
 Waterway: **Carquinez Strait** Mile: PWD: 65
 Name: **Shore Terminals, Selby Marine Terminal, Tanker Wharf.**
 Port: Carquinez Strait
 Location: South side, Carquinez Strait, Selby, 1.2 miles above Davis Point. Datum: MLLW
 Operator: Shore Terminals LLC.
 Owner: Shore Terminals LLC.
 Address: 90 San Pablo Avenue. Phone: 510-787-1076
 Town: Selby State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Receipt and shipment of petroleum products.
 Depth Alongside (feet): 40 - 45 | | Latitude (decimal): 38.059167
 Total Berthing Space (feet): 850 | | Longitude (decimal): -122.2411
 Remarks: Four 12-inch pipelines extend from wharf to 22 storage tanks located at rear, total capacity 3,000,000 barrels. Tankage connects with Kinder Morgan Energy Partners LLC interstate pipeline system.
 Port Series: 31 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82323 San Francisco District

Remarks: Four 12-inch pipelines extend from wharf to 22 storage tanks located at rear, total capacity 3,000,000 barrels. Tankage connects with Kinder Morgan Energy Partners LLC interstate pipeline system.
 Port Series: 31 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82323 San Francisco District

Port Facilities by Waterway

Waterway: **Carquinez Strait** Mile: PWD: 70
 Name: **Tosco Refining Co., San Francisco Area Refinery at Avon, Amorco Lo**
 Port: Carquinez Strait
 Location: Martinez, south side of Carquinez Strait, approximately 1,500 feet below Benicia- Datum: MLLW
 Martinez (Interstate Hi
 Operator: Not operated.
 Owner: Tosco Refining Co., A Division of Tosco Corp.
 Address: 150 Solano Way. Phone: 925-376-3138/31
 Town: Martinez State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Not used.

Depth Alongside (feet): 40 | | Latitude (decimal): 38.035
 Total Berthing Space (feet): 982 | | Longitude (decimal): -122.1239

Waterway: **Carquinez Strait** Mile: PWD: 70
 Name: **Tosco Refining Co., San Francisco Area Refinery at Avon, Amorco Lo**
 Port: Carquinez Strait
 Location: Martinez, south side of Carquinez Strait, approximately 1,500 feet below Benicia- Datum: MLLW
 Martinez (Interstate Hi
 Operator: Not operated.
 Owner: Tosco Refining Co., A Division of Tosco Corp.
 Address: 150 Solano Way. Phone: 925-376-3138/31
 Town: Martinez State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Not used.

Depth Alongside (feet): 40 | | Latitude (decimal): 38.035
 Total Berthing Space (feet): 982 | | Longitude (decimal): -122.1239

Remarks: Face of wharf and breasting dolphins are in line with adjacent wharf (Ref. No. 71) providing 982 feet of continuous berthing space. Two 12-, two 10-, two 8-, and two 6-inch pipelines extending from wharf to crude oil and petroleum product storage tanks described under Ref. No. 71 were not in use at time of survey (2000). Tanks are connected by pipeline with Tosco Refining Co., San Francisco Area Refinery at Avon, located approximately 1.75 miles eastward.

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82323 San Francisco District

Remarks: Face of wharf and breasting dolphins are in line with adjacent wharf (Ref. No. 71) providing 982 feet of continuous berthing space. Two 12-, two 10-, two 8-, and two 6-inch pipelines extending from wharf to crude oil and petroleum product storage tanks described under Ref. No. 71 were not in use at time of survey (2000). Tanks are connected by pipeline with Tosco Refining Co., San Francisco Area Refinery at Avon, located approximately 1.75 miles eastward.

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82323 San Francisco District

Port Facilities by Waterway

Waterway: **Carquinez Strait** Mile: PWD: 70
 Name: **Tosco Refining Co., San Francisco Area Refinery at Avon, Amorco Lo**
 Port: Carquinez Strait
 Location: Martinez, south side of Carquinez Strait, approximately 1,500 feet below Benicia- Datum: MLLW
 Martinez (Interstate Hi
 Operator: Not operated.
 Owner: Tosco Refining Co., A Division of Tosco Corp.
 Address: 150 Solano Way. Phone: 925-376-3138/31
 Town: Martinez State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Not used.
 Depth Alongside (feet): 40 | | Latitude (decimal): 38.035
 Total Berthing Space (feet): 982 | | Longitude (decimal): -122.1239

Waterway: **Carquinez Strait** Mile: PWD: 70
 Name: **Tosco Refining Co., San Francisco Area Refinery at Avon, Amorco Lo**
 Port: Carquinez Strait
 Location: Martinez, south side of Carquinez Strait, approximately 1,500 feet below Benicia- Datum: MLLW
 Martinez (Interstate Hi
 Operator: Not operated.
 Owner: Tosco Refining Co., A Division of Tosco Corp.
 Address: 150 Solano Way. Phone: 925-376-3138/31
 Town: Martinez State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Not used.
 Depth Alongside (feet): 40 | | Latitude (decimal): 38.035
 Total Berthing Space (feet): 982 | | Longitude (decimal): -122.1239

Remarks: Face of wharf and breasting dolphins are in line with adjacent wharf (Ref. No. 71) providing 982 feet of continuous berthing space. Two 12-, two 10-, two 8-, and two 6-inch pipelines extending from wharf to crude oil and petroleum product storage tanks described under Ref. No. 71 were not in use at time of survey (2000). Tanks are connected by pipeline with Tosco Refining Co., San Francisco Area Refinery at Avon, located approximately 1.75 miles eastward.

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82323 San Francisco District

Remarks: Face of wharf and breasting dolphins are in line with adjacent wharf (Ref. No. 71) providing 982 feet of continuous berthing space. Two 12-, two 10-, two 8-, and two 6-inch pipelines extending from wharf to crude oil and petroleum product storage tanks described under Ref. No. 71 were not in use at time of survey (2000). Tanks are connected by pipeline with Tosco Refining Co., San Francisco Area Refinery at Avon, located approximately 1.75 miles eastward.

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82323 San Francisco District

Port Facilities by Waterway

Waterway: **Carquinez Strait** Mile: PWD: 71
 Name: **Tosco Refining Co., San Francisco Area Refinery at Avon, Amorco Up**
 Port: Carquinez Strait
 Location: Martinez, south side of Carquinez Strait, approximately 1,000 feet below Benicia- Datum: MLLW
 Martinez (Interstate Hi
 Operator: Tosco Refining Co.
 Owner: Tosco Refining Co., A Division of Tosco Corp.
 Address: 150 Solano Way. Phone: 925-376-3138/31
 Town: Martinez State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Receipt of crude oil; shipment of petroleum products.

Depth Alongside (feet): 40 | | Latitude (decimal): 38.035556
 Total Berthing Space (feet): 982 | | Longitude (decimal): -122.1233

Waterway: **Carquinez Strait** Mile: PWD: 71
 Name: **Tosco Refining Co., San Francisco Area Refinery at Avon, Amorco Up**
 Port: Carquinez Strait
 Location: Martinez, south side of Carquinez Strait, approximately 1,000 feet below Benicia- Datum: MLLW
 Martinez (Interstate Hi
 Operator: Tosco Refining Co.
 Owner: Tosco Refining Co., A Division of Tosco Corp.
 Address: 150 Solano Way. Phone: 925-376-3138/31
 Town: Martinez State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Receipt of crude oil; shipment of petroleum products.

Depth Alongside (feet): 40 | | Latitude (decimal): 38.035556
 Total Berthing Space (feet): 982 | | Longitude (decimal): -122.1233

Remarks: Breasting dolphins are connected by catwalks extending from sides of wharf. Face of wharf and breasting dolphins are in line with adjacent lower wharf and breasting dolphins (Ref. No. 70) providing 982 feet of continuous berthing space. One 20-inch crude oil pipeline extends from wharf to 6 steel, crude oil storage tanks in rear, total capacity 460,000 barrels; two 12-, two 10-, three 8-, and three 6-inch product pipelines extend from wharf to 13 petroleumproducts storage tanks, total capacity 579,000 barrels.

Port Series: 31 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82323 San Francisco District

Remarks: Breasting dolphins are connected by catwalks extending from sides of wharf. Face of wharf and breasting dolphins are in line with adjacent lower wharf and breasting dolphins (Ref. No. 70) providing 982 feet of continuous berthing space. One 20-inch crude oil pipeline extends from wharf to 6 steel, crude oil storage tanks in rear, total capacity 460,000 barrels; two 12-, two 10-, three 8-, and three 6-inch product pipelines extend from wharf to 13 petroleumproducts storage tanks, total capacity 579,000 barrels.

Port Series: 31 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82323 San Francisco District

Port Facilities by Waterway

Waterway: **Carquinez Strait** Mile: PWD: 71
 Name: **Tosco Refining Co., San Francisco Area Refinery at Avon, Amorco Up**
 Port: Carquinez Strait
 Location: Martinez, south side of Carquinez Strait, approximately 1,000 feet below Benicia- Datum: MLLW
 Martinez (Interstate Hi
 Operator: Tosco Refining Co.
 Owner: Tosco Refining Co., A Division of Tosco Corp.
 Address: 150 Solano Way. Phone: 925-376-3138/31
 Town: Martinez State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Receipt of crude oil; shipment of petroleum products.

Depth Alongside (feet): 40 | | Latitude (decimal): 38.035556
 Total Berthing Space (feet): 982 | | Longitude (decimal): -122.1233

Waterway: **Carquinez Strait** Mile: PWD: 71
 Name: **Tosco Refining Co., San Francisco Area Refinery at Avon, Amorco Up**
 Port: Carquinez Strait
 Location: Martinez, south side of Carquinez Strait, approximately 1,000 feet below Benicia- Datum: MLLW
 Martinez (Interstate Hi
 Operator: Tosco Refining Co.
 Owner: Tosco Refining Co., A Division of Tosco Corp.
 Address: 150 Solano Way. Phone: 925-376-3138/31
 Town: Martinez State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Receipt of crude oil; shipment of petroleum products.

Depth Alongside (feet): 40 | | Latitude (decimal): 38.035556
 Total Berthing Space (feet): 982 | | Longitude (decimal): -122.1233

Remarks: Breasting dolphins are connected by catwalks extending from sides of wharf. Face of wharf and breasting dolphins are in line with adjacent lower wharf and breasting dolphins (Ref. No. 70) providing 982 feet of continuous berthing space. One 20-inch crude oil pipeline extends from wharf to 6 steel, crude oil storage tanks in rear, total capacity 460,000 barrels; two 12-, two 10-, three 8-, and three 6-inch product pipelines extend from wharf to 13 petroleumproducts storage tanks, total capacity 579,000 barrels.

Port Series: 31 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82323 San Francisco District

Remarks: Breasting dolphins are connected by catwalks extending from sides of wharf. Face of wharf and breasting dolphins are in line with adjacent lower wharf and breasting dolphins (Ref. No. 70) providing 982 feet of continuous berthing space. One 20-inch crude oil pipeline extends from wharf to 6 steel, crude oil storage tanks in rear, total capacity 460,000 barrels; two 12-, two 10-, three 8-, and three 6-inch product pipelines extend from wharf to 13 petroleumproducts storage tanks, total capacity 579,000 barrels.

Port Series: 31 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82323 San Francisco District

Port Facilities by Waterway

Waterway: **Carquinez Strait** Mile: PWD: 74
 Name: **Tosco Refining Co., San Francisco Area Refinery at Avon, Barge Wha**
 Port: Carquinez Strait
 Location: Avon, south side of Suisun Bay, approximately 1.6 miles above Union Pacific Railroad Bridge. Datum: MLLW
 Operator: Tosco Refining Co.
 Owner: Tosco Refining Co., A Division of Tosco Corp.
 Address: 150 Solano Way. Phone: 925-376-3138/31
 Town: Avon State: CA County: Contra Costa
 Railway Connection: Trackage serving tank car loading racks, warehouses, and drumming plant at refinery in rear connect with Burlington Northern Santa Fe Railway and Union Pacific Railroad.

Purpose: Shipment of petroleum products by barge.
 Depth Alongside (feet): 18 | | Latitude (decimal): 38.048333
 Total Berthing Space (feet): 350 | | Longitude (decimal): -122.0922
 Waterway: **Carquinez Strait** Mile: PWD: 74

Name: **Tosco Refining Co., San Francisco Area Refinery at Avon, Barge Wha**
 Port: Carquinez Strait
 Location: Avon, south side of Suisun Bay, approximately 1.6 miles above Union Pacific Railroad Bridge. Datum: MLLW
 Operator: Tosco Refining Co.
 Owner: Tosco Refining Co., A Division of Tosco Corp.
 Address: 150 Solano Way. Phone: 925-376-3138/31
 Town: Avon State: CA County: Contra Costa
 Railway Connection: Trackage serving tank car loading racks, warehouses, and drumming plant at refinery in rear connect with Burlington Northern Santa Fe Railway and Union Pacific Railroad.

Purpose: Shipment of petroleum products by barge.
 Depth Alongside (feet): 18 | | Latitude (decimal): 38.048333
 Total Berthing Space (feet): 350 | | Longitude (decimal): -122.0922

Remarks: Berth is located at rear of Tanker Wharf (Ref. No. 73). Pipelines and tankage are described under Ref. No. 73. Refinery tankage also connects with pipelines operated by Kinder Morgan Energy Partners LLP.

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 81050 San Francisco District

Remarks: Berth is located at rear of Tanker Wharf (Ref. No. 73). Pipelines and tankage are described under Ref. No. 73. Refinery tankage also connects with pipelines operated by Kinder Morgan Energy Partners LLP.

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 81050 San Francisco District

Port Facilities by Waterway

Waterway: **Carquinez Strait** Mile: PWD: 74
 Name: **Tosco Refining Co., San Francisco Area Refinery at Avon, Barge Wha**
 Port: Carquinez Strait
 Location: Avon, south side of Suisun Bay, approximately 1.6 miles above Union Pacific Railroad Bridge. Datum: MLLW
 Operator: Tosco Refining Co.
 Owner: Tosco Refining Co., A Division of Tosco Corp.
 Address: 150 Solano Way. Phone: 925-376-3138/31
 Town: Avon State: CA County: Contra Costa
 Railway Connection: Trackage serving tank car loading racks, warehouses, and drumming plant at refinery in rear connect with Burlington Northern Santa Fe Railway and Union Pacific Railroad.
 Purpose: Shipment of petroleum products by barge.
 Depth Alongside (feet): 18 | | Latitude (decimal): 38.048333
 Total Berthing Space (feet): 350 | | Longitude (decimal): -122.0922
 Waterway: **Carquinez Strait** Mile: PWD: 74

Name: **Tosco Refining Co., San Francisco Area Refinery at Avon, Barge Wha**
 Port: Carquinez Strait
 Location: Avon, south side of Suisun Bay, approximately 1.6 miles above Union Pacific Railroad Bridge. Datum: MLLW
 Operator: Tosco Refining Co.
 Owner: Tosco Refining Co., A Division of Tosco Corp.
 Address: 150 Solano Way. Phone: 925-376-3138/31
 Town: Avon State: CA County: Contra Costa
 Railway Connection: Trackage serving tank car loading racks, warehouses, and drumming plant at refinery in rear connect with Burlington Northern Santa Fe Railway and Union Pacific Railroad.
 Purpose: Shipment of petroleum products by barge.
 Depth Alongside (feet): 18 | | Latitude (decimal): 38.048333
 Total Berthing Space (feet): 350 | | Longitude (decimal): -122.0922
 Remarks: Berth is located at rear of Tanker Wharf (Ref. No. 73). Pipelines and tankage are described under Ref. No. 73. Refinery tankage also connects with pipelines operated by Kinder Morgan Energy Partners LLP.

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 81050 San Francisco District

Remarks: Berth is located at rear of Tanker Wharf (Ref. No. 73). Pipelines and tankage are described under Ref. No. 73. Refinery tankage also connects with pipelines operated by Kinder Morgan Energy Partners LLP.

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 81050 San Francisco District

Port Facilities by Waterway

Waterway: **Carquinez Strait** Mile: PWD: 73
 Name: **Tosco Refining Co., San Francisco Area Refinery at Avon, Tanker Wh**
 Port: Carquinez Strait
 Location: Avon, south side of Suisun Bay, approximately 1.6 miles above Union Pacific Railroad Bridge. Datum: MLLW
 Operator: Tosco Refining Co.
 Owner: Tosco Refining Co., A Division of Tosco Corp.
 Address: 150 Solano Way. Phone: 925-376-3138/31
 Town: Avon State: CA County: Contra Costa
 Railway Connection: Trackage serving tank car loading racks, warehouses, and drumming plant at refinery in rear connect with Burlington Northern Santa Fe Railway and Union Pacific Railroad.
 Purpose: Occasional receipt of crude oil; receipt and shipment of petroleum products by tanker and barge.
 Depth Alongside (feet): 40 | 40 | 40 Latitude (decimal): 38.048611
 Total Berthing Space (feet): 1,505 | | Longitude (decimal): -122.0922
 Waterway: **Carquinez Strait** Mile: PWD: 73

Name: **Tosco Refining Co., San Francisco Area Refinery at Avon, Tanker Wh**
 Port: Carquinez Strait
 Location: Avon, south side of Suisun Bay, approximately 1.6 miles above Union Pacific Railroad Bridge. Datum: MLLW
 Operator: Tosco Refining Co.
 Owner: Tosco Refining Co., A Division of Tosco Corp.
 Address: 150 Solano Way. Phone: 925-376-3138/31
 Town: Avon State: CA County: Contra Costa
 Railway Connection: Trackage serving tank car loading racks, warehouses, and drumming plant at refinery in rear connect with Burlington Northern Santa Fe Railway and Union Pacific Railroad.
 Purpose: Occasional receipt of crude oil; receipt and shipment of petroleum products by tanker and barge.
 Depth Alongside (feet): 40 | 40 | 40 Latitude (decimal): 38.048611
 Total Berthing Space (feet): 1,505 | | Longitude (decimal): -122.0922
 Remarks: Lower and center sections of wharf are connected by a 100-foot walkway. One 20-inch crude oil pipeline, and two 12-, one 10-, three 8-, five 6-, and one 16-inch product pipelines extend from wharf to 29 steel storage tanks at rear, total capacity 1,000,000 barrels. An additional 81 storage tanks are located on opposite side of Waterfront Road, total capacity 6,700,000 barrels. Wharf is also served by one 10-inch fire water, and one 2-inch compressed air lines.

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 81050 San Francisco District

Remarks: Lower and center sections of wharf are connected by a 100-foot walkway. One 20-inch crude oil pipeline, and two 12-, one 10-, three 8-, five 6-, and one 16-inch product pipelines extend from wharf to 29 steel storage tanks at rear, total capacity 1,000,000 barrels. An additional 81 storage tanks are located on opposite side of Waterfront Road, total capacity 6,700,000 barrels. Wharf is also served by one 10-inch fire water, and one 2-inch compressed air lines.

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 81050 San Francisco District

Port Facilities by Waterway

Waterway: **Carquinez Strait** Mile: PWD: 73
 Name: **Tosco Refining Co., San Francisco Area Refinery at Avon, Tanker Wh**
 Port: Carquinez Strait
 Location: Avon, south side of Suisun Bay, approximately 1.6 miles above Union Pacific Railroad Bridge. Datum: MLLW
 Operator: Tosco Refining Co.
 Owner: Tosco Refining Co., A Division of Tosco Corp.
 Address: 150 Solano Way. Phone: 925-376-3138/31
 Town: Avon State: CA County: Contra Costa
 Railway Connection: Trackage serving tank car loading racks, warehouses, and drumming plant at refinery in rear connect with Burlington Northern Santa Fe Railway and Union Pacific Railroad.
 Purpose: Occasional receipt of crude oil; receipt and shipment of petroleum products by tanker and barge.
 Depth Alongside (feet): 40 | 40 | 40 Latitude (decimal): 38.048611
 Total Berthing Space (feet): 1,505 | | Longitude (decimal): -122.0922
 Waterway: **Carquinez Strait** Mile: PWD: 73
 Name: **Tosco Refining Co., San Francisco Area Refinery at Avon, Tanker Wh**
 Port: Carquinez Strait
 Location: Avon, south side of Suisun Bay, approximately 1.6 miles above Union Pacific Railroad Bridge. Datum: MLLW
 Operator: Tosco Refining Co.
 Owner: Tosco Refining Co., A Division of Tosco Corp.
 Address: 150 Solano Way. Phone: 925-376-3138/31
 Town: Avon State: CA County: Contra Costa
 Railway Connection: Trackage serving tank car loading racks, warehouses, and drumming plant at refinery in rear connect with Burlington Northern Santa Fe Railway and Union Pacific Railroad.
 Purpose: Occasional receipt of crude oil; receipt and shipment of petroleum products by tanker and barge.
 Depth Alongside (feet): 40 | 40 | 40 Latitude (decimal): 38.048611
 Total Berthing Space (feet): 1,505 | | Longitude (decimal): -122.0922
 Remarks: Lower and center sections of wharf are connected by a 100-foot walkway. One 20-inch crude oil pipeline, and two 12-, one 10-, three 8-, five 6-, and one 16-inch product pipelines extend from wharf to 29 steel storage tanks at rear, total capacity 1,000,000 barrels. An additional 81 storage tanks are located on opposite side of Waterfront Road, total capacity 6,700,000 barrels. Wharf is also served by one 10-inch fire water, and one 2-inch compressed air lines.
 Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 81050 San Francisco District

Remarks: Lower and center sections of wharf are connected by a 100-foot walkway. One 20-inch crude oil pipeline, and two 12-, one 10-, three 8-, five 6-, and one 16-inch product pipelines extend from wharf to 29 steel storage tanks at rear, total capacity 1,000,000 barrels. An additional 81 storage tanks are located on opposite side of Waterfront Road, total capacity 6,700,000 barrels. Wharf is also served by one 10-inch fire water, and one 2-inch compressed air lines.
 Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 81050 San Francisco District

Port Facilities by Waterway

Waterway: **Carquinez Strait** Mile: PWD: 63
 Name: **Tosco Refining Co., San Francisco Area Refinery at Rodeo Wharf.**
 Port: Carquinez Strait
 Location: South side, Carquinez Strait, Oleum, outer end of Davis Point. Datum: MLLW
 Operator: Tosco Refining Co.
 Owner: Tosco Refining Co., A Division of Tosco Corp.
 Address: 1380 San Pablo Avenue. Phone: 510-245-4498
 Town: Oleum State: CA County: Contra Costa
 Railway Connection: One surface track serves car loading rack at refinery in rear; connects with Union Pacific Railroad.
 Purpose: Receipt and shipment of crude oil and petroleum products; occasional bunkering vessels.
 Depth Alongside (feet): 38 - 40 | 20 | Latitude (decimal): 38.056667
 Total Berthing Space (feet): 1,375 | 622 | Longitude (decimal): -122.2617
 Remarks: Two 16-inch crude pipelines, four 12-, three 10-, five 8-, and five 6-inch petroleum product pipelines extend from wharf to 45 storage tanks located at refinery in rear; total capacity 1,000,000 barrels of crude oil; 2,867,000 barrels of petroleum products. Crude oil is also received at refinery by pipeline from California oil fields. Refinery tankage connects via interstate pipeline system owned by Kinder Morgan Energy Partners LLC, and also connects via pipeline with company-owned tanks located at Richmond, California Terminal (See Ref. Nos. 49 and 50 in the Richmond section of this report), and company-owned Santa Maria Refinery at Avila, California. One 2,500-foot, floating, oil spill containment boom located at each end of wharf.

Port Series: 31 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82310 San Francisco District

Waterway: **Eureka Channel** Mile: PWD: 67
 Name: **City of Eureka Commercial Street Wharf.**
 Port: Humboldt Bay
 Location: Humboldt Bay, left bank, Eureka Channel Inner Reach, foot of Commercial Street Datum: MLLW
 extended.
 Operator: Englund Marine and Pacific Choice Seafoods Co.
 Owner: City of Eureka.
 Address: 1-2 Commercial Street. Phone: 707-442-2981
 Town: Eureka State: CA County: Humboldt
 Railway Connection: None.
 Purpose: Fueling and mooring fishing boats; and receipt of seafood.
 Depth Alongside (feet): 20 - 26 | | Latitude (decimal): 40.805
 Total Berthing Space (feet): 660 | | Longitude (decimal): -124.1733
 Remarks: Buildings on wharf serve as seafood handling and processing plants and marine supply offices. One 10-inch pneumatic pipeline on wharf for receipt of seafood extends to plant at rear. Three diesel fuel tanks, total capacity 720 barrels serve fuel stations on wharf; also one 10,000-gallon gasoline tank is located at rear. Wharf is served by 1 1/2-inch sewage line connected to city sewer system.

Port Series: 30 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82690 San Francisco District

Port Facilities by Waterway

Waterway: **Eureka Channel** Mile: PWD: 69
 Name: **City of Eureka Humboldt Dock B.**
 Port: Humboldt Bay
 Location: Humboldt Bay, left bank, Eureka Channel Outer Reach, approximately 1,200 feet above foot of Washington S Datum: MLLW
 Operator: City of Eureka.
 Owner: City of Eureka.
 Address: Phone: 707-441-4100/42
 Town: Eureka State: CA County: Humboldt
 Railway Connection: None.
 Purpose: Receipt of seafood; mooring fishing boats.
 Depth Alongside (feet): 23 | | Latitude (decimal): 40.801389
 Total Berthing Space (feet): 200 | | Longitude (decimal): -124.1819
 Remarks: Trucks have access to wharf.□□
 Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82690 San Francisco District

Waterway: **Eureka Channel** Mile: PWD: 68
 Name: **City of Eureka Public Marina.**
 Port: Humboldt Bay
 Location: Humboldt Bay, left bank, Eureka Channel Inner Reach, approximately 800 feet below foot of Commercial Str Datum: MLLW
 Operator: City of Eureka.
 Owner: City of Eureka.
 Address: Phone: 707-441-4100/42
 Town: Eureka State: CA County: Humboldt
 Railway Connection: None.
 Purpose: Mooring fishing boats, recreational and other small craft.
 Depth Alongside (feet): 8 - 16 | | Latitude (decimal): 40.803889
 Total Berthing Space (feet): | | Longitude (decimal): -124.1767
 Remarks: Concrete boat launching ramp is located above floats.□□
 Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82690 San Francisco District

Waterway: **Eureka Channel** Mile: PWD: 60
 Name: **City of Eureka, Guest Dock.**
 Port: Humboldt Bay
 Location: Humboldt Bay, above foot of L Street extended. Datum: MLLW
 Operator: City of Eureka.
 Owner: City of Eureka.
 Address: Phone: 707-441-4100/42
 Town: Eureka State: CA County: Humboldt
 Railway Connection: None.
 Purpose: Mooring vessels.
 Depth Alongside (feet): 8 | | Latitude (decimal): 40.806667
 Total Berthing Space (feet): 200 | | Longitude (decimal): -124.1611
 Remarks: Sam J. Sacco Sr. Memorial Amphitheater is located at rear.□□
 Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82690 San Francisco District

Port Facilities by Waterway

Waterway: **Eureka Channel** Mile: PWD: 62
 Name: **City of Eureka, J Street Pier.**
 Port: Humboldt Bay
 Location: Humboldt Bay, above foot of J Street extended. Datum: MLLW
 Operator: State of California Fish and Game Department.
 Owner: City of Eureka.
 Address: 619 Second Street. Phone: 707-445-6493
 Town: Eureka State: CA County: Humboldt
 Railway Connection: None.
 Purpose: Mooring patrol and research vessels.
 Depth Alongside (feet): | 8 - 10 | Latitude (decimal): 40.806389
 Total Berthing Space (feet): - | 65 | Longitude (decimal): -124.1614
 Remarks: Small craft moor at rear of face at upper side.□□
 Port Series: 30 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82690 San Francisco District

Waterway: **Eureka Channel** Mile: PWD: 61
 Name: **City of Eureka, K Street Pier.**
 Port: Humboldt Bay
 Location: Humboldt Bay, foot of K Street extended. Datum: MLLW
 Operator: Caito Fisheries, Inc.
 Owner: City of Eureka.
 Address: 1 K Street. Phone: 707-443-0550
 Town: Eureka State: CA County: Humboldt
 Railway Connection: None.
 Purpose: Receipt of seafood.
 Depth Alongside (feet): 8 | | Latitude (decimal): 40.806389
 Total Berthing Space (feet): 200 | | Longitude (decimal): -124.1603
 Remarks: Seafood is trucked to processing plant.□□
 Port Series: 30 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82690 San Francisco District

Waterway: **Eureka Channel** Mile: PWD: 65
 Name: **Coast Seafoods Co., Eureka Slip.**
 Port: Humboldt Bay
 Location: Humboldt Bay, between foot of A and B Streets extended. Datum: MLLW
 Operator: Coast Seafoods Co.
 Owner: Coast Seafoods Co.
 Address: 25 Waterfront Drive. Phone: 707-442-2947
 Town: Eureka State: CA County: Humboldt
 Railway Connection: None.
 Purpose: Receipt of oysters; mooring company-owned vessels.
 Depth Alongside (feet): 12 | 0 - 4 | Latitude (decimal): 40.805556
 Total Berthing Space (feet): 168 | 40 | Longitude (decimal): -124.1706
 Remarks: Oyster processing plant is located at rear.□□
 Port Series: 30 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82690 San Francisco District

Port Facilities by Waterway

Waterway: **Eureka Channel** Mile: PWD: 66
 Name: **Eureka Ice and Cold Storage Co. Wharf.**
 Port: Humboldt Bay
 Location: Humboldt Bay, below foot of A Street extended. Datum: MLLW
 Operator: Eureka Fisheries, Inc., d.b.a. Eureka Ice and Cold Storage Co.
 Owner: Eureka Fisheries, Inc.
 Address: Foot of A Street. Phone: 707-443-5663
 Town: Eureka State: CA County: Humboldt
 Railway Connection: None.
 Purpose: Icing fishing boats.
 Depth Alongside (feet): 8 | | Latitude (decimal): 40.805278
 Total Berthing Space (feet): 151 | | Longitude (decimal): -124.1719
 Remarks: One 6-inch ice hose extends to float from ice-making plant at rear, loading rate approximately 4 tons per hour. Plant has storage for 200 tons of flake ice.

Port Series: 30 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82690 San Francisco District

Waterway: **Eureka Channel** Mile: PWD: 64
 Name: **Humboldt Bay Harbor Cruise Dock.**
 Port: Humboldt Bay
 Location: Humboldt Bay, foot of C Street extended. Datum: MLLW
 Operator: Humboldt Bay Harbor Cruise.
 Owner: City of Eureka.
 Address: Phone: 707-444-9440/44
 Town: Eureka State: CA County: Humboldt
 Railway Connection: None.
 Purpose: Mooring harbor excursion vessel.
 Depth Alongside (feet): | 12 - 16 | Latitude (decimal): 40.805833
 Total Berthing Space (feet): - | 40 | Longitude (decimal): -124.1689
 Remarks: Harbor cruise vessel 'Madaket' moors at wharf. Humboldt Bay Maritime Museum is located on First Street. □

Port Series: 30 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82690 San Francisco District

Waterway: **Eureka Channel** Mile: PWD: 63
 Name: **Nor-cal Seafoods, Eureka I Street Wharf.**
 Port: Humboldt Bay
 Location: Humboldt Bay, between foot of I and J Streets extended. Datum: MLLW
 Operator: Nor-Cal Seafoods, Division of Eureka Fisheries, Inc.
 Owner: Eureka Fisheries, Inc.
 Address: Phone: 707-443-5663
 Town: Eureka State: CA County: Humboldt
 Railway Connection: None.
 Purpose: Receipt of seafood; mooring fishing boats.
 Depth Alongside (feet): 10 | | Latitude (decimal): 40.806389
 Total Berthing Space (feet): 160 | | Longitude (decimal): -124.1622
 Remarks: Seafood processing plant is located at rear in steel frame, metal-covered building. □

Port Series: 30 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82690 San Francisco District

Port Facilities by Waterway

Waterway: **Eureka Channel** Mile: PWD: 70
 Name: **Pacific Affiliates, Eureka Wharf.**
 Port: Humboldt Bay
 Location: Humboldt Bay, below foot of Washington Street extended. Datum: MLLW
 Operator: Pacific Affiliates, Inc.
 Owner: David L. Schneider.
 Address: 990 West Waterfront Drive. Phone: 707-498-0920
 Town: Eureka State: CA County: Humboldt
 Railway Connection: Surface tracks serving yard at rear; connect with Northwestern Pacific Railroad.
 Purpose: Receipt and shipment of conventional general cargo; handling oil spill response equipment.
 Depth Alongside (feet): 35 | 25 | Latitude (decimal): 40.7975
 Total Berthing Space (feet): 1,000 | - | Longitude (decimal): -124.1856
 Remarks: Approximately 17 acres of open storage area are located at rear.□□
 Port Series: 30 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82690 San Francisco District

Waterway: **Eureka Channel** Mile: PWD: 72
 Name: **Sierra Pacific Industries, Eureka Wharf.**
 Port: Humboldt Bay
 Location: Humboldt Bay, foot of 14th Street. Datum: MLLW
 Operator: Sierra Pacific Industries, Inc. and Brusco Tug & Barge, Inc.
 Owner: Eureka Forest Products, Inc.
 Address: 1206 W. 14th Street. Phone: 707-443-7039/44
 Town: Eureka State: CA County: Humboldt
 Railway Connection: None.
 Purpose: Shipment of logs, lumber, and wood chips; mooring company-owned floating equipment.
 Depth Alongside (feet): 32 - 35 | 14 | Latitude (decimal): 40.795278
 Total Berthing Space (feet): 470 | | Longitude (decimal): -124.1864
 Remarks: Approximately fifteen acres of paved, open storage area are located at rear with capacity for 5,000,000 FBM of logs; shed and warehouse have storage capacity for 1,000,000 FBM of lumber. Brusco Tug & Barge Co.: Mary Ann Brusco is based at wharf.
 Port Series: 30 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82690 San Francisco District

Waterway: **Eureka Channel** Mile: PWD: 71
 Name: **Tosco Refining Co., Eureka Terminal Wharf.**
 Port: Humboldt Bay
 Location: Humboldt Bay, approximately 650 feet above foot of Fourteenth Street. Datum: MLLW
 Operator: Not operated.
 Owner: Tosco Refining Co.
 Address: 1200 Railroad Avenue. Phone: 510-412-7606
 Town: Eureka State: CA County: Humboldt
 Railway Connection: None.
 Purpose: Not used.
 Depth Alongside (feet): 28 | | Latitude (decimal): 40.796111
 Total Berthing Space (feet): 400 | | Longitude (decimal): -124.1861
 Remarks: Three 6-inch hoses connect to three 6-inch pipelines extending to 8 steel storage tanks at rear, total capacity 110,000 barrels; pipelines were not in use at time of survey (1999).
 Port Series: 30 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82690 San Francisco District

Port Facilities by Waterway

Waterway: **Ford Channel** Mile: PWD: 35
Name: **Red and White Fleet, Richmond Ferry Dock.**
Port: Richmond
Location: West entrance to Ford Channel, at foot of Harbour Way South. Datum: MLLW
Operator: Red and White Fleet.
Owner: City of Richmond.
Address: 1453 Harbour Way South. Phone: 415-447-0591x2
Town: Richmond State: CA County: Contra Costa
Railway Connection: None.
Purpose: Landing for passenger ferries serving San Francisco.
Depth Alongside (feet): 14 - 16 | | Latitude (decimal): 37.909444
Total Berthing Space (feet): 80 | | Longitude (decimal): -122.36
Remarks: Vessels operate to Fisherman's Wharf (Pier 43 1/2) and to Ferry Building (Pier 1/2) in San Francisco.
Parking lot is located at rear.□

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82300 San Francisco District

Waterway: **Humboldt Bay** Mile: PWD: 73
Name: **Chevron Products Co., Eureka Terminal Wharf.**
Port: Humboldt Bay
Location: Humboldt Bay, approximately 400 feet above foot of Truesdale Street extended. Datum: MLLW
Operator: Chevron Products Co.
Owner: Chevron Products Co.
Address: 3400 Christie Street. Phone: 707-444-7850
Town: Eureka State: CA County: Humboldt
Railway Connection: None.
Purpose: Receipt of petroleum products by barge.
Depth Alongside (feet): 24 - 30 | | Latitude (decimal): 40.794722
Total Berthing Space (feet): 400 | | Longitude (decimal): -124.195
Remarks: One 8- and three 6-inch pipelines extend from wharf to 11 steel storage tanks at rear, total capacity approximately 105,000 barrels. MSRC 51 is based at rear of face of wharf.

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82690 San Francisco District

Port Facilities by Waterway

Waterway: **Humboldt Bay** Mile: PWD: 55
 Name: **Eureka Boat Yard, Samoa Pier.**
 Port: Humboldt Bay
 Location: Humboldt Bay, Samoa Peninsula, approximately 3.5 miles north of inner end of entrance channel. Datum: MLLW
 Operator: Eureka Boat Yard.
 Owner: Eureka Boat Yard.
 Address: 1483 Faye Avenue. Phone: 707-442-7232
 Town: Fairhaven State: CA County: Humboldt
 Railway Connection: None.
 Purpose: Mooring small vessels for repair.
 Depth Alongside (feet): 0 - 28 | | Latitude (decimal): 40.795833
 Total Berthing Space (feet): 200 | | Longitude (decimal): -124.1917
 Remarks: One 150-, one 100, and one 300-ton marine railways are located at inner end of lower side. Marine repair shops and office are located at rear. □

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82690 San Francisco District

Waterway: **Humboldt Bay** Mile: PWD: 54
 Name: **Fairhaven Terminal Co./Westfall Stevedore Co. Simpson Mill Wharf.**
 Port: Humboldt Bay
 Location: Humboldt Bay, Samoa Peninsula, approximately 3.0 miles north of inner end of entrance channel. Datum: MLLW
 Operator: Fairhaven Terminal Co./Westfall Stevedore Co.
 Owner: Simpson Investment Company.
 Address: 722 West Washington Street. Phone: 707-443-5688
 Town: Fairhaven State: CA County: Humboldt
 Railway Connection: None.
 Purpose: Receipt and shipment of conventional general cargo and wood pulp; receipt of lumber.
 Depth Alongside (feet): 38 | 30 | Latitude (decimal): 40.788611
 Total Berthing Space (feet): 700 | 350 | Longitude (decimal): -124.1933
 Remarks: Operator was leasing approximately 7 acres of covered storage and 10 acres of open storage area at time of survey. Former paper mill was being dismantled at time of survey (1999).

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82690 San Francisco District

Port Facilities by Waterway

Waterway: **Humboldt Bay** Mile: PWD: 59
 Name: **Humboldt Bay Harbor, Recreation, and Conservation District, Woodle**
 Port: Humboldt Bay
 Location: Humboldt Bay, east shore, Woodley Island, approximately 0.5 mile below Samoa- Eureka Bridge (State Highwa Datum: MLLW
 Operator: Humboldt Bay Harbor, Recreation, and Conservation District.
 Owner: Humboldt Bay Harbor, Recreation, and Conservation District.
 Address: Phone: 707-443-0801
 Town: Samoa State: CA County: Humboldt
 Railway Connection: None.
 Purpose: Mooring fishing boats, recreational, and other small craft.
 Depth Alongside (feet): 14 | 10 | 14 Latitude (decimal): 40.806944
 Total Berthing Space (feet): See | | 300 Longitude (decimal): -124.1614
 Remarks: Lower floats: twenty-six 70-, twenty-six 60-, ninety-one 50-, and twelve 40-foot berths; upper floats: fifty-two 40-, and twenty-six 30-foot berths. A 70- by 20-foot timber pile, timber-decked wharf is located at inner end of third pier from lower side. Each berth is served by water, electricity, and 1 1/2-inch line for discharging bilge water to oil-water separator tank at rear. Transient vessels moor inside breakwater float which is equipped with twosewage pumpout stations. U.S. Coast Guard vessel Barracuda is based at end of F Dock.
 Port Series: 30 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82690 San Francisco District

Waterway: **Humboldt Bay** Mile: PWD: 57
 Name: **Louisiana-Pacific Corp., Samoa Chemical Wharf.**
 Port: Humboldt Bay
 Location: Humboldt Bay, Samoa Peninsula, approximately 1.4 miles below Eureka-Samoa Bridge (State Highway 255). Datum: MLLW
 Operator: Louisiana-Pacific Corp.
 Owner: Louisiana-Pacific Corp.
 Address: Phone: 707-269-7505
 Town: Samoa State: CA County: Humboldt
 Railway Connection: None.
 Purpose: Receipt of caustic soda.
 Depth Alongside (feet): 35 | 13 - 15 | Latitude (decimal): 40.803611
 Total Berthing Space (feet): 1,147 | 480 | Longitude (decimal): -124.1872
 Remarks: Barge wharf: One 10-inch pipeline extends to 3 caustic storage tanks, total capacity 645,000 gallons. Face of wharf was not in use at time of survey (1999).
 Port Series: 30 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82690 San Francisco District

Port Facilities by Waterway

Waterway: **Humboldt Bay** Mile: PWD: 56
 Name: **Louisiana-Pacific Corp., Samoa Chip Export Wharf.**
 Port: Humboldt Bay
 Location: Humboldt Bay, Samoa Peninsula, approximately 3.9 miles north of inner end of entrance channel. Datum: MLLW
 Operator: Louisiana-Pacific Corp.
 Owner: Louisiana-Pacific Corp.
 Address: Phone: 707-269-7505
 Town: Samoa State: CA County: Humboldt
 Railway Connection: None.
 Purpose: Shipment of wood chips.
 Depth Alongside (feet): 38 | | Latitude (decimal): 40.798611
 Total Berthing Space (feet): 1,260 | | Longitude (decimal): -124.1892
 Remarks: Open storage area located at rear has capacity for 100,000 BDU (Bone Dry Units) of wood chips. □
 Port Series: 30 Year of Last Survey: 2000 Corps of Engnr's Waterway Code: 82690 San Francisco District

Waterway: **Humboldt Bay** Mile: PWD: 58
 Name: **Simpson Investment Co., Samoa Wharf.**
 Port: Humboldt Bay
 Location: Humboldt Bay, Samoa Peninsula, approximately 0.7 miles below Eureka-Samoa Bridge (State Highway 255). Datum: MLLW
 Operator: Not operated.
 Owner: Simpson Investment Company.
 Address: Phone: 206-224-5291
 Town: Samoa State: CA County: Humboldt
 Railway Connection: Surface tracks serving mill at rear; connect with Northwestern Pacific Railroad.
 Purpose: Not used.
 Depth Alongside (feet): 32 - 35 | - | - Latitude (decimal): 40.816389
 Total Berthing Space (feet): 1,060 | - | - Longitude (decimal): -124.1803
 Remarks: Wharf has open storage area for 4,000,000 board feet of lumber on apron, and 4,000,000 board feet in open storage area at rear. Building at rear has capacity for 10,000 tons of wood pulp. Portions of wharf were in poor condition at time of survey (1999).
 Port Series: 30 Year of Last Survey: 2000 Corps of Engnr's Waterway Code: 82690 San Francisco District

Port Facilities by Waterway

Waterway: **Humboldt Bay** Mile: PWD: 53
 Name: **U.S. Coast Guard Station, Humboldt Bay Pier.**
 Port: Humboldt Bay
 Location: Humboldt Bay, approximately 1.0 mile north of inner end of entrance channel, North Spit of Samoa Peninsula Datum: MLLW
 Operator: U.S. Coast Guard.
 Owner: U.S. Government.
 Address: 200 New Navy Base Road. Phone: 707-443-2212
 Town: Fairhaven State: CA County: Humboldt
 Railway Connection: None.
 Purpose: Mooring and fueling U.S. Coast Guard vessels.
 Depth Alongside (feet): 5 - 12 | 5 - 12 | 12 Latitude (decimal): 40.766389
 Total Berthing Space (feet): - | 60 | 50, Longitude (decimal): -124.2158
 Remarks: Two marine railways located on upper side of inner end of approach were not operable at time of survey (1999). One 40- by 8-foot fueling float with steel gangway ramp extending from concrete pile, concrete-decked approach is located above boat house. One 2,000-gallon diesel storage tank and one 500-gallon gasoline storage tank are used for fueling vessels.
 Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82690 San Francisco District

Waterway: **Inner Harbor Channel** Mile: PWD: 34
 Name: **Alameda Gateway Ferry Terminal, West Pier No. 5.**
 Port: Alameda
 Location: Approximately 2.3 miles above entrance to Inner Harbor, at foot of Main Street Datum: MLLW
 Operator: Blue and Gold Fleet LP.
 Owner: City of Alameda.
 Address: 2900 Main Street. Phone: 510-522-3300
 Town: Alameda State: CA County: Alameda
 Railway Connection: None.
 Purpose: Landing for passenger ferries serving Oakland and San Francisco.
 Depth Alongside (feet): 35 | 35 | Latitude (decimal): 37.791111
 Total Berthing Space (feet): 1490 | 100 | Longitude (decimal): -122.2939
 Remarks: Wharf is in line and contiguous with Ref. No. 33. Passenger ferries operate daily to Oakland (Ref. No. 19) and across San Francisco Bay to San Francisco Ferry Building and Fisherman's Wharf (Pier 41). Paved parking lot is located at rear.
 Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82280 San Francisco District

Port Facilities by Waterway

Waterway: **Inner Harbor Channel** Mile: PWD: 30
 Name: **Alameda Gateway Pier.**
 Port: Alameda
 Location: Approximately 2 5/8 miles above entrance to Inner Harbor, 1,160 feet above foot of Main Street extended. Datum: MLLW
 Operator: Seaway Towing Co. and Alameda Gateway, Ltd.
 Owner: U.S. Government.
 Address: 2900 Main Street. Phone: 510-521-2727
 Town: Alameda State: CA County: Alameda
 Railway Connection: None.
 Purpose: Mooring company-owned tugs and other floating equipment.
 Depth Alongside (feet): 32 | | Latitude (decimal): 37.791111
 Total Berthing Space (feet): 640 | | Longitude (decimal): -122.2864
 Remarks: Rear of wharf apron is fenced within the compound of U.S. Naval Supply Center at rear. □
 Port Series: 31 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82280 San Francisco District

Waterway: **Inner Harbor Channel** Mile: PWD: 33
 Name: **Alameda Gateway, East Pier No. 5.**
 Port: Alameda
 Location: Approximately 2.3 miles above entrance to Inner Harbor, at foot of Main Street extended. Datum: MLLW
 Operator: Bay Ship & Yacht Co.
 Owner: Alameda Gateway, Ltd.
 Address: 2900 Main Street. Phone: 510-337-9122
 Town: Alameda State: CA County: Alameda
 Railway Connection: None.
 Purpose: Mooring vessels for repair; mooring floating drydock.
 Depth Alongside (feet): 32 | 20 | - Latitude (decimal): 37.791389
 Total Berthing Space (feet): 350 | 300 | Longitude (decimal): -122.2911
 Remarks: Wharf is in line and contiguous with Ref. No. 34. Wharf is equipped with lines for supplying compressed air, natural gas, and salt water. One 2,800-ton, floating drydock is located along upper end of wharf.
 Port Series: 31 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82280 San Francisco District

Port Facilities by Waterway

Waterway: **Inner Harbor Channel** Mile: PWD: 32
 Name: **Alameda Gateway, Pier No. 2.**
 Port: Alameda
 Location: Approximately 2.4 miles above entrance to Inner Harbor, above foot of Main Street Datum: MLLW extended.
 Operator: Marine Express Co. and Bay Ship & Yacht Co.
 Owner: Alameda Gateway, Ltd.
 Address: 2900 Main Street. Phone: 510-523-8900
 Town: Alameda State: CA County: Alameda
 Railway Connection: None.
 Purpose: Mooring company-owned floating equipment; mooring vessels for repair; mooring floating drydock.
 Depth Alongside (feet): | 27 - 31 | 28 Latitude (decimal): 37.791944
 Total Berthing Space (feet): - | | 270 Longitude (decimal): -122.2889
 Remarks: A 160-foot bulkhead is located at inner end of slip on lower side. One 400-ton floating drydock is moored along upper side of pier. □

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82280 San Francisco District

Waterway: **Inner Harbor Channel** Mile: PWD: 31
 Name: **Alameda Gateway, Pier No. 4.**
 Port: Alameda
 Location: Approximately 2 1/2 miles above entrance to Inner Harbor, 950 feet above foot of Main Street extended. Datum: MLLW
 Operator: Seaway Towing Co.
 Owner: Alameda Gateway, Ltd.
 Address: 2900 Main Street. Phone: 510-521-3283
 Town: Alameda State: CA County: Alameda
 Railway Connection: None.
 Purpose: Mooring company-owned tugs and other floating equipment.
 Depth Alongside (feet): | 15 - 32 | 15 - 32 Latitude (decimal): 37.791944
 Total Berthing Space (feet): - | 400 | 400 Longitude (decimal): -122.2872
 Remarks: Pier forms 180-foot wide slip with Ref. No. 30; depths at quay wall are 20 to 25 feet. □

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82280 San Francisco District

Port Facilities by Waterway

Waterway: **Inner Harbor Channel** Mile: PWD: 51
Name: **ARCO Products Co., Richmond Barge Wharf.**
Port: Richmond
Location: Right bank, Inner Harbor Channel, approximately 0.2 mile below entrance to Santa Fe Channel. Datum: MLLW
Operator: ARCO Products Co.
Owner: ARCO Products Co.
Address: 1306 Canal Boulevard. Phone: 510-236-0313
Town: Richmond State: CA County: Contra Costa
Railway Connection: Tracks serving tank car loading racks in rear connect with Burlington Northern Santa Fe Railway.
Purpose: Mooring oil spill response vessel 'Clean Bay I.'
Depth Alongside (feet): 35 | | Latitude (decimal): 37.913333
Total Berthing Space (feet): 710 | | Longitude (decimal): -122.365
Remarks: Nine 8-inch pipelines extending from wharf to storage tanks described under Ref. No. 52 were not in use at time of survey. □

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82300 San Francisco District

Waterway: **Inner Harbor Channel** Mile: PWD: 52
Name: **ARCO Products Co., Richmond Tanker Wharf.**
Port: Richmond
Location: Right bank, Inner Harbor Channel, approximately 0.3 mile below entrance to Santa Fe Channel. Datum: MLLW
Operator: ARCO Products Co.
Owner: ARCO Products Co.
Address: 1306 Canal Boulevard. Phone: 510-236-0313
Town: Richmond State: CA County: Contra Costa
Railway Connection: Tracks serving tank car loading racks in rear connect with Burlington Northern Santa Fe Railway.
Purpose: Receipt and occasional shipment of petroleum products.
Depth Alongside (feet): 38 | | Latitude (decimal): 37.911944
Total Berthing Space (feet): 710 | | Longitude (decimal): -122.3647
Remarks: Wharf is connected to Barge Wharf (Ref. No. 51) by walkway. Ten 6- (not in use at time of survey 2000) and five 8-inch pipelines extend from wharf to 46 steel storage tanks located at rear, total capacity 737,000 barrels. Storage tanks at terminal are connected with interstate pipeline system of Kinder Morgan Energy Partners LLC.

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82300 San Francisco District

Port Facilities by Waterway

Waterway: **Inner Harbor Channel** Mile: PWD: 23
 Name: **ConAgra Flour Milling Co. Oakland Plant Wharf.**
 Port: Oakland
 Location: North side of Inner Harbor Channel, foot of E. 7th Street. Datum: MLLW
 Operator: Dutra Construction Co., Inc.
 Owner: ConAgra Flour Milling Co.
 Address: 2201 E. 7th Street. Phone: 510-536-9555
 Town: Oakland State: CA County: Alameda
 Railway Connection: Two surface tracks serve receiving facilities and loading spout at mill in rear; connect with Union Pacific Railroad.
 Purpose: Mooring company-owned floating equipment.
 Depth Alongside (feet): 15 | | Latitude (decimal): 37.774444
 Total Berthing Space (feet): 795 | | Longitude (decimal): -122.2392
 Remarks: Concrete silos located in rear have storage capacity for 1,000,000 bushels. Mill is used for processing and packaging grain and flour products. □

Port Series: 31 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82280 San Francisco District

Waterway: **Inner Harbor Channel** Mile: PWD: 16
 Name: **Port of Oakland, Charles P. Howard Container Terminal, Berths 67 a**
 Port: Oakland
 Location: North side, Inner Harbor Channel, between foot of Jefferson and Filber Streets Datum: MLLW
 extended.
 Operator: Stevedoring Services of America Terminals.
 Owner: Port of Oakland.
 Address: One Market Street. Phone: 510-238-4400
 Town: Oakland State: CA County: Alameda
 Railway Connection: Surface track behind apron connects with Oakland Terminal Railway.
 Purpose: Receipt and shipment of conventional, containerized, and roll-on/roll-off, general cargo and heavy lift items.
 Depth Alongside (feet): 42 | | Latitude (decimal): 37.794722
 Total Berthing Space (feet): 2,016 | | Longitude (decimal): -122.2842
 Remarks: Terminal occupies 50 acres including 234 outlets for refrigerated cargo containers. □

Port Series: 31 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82280 San Francisco District

Port Facilities by Waterway

Waterway: **Inner Harbor Channel** Mile: PWD: 19
 Name: **Port of Oakland, Clay Street Ferry Terminal Landing.**
 Port: Oakland
 Location: North side, Inner Harbor Channel, south of foot of Clay Street extended. Datum: MLLW
 Operator: Blue and Gold Fleet LP.
 Owner: Port of Oakland.
 Address: Phone: 415-705-5555
 Town: Oakland State: CA County: Alameda
 Railway Connection: None.
 Purpose: Landing for ferry passengers.
 Depth Alongside (feet): 15 | Latitude (decimal): 37.794444
 Total Berthing Space (feet): 75, | Longitude (decimal): -122.28
 Remarks: Passenger ferries operate daily to Alameda (Ref. No. 34) and across San Francisco Bay to San Francisco Ferry Building and Fisherman's Wharf (Pier 41); seasonal service is also provided to Angel Island.

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82280 San Francisco District

Waterway: **Inner Harbor Channel** Mile: PWD: 20
 Name: **Port of Oakland, Jack London Water Taxi Landing.**
 Port: Oakland
 Location: North side, Inner Harbor Channel, north of foot of Broadway. Datum: MLLW
 Operator: Jack London Water Taxi.
 Owner: Port of Oakland.
 Address: Phone: 510-839-7572
 Town: Oakland State: CA County: Alameda
 Railway Connection: None.
 Purpose: Landing for water taxi.
 Depth Alongside (feet): 20 | Latitude (decimal): 37.793611
 Total Berthing Space (feet): 90 | Longitude (decimal): -122.2775
 Remarks: Operator also serves Reef, Estuary Park, Portobello, and Broadway in Oakland and Grand Marina, Gate 8, Marine Village, and Mariner Square in Alameda.□

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82280 San Francisco District

Port Facilities by Waterway

Waterway: **Inner Harbor Channel** Mile: PWD: 11
 Name: **Port of Oakland, Middle Harbor Container Terminal, Berths 55 and 5**
 Port: Oakland
 Location: North side of Inner Harbor Channel, foot of 6th Street extended. Datum: MLLW
 Operator: Hanjin Shipping Co.
 Owner: Port of Oakland.
 Address: Phone: 510-627-1450
 Town: Oakland State: CA County: Alameda
 Railway Connection: Joint Intermodal Terminal owned by Port of Oakland is located adjacent to terminal.
 Purpose: Receipt and shipment of containerized general cargo.
 Depth Alongside (feet): 42 | | Latitude (decimal): 37.797222
 Total Berthing Space (feet): 2,400 | | Longitude (decimal): -122.3217
 Remarks: Terminal occupies 120 acres and is described as it will appear upon completion of construction in January 2001. Union Pacific Railroad operates intermodal container transfer yard adjacent to this facility on opposite side of Middle Harbor Road.

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82280 San Francisco District

Waterway: **Inner Harbor Channel** Mile: PWD: 12
 Name: **Port of Oakland, Middle Harbor Container Terminal, Berths 60, 61,**
 Port: Oakland
 Location: North side of Inner Harbor Channel, above foot of Ferro Street. Datum: MLLW
 Operator: American President Lines.
 Owner: Port of Oakland.
 Address: 1395 Middle Harbor Road. Phone: 510-272-2010
 Town: Oakland State: CA County: Alameda
 Railway Connection: None.
 Purpose: Receipt and shipment of containerized general cargo.
 Depth Alongside (feet): 42 | | Latitude (decimal): 37.793611
 Total Berthing Space (feet): 2,743 | | Longitude (decimal): -122.3003
 Remarks: Terminal occupies 81 acres including 374 outlets for refrigerated cargo containers. Union Pacific Railroad operates intermodal container transfer yard directly north of this facility on opposite side of Middle Harbor Road.

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82280 San Francisco District

Port Facilities by Waterway

Waterway: **Inner Harbor Channel** Mile: PWD: 21
 Name: **Port of Oakland, Ninth Avenue Terminal, Berths 82, 83, and 84.**
 Port: Oakland
 Location: North side, Inner Harbor Channel, foot of Ninth Avenue below entrance to Brooklyn Basin North Channel. Datum: MLLW
 Operator: Port of Oakland.
 Owner: Port of Oakland.
 Address: 101 Tenth Avenue. Phone: 510-627-1450
 Town: Oakland State: CA County: Alameda
 Railway Connection: None.
 Purpose: Mooring vessels.
 Depth Alongside (feet): 35 | 35 | Latitude (decimal): 37.785833
 Total Berthing Space (feet): 950 | 1,115 | Longitude (decimal): -122.2583
 Remarks: Approximately 26 acres of paved open storage area are located at rear.□□
 Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82280 San Francisco District

Waterway: **Inner Harbor Channel** Mile: PWD: 18
 Name: **Port of Oakland, Potomac Dock.**
 Port: Oakland
 Location: North side, Inner Harbor Channel, foot of Clay Street extended. Datum: MLLW
 Operator: Potomac Association.
 Owner: Port of Oakland.
 Address: 540 Water Street. Phone: 510-627-1215
 Town: Oakland State: CA County: Alameda
 Railway Connection: None.
 Purpose: Mooring Presidential Yacht Potomac.
 Depth Alongside (feet): 15 | | Latitude (decimal): 37.795278
 Total Berthing Space (feet): 80 | | Longitude (decimal): -122.2797
 Remarks: Potomac was Franklin Delano Roosevelt's 'Floating White House.' Seasonal harbor cruises are available.□
 Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82280 San Francisco District

Waterway: **Inner Harbor Channel** Mile: PWD: 17
 Name: **Port of Oakland, Station 2 Fireboat Dock.**
 Port: Oakland
 Location: North side, Inner Harbor Channel, north of foot of Clay Street extended. Datum: MLLW
 Operator: City of Oakland Fire Department.
 Owner: Port of Oakland.
 Address: 100 Jack London Square. Phone: 510-238-4002
 Town: Oakland State: CA County: Alameda
 Railway Connection: None.
 Purpose: Mooring fireboat 'Sea Wolf.'
 Depth Alongside (feet): 25 | | Latitude (decimal): 37.795556
 Total Berthing Space (feet): 85 | | Longitude (decimal): -122.2803
 Remarks: Oakland Fire Department Station 2 is located at rear.□□
 Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82280 San Francisco District

Port Facilities by Waterway

Waterway: **Inner Harbor Channel** Mile: PWD: 58
 Name: **Port of Richmond Terminal No. 1 Wharf.**
 Port: Richmond
 Location: Point Richmond, east of foot of Garrard Boulevard. Datum: MLLW
 Operator: City of Richmond.
 Owner: City of Richmond.
 Address: 860 S. Garrard Boulevard. Phone: 510-215-4600
 Town: Richmond State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Mooring SS Red Oak Victory.
 Depth Alongside (feet): 29 | Latitude (decimal): 37.908333
 Total Berthing Space (feet): 557 | Longitude (decimal): -122.3869
 Remarks: -□□
 Port Series: 31 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82300 San Francisco District

Waterway: **Inner Harbor Channel** Mile: PWD: 54
 Name: **Port of Richmond, Point Potrero Marine Terminal No. 6 Wharf.**
 Port: Richmond
 Location: Inner Harbor Channel, south side of Point Potrero. Datum: MLLW
 Operator: Marin Tug & Barge, Inc.
 Owner: City of Richmond.
 Address: 1318 Canal Boulevard. Phone: 510-236-5880
 Town: Richmond State: CA County: Contra Costa
 Railway Connection: Trackage serving terminal in rear connects with Burlington Northern Santa Fe Railway.
 Purpose: Mooring company-owned tug and bunkering barge.
 Depth Alongside (feet): 32 | 24 | Latitude (decimal): 37.905
 Total Berthing Space (feet): 266 | 450 | Longitude (decimal): -122.3642
 Remarks: Dispatch office is located at rear.□□
 Port Series: 31 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82300 San Francisco District

Waterway: **Inner Harbor Channel** Mile: PWD: 53
 Name: **Port of Richmond, Point Potrero Marine Terminal No. 7 Wharf.**
 Port: Richmond
 Location: Right side of entrance to Inner Harbor Channel, east side of Point Potrero. Datum: MLLW
 Operator: Pasha Group.
 Owner: City of Richmond.
 Address: 1301 Canal Boulevard. Phone: 510-215-4600
 Town: Richmond State: CA County: Contra Costa
 Railway Connection: Trackage serving terminal in rear connects with Burlington Northern Santa Fe Railway.
 Purpose: Occasional receipt and shipment of general cargo.
 Depth Alongside (feet): 38 | Latitude (decimal): 37.9075
 Total Berthing Space (feet): 1,615 | Longitude (decimal): -122.3639
 Remarks: Pasha Group has preferential berthing at terminal. There are 40 acres of paved, open storage for automobiles at rear and an additional 50 acres of unpaved area owned by the Port of Richmond.
 Port Series: 31 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82300 San Francisco District

Port Facilities by Waterway

Waterway: **Inner Harbor Channel** Mile: PWD: 55
 Name: **Port of Richmond, Point Potrero Marine Terminal, Berths Nos. R6-1**
 Port: Richmond
 Location: Inner Harbor Channel, south side of Point Potrero. Datum: MLLW
 Operator: Port of Richmond.
 Owner: City of Richmond.
 Address: 1313 Canal Boulevard. Phone: 510-215-4600
 Town: Richmond State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Mooring vessels.
 Depth Alongside (feet): 15 - * | 27 - * | 27 - * Latitude (decimal): 37.904722
 Total Berthing Space (feet): 576 | 748 | 587 Longitude (decimal): -122.3664
 Remarks: Berth R6-1 (Dock No. 1) is on the west end, Berth R6-5 (Dock No. 5) on the east end. □
 Port Series: 31 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82300 San Francisco District

Waterway: **Inner Harbor Channel** Mile: PWD: 56
 Name: **Port of Richmond, Point Potrero Marine Terminal, Finger Pier 1.**
 Port: Richmond
 Location: North side, Inner Harbor Channel, approximately 0.4 mile west of Point Potrero. Datum: MLLW
 Operator: Marine Spill Response Corp.
 Owner: City of Richmond.
 Address: 1314 Canal Boulevard. Phone: 510-215-1833
 Town: Richmond State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Mooring response vessels.
 Depth Alongside (feet): 30 | 12 | 30 Latitude (decimal): 37.905
 Total Berthing Space (feet): 48 | 522 | 472 Longitude (decimal): -122.3717
 Remarks: Pier forms 280-foot wide slip with Finger Pier 2 (Ref. No. 57). Pacific Responder and MSRC-452 are based at pier. □
 Port Series: 31 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82300 San Francisco District

Waterway: **Inner Harbor Channel** Mile: PWD: 57
 Name: **Port of Richmond, Point Potrero Marine Terminal, Finger Pier 2.**
 Port: Richmond
 Location: North side, Inner Harbor Channel, approximately 0.4 mile west of Point Potrero. Datum: MLLW
 Operator: Foss Maritime Co.
 Owner: City of Richmond.
 Address: 1316 Canal Boulevard. Phone: 510-307-7820
 Town: Richmond State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Mooring company-owned floating equipment, including tugs and bunkering barges.
 Depth Alongside (feet): 10 - 19 | | Latitude (decimal): 37.905556
 Total Berthing Space (feet): 547 | | Longitude (decimal): -122.3731
 Remarks: Pier forms 280-foot wide slip with Finger Pier 1 (Ref. No. 56). Dispatch office is located at rear. □
 Port Series: 31 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82300 San Francisco District

Port Facilities by Waterway

Waterway: Inner Harbor Channel	Mile:	PWD: 37
Name: Port of Richmond, Terminal No. 2, Lower Wharf.		
Port: Richmond		
Location: Left bank, Inner Harbor Channel, approximately 400 feet above foot of Hall Avenue Datum: MLLW extended.		
Operator: Not operated.		
Owner: City of Richmond.		
Address:		Phone: 510-215-4600
Town: Richmond	State: CA	County: Contra Costa
Railway Connection: None.		
Purpose: Not used.		
Depth Alongside (feet): 38		Latitude (decimal): 37.915278
Total Berthing Space (feet): 192		Longitude (decimal): -122.3622
Waterway: Inner Harbor Channel		
Name: Port of Richmond, Terminal No. 2, Lower Wharf.		
Port: Richmond		
Location: Left bank, Inner Harbor Channel, approximately 400 feet above foot of Hall Avenue Datum: MLLW extended.		
Operator: Not operated.		
Owner: City of Richmond.		
Address:		Phone: 510-215-4600
Town: Richmond	State: CA	County: Contra Costa
Railway Connection: None.		
Purpose: Not used.		
Depth Alongside (feet): 38		Latitude (decimal): 37.915278
Total Berthing Space (feet): 192		Longitude (decimal): -122.3622
Remarks: Face of wharf is in line with face of adjacent wharves (Ref. Nos. 36 and 38), providing approximately 1,780 feet of continuous berthing space. □		
Port Series: 31 Year of Last Survey: 2000 Corps of Engns Waterway Code: 82300 San Francisco District		

Remarks: Face of wharf is in line with face of adjacent wharves (Ref. Nos. 36 and 38), providing approximately 1,780 feet of continuous berthing space. □

Port Series: 31 Year of Last Survey: 2000 Corps of Engns Waterway Code: 82300 San Francisco District

Port Facilities by Waterway

Waterway: Inner Harbor Channel	Mile:	PWD: 37
Name: Port of Richmond, Terminal No. 2, Lower Wharf.		
Port: Richmond		
Location: Left bank, Inner Harbor Channel, approximately 400 feet above foot of Hall Avenue extended.	Datum:	MLLW
Operator: Not operated.		
Owner: City of Richmond.		
Address:	Phone:	510-215-4600
Town: Richmond	County:	Contra Costa
State: CA		
Railway Connection: None.		
Purpose: Not used.		
Depth Alongside (feet): 38	Latitude (decimal):	37.915278
Total Berthing Space (feet): 192	Longitude (decimal):	-122.3622
Waterway: Inner Harbor Channel	Mile:	PWD: 37
Name: Port of Richmond, Terminal No. 2, Lower Wharf.		
Port: Richmond		
Location: Left bank, Inner Harbor Channel, approximately 400 feet above foot of Hall Avenue extended.	Datum:	MLLW
Operator: Not operated.		
Owner: City of Richmond.		
Address:	Phone:	510-215-4600
Town: Richmond	County:	Contra Costa
State: CA		
Railway Connection: None.		
Purpose: Not used.		
Depth Alongside (feet): 38	Latitude (decimal):	37.915278
Total Berthing Space (feet): 192	Longitude (decimal):	-122.3622
Remarks: Face of wharf is in line with face of adjacent wharves (Ref. Nos. 36 and 38), providing approximately 1,780 feet of continuous berthing space. □		
Port Series: 31	Year of Last Survey: 2000	Corps of Engnrs Waterway Code: 82300 San Francisco District

Remarks: Face of wharf is in line with face of adjacent wharves (Ref. Nos. 36 and 38), providing approximately 1,780 feet of continuous berthing space. □

Port Series: 31	Year of Last Survey: 2000	Corps of Engnrs Waterway Code: 82300 San Francisco District
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Port Facilities by Waterway

Waterway: **Inner Harbor Channel** Mile: PWD: 38
 Name: **Port of Richmond, Terminal No. 2, Upper Wharf.**
 Port: Richmond
 Location: Left bank, Inner Harbor Channel, approximately 900 feet above foot of Hall Avenue Datum: MLLW extended.
 Operator: California Oils Corporation.
 Owner: City of Richmond.
 Address: 1145 Harbour Way South. Phone: 510-231-6423
 Town: Richmond State: CA County: Contra Costa
 Railway Connection: Surface track serving terminal at rear; connects with Burlington Northern Santa Fe Railway and Union Pacific Railroad.

Purpose: Receipt and shipment of edible oils.
 Depth Alongside (feet): 38 | | Latitude (decimal): 37.916389
 Total Berthing Space (feet): 300 | | Longitude (decimal): -122.3622
 Waterway: **Inner Harbor Channel** Mile: PWD: 38

Name: **Port of Richmond, Terminal No. 2, Upper Wharf.**
 Port: Richmond
 Location: Left bank, Inner Harbor Channel, approximately 900 feet above foot of Hall Avenue Datum: MLLW extended.
 Operator: California Oils Corporation.
 Owner: City of Richmond.
 Address: 1145 Harbour Way South. Phone: 510-231-6423
 Town: Richmond State: CA County: Contra Costa
 Railway Connection: Surface track serving terminal at rear; connects with Burlington Northern Santa Fe Railway and Union Pacific Railroad.

Purpose: Receipt and shipment of edible oils.
 Depth Alongside (feet): 38 | | Latitude (decimal): 37.916389
 Total Berthing Space (feet): 300 | | Longitude (decimal): -122.3622

Remarks: Face of wharf is in line with face of adjacent wharves (Ref. Nos. 36 and 37), providing approximately 1,780 feet of continuous berthing space. Three 6-inch pipelines extend from wharf to ten storage tanks located at processing plant in rear, total capacity 2,000,000 gallons.

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82300 San Francisco District

Remarks: Face of wharf is in line with face of adjacent wharves (Ref. Nos. 36 and 37), providing approximately 1,780 feet of continuous berthing space. Three 6-inch pipelines extend from wharf to ten storage tanks located at processing plant in rear, total capacity 2,000,000 gallons.

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82300 San Francisco District

Port Facilities by Waterway

Waterway: **Inner Harbor Channel** Mile: PWD: 38
 Name: **Port of Richmond, Terminal No. 2, Upper Wharf.**
 Port: Richmond
 Location: Left bank, Inner Harbor Channel, approximately 900 feet above foot of Hall Avenue Datum: MLLW extended.
 Operator: California Oils Corporation.
 Owner: City of Richmond.
 Address: 1145 Harbour Way South. Phone: 510-231-6423
 Town: Richmond State: CA County: Contra Costa
 Railway Connection: Surface track serving terminal at rear; connects with Burlington Northern Santa Fe Railway and Union Pacific Railroad.

Purpose: Receipt and shipment of edible oils.
 Depth Alongside (feet): 38 | | Latitude (decimal): 37.916389
 Total Berthing Space (feet): 300 | | Longitude (decimal): -122.3622
 Waterway: **Inner Harbor Channel** Mile: PWD: 38

Name: **Port of Richmond, Terminal No. 2, Upper Wharf.**
 Port: Richmond
 Location: Left bank, Inner Harbor Channel, approximately 900 feet above foot of Hall Avenue Datum: MLLW extended.
 Operator: California Oils Corporation.
 Owner: City of Richmond.
 Address: 1145 Harbour Way South. Phone: 510-231-6423
 Town: Richmond State: CA County: Contra Costa
 Railway Connection: Surface track serving terminal at rear; connects with Burlington Northern Santa Fe Railway and Union Pacific Railroad.

Purpose: Receipt and shipment of edible oils.
 Depth Alongside (feet): 38 | | Latitude (decimal): 37.916389
 Total Berthing Space (feet): 300 | | Longitude (decimal): -122.3622

Remarks: Face of wharf is in line with face of adjacent wharves (Ref. Nos. 36 and 37), providing approximately 1,780 feet of continuous berthing space. Three 6-inch pipelines extend from wharf to ten storage tanks located at processing plant in rear, total capacity 2,000,000 gallons.

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82300 San Francisco District

Remarks: Face of wharf is in line with face of adjacent wharves (Ref. Nos. 36 and 37), providing approximately 1,780 feet of continuous berthing space. Three 6-inch pipelines extend from wharf to ten storage tanks located at processing plant in rear, total capacity 2,000,000 gallons.

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82300 San Francisco District

Port Facilities by Waterway

Waterway: **Inner Harbor Channel** Mile: PWD: 36
 Name: **Port of Richmond, Terminal No. 3 Wharf.**
 Port: Richmond
 Location: Left bank, Inner Harbor Channel, approximately 1,000 feet above entrance, at foot of Hall Avenue extends Datum: MLLW
 Operator: Stevedoring Services of America.
 Owner: City of Richmond.
 Address: 1411 Harbour Way South. Phone: 510-232-1741
 Town: Richmond State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Receipt and shipment of conventional general cargo, including steel, wood products, and heavy lift items.
 Depth Alongside (feet): 38 | | Latitude (decimal): 37.913056
 Total Berthing Space (feet): 1,109 | | Longitude (decimal): -122.3617
 Remarks: Face of wharf is in line with face of adjacent wharves (Ref. Nos. 37 and 38), providing approximately 1,780 feet of continuous berthing. Approximately 18 acres of paved, open storage area are located in rear.
 Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82300 San Francisco District

Waterway: **Inner Harbor Channel** Mile: PWD: 24
 Name: **RMC Pacific Materials, Oakland Wharf.**
 Port: Oakland
 Location: North side of Inner Harbor Channel, below Park Street Bridge. Datum: MLLW
 Operator: Seaworks, Inc.
 Owner: RMC Pacific Materials.
 Address: 333 23rd Avenue. Phone: 510-533-5093
 Town: Oakland State: CA County: Alameda
 Railway Connection: None.
 Purpose: Mooring vessels.
 Depth Alongside (feet): 10 | | Latitude (decimal): 37.7725
 Total Berthing Space (feet): 93 | | Longitude (decimal): -122.2358
 Remarks: Concrete batch plant and open storage area for 21,000 tons of sand are located at rear. Trucks previously transported sand from two 60-ton, steel hoppers to batch plant.
 Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82280 San Francisco District

Port Facilities by Waterway

Waterway: **Inner Harbor Channel** Mile: PWD: 14
 Name: **Schnitzer Steel Products Co., 6th Street Pier.**
 Port: Oakland
 Location: North side, Inner Harbor Channel, between foot of Magnolia and Adeline Streets Datum: MLLW extended.
 Operator: Schnitzer Steel Products Co.
 Owner: Schnitzer Steel Products Co.
 Address: 1101 Embarcadero West. Phone: 510-444-3919
 Town: Oakland State: CA County: Alameda
 Railway Connection: Trackage serving yard at rear connects with Union Pacific Railroad.
 Purpose: Shipment of shredded scrap metal.
 Depth Alongside (feet): 36 | 2 - 30 | 2 - 30 Latitude (decimal): 37.794167
 Total Berthing Space (feet): 700 | - | - Longitude (decimal): -122.2917
 Waterway: **Inner Harbor Channel** Mile: PWD: 14
 Name: **Schnitzer Steel Products Co., 6th Street Pier.**
 Port: Oakland
 Location: North side, Inner Harbor Channel, between foot of Magnolia and Adeline Streets Datum: MLLW extended.
 Operator: Schnitzer Steel Products Co.
 Owner: Schnitzer Steel Products Co.
 Address: 1101 Embarcadero West. Phone: 510-444-3919
 Town: Oakland State: CA County: Alameda
 Railway Connection: Trackage serving yard at rear connects with Union Pacific Railroad.
 Purpose: Shipment of shredded scrap metal.
 Depth Alongside (feet): 36 | 2 - 30 | 2 - 30 Latitude (decimal): 37.794167
 Total Berthing Space (feet): 700 | - | - Longitude (decimal): -122.2917
 Waterway: **Inner Harbor Channel** Mile: PWD: 14
 Name: **Schnitzer Steel Products Co., 6th Street Pier.**
 Port: Oakland
 Location: North side, Inner Harbor Channel, between foot of Magnolia and Adeline Streets Datum: MLLW extended.
 Operator: Schnitzer Steel Products Co.
 Owner: Schnitzer Steel Products Co.
 Address: 1101 Embarcadero West. Phone: 510-444-3919
 Town: Oakland State: CA County: Alameda
 Railway Connection: Trackage serving yard at rear connects with Union Pacific Railroad.
 Purpose: Shipment of shredded scrap metal.
 Depth Alongside (feet): 36 | 2 - 30 | 2 - 30 Latitude (decimal): 37.794167
 Total Berthing Space (feet): 700 | - | - Longitude (decimal): -122.2917
 Remarks: Vessels using pier breast against face of 7th Street Pier (Ref. No. 13). □ □

Port Series: 31 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82280 San Francisco District

Remarks: Vessels using pier breast against face of 7th Street Pier (Ref. No. 13). □ □

Port Series: 31 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82280 San Francisco District

Remarks: Vessels using pier breast against face of 7th Street Pier (Ref. No. 13). □ □

Port Series: 31 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82280 San Francisco District

Port Facilities by Waterway

Waterway: **Inner Harbor Channel** Mile: PWD: 14
Name: **Schnitzer Steel Products Co., 6th Street Pier.**
Port: Oakland
Location: North side, Inner Harbor Channel, between foot of Magnolia and Adeline Streets Datum: MLLW extended.
Operator: Schnitzer Steel Products Co.
Owner: Schnitzer Steel Products Co.
Address: 1101 Embarcadero West. Phone: 510-444-3919
Town: Oakland State: CA County: Alameda
Railway Connection: Trackage serving yard at rear connects with Union Pacific Railroad.
Purpose: Shipment of shredded scrap metal.
Depth Alongside (feet): 36 | 2 - 30 | 2 - 30 Latitude (decimal): 37.794167
Total Berthing Space (feet): 700 | - | - Longitude (decimal): -122.2917
Waterway: **Inner Harbor Channel** Mile: PWD: 14
Name: **Schnitzer Steel Products Co., 6th Street Pier.**
Port: Oakland
Location: North side, Inner Harbor Channel, between foot of Magnolia and Adeline Streets Datum: MLLW extended.
Operator: Schnitzer Steel Products Co.
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Address: 1101 Embarcadero West. Phone: 510-444-3919
Town: Oakland State: CA County: Alameda
Railway Connection: Trackage serving yard at rear connects with Union Pacific Railroad.
Purpose: Shipment of shredded scrap metal.
Depth Alongside (feet): 36 | 2 - 30 | 2 - 30 Latitude (decimal): 37.794167
Total Berthing Space (feet): 700 | - | - Longitude (decimal): -122.2917
Waterway: **Inner Harbor Channel** Mile: PWD: 14
Name: **Schnitzer Steel Products Co., 6th Street Pier.**
Port: Oakland
Location: North side, Inner Harbor Channel, between foot of Magnolia and Adeline Streets Datum: MLLW extended.
Operator: Schnitzer Steel Products Co.
Owner: Schnitzer Steel Products Co.
Address: 1101 Embarcadero West. Phone: 510-444-3919
Town: Oakland State: CA County: Alameda
Railway Connection: Trackage serving yard at rear connects with Union Pacific Railroad.
Purpose: Shipment of shredded scrap metal.
Depth Alongside (feet): 36 | 2 - 30 | 2 - 30 Latitude (decimal): 37.794167
Total Berthing Space (feet): 700 | - | - Longitude (decimal): -122.2917
Remarks: Vessels using pier breast against face of 7th Street Pier (Ref. No. 13). □□

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82280 San Francisco District

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Remarks: Vessels using pier breast against face of 7th Street Pier (Ref. No. 13). □□

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82280 San Francisco District

Port Facilities by Waterway

Waterway: **Inner Harbor Channel** Mile: PWD: 14
 Name: **Schnitzer Steel Products Co., 6th Street Pier.**
 Port: Oakland
 Location: North side, Inner Harbor Channel, between foot of Magnolia and Adeline Streets Datum: MLLW extended.
 Operator: Schnitzer Steel Products Co.
 Owner: Schnitzer Steel Products Co.
 Address: 1101 Embarcadero West. Phone: 510-444-3919
 Town: Oakland State: CA County: Alameda
 Railway Connection: Trackage serving yard at rear connects with Union Pacific Railroad.
 Purpose: Shipment of shredded scrap metal.
 Depth Alongside (feet): 36 | 2 - 30 | 2 - 30 Latitude (decimal): 37.794167
 Total Berthing Space (feet): 700 | - | - Longitude (decimal): -122.2917
 Waterway: **Inner Harbor Channel** Mile: PWD: 14
 Name: **Schnitzer Steel Products Co., 6th Street Pier.**
 Port: Oakland
 Location: North side, Inner Harbor Channel, between foot of Magnolia and Adeline Streets Datum: MLLW extended.
 Operator: Schnitzer Steel Products Co.
 Owner: Schnitzer Steel Products Co.
 Address: 1101 Embarcadero West. Phone: 510-444-3919
 Town: Oakland State: CA County: Alameda
 Railway Connection: Trackage serving yard at rear connects with Union Pacific Railroad.
 Purpose: Shipment of shredded scrap metal.
 Depth Alongside (feet): 36 | 2 - 30 | 2 - 30 Latitude (decimal): 37.794167
 Total Berthing Space (feet): 700 | - | - Longitude (decimal): -122.2917
 Waterway: **Inner Harbor Channel** Mile: PWD: 14
 Name: **Schnitzer Steel Products Co., 6th Street Pier.**
 Port: Oakland
 Location: North side, Inner Harbor Channel, between foot of Magnolia and Adeline Streets Datum: MLLW extended.
 Operator: Schnitzer Steel Products Co.
 Owner: Schnitzer Steel Products Co.
 Address: 1101 Embarcadero West. Phone: 510-444-3919
 Town: Oakland State: CA County: Alameda
 Railway Connection: Trackage serving yard at rear connects with Union Pacific Railroad.
 Purpose: Shipment of shredded scrap metal.
 Depth Alongside (feet): 36 | 2 - 30 | 2 - 30 Latitude (decimal): 37.794167
 Total Berthing Space (feet): 700 | - | - Longitude (decimal): -122.2917
 Remarks: Vessels using pier breast against face of 7th Street Pier (Ref. No. 13).□□

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82280 San Francisco District

Remarks: Vessels using pier breast against face of 7th Street Pier (Ref. No. 13).□□

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82280 San Francisco District

Remarks: Vessels using pier breast against face of 7th Street Pier (Ref. No. 13).□□

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82280 San Francisco District

Port Facilities by Waterway

Waterway: **Inner Harbor Channel** Mile: PWD: 15
 Name: **Schnitzer Steel Products Co., Bulkhead Wharf.**
 Port: Oakland
 Location: North side, Inner Harbor Channel, between foot of Adeline and Chestnut Streets Datum: MLLW extended.
 Operator: Schnitzer Steel Products Co.
 Owner: Schnitzer Steel Products Co. and Port of Oakland.
 Address: 1101 Embarcadero West. Phone: 510-444-3919
 Town: Oakland State: CA County: Alameda
 Railway Connection: Trackage serving yard at rear connects with Union Pacific Railroad.
 Purpose: Receipt of scrap metal by barge.
 Depth Alongside (feet): 31 | | Latitude (decimal): 37.795278
 Total Berthing Space (feet): 500 | | Longitude (decimal): -122.2894
 Waterway: **Inner Harbor Channel** Mile: PWD: 15
 Name: **Schnitzer Steel Products Co., Bulkhead Wharf.**
 Port: Oakland
 Location: North side, Inner Harbor Channel, between foot of Adeline and Chestnut Streets Datum: MLLW extended.
 Operator: Schnitzer Steel Products Co.
 Owner: Schnitzer Steel Products Co. and Port of Oakland.
 Address: 1101 Embarcadero West. Phone: 510-444-3919
 Town: Oakland State: CA County: Alameda
 Railway Connection: Trackage serving yard at rear connects with Union Pacific Railroad.
 Purpose: Receipt of scrap metal by barge.
 Depth Alongside (feet): 31 | | Latitude (decimal): 37.795278
 Total Berthing Space (feet): 500 | | Longitude (decimal): -122.2894
 Waterway: **Inner Harbor Channel** Mile: PWD: 15
 Name: **Schnitzer Steel Products Co., Bulkhead Wharf.**
 Port: Oakland
 Location: North side, Inner Harbor Channel, between foot of Adeline and Chestnut Streets Datum: MLLW extended.
 Operator: Schnitzer Steel Products Co.
 Owner: Schnitzer Steel Products Co. and Port of Oakland.
 Address: 1101 Embarcadero West. Phone: 510-444-3919
 Town: Oakland State: CA County: Alameda
 Railway Connection: Trackage serving yard at rear connects with Union Pacific Railroad.
 Purpose: Receipt of scrap metal by barge.
 Depth Alongside (feet): 31 | | Latitude (decimal): 37.795278
 Total Berthing Space (feet): 500 | | Longitude (decimal): -122.2894
 Remarks: -□□

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82280 San Francisco District

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Port Facilities by Waterway

Waterway: **Inner Harbor Channel** Mile: PWD: 15
 Name: **Schnitzer Steel Products Co., Bulkhead Wharf.**
 Port: Oakland
 Location: North side, Inner Harbor Channel, between foot of Adeline and Chestnut Streets Datum: MLLW extended.
 Operator: Schnitzer Steel Products Co.
 Owner: Schnitzer Steel Products Co. and Port of Oakland.
 Address: 1101 Embarcadero West. Phone: 510-444-3919
 Town: Oakland State: CA County: Alameda
 Railway Connection: Trackage serving yard at rear connects with Union Pacific Railroad.
 Purpose: Receipt of scrap metal by barge.
 Depth Alongside (feet): 31 | | Latitude (decimal): 37.795278
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 Waterway: **Inner Harbor Channel** Mile: PWD: 15
 Name: **Schnitzer Steel Products Co., Bulkhead Wharf.**
 Port: Oakland
 Location: North side, Inner Harbor Channel, between foot of Adeline and Chestnut Streets Datum: MLLW extended.
 Operator: Schnitzer Steel Products Co.
 Owner: Schnitzer Steel Products Co. and Port of Oakland.
 Address: 1101 Embarcadero West. Phone: 510-444-3919
 Town: Oakland State: CA County: Alameda
 Railway Connection: Trackage serving yard at rear connects with Union Pacific Railroad.
 Purpose: Receipt of scrap metal by barge.
 Depth Alongside (feet): 31 | | Latitude (decimal): 37.795278
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 Waterway: **Inner Harbor Channel** Mile: PWD: 15
 Name: **Schnitzer Steel Products Co., Bulkhead Wharf.**
 Port: Oakland
 Location: North side, Inner Harbor Channel, between foot of Adeline and Chestnut Streets Datum: MLLW extended.
 Operator: Schnitzer Steel Products Co.
 Owner: Schnitzer Steel Products Co. and Port of Oakland.
 Address: 1101 Embarcadero West. Phone: 510-444-3919
 Town: Oakland State: CA County: Alameda
 Railway Connection: Trackage serving yard at rear connects with Union Pacific Railroad.
 Purpose: Receipt of scrap metal by barge.
 Depth Alongside (feet): 31 | | Latitude (decimal): 37.795278
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 Remarks: -□□

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82280 San Francisco District

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Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82280 San Francisco District

Port Facilities by Waterway

Waterway: **Inner Harbor Channel** Mile: PWD: 15
 Name: **Schnitzer Steel Products Co., Bulkhead Wharf.**
 Port: Oakland
 Location: North side, Inner Harbor Channel, between foot of Adeline and Chestnut Streets Datum: MLLW extended.
 Operator: Schnitzer Steel Products Co.
 Owner: Schnitzer Steel Products Co. and Port of Oakland.
 Address: 1101 Embarcadero West. Phone: 510-444-3919
 Town: Oakland State: CA County: Alameda
 Railway Connection: Trackage serving yard at rear connects with Union Pacific Railroad.
 Purpose: Receipt of scrap metal by barge.
 Depth Alongside (feet): 31 | | Latitude (decimal): 37.795278
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 Waterway: **Inner Harbor Channel** Mile: PWD: 15
 Name: **Schnitzer Steel Products Co., Bulkhead Wharf.**
 Port: Oakland
 Location: North side, Inner Harbor Channel, between foot of Adeline and Chestnut Streets Datum: MLLW extended.
 Operator: Schnitzer Steel Products Co.
 Owner: Schnitzer Steel Products Co. and Port of Oakland.
 Address: 1101 Embarcadero West. Phone: 510-444-3919
 Town: Oakland State: CA County: Alameda
 Railway Connection: Trackage serving yard at rear connects with Union Pacific Railroad.
 Purpose: Receipt of scrap metal by barge.
 Depth Alongside (feet): 31 | | Latitude (decimal): 37.795278
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 Waterway: **Inner Harbor Channel** Mile: PWD: 15
 Name: **Schnitzer Steel Products Co., Bulkhead Wharf.**
 Port: Oakland
 Location: North side, Inner Harbor Channel, between foot of Adeline and Chestnut Streets Datum: MLLW extended.
 Operator: Schnitzer Steel Products Co.
 Owner: Schnitzer Steel Products Co. and Port of Oakland.
 Address: 1101 Embarcadero West. Phone: 510-444-3919
 Town: Oakland State: CA County: Alameda
 Railway Connection: Trackage serving yard at rear connects with Union Pacific Railroad.
 Purpose: Receipt of scrap metal by barge.
 Depth Alongside (feet): 31 | | Latitude (decimal): 37.795278
 Total Berthing Space (feet): 500 | | Longitude (decimal): -122.2894
 Remarks: -□□

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82280 San Francisco District

Remarks: -□□

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82280 San Francisco District

Remarks: -□□

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82280 San Francisco District

Port Facilities by Waterway

Waterway: **Inner Harbor Channel** Mile: PWD: 13
 Name: **Schnitzer Steel Products, 7th Street Pier.**
 Port: Oakland
 Location: North side, Inner Harbor Channel, between foot of Magnolia and Adeline Streets Datum: MLLW extended.
 Operator: Schnitzer Steel Products Co.
 Owner: Schnitzer Steel Products Co.
 Address: 1101 Embarcadero West. Phone: 510-444-3919
 Town: Oakland State: CA County: Alameda
 Railway Connection: Trackage serving yard at rear connects with Union Pacific Railroad.
 Purpose: Shipment of ferrous scrap metal.
 Depth Alongside (feet): 36 | | Latitude (decimal): 37.793889
 Total Berthing Space (feet): 875 | | Longitude (decimal): -122.2925
 Waterway: **Inner Harbor Channel** Mile: PWD: 13
 Name: **Schnitzer Steel Products, 7th Street Pier.**
 Port: Oakland
 Location: North side, Inner Harbor Channel, between foot of Magnolia and Adeline Streets Datum: MLLW extended.
 Operator: Schnitzer Steel Products Co.
 Owner: Schnitzer Steel Products Co.
 Address: 1101 Embarcadero West. Phone: 510-444-3919
 Town: Oakland State: CA County: Alameda
 Railway Connection: Trackage serving yard at rear connects with Union Pacific Railroad.
 Purpose: Shipment of ferrous scrap metal.
 Depth Alongside (feet): 36 | | Latitude (decimal): 37.793889
 Total Berthing Space (feet): 875 | | Longitude (decimal): -122.2925
 Waterway: **Inner Harbor Channel** Mile: PWD: 13
 Name: **Schnitzer Steel Products, 7th Street Pier.**
 Port: Oakland
 Location: North side, Inner Harbor Channel, between foot of Magnolia and Adeline Streets Datum: MLLW extended.
 Operator: Schnitzer Steel Products Co.
 Owner: Schnitzer Steel Products Co.
 Address: 1101 Embarcadero West. Phone: 510-444-3919
 Town: Oakland State: CA County: Alameda
 Railway Connection: Trackage serving yard at rear connects with Union Pacific Railroad.
 Purpose: Shipment of ferrous scrap metal.
 Depth Alongside (feet): 36 | | Latitude (decimal): 37.793889
 Total Berthing Space (feet): 875 | | Longitude (decimal): -122.2925
 Remarks: Scrap metal processing plant and 33 acres of open storage area are located in rear of pier and Ref. Nos. 14 and 15. Vessels at berth breast against adjacent pier (Ref. No. 14).

Port Series: 31 Year of Last Survey: 2000 Corps of Engns Waterway Code: 82280 San Francisco District

Remarks: Scrap metal processing plant and 33 acres of open storage area are located in rear of pier and Ref. Nos. 14 and 15. Vessels at berth breast against adjacent pier (Ref. No. 14).

Port Series: 31 Year of Last Survey: 2000 Corps of Engns Waterway Code: 82280 San Francisco District

Port Facilities by Waterway

Remarks: Scrap metal processing plant and 33 acres of open storage area are located in rear of pier and Ref. Nos. 14 and 15. Vessels at berth breast against adjacent pier (Ref. No. 14).

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82280 San Francisco District

Port Facilities by Waterway

Waterway: **Inner Harbor Channel** Mile: PWD: 13
 Name: **Schnitzer Steel Products, 7th Street Pier.**
 Port: Oakland
 Location: North side, Inner Harbor Channel, between foot of Magnolia and Adeline Streets Datum: MLLW extended.
 Operator: Schnitzer Steel Products Co.
 Owner: Schnitzer Steel Products Co.
 Address: 1101 Embarcadero West. Phone: 510-444-3919
 Town: Oakland State: CA County: Alameda
 Railway Connection: Trackage serving yard at rear connects with Union Pacific Railroad.
 Purpose: Shipment of ferrous scrap metal.
 Depth Alongside (feet): 36 | | Latitude (decimal): 37.793889
 Total Berthing Space (feet): 875 | | Longitude (decimal): -122.2925
 Waterway: **Inner Harbor Channel** Mile: PWD: 13
 Name: **Schnitzer Steel Products, 7th Street Pier.**
 Port: Oakland
 Location: North side, Inner Harbor Channel, between foot of Magnolia and Adeline Streets Datum: MLLW extended.
 Operator: Schnitzer Steel Products Co.
 Owner: Schnitzer Steel Products Co.
 Address: 1101 Embarcadero West. Phone: 510-444-3919
 Town: Oakland State: CA County: Alameda
 Railway Connection: Trackage serving yard at rear connects with Union Pacific Railroad.
 Purpose: Shipment of ferrous scrap metal.
 Depth Alongside (feet): 36 | | Latitude (decimal): 37.793889
 Total Berthing Space (feet): 875 | | Longitude (decimal): -122.2925
 Waterway: **Inner Harbor Channel** Mile: PWD: 13
 Name: **Schnitzer Steel Products, 7th Street Pier.**
 Port: Oakland
 Location: North side, Inner Harbor Channel, between foot of Magnolia and Adeline Streets Datum: MLLW extended.
 Operator: Schnitzer Steel Products Co.
 Owner: Schnitzer Steel Products Co.
 Address: 1101 Embarcadero West. Phone: 510-444-3919
 Town: Oakland State: CA County: Alameda
 Railway Connection: Trackage serving yard at rear connects with Union Pacific Railroad.
 Purpose: Shipment of ferrous scrap metal.
 Depth Alongside (feet): 36 | | Latitude (decimal): 37.793889
 Total Berthing Space (feet): 875 | | Longitude (decimal): -122.2925
 Remarks: Scrap metal processing plant and 33 acres of open storage area are located in rear of pier and Ref. Nos. 14 and 15. Vessels at berth breast against adjacent pier (Ref. No. 14).
 Port Series: 31 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82280 San Francisco District

Remarks: Scrap metal processing plant and 33 acres of open storage area are located in rear of pier and Ref. Nos. 14 and 15. Vessels at berth breast against adjacent pier (Ref. No. 14).

Port Series: 31 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82280 San Francisco District

Port Facilities by Waterway

Remarks: Scrap metal processing plant and 33 acres of open storage area are located in rear of pier and Ref. Nos. 14 and 15. Vessels at berth breast against adjacent pier (Ref. No. 14).

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82280 San Francisco District

Port Facilities by Waterway

Waterway: **Inner Harbor Channel** Mile: PWD: 13
 Name: **Schnitzer Steel Products, 7th Street Pier.**
 Port: Oakland
 Location: North side, Inner Harbor Channel, between foot of Magnolia and Adeline Streets Datum: MLLW extended.
 Operator: Schnitzer Steel Products Co.
 Owner: Schnitzer Steel Products Co.
 Address: 1101 Embarcadero West. Phone: 510-444-3919
 Town: Oakland State: CA County: Alameda
 Railway Connection: Trackage serving yard at rear connects with Union Pacific Railroad.
 Purpose: Shipment of ferrous scrap metal.
 Depth Alongside (feet): 36 | | Latitude (decimal): 37.793889
 Total Berthing Space (feet): 875 | | Longitude (decimal): -122.2925
 Waterway: **Inner Harbor Channel** Mile: PWD: 13
 Name: **Schnitzer Steel Products, 7th Street Pier.**
 Port: Oakland
 Location: North side, Inner Harbor Channel, between foot of Magnolia and Adeline Streets Datum: MLLW extended.
 Operator: Schnitzer Steel Products Co.
 Owner: Schnitzer Steel Products Co.
 Address: 1101 Embarcadero West. Phone: 510-444-3919
 Town: Oakland State: CA County: Alameda
 Railway Connection: Trackage serving yard at rear connects with Union Pacific Railroad.
 Purpose: Shipment of ferrous scrap metal.
 Depth Alongside (feet): 36 | | Latitude (decimal): 37.793889
 Total Berthing Space (feet): 875 | | Longitude (decimal): -122.2925
 Waterway: **Inner Harbor Channel** Mile: PWD: 13
 Name: **Schnitzer Steel Products, 7th Street Pier.**
 Port: Oakland
 Location: North side, Inner Harbor Channel, between foot of Magnolia and Adeline Streets Datum: MLLW extended.
 Operator: Schnitzer Steel Products Co.
 Owner: Schnitzer Steel Products Co.
 Address: 1101 Embarcadero West. Phone: 510-444-3919
 Town: Oakland State: CA County: Alameda
 Railway Connection: Trackage serving yard at rear connects with Union Pacific Railroad.
 Purpose: Shipment of ferrous scrap metal.
 Depth Alongside (feet): 36 | | Latitude (decimal): 37.793889
 Total Berthing Space (feet): 875 | | Longitude (decimal): -122.2925
 Remarks: Scrap metal processing plant and 33 acres of open storage area are located in rear of pier and Ref. Nos. 14 and 15. Vessels at berth breast against adjacent pier (Ref. No. 14).
 Port Series: 31 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82280 San Francisco District

Remarks: Scrap metal processing plant and 33 acres of open storage area are located in rear of pier and Ref. Nos. 14 and 15. Vessels at berth breast against adjacent pier (Ref. No. 14).

Port Series: 31 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82280 San Francisco District

Port Facilities by Waterway

Remarks: Scrap metal processing plant and 33 acres of open storage area are located in rear of pier and Ref. Nos. 14 and 15. Vessels at berth breast against adjacent pier (Ref. No. 14).

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82280 San Francisco District

Waterway: **Inner Harbor Channel** Mile: PWD: 39
Name: **Shore Terminals, Richmond Wharf.**
Port: Richmond
Location: North side of junction of Inner Harbor Channel and Santa Fe Channel. Datum: MLLW
Operator: Shore Terminals LLC.
Owner: Shore Terminals LLC.
Address: 488 Wright Avenue. Phone: 510-232-7447
Town: Richmond State: CA County: Contra Costa
Railway Connection: One 3 car capacity surface track serving tank car loading rack at west side of terminal connects with Parr Terminal Railroad, Burlington Northern Santa Fe Railway, and Union Pacific Railroad.
Purpose: Receipt and shipment of petroleum products.
Depth Alongside (feet): 33 | | Latitude (decimal): 37.918056
Total Berthing Space (feet): 700 | | Longitude (decimal): -122.3642
Remarks: Five 10- and one 8-inch pipelines extend from wharf to 25 steel storage tanks, total capacity 618,000 barrels.□

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82300 San Francisco District

Waterway: **Inner Harbor Channel** Mile: PWD: 49
Name: **Tosco Refining Co., Richmond Barge Wharf.**
Port: Richmond
Location: Right bank, Inner Harbor Channel, south of entrance to Santa Fe Channel. Datum: MLLW
Operator: Tosco Refining Co.
Owner: Tosco Refining Co., A Division of Tosco Corp.
Address: 1300 Canal Boulevard. Phone: 510-412-7612
Town: Richmond State: CA County: Contra Costa
Railway Connection: Tracks serving loading racks and warehouse at plant in rear connect with Burlington Northern Santa Fe Railway.
Purpose: Shipment and occasional receipt of petroleum products; loading barges for bunkering vessels at berth.
Depth Alongside (feet): 37 | | Latitude (decimal): 37.916111
Total Berthing Space (feet): 836 | | Longitude (decimal): -122.3656
Remarks: One 6-inch pipeline extends from wharf to one 5,000-barrel-capacity slop tank at rear. Ten 6-inch pipelines extend to storage tanks described under Ref. No. 50. Terminal is connected by pipeline with company-owned refinery at Rodeo, California. (See Ref. No. 63 in the Carquinez Strait section of this report.)

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82300 San Francisco District

Port Facilities by Waterway

Waterway: **Inner Harbor Channel** Mile: PWD: 50
 Name: **Tosco Refining Co., Richmond Tanker Wharf.**
 Port: Richmond
 Location: Right bank, Inner Harbor Channel, approximately 0.1 mile below entrance to Santa Fe Channel. Datum: MLLW
 Operator: Tosco Refining Co. and GATX Terminals Corp.
 Owner: Tosco Refining Co., A Division of Tosco Corp.
 Address: 1300 Canal Boulevard. Phone: 510-412-8810
 Town: Richmond State: CA County: Contra Costa
 Railway Connection: Tracks serving loading racks, and warehouse at plant in rear; connect with Burlington Northern Santa Fe Railway.
 Purpose: Receipt and shipment of petroleum products and liquid bulk products including solvents, vegetable oils, coconut oil, and caustic soda.
 Depth Alongside (feet): 37 | | Latitude (decimal): 37.915
 Total Berthing Space (feet): 836 | | Longitude (decimal): -122.3653
 Remarks: Wharf connected to Barge Wharf (Ref. No. 49) by walkway. Tosco Refining Co.: two 10- and six 8-inch pipelines extend from wharf to 82 steel storage tanks located at rear, total capacity 237,300 barrels. GATX Terminals Corp.: six 8- and sixteen 6-inch pipelines extend from wharf to 135 steel storage tanks located at rear, total capacity 620,000 barrels. Facility is operated as a public liquid bulk terminal.
 Port Series: 31 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82300 San Francisco District

Waterway: **Inner Harbor Channel** Mile: PWD: 29
 Name: **United States Coast Guard, Integrated Support Command Alameda Whar**
 Port: Alameda
 Location: Southwest side of U.S. Coast Guard Island, Inner Harbor Channel. Datum: MLLW
 Operator: United States Coast Guard.
 Owner: U. S. Government.
 Address: Coast Guard Island. Phone: 510-437-3285
 Town: Alameda State: CA County: Alameda
 Railway Connection: None.
 Purpose: Mooring U.S. Coast Guard cutters and other floating equipment.
 Depth Alongside (feet): 29 | | Latitude (decimal): 37.779722
 Total Berthing Space (feet): 1,330 | | Longitude (decimal): -122.2486
 Remarks: U.S. Coast Guard Cutters 'WHEC Boutwell', 'WHEC Munro', 'WHEC Morgenthau', and 'WHEC Sherman' are based at wharf. □
 Port Series: 31 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82280 San Francisco District

Port Facilities by Waterway

Waterway: **Inner Harbor, Brooklyn Basin** Mile: PWD: 22
 Name: **Port of Oakland, Livingston Street Pier.**
 Port: Oakland
 Location: Inner Harbor, north side of Brooklyn Basin, foot of Livingston Street. Datum: MLLW
 Operator: Vortex Diving, Inc.
 Owner: Port of Oakland.
 Address: 1995 Embarcadero. Phone: 510-865-8666
 Town: Oakland State: CA County: Alameda
 Railway Connection: None.
 Purpose: Mooring company-owned floating equipment; handling construction supplies and equipment.
 Depth Alongside (feet): 12 - 14 | 0 - 12 | 0 - 12 Latitude (decimal): 37.78
 Total Berthing Space (feet): 124 | - | 260 Longitude (decimal): -122.2433
 Remarks: Operator engages in marine construction and commercial diving.□□
 Port Series: 31 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82280 San Francisco District

Waterway: **Lauritzen Channel** Mile: PWD: 41
 Name: **Manson Construction Co., Richmond Mooring.**
 Port: Richmond
 Location: Inner end, west side of Lauritzen Canal. Datum: MLLW
 Operator: Manson Construction Co.
 Owner: Jim Peterson and Manson Construction Co.
 Address: 200 Cutting Boulevard. Phone: 510-232-6319
 Town: Richmond State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Mooring company-owned floating equipment.
 Depth Alongside (feet): 10 - 15 | | Latitude (decimal): 37.924167
 Total Berthing Space (feet): 200 | | Longitude (decimal): -122.3672

Waterway: **Lauritzen Channel** Mile: PWD: 41
 Name: **Manson Construction Co., Richmond Mooring.**
 Port: Richmond
 Location: Inner end, west side of Lauritzen Canal. Datum: MLLW
 Operator: Manson Construction Co.
 Owner: Jim Peterson and Manson Construction Co.
 Address: 200 Cutting Boulevard. Phone: 510-232-6319
 Town: Richmond State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Mooring company-owned floating equipment.
 Depth Alongside (feet): 10 - 15 | | Latitude (decimal): 37.924167
 Total Berthing Space (feet): 200 | | Longitude (decimal): -122.3672
 Remarks: -□□

Port Series: 31 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82300 San Francisco District

Remarks: -□□

Port Series: 31 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82300 San Francisco District

Port Facilities by Waterway

Waterway: **Lauritzen Channel** Mile: PWD: 41
 Name: **Manson Construction Co., Richmond Mooring.**
 Port: Richmond
 Location: Inner end, west side of Lauritzen Canal. Datum: MLLW
 Operator: Manson Construction Co.
 Owner: Jim Peterson and Manson Construction Co.
 Address: 200 Cutting Boulevard. Phone: 510-232-6319
 Town: Richmond State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Mooring company-owned floating equipment.
 Depth Alongside (feet): 10 - 15 | Latitude (decimal): 37.924167
 Total Berthing Space (feet): 200 | Longitude (decimal): -122.3672
 Waterway: **Lauritzen Channel** Mile: PWD: 41

Name: **Manson Construction Co., Richmond Mooring.**
 Port: Richmond
 Location: Inner end, west side of Lauritzen Canal. Datum: MLLW
 Operator: Manson Construction Co.
 Owner: Jim Peterson and Manson Construction Co.
 Address: 200 Cutting Boulevard. Phone: 510-232-6319
 Town: Richmond State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Mooring company-owned floating equipment.
 Depth Alongside (feet): 10 - 15 | Latitude (decimal): 37.924167
 Total Berthing Space (feet): 200 | Longitude (decimal): -122.3672
 Remarks: -□□

Port Series: 31 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82300 San Francisco District

Remarks: -□□

Port Series: 31 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82300 San Francisco District

Port Facilities by Waterway

Waterway: **Lauritzen Channel** Mile: PWD: 42
 Name: **Manson Construction Co., Richmond Wharf.**
 Port: Richmond
 Location: West side, Lauritzen Canal, approximately 500 feet above entrance. Datum: MLLW
 Operator: Manson Construction Co.
 Owner: Jim Peterson and Manson Construction Co.
 Address: 200 Cutting Boulevard. Phone: 510-232-6319
 Town: Richmond State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Mooring company-owned floating equipment; handling construction materials, supplies, and equipment.
 Depth Alongside (feet): 15 - 20 | | Latitude (decimal): 37.922778
 Total Berthing Space (feet): 640 | | Longitude (decimal): -122.3675
 Waterway: **Lauritzen Channel** Mile: PWD: 42

Name: **Manson Construction Co., Richmond Wharf.**
 Port: Richmond
 Location: West side, Lauritzen Canal, approximately 500 feet above entrance. Datum: MLLW
 Operator: Manson Construction Co.
 Owner: Jim Peterson and Manson Construction Co.
 Address: 200 Cutting Boulevard. Phone: 510-232-6319
 Town: Richmond State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Mooring company-owned floating equipment; handling construction materials, supplies, and equipment.
 Depth Alongside (feet): 15 - 20 | | Latitude (decimal): 37.922778
 Total Berthing Space (feet): 640 | | Longitude (decimal): -122.3675
 Remarks: Contractor's storage yard is located at rear. □□

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82300 San Francisco District

Remarks: Contractor's storage yard is located at rear. □□

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82300 San Francisco District

Port Facilities by Waterway

Waterway: **Lauritzen Channel** Mile: PWD: 42
 Name: **Manson Construction Co., Richmond Wharf.**
 Port: Richmond
 Location: West side, Lauritzen Canal, approximately 500 feet above entrance. Datum: MLLW
 Operator: Manson Construction Co.
 Owner: Jim Peterson and Manson Construction Co.
 Address: 200 Cutting Boulevard. Phone: 510-232-6319
 Town: Richmond State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Mooring company-owned floating equipment; handling construction materials, supplies, and equipment.
 Depth Alongside (feet): 15 - 20 | | Latitude (decimal): 37.922778
 Total Berthing Space (feet): 640 | | Longitude (decimal): -122.3675
 Waterway: **Lauritzen Channel** Mile: PWD: 42
 Name: **Manson Construction Co., Richmond Wharf.**
 Port: Richmond
 Location: West side, Lauritzen Canal, approximately 500 feet above entrance. Datum: MLLW
 Operator: Manson Construction Co.
 Owner: Jim Peterson and Manson Construction Co.
 Address: 200 Cutting Boulevard. Phone: 510-232-6319
 Town: Richmond State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Mooring company-owned floating equipment; handling construction materials, supplies, and equipment.
 Depth Alongside (feet): 15 - 20 | | Latitude (decimal): 37.922778
 Total Berthing Space (feet): 640 | | Longitude (decimal): -122.3675
 Remarks: Contractor's storage yard is located at rear.□□

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82300 San Francisco District

Remarks: Contractor's storage yard is located at rear.□□

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82300 San Francisco District

Waterway: **Mare Island Strait** Mile: PWD: 80
 Name: **Blue and Gold Fleet, Vallejo Ferry Landing.**
 Port: Carquinez Strait
 Location: Vallejo, east side, Mare Island Strait, foot of Georgia Street extended. Datum: MLLW
 Operator: Blue and Gold Fleet LP.
 Owner: City of Vallejo.
 Address: Phone: 707-643-3779
 Town: Vallejo State: CA County: Solano
 Railway Connection: None.
 Purpose: Landing for passenger ferries serving San Francisco.
 Depth Alongside (feet): 6 | | Latitude (decimal): 38.1
 Total Berthing Space (feet): 90 | | Longitude (decimal): -122.2628
 Remarks: Concrete bulkhead is 700 + 600 feet long on southeast side, and 1,280 feet long on northwest side.
 Passenger ferries operate daily across San Francisco Bay to San Francisco Ferry Building and Fisherman's Wharf (Pier 41). Parking lot is located on opposite side of Mare Island Way.

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82310 San Francisco District

Port Facilities by Waterway

Waterway: **Mare Island Strait** Mile: PWD: 79
 Name: **Kiewit Pacific Co., Vallejo Wharf.**
 Port: Carquinez Strait
 Location: Vallejo, east side, Mare Island Strait, foot of Chestnut Street extended. Datum: MLLW
 Operator: Not operated.
 Owner: City of Vallejo.
 Address: Phone:
 Town: Vallejo State: CA County: Solano
 Railway Connection: One surface track in rear connects with Union Pacific Railroad.
 Purpose: Not used.
 Depth Alongside (feet): 10 | | Latitude (decimal): 38.090556
 Total Berthing Space (feet): 250 | | Longitude (decimal): -122.2528
 Remarks: Wharf was formerly used for handling marine contractor's supplies and equipment.□
 Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82310 San Francisco District

Waterway: **Oakland Outer Harbor** Mile: PWD: 2
 Name: **Port of Oakland, Bay Bridge Terminal, Berths 8, 9 and 10.**
 Port: Oakland
 Location: North and east sides at inner end of Oakland Outer Harbor. Datum: MLLW
 Operator: Amnav Maritime Services; Westar Marine Services; and Port of Oakland.
 Owner: Port of Oakland.
 Address: Phone: 510-627-1450
 Town: Oakland State: CA County: Alameda
 Railway Connection: One surface track at rear connects with Oakland Terminal Railway, Union Pacific Railroad, and Burlington Northern Santa Fe Railway.
 Purpose: Berth 8: Mooring company-owned vessels; mooring vessels.□Berth 10: Dredge material holding ponds.
 Depth Alongside (feet): 35 | 35 | - Latitude (decimal): 37.821667
 Total Berthing Space (feet): 1,000 | 1,200 | 839 Longitude (decimal): -122.31
 Remarks: -□□
 Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82280 San Francisco District

Waterway: **Oakland Outer Harbor** Mile: PWD: 9
 Name: **Port of Oakland, Ben E. Nutter Container Terminal, Berths 35, 37,**
 Port: Oakland
 Location: Outer end, northerly side of Seventh Street Marine Terminal. Datum: MLLW
 Operator: Marine Terminals Corp.
 Owner: Port of Oakland.
 Address: 5190 Seventh Street. Phone: 510-645-2402
 Town: Oakland State: CA County: Alameda
 Railway Connection: None.
 Purpose: Receipt and shipment of containerized general cargo.
 Depth Alongside (feet): 42 | 38 | Latitude (decimal): 37.807222
 Total Berthing Space (feet): 2,351 | 862 | Longitude (decimal): -122.3397
 Remarks: Terminal occupies 58 acres, including 330 outlets for refrigerated cargo containers.□
 Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82280 San Francisco District

Port Facilities by Waterway

Waterway: **Oakland Outer Harbor** Mile: PWD: 1
 Name: **Port of Oakland, Burma Road Terminal, Berth 7.**
 Port: Oakland
 Location: North side at inner end of Oakland Outer Harbor. Datum: MLLW
 Operator: Marine Terminals Corp.
 Owner: Port of Oakland.
 Address: 220 Burma Road. Phone: 510-645-1457
 Town: Oakland State: CA County: Alameda
 Railway Connection: One surface track at rear of transit shed connects with Oakland Terminal Railway, Union Pacific Railroad, and Burlington Northern Santa Fe Railway.
 Purpose: Receipt and shipment of break bulk general cargo, including steel products, roll-on/roll-off cargo, and heavy lift items.
 Depth Alongside (feet): 35 | | Latitude (decimal): 37.82
 Total Berthing Space (feet): 1,459 | | Longitude (decimal): -122.3175
 Remarks: Terminal occupies 29 acres. □□

Port Series: 31 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82280 San Francisco District

Waterway: **Oakland Outer Harbor** Mile: PWD: 4
 Name: **Port of Oakland, Outer Harbor Container Terminal, Berth 23.**
 Port: Oakland
 Location: Southeasterly Oakland Outer Harbor, northeast of foot of Pier Street. Datum: MLLW
 Operator: Yusen Terminals, Inc.
 Owner: Port of Oakland.
 Address: 1195 Maritime Street. Phone: 510-763-1080
 Town: Oakland State: CA County: Alameda
 Railway Connection: One surface track on rear apron connects with Oakland Terminal Railway, Union Pacific Railroad, and Burlington Northern Santa Fe Railway.
 Purpose: Receipt and shipment of containerized general cargo.
 Depth Alongside (feet): 42 | | Latitude (decimal): 37.817222
 Total Berthing Space (feet): 900 | | Longitude (decimal): -122.3156
 Remarks: Face of wharf is in line and contiguous with Ref. Nos. 3 and 5. Terminal occupies 46 acres, including 256 positions for refrigerated cargo containers. □

Port Series: 31 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82280 San Francisco District

Port Facilities by Waterway

Waterway: **Oakland Outer Harbor** Mile: PWD: 5
 Name: **Port of Oakland, Outer Harbor Container Terminal, Berth 24.**
 Port: Oakland
 Location: Southeast side, Oakland Outer Harbor, between foot of Petroleum and Pier Streets Datum: MLLW extended.
 Operator: Maersk Pacific, Ltd.
 Owner: Port of Oakland.
 Address: Phone: 510-835-7500/75
 Town: Oakland State: CA County: Alameda
 Railway Connection: One surface track at rear apron connects with Oakland Terminal Railway, Union Pacific Railroad, and Burlington Northern Santa Fe Railway.
 Purpose: Receipt and shipment of containerized general cargo.
 Depth Alongside (feet): 42 | | Latitude (decimal): 37.814722
 Total Berthing Space (feet): 1,261 | | Longitude (decimal): -122.3178
 Remarks: Face of wharf is in line and contiguous with Ref. Nos. 4 and 6. Terminal occupies 57 acres, including 261 positions for refrigerated cargo containers. □
 Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82280 San Francisco District

Waterway: **Oakland Outer Harbor** Mile: PWD: 7
 Name: **Port of Oakland, Outer Harbor Container Terminal, Berth 30.**
 Port: Oakland
 Location: Outer Harbor, foot of 7th Street. Datum: MLLW
 Operator: Trans Pacific Container Service Corp.
 Owner: Port of Oakland.
 Address: 2800 Seventh Street. Phone: 510-286-8600/86
 Town: Oakland State: CA County: Alameda
 Railway Connection: Surface track on apron connects with Oakland Terminal Railway, Union Pacific Railroad, and Burlington Northern Santa Fe Railway.
 Purpose: Receipt and shipment of containerized general cargo.
 Depth Alongside (feet): 42 | | Latitude (decimal): 37.810278
 Total Berthing Space (feet): 1,075 | | Longitude (decimal): -122.3253
 Remarks: Terminal occupies 33 acres including 282 outlets for refrigerated cargo containers. □
 Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82280 San Francisco District

Port Facilities by Waterway

Waterway: **Oakland Outer Harbor** Mile: PWD: 3
Name: **Port of Oakland, Outer Harbor Container Terminal, Berths 20-21 and**
Port: Oakland
Location: South side, inner end of Oakland Outer Harbor. Datum: MLLW
Operator: Maersk Pacific, Ltd.
Owner: Port of Oakland.
Address: 1425 Maritime Street. Phone: 510-271-1018
Town: Oakland State: CA County: Alameda
Railway Connection: None.
Purpose: Receipt and shipment of containerized general cargo.
Depth Alongside (feet): 42 | | Latitude (decimal): 37.819167
Total Berthing Space (feet): 1,355 | | Longitude (decimal): -122.3108
Remarks: Face of wharf (Berth 22) is in line and contiguous with Ref. No. 4. Terminal occupies 59 acres, including 362 positions for refrigerated cargo containers.□
Port Series: 31 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82280 San Francisco District

Waterway: **Oakland Outer Harbor** Mile: PWD: 6
Name: **Port of Oakland, Outer Harbor Container Terminal, Berths 25 and 26**
Port: Oakland
Location: Southeast side, Oakland Outer Harbor, between foot of Petroleum and Ferry Streets Datum: MLLW extended.
Operator: TransBay Container Terminal Company.
Owner: Port of Oakland.
Address: 2500 Seventh Street. Phone: 510-839-8228 ex
Town: Oakland State: CA County: Alameda
Railway Connection: Surface track at rear of storage area connects with Oakland Terminal Railway, Union Pacific Railroad, and Burlington Northern Santa Fe Railway (Berth 25 only).
Purpose: Receipt and shipment of containerized general cargo.
Depth Alongside (feet): 42 | | Latitude (decimal): 37.811944
Total Berthing Space (feet): 1,138 | | Longitude (decimal): -122.3208
Remarks: Face of wharf is in line and contiguous with Ref. No. 5. Terminal occupies 40 acres, including 288 positions for refrigerated cargo containers.□
Port Series: 31 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82280 San Francisco District

Port Facilities by Waterway

Waterway: **Oakland Outer Harbor** Mile: PWD: 8
 Name: **Port of Oakland, Outer Harbor Container Terminal, Berths 32, 33, a**
 Port: Oakland
 Location: Inner end, northerly side of Seventh Street Marine Terminal. Datum: MLLW
 Operator: Stevedoring Services of America Terminals.
 Owner: Port of Oakland.
 Address: 3050 Seventh Street. Phone: 510-271-9710/98
 Town: Oakland State: CA County: Alameda
 Railway Connection: Surface track on Berths 32 and 33 apron, and one serving CFS, connect with Oakland Terminal Railway, Union Pacific Railroad, and Burlington Northern Santa Fe Railway.
 Purpose: Berths 32 and 33: Receipt and shipment of containerized and heavy lift general cargo. Berth 34: Receipt and shipment of roll-on/roll-off cargo.
 Depth Alongside (feet): 38 | - | 38 Latitude (decimal): 37.810833
 Total Berthing Space (feet): 1,761 | - | 720 Longitude (decimal): -122.3314
 Remarks: Terminal occupies 65 acres including 386 outlets for refrigerated cargo containers. □
 Port Series: 31 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82280 San Francisco District

Waterway: **Oakland South Outer Harbor** Mile: PWD: 10
 Name: **Port of Oakland, Seventh Street Marine Terminal, Berth 40.**
 Port: Oakland
 Location: Outer end, northwest side, Oakland South Outer Harbor. Datum: MLLW
 Operator: Oscar Niemeth Towing, Inc.
 Owner: Port of Oakland.
 Address: 4001 Seventh Street. Phone: 510-893-0231
 Town: Oakland State: CA County: Alameda
 Railway Connection: None.
 Purpose: Mooring company-owned floating equipment.
 Depth Alongside (feet): 35 | | Latitude (decimal): 37.805556
 Total Berthing Space (feet): 440 | | Longitude (decimal): -122.3319
 Remarks: A 160- by 40-foot deck barge is normally moored at face. Dispatch office is located at rear. Plans called for the operator to move to a new facility in 2001.
 Port Series: 31 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82280 San Francisco District

Port Facilities by Waterway

Waterway: **Outer Harbor Channel** Mile: PWD: 60
 Name: **Chevron Products Co., Richmond Long Wharf Mooring Dock.**
 Port: Richmond
 Location: Richmond Outer Harbor, on southeast side of Long Wharf (Ref. No. 59) approach, Datum: MLLW
 275 feet in rear of face
 Operator: Chevron Products Co.
 Owner: Chevron Products Co.
 Address: 841 Chevron Way. Phone: 510-242-3308
 Town: Richmond State: CA County: Contra Costa
 Railway Connection: Tracks serving terminal at rear connect with Burlington Northern Santa Fe Railway and
 Union Pacific Railroad.

Purpose: Mooring tugs.
 Depth Alongside (feet): 15 | 15 | 15 Latitude (decimal): 37.921667
 Total Berthing Space (feet): 451 | 53 | 425 Longitude (decimal): -122.4083
 Waterway: **Outer Harbor Channel** Mile: PWD: 60

Name: **Chevron Products Co., Richmond Long Wharf Mooring Dock.**
 Port: Richmond
 Location: Richmond Outer Harbor, on southeast side of Long Wharf (Ref. No. 59) approach, Datum: MLLW
 275 feet in rear of face
 Operator: Chevron Products Co.
 Owner: Chevron Products Co.
 Address: 841 Chevron Way. Phone: 510-242-3308
 Town: Richmond State: CA County: Contra Costa
 Railway Connection: Tracks serving terminal at rear connect with Burlington Northern Santa Fe Railway and
 Union Pacific Railroad.

Purpose: Mooring tugs.
 Depth Alongside (feet): 15 | 15 | 15 Latitude (decimal): 37.921667
 Total Berthing Space (feet): 451 | 53 | 425 Longitude (decimal): -122.4083
 Remarks: Buildings located along the main wharf approach contain offices. □□

Port Series: 31 Year of Last Survey: 2000 Corps of Engnr's Waterway Code: 82300 San Francisco District

Remarks: Buildings located along the main wharf approach contain offices. □□

Port Series: 31 Year of Last Survey: 2000 Corps of Engnr's Waterway Code: 82300 San Francisco District

Port Facilities by Waterway

Waterway: **Outer Harbor Channel** Mile: PWD: 60
 Name: **Chevron Products Co., Richmond Long Wharf Mooring Dock.**
 Port: Richmond
 Location: Richmond Outer Harbor, on southeast side of Long Wharf (Ref. No. 59) approach, Datum: MLLW
 275 feet in rear of face
 Operator: Chevron Products Co.
 Owner: Chevron Products Co.
 Address: 841 Chevron Way. Phone: 510-242-3308
 Town: Richmond State: CA County: Contra Costa
 Railway Connection: Tracks serving terminal at rear connect with Burlington Northern Santa Fe Railway and
 Union Pacific Railroad.

Purpose: Mooring tugs.
 Depth Alongside (feet): 15 | 15 | 15 Latitude (decimal): 37.921667
 Total Berthing Space (feet): 451 | 53 | 425 Longitude (decimal): -122.4083
 Waterway: **Outer Harbor Channel** Mile: PWD: 60

Name: **Chevron Products Co., Richmond Long Wharf Mooring Dock.**
 Port: Richmond
 Location: Richmond Outer Harbor, on southeast side of Long Wharf (Ref. No. 59) approach, Datum: MLLW
 275 feet in rear of face
 Operator: Chevron Products Co.
 Owner: Chevron Products Co.
 Address: 841 Chevron Way. Phone: 510-242-3308
 Town: Richmond State: CA County: Contra Costa
 Railway Connection: Tracks serving terminal at rear connect with Burlington Northern Santa Fe Railway and
 Union Pacific Railroad.

Purpose: Mooring tugs.
 Depth Alongside (feet): 15 | 15 | 15 Latitude (decimal): 37.921667
 Total Berthing Space (feet): 451 | 53 | 425 Longitude (decimal): -122.4083
 Remarks: Buildings located along the main wharf approach contain offices. □□

Port Series: 31 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82300 San Francisco District

Remarks: Buildings located along the main wharf approach contain offices. □□

Port Series: 31 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82300 San Francisco District

Port Facilities by Waterway

Waterway: **Outer Harbor Channel** Mile: PWD: 59
 Name: **Chevron Products Co., Richmond Long Wharf.**
 Port: Richmond
 Location: Easterly side, Richmond Outer Harbor Maneuvering Area, approximately 0.8 mile south of Richmond-San Rafa Datum: MLLW
 Operator: Chevron Products Co.
 Owner: Chevron Products Co.
 Address: 841 Chevron Way. Phone: 510-242-3308
 Town: Richmond State: CA County: Contra Costa
 Railway Connection: Tracks serving terminal at rear connect with Burlington Northern Santa Fe Railway and Union Pacific Railroad.
 Purpose: Receipt of crude oil; receipt and shipment of petroleum products; bunkering vessels; loading bunkering barges.

Depth Alongside (feet): 40 - 50 | 20 | 20 Latitude (decimal): 37.921944
 Total Berthing Space (feet): 3,065 | 630 | 1,660 Longitude (decimal): -122.4108

Waterway: **Outer Harbor Channel** Mile: PWD: 59
 Name: **Chevron Products Co., Richmond Long Wharf.**
 Port: Richmond
 Location: Easterly side, Richmond Outer Harbor Maneuvering Area, approximately 0.8 mile south of Richmond-San Rafa Datum: MLLW
 Operator: Chevron Products Co.
 Owner: Chevron Products Co.
 Address: 841 Chevron Way. Phone: 510-242-3308
 Town: Richmond State: CA County: Contra Costa
 Railway Connection: Tracks serving terminal at rear connect with Burlington Northern Santa Fe Railway and Union Pacific Railroad.
 Purpose: Receipt of crude oil; receipt and shipment of petroleum products; bunkering vessels; loading bunkering barges.

Depth Alongside (feet): 40 - 50 | 20 | 20 Latitude (decimal): 37.921944
 Total Berthing Space (feet): 3,065 | 630 | 1,660 Longitude (decimal): -122.4108

Remarks: Tankers and barges berth at face, and barges at rear of face. One 36-, one 30-, two 16-, fourteen 12-, nine 8-, five 6-, and two 4-inch pipelines extend from wharf to approximately 350 steel storage tanks at refinery in rear; total capacity 20,280,000 barrels.

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82300 San Francisco District

Remarks: Tankers and barges berth at face, and barges at rear of face. One 36-, one 30-, two 16-, fourteen 12-, nine 8-, five 6-, and two 4-inch pipelines extend from wharf to approximately 350 steel storage tanks at refinery in rear; total capacity 20,280,000 barrels.

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82300 San Francisco District

Port Facilities by Waterway

Waterway: **Outer Harbor Channel** Mile: PWD: 59
 Name: **Chevron Products Co., Richmond Long Wharf.**
 Port: Richmond
 Location: Easterly side, Richmond Outer Harbor Maneuvering Area, approximately 0.8 mile south of Richmond-San Rafa Datum: MLLW
 Operator: Chevron Products Co.
 Owner: Chevron Products Co.
 Address: 841 Chevron Way. Phone: 510-242-3308
 Town: Richmond State: CA County: Contra Costa
 Railway Connection: Tracks serving terminal at rear connect with Burlington Northern Santa Fe Railway and Union Pacific Railroad.
 Purpose: Receipt of crude oil; receipt and shipment of petroleum products; bunkering vessels; loading bunkering barges.

Depth Alongside (feet): 40 - 50 | 20 | 20 Latitude (decimal): 37.921944
 Total Berthing Space (feet): 3,065 | 630 | 1,660 Longitude (decimal): -122.4108

Waterway: **Outer Harbor Channel** Mile: PWD: 59
 Name: **Chevron Products Co., Richmond Long Wharf.**
 Port: Richmond
 Location: Easterly side, Richmond Outer Harbor Maneuvering Area, approximately 0.8 mile south of Richmond-San Rafa Datum: MLLW
 Operator: Chevron Products Co.
 Owner: Chevron Products Co.
 Address: 841 Chevron Way. Phone: 510-242-3308
 Town: Richmond State: CA County: Contra Costa
 Railway Connection: Tracks serving terminal at rear connect with Burlington Northern Santa Fe Railway and Union Pacific Railroad.
 Purpose: Receipt of crude oil; receipt and shipment of petroleum products; bunkering vessels; loading bunkering barges.

Depth Alongside (feet): 40 - 50 | 20 | 20 Latitude (decimal): 37.921944
 Total Berthing Space (feet): 3,065 | 630 | 1,660 Longitude (decimal): -122.4108

Remarks: Tankers and barges berth at face, and barges at rear of face. One 36-, one 30-, two 16-, fourteen 12-, nine 8-, five 6-, and two 4-inch pipelines extend from wharf to approximately 350 steel storage tanks at refinery in rear; total capacity 20,280,000 barrels.

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82300 San Francisco District

Remarks: Tankers and barges berth at face, and barges at rear of face. One 36-, one 30-, two 16-, fourteen 12-, nine 8-, five 6-, and two 4-inch pipelines extend from wharf to approximately 350 steel storage tanks at refinery in rear; total capacity 20,280,000 barrels.

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82300 San Francisco District

Port Facilities by Waterway

Waterway: **Redwood Creek** Mile: PWD: 51
Name: **Cargill Salt, Redwood City Wharf.**
Port: Redwood City
Location: Left bank, Boundary Slough at junction with Redwood Creek. Datum: MLLW
Operator: Cargill Salt, Division of Cargill, Inc.
Owner: Cargill Salt, Division of Cargill, Inc.
Address: 295 Seaport Boulevard. Phone: 510-790-8154
Town: Redwood City State: CA County: San Mateo
Railway Connection: None.
Purpose: Shipment of crude bulk salt by vessel and barge.
Depth Alongside (feet): 30 | | Latitude (decimal): 37.504444
Total Berthing Space (feet): 620 | | Longitude (decimal): -122.2153
Remarks: Open storage area located at rear has capacity for 500,000 tons of salt. □□
Port Series: 30 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82238 San Francisco District

Waterway: **Redwood Creek** Mile: PWD: 52
Name: **Marine Science Institute, Redwood City Pier.**
Port: Redwood City
Location: Right bank, Redwood Creek, approximately 1,000 feet above junction with Boundary Slough. Datum: MLLW
Operator: Marine Science Institute.
Owner: Cargill Salt, Division of Cargill, Inc.
Address: 500 Discovery Parkway. Phone: 650-364-2760
Town: Redwood City State: CA County: San Mateo
Railway Connection: None.
Purpose: Mooring oceanographic research vessel.
Depth Alongside (feet): 7 | | Latitude (decimal): 37.505
Total Berthing Space (feet): 85 | | Longitude (decimal): -122.2186
Remarks: Research vessel Robert G. Brownlee is based at wharf. □□
Port Series: 30 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82238 San Francisco District

Port Facilities by Waterway

Waterway: **Redwood Creek** Mile: PWD: 48
 Name: **Port of Redwood City, Wharf No. 3.**
 Port: Redwood City
 Location: Right bank, Redwood Creek, approximately 2.4 miles above mouth. Datum: MLLW
 Operator: Simsmetal America; Bell Marine Co., Inc.; and Pabco Gypsum.
 Owner: Port of Redwood City.
 Address: Phone: 650-369-4161
 Town: Redwood City State: CA County: San Mateo
 Railway Connection: Two surface tracks along shore in rear connect with tracks of Union Pacific Railroad.
 Purpose: Receipt of bauxite, mill scale, gypsum, and sand; shipment of scrap metal.
 Depth Alongside (feet): 34 | | Latitude (decimal): 37.511667
 Total Berthing Space (feet): 750 | | Longitude (decimal): -122.2111
 Remarks: Dolphins are in line with face of adjacent Wharf No. 4 (Ref. No. 49), providing continuous berthing of 1,100 feet. Simsmetal America: Open storage area at rear has capacity for 50,000 tons of scrap metal. Pabco Gypsum: Approximately 2 acres of open storage area at rear have capacity for 60,000 tons of gypsum.

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82238 San Francisco District

Waterway: **Redwood Creek** Mile: PWD: 49
 Name: **Port of Redwood City, Wharf No. 4.**
 Port: Redwood City
 Location: Right bank, Redwood Creek, approximately 2.6 miles above mouth. Datum: MLLW
 Operator: U.S. Geological Survey, Department of Interior.
 Owner: Port of Redwood City.
 Address: Phone:
 Town: Redwood City State: CA County: San Mateo
 Railway Connection: None.
 Purpose: Mooring oceanographic research vessels.
 Depth Alongside (feet): 34 | | Latitude (decimal): 37.509444
 Total Berthing Space (feet): 400 | | Longitude (decimal): -122.2119
 Remarks: Research and survey vessels are stationed at wharf.

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82238 San Francisco District

Port Facilities by Waterway

Waterway: **Redwood Creek** Mile: PWD: 50
 Name: **Port of Redwood City, Wharf No. 5.**
 Port: Redwood City
 Location: Right bank, Redwood Creek, approximately 2.8 miles above mouth. Datum: MLLW
 Operator: Port of Redwood City.
 Owner: Port of Redwood City.
 Address: Phone: 650-306-4150
 Town: Redwood City State: CA County: San Mateo
 Railway Connection: One surface track serving open storage area at rear; connects with tracks of Union Pacific Railroad.
 Purpose: Mooring cruise vessels; passengers.
 Depth Alongside (feet): 34 | | Latitude (decimal): 37.506944
 Total Berthing Space (feet): 500 | | Longitude (decimal): -122.2122
 Remarks: Five 10-inch pipelines extending from wharf to 9 steel storage tanks at terminal in rear, total capacity 357,000 barrels, were not in use at time of survey (1999).
 Port Series: 30 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82238 San Francisco District

Waterway: **Redwood Creek** Mile: PWD: 47
 Name: **Port of Redwood City, Wharves Nos. 1 and 2.**
 Port: Redwood City
 Location: Right bank, Redwood Creek, approximately 2.3 miles above mouth. Datum: MLLW
 Operator: Hanson Permanente Cement, Inc.; RMC Pacific Materials; and Bell Marine Co., Inc.
 Owner: Port of Redwood City.
 Address: Phone: 650-367-0188
 Town: Redwood City State: CA County: San Mateo
 Railway Connection: Surface track serving transit shed connects with tracks Union Pacific Railroad.
 Purpose: Receipt of sand and bulk cement.
 Depth Alongside (feet): 32 | | Latitude (decimal): 37.513056
 Total Berthing Space (feet): 930 | | Longitude (decimal): -122.2097
 Remarks: Hanson Permanente Cement, Inc.: Two 10-inch pneumatic pipelines extending from wharf to 6 cement storage silos and 3 interstices at rear, total capacity 10,960 tons, were not in use at time of survey (1999). RMC Pacific Materials: Two 12-inch pneumatic pipelines extend from wharf to 12 concrete silos with 6 interstices at rear, total capacity 58,000 tons, rate 250 tons per hour. Approximately 3 acres of open storage area with capacity for 25,000 tons of sand is located at rear. □ Bell Marine Co., Inc.: Open storage area located at rear has capacity for approximately 60,000 tons of sand. At time of survey (1999), plans called for the construction of a 70- by 40-foot concrete platform and four additional breasting dolphins to be located on lower side of wharf; platform will have one 130- by 25-foot approach; and for the installation of a new cement unloader having an 18-inch, covered, air slide conveyor extending to storage silos at rear, unloading rate 800 tons per hour.
 Port Series: 30 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82238 San Francisco District

Port Facilities by Waterway

Waterway: **San Francisco Bay** Mile: PWD: 45
Name: **Allemand Brothers Boat Repair Pier.**
Port: San Francisco
Location: Southwest side, India Basin. Datum: MLLW
Operator: Allemand Brothers Boat Repair.
Owner: Allemand Brothers Boat Repair.
Address: Phone: 415-824-8597
Town: San Francisco State: CA County: San Francisco
Railway Connection: None.
Purpose: Mooring small vessels for repair.
Depth Alongside (feet): 4 - 0 | | Latitude (decimal): 37.733056
Total Berthing Space (feet): 280 | | Longitude (decimal): -122.3744
Remarks: Two 50-ton marine railways are located adjacent to inner end of lower side of pier. □
Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

Waterway: **San Francisco Bay** Mile: PWD: 11
Name: **Blue and Gold Fleet, Pier No. 39, West Marina Excursion Boat Docks**
Port: San Francisco
Location: San Francisco Bay, foot of Stockton Street. Datum: MLLW
Operator: Blue and Gold Fleet LP.
Owner: Port of San Francisco.
Address: Phone: 415-559-0217
Town: San Francisco State: CA County: San Francisco
Railway Connection: None.
Purpose: Landing for San Francisco Bay excursion boats.
Depth Alongside (feet): 9 - 10 | 9 - 10 | 9 - 10 Latitude (decimal): 37.808889
Total Berthing Space (feet): 85 | 70 | 180 Longitude (decimal): -122.4097
Remarks: Pier No. 39 has been withdrawn from maritime use. One 3-inch sewage line serves each berth. Plans call for the installation of a second steel float parallel to and west of existing steel float. Pacific Marine Yachts operates excursion vessels at marina located on east side of Pier No. 39. Forbes Island shuttle operates from east float.
Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

Port Facilities by Waterway

Waterway: **San Francisco Bay** Mile: PWD: 10
 Name: **Blue and Gold Fleet, Pier No. 41 Ferry and Excursion Boat Docks.**
 Port: San Francisco
 Location: San Francisco Bay, east of foot of Powell Street. Datum: MLLW
 Operator: Blue and Gold Fleet LP.
 Owner: Blue and Gold Fleet LP.
 Address: Phone: 415-559-0217
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Landing for excursion boats to Alcatraz Island; landing for passenger ferries serving Tiburon, Sausalito, Vallejo, Oakland/Alameda, and Angel Island.
 Depth Alongside (feet): 12 - 15 | 12 - 15 | Latitude (decimal): 37.809444
 Total Berthing Space (feet): 160 | 160 | Longitude (decimal): -122.4117
 Remarks: Dispatch and ticket offices are located in building at rear. Approximately 12 vessels use landings at this dock, and landings at Pier No. 39 (P.W.D. Ref. No. 11) as required. Company-owned boats are fueled via fuel line from one 10,000 gallon steel storage tank at rear. One 3-inch sewer connection to city sewer line serves each berth.

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

Waterway: **San Francisco Bay** Mile: PWD: 61
 Name: **Chevron Products Co., Richmond Point Orient Wharf.**
 Port: Richmond
 Location: San Francisco Bay, Richmond Outer Harbor; Point Orient, approximately 1.8 miles north of Richmond-San Ra Datum: MLLW
 Operator: Not operated.
 Owner: Chevron Products Co.
 Address: Phone: 510-242-3308
 Town: Richmond State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Not used.
 Depth Alongside (feet): 36 | 18 | 36 Latitude (decimal): 37.955556
 Total Berthing Space (feet): 504 | 464 | 60, Longitude (decimal): -122.4283
 Remarks: All pipelines have been disconnected at wharf. □ □

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82300 San Francisco District

Port Facilities by Waterway

Waterway: **San Francisco Bay** Mile: PWD: 6
 Name: **Fisherman's Wharf, East Mooring Basin.**
 Port: San Francisco
 Location: San Francisco Bay, between foot of Jones and Taylor Streets extended. Datum: MLLW
 Operator: Port of San Francisco.
 Owner: Port of San Francisco.
 Address: Phone: 415-274-0513
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Receipt of seafood (Wharf J-6); mooring fishing, sport fishing and excursion vessels.
 Depth Alongside (feet): 12 | 8 - 12 | 12 Latitude (decimal): 37.808611
 Total Berthing Space (feet): 28* | 24* | 25+ Longitude (decimal): -122.4156
 Remarks: Old Wharf Smokehouse receives seafood at building on east side of of Wharf J-6. Entrance to basin is approximately 120 feet wide.□

Port Series: 30 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82202 San Francisco District

Waterway: **San Francisco Bay** Mile: PWD: 4
 Name: **Fisherman's Wharf, West Mooring Basin.**
 Port: San Francisco
 Location: San Francisco Bay, between foot of Hyde and Jones Streets extended. Datum: MLLW
 Operator: Various operators (See Remarks.)
 Owner: Port of San Francisco.
 Address: Phone: 415-274-0513
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Receipt of seafood; mooring fishing vessels.
 Depth Alongside (feet): 14 | 12 - 14 | 12 Latitude (decimal): 37.808611
 Total Berthing Space (feet): 391 | 26 | 40 Longitude (decimal): -122.4183
 Remarks: California Shell Fish Co. and Alioto-Lazio Fish Co. have facilities for receiving and processing seafood on south side of the basin (Wharf J-10). Boat stalls are leased to individual vessel operators. Entrance to basin is approximately 85 feet wide.

Port Series: 30 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82202 San Francisco District

Waterway: **San Francisco Bay** Mile: PWD: 5
 Name: **Fisherman's Wharf, Wharf J-7.**
 Port: San Francisco
 Location: San Francisco Bay, between foot of Hyde and Jones Streets extended. Datum: MLLW
 Operator: Port of San Francisco.
 Owner: Port of San Francisco.
 Address: Phone: 415-274-0513
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Receipt of seafood; mooring fishing vessels.
 Depth Alongside (feet): 14 | | Latitude (decimal): 37.809167
 Total Berthing Space (feet): 481 | | Longitude (decimal): -122.4178
 Remarks: Scoma's, Inc. receives seafood at building on outer end of Wharf J-7.□□

Port Series: 30 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82202 San Francisco District

Port Facilities by Waterway

Waterway: **San Francisco Bay** Mile: PWD: 62
 Name: **Port of Richmond, Terminal No. 4 Wharf.**
 Port: Richmond
 Location: San Francisco Bay, Richmond Outer Harbor, Point San Pablo, approximately 2.1 miles north of Richmond-San Datum: MLLW
 Operator: Paktank Corp.
 Owner: City of Richmond.
 Address: 2101 Western Drive. Phone: 510-233-0418
 Town: Richmond State: CA County: Contra Costa
 Railway Connection: Two surface tracks on north side of Western Avenue, one serving tank car loading racks; connect with Burlington Northern Santa Fe Railway and Union Pacific Railroad.
 Purpose: Receipt and shipment of liquid bulk products, including petroleum products, petrochemicals, chemicals, and vegetable oils.
 Depth Alongside (feet): 35 | | 32 Latitude (decimal): 37.963056
 Total Berthing Space (feet): 1,047 | - | - Longitude (decimal): -122.4294
 Remarks: One 12-, one 10-, seventeen 6-, and one 4-inch pipelines extend from wharf to 79 storage tanks located at rear, total capacity 504,500 barrels. Facility is operated as a public liquid bulk terminal.
 Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82300 San Francisco District

Waterway: **San Francisco Bay** Mile: PWD: 44
 Name: **Port of San Francisco Barge Mooring.**
 Port: San Francisco
 Location: San Francisco Bay, North side of India Basin. Datum: MLLW
 Operator: Not operated.
 Owner: Port of San Francisco.
 Address: Phone: 415-274-0572
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: One 400-foot, platform-level track at rear of transit shed joins additional terminal trackage; connect with tracks of Union Pacific Railroad.
 Purpose: Not used.
 Depth Alongside (feet): 6 | | Latitude (decimal): 37.739722
 Total Berthing Space (feet): 1,500 | | Longitude (decimal): -122.3703
 Remarks: Canopy extends 75 feet from transit shed covering apron and loading area. Adjacent lighted storage basin is formed by an angular, timber pile, timber-decked, wave absorber pier extending from, thence parallel to face.
 Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

Port Facilities by Waterway

Waterway: **San Francisco Bay** Mile: PWD: 23
 Name: **Port of San Francisco Ferry Plaza Inner Ferry Landing.**
 Port: San Francisco
 Location: San Francisco Bay, foot of Market Street extended. Datum: MLLW
 Operator: Golden Gate Bridge, Highway and Transportation District, Ferry Division.
 Owner: Port of San Francisco.
 Address: Phone: 415-925-5575/92
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Landing for passenger ferries serving Sausalito and Larkspur.
 Depth Alongside (feet): 15 | | Latitude (decimal): 37.795833
 Total Berthing Space (feet): 142 | | Longitude (decimal): -122.3919
 Waterway: **San Francisco Bay** Mile: PWD: 23
 Name: **Port of San Francisco Ferry Plaza Inner Ferry Landing.**
 Port: San Francisco
 Location: San Francisco Bay, foot of Market Street extended. Datum: MLLW
 Operator: Golden Gate Bridge, Highway and Transportation District, Ferry Division.
 Owner: Port of San Francisco.
 Address: Phone: 415-925-5575/92
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Landing for passenger ferries serving Sausalito and Larkspur.
 Depth Alongside (feet): 15 | | Latitude (decimal): 37.795833
 Total Berthing Space (feet): 142 | | Longitude (decimal): -122.3919
 Remarks: See Remarks, Ref. No. 22.□□

Port Series: 30 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82202 San Francisco District

Remarks: See Remarks, Ref. No. 22.□□

Port Series: 30 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82202 San Francisco District

Port Facilities by Waterway

Waterway: **San Francisco Bay** Mile: PWD: 23
 Name: **Port of San Francisco Ferry Plaza Inner Ferry Landing.**
 Port: San Francisco
 Location: San Francisco Bay, foot of Market Street extended. Datum: MLLW
 Operator: Golden Gate Bridge, Highway and Transportation District, Ferry Division.
 Owner: Port of San Francisco.
 Address: Phone: 415-925-5575/92
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Landing for passenger ferries serving Sausalito and Larkspur.
 Depth Alongside (feet): 15 | | Latitude (decimal): 37.795833
 Total Berthing Space (feet): 142 | | Longitude (decimal): -122.3919

Waterway: **San Francisco Bay** Mile: PWD: 23
 Name: **Port of San Francisco Ferry Plaza Inner Ferry Landing.**
 Port: San Francisco
 Location: San Francisco Bay, foot of Market Street extended. Datum: MLLW
 Operator: Golden Gate Bridge, Highway and Transportation District, Ferry Division.
 Owner: Port of San Francisco.
 Address: Phone: 415-925-5575/92
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Landing for passenger ferries serving Sausalito and Larkspur.
 Depth Alongside (feet): 15 | | Latitude (decimal): 37.795833
 Total Berthing Space (feet): 142 | | Longitude (decimal): -122.3919
 Remarks: See Remarks, Ref. No. 22.□□

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

Remarks: See Remarks, Ref. No. 22.□□

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

Port Facilities by Waterway

Waterway: **San Francisco Bay** Mile: PWD: 22
 Name: **Port of San Francisco Ferry Plaza Outer Ferry Landing.**
 Port: San Francisco
 Location: San Francisco Bay, foot of Market Street extended. Datum: MLLW
 Operator: Golden Gate Bridge, Highway and Transportation District, Ferry Division.
 Owner: Port of San Francisco.
 Address: Phone: 415-925-5575/92
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Landing for passenger ferries serving Sausalito and Larkspur.
 Depth Alongside (feet): 15 | | Latitude (decimal): 37.796111
 Total Berthing Space (feet): 78 | | Longitude (decimal): -122.3917
 Waterway: **San Francisco Bay** Mile: PWD: 22

Name: **Port of San Francisco Ferry Plaza Outer Ferry Landing.**
 Port: San Francisco
 Location: San Francisco Bay, foot of Market Street extended. Datum: MLLW
 Operator: Golden Gate Bridge, Highway and Transportation District, Ferry Division.
 Owner: Port of San Francisco.
 Address: Phone: 415-925-5575/92
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Landing for passenger ferries serving Sausalito and Larkspur.
 Depth Alongside (feet): 15 | | Latitude (decimal): 37.796111
 Total Berthing Space (feet): 78 | | Longitude (decimal): -122.3917
 Remarks: This and adjacent landing (Ref. No. 23) extend from lower side of concrete pile, concrete-decked, Ferry Building Pier, designated as Ferry Plaza. Passenger waiting rooms are located at rear. Current Port of San Francisco offices are located in Ferry Building at inner end.

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

Remarks: This and adjacent landing (Ref. No. 23) extend from lower side of concrete pile, concrete-decked, Ferry Building Pier, designated as Ferry Plaza. Passenger waiting rooms are located at rear. Current Port of San Francisco offices are located in Ferry Building at inner end.

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

Port Facilities by Waterway

Waterway: **San Francisco Bay** Mile: PWD: 22
 Name: **Port of San Francisco Ferry Plaza Outer Ferry Landing.**
 Port: San Francisco
 Location: San Francisco Bay, foot of Market Street extended. Datum: MLLW
 Operator: Golden Gate Bridge, Highway and Transportation District, Ferry Division.
 Owner: Port of San Francisco.
 Address: Phone: 415-925-5575/92
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Landing for passenger ferries serving Sausalito and Larkspur.
 Depth Alongside (feet): 15 | | Latitude (decimal): 37.796111
 Total Berthing Space (feet): 78 | | Longitude (decimal): -122.3917

Waterway: **San Francisco Bay** Mile: PWD: 22
 Name: **Port of San Francisco Ferry Plaza Outer Ferry Landing.**
 Port: San Francisco
 Location: San Francisco Bay, foot of Market Street extended. Datum: MLLW
 Operator: Golden Gate Bridge, Highway and Transportation District, Ferry Division.
 Owner: Port of San Francisco.
 Address: Phone: 415-925-5575/92
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Landing for passenger ferries serving Sausalito and Larkspur.
 Depth Alongside (feet): 15 | | Latitude (decimal): 37.796111
 Total Berthing Space (feet): 78 | | Longitude (decimal): -122.3917

Remarks: This and adjacent landing (Ref. No. 23) extend from lower side of concrete pile, concrete-decked, Ferry Building Pier, designated as Ferry Plaza. Passenger waiting rooms are located at rear. Current Port of San Francisco offices are located in Ferry Building at inner end.

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

Remarks: This and adjacent landing (Ref. No. 23) extend from lower side of concrete pile, concrete-decked, Ferry Building Pier, designated as Ferry Plaza. Passenger waiting rooms are located at rear. Current Port of San Francisco offices are located in Ferry Building at inner end.

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

Port Facilities by Waterway

Waterway: **San Francisco Bay** Mile: PWD: 21
 Name: **Port of San Francisco Golden Gate Ferry Slip, Pier 1/2.**
 Port: San Francisco
 Location: San Francisco Bay, foot of Washington Street extended. Datum: MLLW
 Operator: Red and White Fleet; Blue and Gold Fleet LP; Harbor Bay Maritime; and Vallejo Baylink
 Owner: Port of San Francisco.
 Address: Phone: 415-559-0217
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Landing for passenger ferries serving Tiburon, Oakland/Alameda, Richmond, and Vallejo.
 Depth Alongside (feet): 12 | | Latitude (decimal): 37.796667
 Total Berthing Space (feet): 140 | | Longitude (decimal): -122.3928
 Remarks: Plans call for the Port of San Francisco to move from the Ferry Building to an office building on Pier 1 in 2001. □

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

Waterway: **San Francisco Bay** Mile: PWD: 18
 Name: **Port of San Francisco Pier No. 19.**
 Port: San Francisco
 Location: San Francisco Bay, foot of Filbert Street extended. Datum: MLLW
 Operator: Not operated.
 Owner: Port of San Francisco.
 Address: Phone: 415-391-0176
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Not used for handling waterborne commerce.
 Depth Alongside (feet): 12 | 8 - 12 | 8 - 12 Latitude (decimal): 37.803333
 Total Berthing Space (feet): 153 | 638 | 800 Longitude (decimal): -122.3972
 Remarks: See Remarks under Pier No. 23 (Ref. No. 17). □□

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

Waterway: **San Francisco Bay** Mile: PWD: 24
 Name: **Port of San Francisco Pier No. 22 1/2.**
 Port: San Francisco
 Location: San Francisco Bay, below foot of Harrison Street extended. Datum: MLLW
 Operator: San Francisco Fire Department.
 Owner: Port of San Francisco.
 Address: Phone: 415-558-3235
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Mooring fireboat 'Phoenix'.
 Depth Alongside (feet): 15 | 15 | Latitude (decimal): 37.790278
 Total Berthing Space (feet): 115 | - | Longitude (decimal): -122.3878
 Remarks: Fire Department Station 35 is located at rear. □□

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

Port Facilities by Waterway

Waterway: **San Francisco Bay** Mile: PWD: 17
 Name: **Port of San Francisco Pier No. 23.**
 Port: San Francisco
 Location: San Francisco Bay, foot of Greenwich Street extended. Datum: MLLW
 Operator: Not operated.
 Owner: Port of San Francisco.
 Address: Phone: 415-391-0176
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Not used for handling waterborne commerce.
 Depth Alongside (feet): 12 | 12 | 12 Latitude (decimal): 37.804167
 Total Berthing Space (feet): 160 | 700 | 638 Longitude (decimal): -122.3986
 Remarks: Transit shed on pier is connected to transit shed serving Pier No. 19 (Ref. No. 18) via headhouse shed at rear of bulkhead. Transit sheds are designated as Foreign Trade Zone No. 3, and operated by Foreign Trade Services, Inc. (S.W. Ref. No. 1.)

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

Waterway: **San Francisco Bay** Mile: PWD: 25
 Name: **Port of San Francisco Pier No. 24.**
 Port: San Francisco
 Location: San Francisco Bay, foot of Harrison Street extended. Datum: MLLW
 Operator: San Francisco Fire Department.
 Owner: Port of San Francisco.
 Address: Phone: 415-558-3235
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Mooring fireboat 'Guardian'.
 Depth Alongside (feet): 15 | 15 | 15 Latitude (decimal): 37.790278
 Total Berthing Space (feet): - | 760 | 666 Longitude (decimal): -122.3844
 Remarks: A San Francisco-Oakland Bay Bridge pier is located at face of pier. Pier was in poor condition at time of survey (1999). Fireboat is moored at inner end of lower side.

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

Port Facilities by Waterway

Waterway: **San Francisco Bay** Mile: PWD: 26
 Name: **Port of San Francisco Pier No. 26.**
 Port: San Francisco
 Location: San Francisco Bay, above foot of Harrison Street extended. Datum: MLLW
 Operator: Not operated.
 Owner: Port of San Francisco.
 Address: Phone: 415-274-0572
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Not used for handling waterborne commerce.
 Depth Alongside (feet): 12 - 14 | 12 - 14 | 12 - 14 Latitude (decimal): 37.789722
 Total Berthing Space (feet): 200 | 620 | 635 Longitude (decimal): -122.3842
 Remarks: Bulkhead shed is located at rear of 193-foot bulkhead on lower side. Transit sheds on Pier Nos. 24, 26, and 28 are connected by bulkhead sheds.□

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

Waterway: **San Francisco Bay** Mile: PWD: 16
 Name: **Port of San Francisco Pier No. 27.**
 Port: San Francisco
 Location: San Francisco Bay, above foot of Chestnut Street extended. Datum: MLLW
 Operator: Port of San Francisco.
 Owner: Port of San Francisco.
 Address: Phone: 415-274-0572
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Mooring vessels.
 Depth Alongside (feet): 18 - 33 | 33 | Latitude (decimal): 37.805278
 Total Berthing Space (feet): 1,358 | 266 | Longitude (decimal): -122.4003
 Remarks: Maritime Administration, U.S. Department of Transportation utilizes Pier No. 27 as a lay berth. Outer end of pier and transit shed are connected with those on Pier No. 27 (Ref. No. 15). Transit shed has been withdrawn from maritime use.

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

Waterway: **San Francisco Bay** Mile: PWD: 27
 Name: **Port of San Francisco Pier No. 28.**
 Port: San Francisco
 Location: San Francisco Bay, foot of Bryant Street extended. Datum: MLLW
 Operator: Not operated.
 Owner: Port of San Francisco.
 Address: Phone: 415-274-0572
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Not used for handling waterborne commerce.
 Depth Alongside (feet): 20 | 14 - 20 | 16 - 20 Latitude (decimal): 37.788333
 Total Berthing Space (feet): 150 | 541 | 680 Longitude (decimal): -122.3839
 Remarks: -□□

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

Port Facilities by Waterway

Waterway: **San Francisco Bay** Mile: PWD: 15
 Name: **Port of San Francisco Pier No. 29.**
 Port: San Francisco
 Location: San Francisco Bay, below foot of Chestnut Street extended. Datum: MLLW
 Operator: Not operated.
 Owner: Port of San Francisco.
 Address: Phone: 415-274-0572
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Not used for handling waterborne commerce.
 Depth Alongside (feet): 16 - 33 | | Latitude (decimal): 37.807222
 Total Berthing Space (feet): 801 | | Longitude (decimal): -122.4006
 Remarks: Outer end of pier and transit shed are connected with those on Pier No. 27 (Ref. No. 16). Pier and transit shed have been withdrawn from maritime use.□

Port Series: 30 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82202 San Francisco District

Waterway: **San Francisco Bay** Mile: PWD: 14
 Name: **Port of San Francisco Pier No. 31.**
 Port: San Francisco
 Location: San Francisco Bay, foot of Sansome Street extended. Datum: MLLW
 Operator: Not operated.
 Owner: Port of San Francisco.
 Address: Phone: 415-274-0572
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Not used for handling waterborne commerce.
 Depth Alongside (feet): 16 - 18 | 16 - 18 | 16 - 18 Latitude (decimal): 37.807778
 Total Berthing Space (feet): 150 | 638 | 582 Longitude (decimal): -122.4014
 Remarks: Pier and transit shed have been withdrawn from maritime use.□□

Port Series: 30 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82202 San Francisco District

Waterway: **San Francisco Bay** Mile: PWD: 13
 Name: **Port of San Francisco Pier No. 33.**
 Port: San Francisco
 Location: San Francisco Bay, foot of Bay Street extended. Datum: MLLW
 Operator: Port of San Francisco.
 Owner: Port of San Francisco.
 Address: Phone: 415-983-8247
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Receipt of seafood; mooring fishing vessels and San Francisco Bay excursion boats.
 Depth Alongside (feet): 15 | 15 | 15 Latitude (decimal): 37.808889
 Total Berthing Space (feet): 150 | 787 | 687 Longitude (decimal): -122.4031
 Remarks: Portion of transit shed is used as fish processing plant by Seafood Suppliers. Hornblower Cruises & Events operates excursion vessels at 80- by 20-foot, steel float with 50- by 8-foot gangway approach from bulkhead between Pier Nos. 33 and 31 (Ref. No. 14).

Port Series: 30 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82202 San Francisco District

Port Facilities by Waterway

Waterway: **San Francisco Bay** Mile: PWD: 12
 Name: **Port of San Francisco Pier No. 35.**
 Port: San Francisco
 Location: San Francisco Bay, foot of North Point Street extended. Datum: MLLW
 Operator: Metropolitan Stevedore Co.
 Owner: Port of San Francisco.
 Address: Phone: 415-765-5300
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Mooring cruise vessels; passengers.
 Depth Alongside (feet): 35 | 35 | 35 Latitude (decimal): 37.81
 Total Berthing Space (feet): 200 | 802 | 1,053 Longitude (decimal): -122.4056
 Remarks: Approximately 32,000 square feet of transit shed functions as a passenger terminal. Passengers board vessels via ramp from ground level and from waiting room on 2d floor of transit shed. A 280- by 80- to 130-foot shed is located along rear of bulkhead on lower side of pier.

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

Waterway: **San Francisco Bay** Mile: PWD: 29
 Name: **Port of San Francisco Pier No. 36.**
 Port: San Francisco
 Location: San Francisco Bay, between foot of Brannan and Townsend Streets extended. Datum: MLLW
 Operator: Not operated.
 Owner: Port of San Francisco.
 Address: Phone: 415-274-0572
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Not used for handling waterborne commerce.
 Depth Alongside (feet): 12 | 12 | 12 Latitude (decimal): 37.783889
 Total Berthing Space (feet): 100+ | 714 | 610 Longitude (decimal): -122.3842
 Remarks: -□□

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

Waterway: **San Francisco Bay** Mile: PWD: 30
 Name: **Port of San Francisco Pier No. 38.**
 Port: San Francisco
 Location: San Francisco Bay, foot of Townsend Street extended. Datum: MLLW
 Operator: Marine Recreation Center, Inc.
 Owner: Port of San Francisco.
 Address: Phone: 415-975-3838
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Mooring small vessels.
 Depth Alongside (feet): 18 | 18 | 18 Latitude (decimal): 37.782778
 Total Berthing Space (feet): 155 | 895 | 909 Longitude (decimal): -122.3836
 Remarks: Transit shed is used for dry boat storage. One 400- by 10-foot float with 6-foot wide steel gangway approach is located at lower side. One 15-ton mobile boat hoist is available as required.

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

Port Facilities by Waterway

Waterway: **San Francisco Bay** Mile: PWD: 8
 Name: **Port of San Francisco Pier No. 45, Sheds A and C.**
 Port: San Francisco
 Location: San Francisco Bay, western end of The Embarcadero at foot of Taylor Street. Datum: MLLW
 Operator: Port of San Francisco, National Liberty Ship Memorial, and National Maritime Museum A
 Owner: Port of San Francisco.
 Address: Phone: 415-274-0513
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Mooring Liberty Ship 'Jeremiah O'Brien' and submarine 'Pampanito' on exhibition; mooring transient vessels.
 Depth Alongside (feet): 14 - 35 | | Latitude (decimal): 37.810278
 Total Berthing Space (feet): 1,250 | | Longitude (decimal): -122.4158
 Remarks: Transient vessels moor at outer end. Transit sheds are used for non-maritime purposes.□
 Port Series: 30 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82202 San Francisco District

Waterway: **San Francisco Bay** Mile: PWD: 7
 Name: **Port of San Francisco Pier No. 45, Sheds B and D.**
 Port: San Francisco
 Location: San Francisco Bay, western end of The Embarcadero at foot of Taylor Street. Datum: MLLW
 Operator: Port of San Francisco.
 Owner: Port of San Francisco.
 Address: Phone: 415-274-0513
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Receipt of seafood; mooring and icing fishing vessels.
 Depth Alongside (feet): 14 - 25 | - | Latitude (decimal): 37.81
 Total Berthing Space (feet): 1,200 | - | Longitude (decimal): -122.4183
 Remarks: Sheds B and D serve as seafood receiving and processing plants operated by numerous tenants. Polar Ice Co. ices fishing vessels via 6-inch line.□
 Port Series: 30 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82202 San Francisco District

Waterway: **San Francisco Bay** Mile: PWD: 32
 Name: **Port of San Francisco Pier No. 50, Mission Rock Terminal.**
 Port: San Francisco
 Location: San Francisco Bay, foot of Mission Rock Street extended. Datum: MLLW
 Operator: Westar Marine Services; Clean Bay Cooperative; and Port of San Francisco.
 Owner: Port of San Francisco.
 Address: Phone: 415-495-3191
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Mooring company-owned floating equipment; mooring vessels.
 Depth Alongside (feet): 45 | 35 | 35 Latitude (decimal): 37.773333
 Total Berthing Space (feet): 1,000 | 1,480 | 1,100 Longitude (decimal): -122.3806
 Remarks: Maritime Administration, U.S. Department of Transportation utilizes face as a lay berth. Westar Marine Services dispatch office is located in Building C. Clean Bay II is based at inner end of upper side.
 Port Series: 30 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82202 San Francisco District

Port Facilities by Waterway

Waterway: **San Francisco Bay** Mile: PWD: 33
 Name: **Port of San Francisco Pier No. 54.**
 Port: San Francisco
 Location: San Francisco Bay, foot of 4th Street extended. Datum: MLLW
 Operator: Crowley Maritime Corp. (See Remarks).
 Owner: Port of San Francisco.
 Address: Phone: 415-331-3477/53
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Mooring vessels; receipt of seafood.
 Depth Alongside (feet): 18 - 20 | 18 - 20 | 18 - 20 Latitude (decimal): 37.769722
 Total Berthing Space (feet): 150 | 770 | 630 Longitude (decimal): -122.3822
 Remarks: Sea-K Fish Co. receives seafood on lower side; seafood is processed at company-owned plant in Sausalito. □

Port Series: 30 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82202 San Francisco District

Waterway: **San Francisco Bay** Mile: PWD: 39
 Name: **Port of San Francisco Pier No. 70.**
 Port: San Francisco
 Location: San Francisco Bay, between foot of 20th and 19th Streets extended. Datum: MLLW
 Operator: Port of San Francisco.
 Owner: Port of San Francisco.
 Address: Phone: 415-695-2607
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Mooring vessels.
 Depth Alongside (feet): 35 | 35 | 35 Latitude (decimal): 37.761944
 Total Berthing Space (feet): | 1,300 | 1,180 Longitude (decimal): -122.3797
 Remarks: Southern Energy, Inc.: One 16- becoming 20-inch pipeline with three 8-inch wharf connections extends to 2 steel storage tanks, total capacity 404,000 barrels; and one 12-inch pipeline with two 8-inch connections extends to a 120,000-barrel diesel fuel tank. Tanks are located at Potrero Power Plant at rear. Pipelines were not in use at time of survey (1999).

Port Series: 30 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82202 San Francisco District

Port Facilities by Waterway

Waterway: **San Francisco Bay** Mile: PWD: 20
 Name: **Port of San Francisco Pier No. 9.**
 Port: San Francisco
 Location: San Francisco Bay, foot of Vallejo Street extended. Datum: MLLW
 Operator: Blue and Gold Fleet, LP and San Francisco Bar Pilots.
 Owner: Port of San Francisco.
 Address: Phone: 415-362-0941
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Mooring company-owned floating equipment; mooring pilot boats.
 Depth Alongside (feet): 15 | 15 | 15 Latitude (decimal): 37.801111
 Total Berthing Space (feet): 154 | 800 | 800 Longitude (decimal): -122.395
 Remarks: Pilot office is located at outer end of transit shed. Transit shed also serves as offices for non-maritime operators. □

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

Waterway: **San Francisco Bay** Mile: PWD: 41
 Name: **Port of San Francisco Pier No. 90.**
 Port: San Francisco
 Location: South side, Islais Creek, approximately 900 feet below Third Street Bridge. Datum: MLLW
 Operator: Port of San Francisco.
 Owner: Port of San Francisco.
 Address: Phone: 415-274-0572
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: Three surface tracks serve 3 hopper car receiving pits, a boxcar dumper, and carloading spout in car shed located between elevator buildings; connect with Union Pacific Railroad.
 Purpose: Mooring vessels.
 Depth Alongside (feet): 28 | | Latitude (decimal): 37.747222
 Total Berthing Space (feet): 1,210 | | Longitude (decimal): -122.3844
 Remarks: Grain elevator in rear consists of 3 separate buildings, having a total of 63 silos and 38 interstitial spaces, with a total storage capacity of 2,000,000 bushels; elevator was not used for grain storage at time of survey (1999).

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

Port Facilities by Waterway

Waterway: **San Francisco Bay** Mile: PWD: 42
 Name: **Port of San Francisco Pier No. 92.**
 Port: San Francisco
 Location: South side, Islais Creek at entrance. Datum: MLLW
 Operator: Darling International, Inc. and Mission Valley Rock.
 Owner: Port of San Francisco.
 Address: 429 Armador Street. Phone: 415-647-4890
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Shipment of tallow; receipt of sand.
 Depth Alongside (feet): 35 | | Latitude (decimal): 37.747222
 Total Berthing Space (feet): 166+ | | Longitude (decimal): -122.38
 Remarks: Darling International, Inc.: Two 8-inch pipelines extend to wharf from 10 tallow storage tanks at rear, total capacity 2,900,000 gallons. □ Mission Valley Rock: Open storage area at rear has capacity for 20,000 tons of sand.

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

Waterway: **San Francisco Bay** Mile: PWD: 19
 Name: **Port of San Francisco Pier Nos. 17 and 15.**
 Port: San Francisco
 Location: San Francisco Bay, between foot of Union and Green Streets extended. Datum: MLLW
 Operator: Baydelta Maritime.
 Owner: Port of San Francisco.
 Address: Phone: 415-693-5803
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Mooring company-owned floating equipment.
 Depth Alongside (feet): 35 | 35 | 17 Latitude (decimal): 37.8025
 Total Berthing Space (feet): 485 | 800 | 800 Longitude (decimal): -122.3958
 Remarks: *Includes space in 140- by 85-foot steel frame, concrete-walled shed connecting transit sheds at face. □ Approximately 27,000 square feet of open storage area is located in rear between Piers, and an additional 6,000 square feet is at rear of bulkhead on lower side. Pier No. 17 transit shed is operated as cotton warehouse by Parker Warehouse, Inc. Cotton is trucked in and out. Baydelta Maritime moorsfloating equipment at Pier No. 15. Dispatch office is located in Pier No. 15 transit shed.

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

Port Facilities by Waterway

Waterway: **San Francisco Bay** Mile: PWD: 28
Name: **Port of San Francisco Pier Nos. 30 and 32.**
Port: San Francisco
Location: San Francisco Bay, between foot of Bryant and Brannan Streets extended. Datum: MLLW
Operator: Port of San Francisco.
Owner: Port of San Francisco.
Address: Phone: 415-274-0572
Town: San Francisco State: CA County: San Francisco
Railway Connection: None.
Purpose: Mooring vessels.
Depth Alongside (feet): 38 | 12 - 18 | 18 - 38 Latitude (decimal): 37.786667
Total Berthing Space (feet): 622 | 845 | 932 Longitude (decimal): -122.3833
Remarks: Plans call for the construction of the James R. Harman International Cruise Terminal to be located on pier in 2005.□

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

Waterway: **San Francisco Bay** Mile: PWD: 31
Name: **Port of San Francisco Pier Nos. 48A and 48B.**
Port: San Francisco
Location: San Francisco Bay, south of entrance to China Basin. Datum: MLLW
Operator: Port of San Francisco.
Owner: Port of San Francisco.
Address: Phone: 415-274-0572
Town: San Francisco State: CA County: San Francisco
Railway Connection: None.
Purpose: Mooring vessels.
Depth Alongside (feet): 26 | 14 | 14 - 26 Latitude (decimal): 37.775833
Total Berthing Space (feet): 369 | 610 | 636 Longitude (decimal): -122.385
Remarks: *Includes space in 140- by 64-foot shed connecting transit sheds at face.□ Approximately 21,000 square feet of open storage area is available between transit sheds.

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

Port Facilities by Waterway

Waterway: **San Francisco Bay** Mile: PWD: 43
 Name: **Port of San Francisco Pier Nos. 94 and 96.**
 Port: San Francisco
 Location: San Francisco Bay, between Islais Creek and India Basin. Datum: MLLW
 Operator: Port of San Francisco.
 Owner: Port of San Francisco.
 Address: Phone: 415-274-0572
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: Two surface tracks extending to rear of face join additional terminal trackage; connect with tracks of Union Pacific Railroad.
 Purpose: Mooring vessels.
 Depth Alongside (feet): 40 | | Latitude (decimal): 37.742778
 Total Berthing Space (feet): 2,456 | | Longitude (decimal): -122.3703
 Remarks: Trackage permits unit train access to the terminal, and connects with Intermodal Container Transfer Facility (ICTF). A 76-acre, paved, container storage area, including 154 positions at 220 volts, and 56 positions at 480 volts for refrigerated containers was not in use at time of survey. Terminal is served by the Container Freight Station described under Ref. No. 44. □ Maritime Administration, U.S. Department of Transportation utilizes face as alay berth. □
 Port Series: 30 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82202 San Francisco District

Waterway: **San Francisco Bay** Mile: PWD: 40
 Name: **Port of San Francisco, North Container Terminal (Pier No. 80).**
 Port: San Francisco
 Location: San Francisco Bay, foot of Cesar Chavez (Army) Street. Datum: MLLW
 Operator: Marine Terminals Corp.
 Owner: Port of San Francisco.
 Address: Phone: 415-826-7100/69
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: Two surface tracks on lower apron, two along face, two connecting surface tracks on upper apron, and one platform-level track along rear of each shed provide on-wharf intermodal transfer, and connect
 Purpose: Receipt and shipment of conventional, containerized, and roll-on roll-off general cargo in foreign and domestic trade.
 Depth Alongside (feet): 38 | 38 | 38 Latitude (decimal): 37.750556
 Total Berthing Space (feet): 1,138 | 1,296 | 2,657 Longitude (decimal): -122.3758
 Remarks: Terminal occupies 69 acres and includes 170 positions at 240 volts, and 244 positions at 480 volts for refrigerated containers, and four 60-ton truck scales. Railway Connections (Cont'd): with Intermodal Container Transfer Facility (ICTF) and tracks of Union Pacific Railroad.
 Port Series: 30 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82202 San Francisco District

Port Facilities by Waterway

Waterway: **San Francisco Bay** Mile: PWD: 9
Name: **Red and White Fleet, Pier No. 43 1/2 Ferry Docks.**
Port: San Francisco
Location: San Francisco Bay, west of foot of Mason Street. Datum: MLLW
Operator: Red and White Fleet.
Owner: Red and White Fleet.
Address: Phone: 415-447-0591
Town: San Francisco State: CA County: San Francisco
Railway Connection: None.
Purpose: Mooring excursion vessels.
Depth Alongside (feet): 12 - 15 | | Latitude (decimal): 37.809444
Total Berthing Space (feet): 160+ | | Longitude (decimal): -122.4139
Remarks: Ticket office is located at rear. Vessels Harbor Queen, Harbor King, Harbor Princess, and Royal Prince are based at floats.□
Port Series: 30 Year of Last Survey: 2000 Corps of Engnr's Waterway Code: 82202 San Francisco District

Port Facilities by Waterway

Waterway: San Francisco Bay	Mile:	PWD: 38
Name: San Francisco Drydock, Drydock No. 2 High Water Platform.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: San Francisco Drydock, Inc.		
Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring floating drydock.		
Depth Alongside (feet): 55 - 60 55 - 60	Latitude (decimal): 37.765	
Total Berthing Space (feet):	Longitude (decimal): -122.3806	
Waterway: San Francisco Bay	Mile:	PWD: 38
Name: San Francisco Drydock, Drydock No. 2 High Water Platform.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: San Francisco Drydock, Inc.		
Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring floating drydock.		
Depth Alongside (feet): 55 - 60 55 - 60	Latitude (decimal): 37.765	
Total Berthing Space (feet):	Longitude (decimal): -122.3806	
Waterway: San Francisco Bay	Mile:	PWD: 38
Name: San Francisco Drydock, Drydock No. 2 High Water Platform.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: San Francisco Drydock, Inc.		
Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring floating drydock.		
Depth Alongside (feet): 55 - 60 55 - 60	Latitude (decimal): 37.765	
Total Berthing Space (feet):	Longitude (decimal): -122.3806	
Waterway: San Francisco Bay	Mile:	PWD: 38
Name: San Francisco Drydock, Drydock No. 2 High Water Platform.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: San Francisco Drydock, Inc.		
Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring floating drydock.		
Depth Alongside (feet): 55 - 60 55 - 60	Latitude (decimal): 37.765	
Total Berthing Space (feet):	Longitude (decimal): -122.3806	

Port Facilities by Waterway

Waterway: San Francisco Bay	Mile:	PWD: 38
Name: San Francisco Drydock, Drydock No. 2 High Water Platform.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: San Francisco Drydock, Inc.		
Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring floating drydock.		
Depth Alongside (feet): 55 - 60 55 - 60	Latitude (decimal): 37.765	
Total Berthing Space (feet):	Longitude (decimal): -122.3806	
Remarks: Floating Drydock No. 2, lifting capacity 65,000 long tons, is moored end-to face of platform which has 92- by 64-foot recess for inner apron of drydock and access gangway. Platform and drydock are equipped with telephone connections and service lines for compressed air, water, electricity, steam, acetylene gas, and oxygen.		
Port Series: 30	Year of Last Survey: 2000	Corps of Engrs Waterway Code: 82202 San Francisco District

Remarks: Floating Drydock No. 2, lifting capacity 65,000 long tons, is moored end-to face of platform which has 92- by 64-foot recess for inner apron of drydock and access gangway. Platform and drydock are equipped with telephone connections and service lines for compressed air, water, electricity, steam, acetylene gas, and oxygen.		
Port Series: 30	Year of Last Survey: 2000	Corps of Engrs Waterway Code: 82202 San Francisco District

Remarks: Floating Drydock No. 2, lifting capacity 65,000 long tons, is moored end-to face of platform which has 92- by 64-foot recess for inner apron of drydock and access gangway. Platform and drydock are equipped with telephone connections and service lines for compressed air, water, electricity, steam, acetylene gas, and oxygen.		
Port Series: 30	Year of Last Survey: 2000	Corps of Engrs Waterway Code: 82202 San Francisco District

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Port Series: 30	Year of Last Survey: 2000	Corps of Engrs Waterway Code: 82202 San Francisco District

Remarks: Floating Drydock No. 2, lifting capacity 65,000 long tons, is moored end-to face of platform which has 92- by 64-foot recess for inner apron of drydock and access gangway. Platform and drydock are equipped with telephone connections and service lines for compressed air, water, electricity, steam, acetylene gas, and oxygen.		
Port Series: 30	Year of Last Survey: 2000	Corps of Engrs Waterway Code: 82202 San Francisco District

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Port Series: 30	Year of Last Survey: 2000	Corps of Engrs Waterway Code: 82202 San Francisco District

Port Facilities by Waterway

Waterway: San Francisco Bay	Mile:	PWD: 38
Name: San Francisco Drydock, Drydock No. 2 High Water Platform.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: San Francisco Drydock, Inc.		
Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring floating drydock.		
Depth Alongside (feet): 55 - 60 55 - 60	Latitude (decimal): 37.765	
Total Berthing Space (feet):	Longitude (decimal): -122.3806	
Waterway: San Francisco Bay	Mile:	PWD: 38
Name: San Francisco Drydock, Drydock No. 2 High Water Platform.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: San Francisco Drydock, Inc.		
Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring floating drydock.		
Depth Alongside (feet): 55 - 60 55 - 60	Latitude (decimal): 37.765	
Total Berthing Space (feet):	Longitude (decimal): -122.3806	
Waterway: San Francisco Bay	Mile:	PWD: 38
Name: San Francisco Drydock, Drydock No. 2 High Water Platform.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: San Francisco Drydock, Inc.		
Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring floating drydock.		
Depth Alongside (feet): 55 - 60 55 - 60	Latitude (decimal): 37.765	
Total Berthing Space (feet):	Longitude (decimal): -122.3806	
Waterway: San Francisco Bay	Mile:	PWD: 38
Name: San Francisco Drydock, Drydock No. 2 High Water Platform.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: San Francisco Drydock, Inc.		
Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring floating drydock.		
Depth Alongside (feet): 55 - 60 55 - 60	Latitude (decimal): 37.765	
Total Berthing Space (feet):	Longitude (decimal): -122.3806	

Port Facilities by Waterway

Waterway: **San Francisco Bay** Mile: PWD: 38
 Name: **San Francisco Drydock, Drydock No. 2 High Water Platform.**
 Port: San Francisco
 Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended. Datum: MLLW
 Operator: San Francisco Drydock, Inc.
 Owner: Port of San Francisco.
 Address: Phone: 415-861-7447
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Mooring floating drydock.
 Depth Alongside (feet): 55 - 60 | 55 - 60 | Latitude (decimal): 37.765
 Total Berthing Space (feet): | | Longitude (decimal): -122.3806
 Remarks: Floating Drydock No. 2, lifting capacity 65,000 long tons, is moored end-to face of platform which has 92- by 64-foot recess for inner apron of drydock and access gangway. Platform and drydock are equipped with telephone connections and service lines for compressed air, water, electricity, steam, acetylene gas, and oxygen.

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

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Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

Port Facilities by Waterway

Waterway: San Francisco Bay	Mile:	PWD: 38
Name: San Francisco Drydock, Drydock No. 2 High Water Platform.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: San Francisco Drydock, Inc.		
Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring floating drydock.		
Depth Alongside (feet): 55 - 60 55 - 60	Latitude (decimal): 37.765	
Total Berthing Space (feet):	Longitude (decimal): -122.3806	
Waterway: San Francisco Bay	Mile:	PWD: 38
Name: San Francisco Drydock, Drydock No. 2 High Water Platform.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: San Francisco Drydock, Inc.		
Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring floating drydock.		
Depth Alongside (feet): 55 - 60 55 - 60	Latitude (decimal): 37.765	
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Waterway: San Francisco Bay	Mile:	PWD: 38
Name: San Francisco Drydock, Drydock No. 2 High Water Platform.		
Port: San Francisco		
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Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring floating drydock.		
Depth Alongside (feet): 55 - 60 55 - 60	Latitude (decimal): 37.765	
Total Berthing Space (feet):	Longitude (decimal): -122.3806	
Waterway: San Francisco Bay	Mile:	PWD: 38
Name: San Francisco Drydock, Drydock No. 2 High Water Platform.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
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Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring floating drydock.		
Depth Alongside (feet): 55 - 60 55 - 60	Latitude (decimal): 37.765	
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Port Facilities by Waterway

Waterway: **San Francisco Bay** Mile: PWD: 38
 Name: **San Francisco Drydock, Drydock No. 2 High Water Platform.**
 Port: San Francisco
 Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended. Datum: MLLW
 Operator: San Francisco Drydock, Inc.
 Owner: Port of San Francisco.
 Address: Phone: 415-861-7447
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Mooring floating drydock.
 Depth Alongside (feet): 55 - 60 | 55 - 60 | Latitude (decimal): 37.765
 Total Berthing Space (feet): | | Longitude (decimal): -122.3806
 Remarks: Floating Drydock No. 2, lifting capacity 65,000 long tons, is moored end-to face of platform which has 92- by 64-foot recess for inner apron of drydock and access gangway. Platform and drydock are equipped with telephone connections and service lines for compressed air, water, electricity, steam, acetylene gas, and oxygen.

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

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Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

Port Facilities by Waterway

Waterway: San Francisco Bay	Mile:	PWD: 38
Name: San Francisco Drydock, Drydock No. 2 High Water Platform.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: San Francisco Drydock, Inc.		
Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring floating drydock.		
Depth Alongside (feet): 55 - 60 55 - 60	Latitude (decimal): 37.765	
Total Berthing Space (feet):	Longitude (decimal): -122.3806	
Waterway: San Francisco Bay	Mile:	PWD: 38
Name: San Francisco Drydock, Drydock No. 2 High Water Platform.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: San Francisco Drydock, Inc.		
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Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring floating drydock.		
Depth Alongside (feet): 55 - 60 55 - 60	Latitude (decimal): 37.765	
Total Berthing Space (feet):	Longitude (decimal): -122.3806	
Waterway: San Francisco Bay	Mile:	PWD: 38
Name: San Francisco Drydock, Drydock No. 2 High Water Platform.		
Port: San Francisco		
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Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring floating drydock.		
Depth Alongside (feet): 55 - 60 55 - 60	Latitude (decimal): 37.765	
Total Berthing Space (feet):	Longitude (decimal): -122.3806	
Waterway: San Francisco Bay	Mile:	PWD: 38
Name: San Francisco Drydock, Drydock No. 2 High Water Platform.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
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Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring floating drydock.		
Depth Alongside (feet): 55 - 60 55 - 60	Latitude (decimal): 37.765	
Total Berthing Space (feet):	Longitude (decimal): -122.3806	

Port Facilities by Waterway

Waterway: **San Francisco Bay** Mile: PWD: 38
 Name: **San Francisco Drydock, Drydock No. 2 High Water Platform.**
 Port: San Francisco
 Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended. Datum: MLLW
 Operator: San Francisco Drydock, Inc.
 Owner: Port of San Francisco.
 Address: Phone: 415-861-7447
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Mooring floating drydock.
 Depth Alongside (feet): 55 - 60 | 55 - 60 | Latitude (decimal): 37.765
 Total Berthing Space (feet): | | Longitude (decimal): -122.3806
 Remarks: Floating Drydock No. 2, lifting capacity 65,000 long tons, is moored end-to face of platform which has 92- by 64-foot recess for inner apron of drydock and access gangway. Platform and drydock are equipped with telephone connections and service lines for compressed air, water, electricity, steam, acetylene gas, and oxygen.

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

Remarks: Floating Drydock No. 2, lifting capacity 65,000 long tons, is moored end-to face of platform which has 92- by 64-foot recess for inner apron of drydock and access gangway. Platform and drydock are equipped with telephone connections and service lines for compressed air, water, electricity, steam, acetylene gas, and oxygen.

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Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

Port Facilities by Waterway

Waterway: San Francisco Bay	Mile:	PWD: 38
Name: San Francisco Drydock, Drydock No. 2 High Water Platform.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: San Francisco Drydock, Inc.		
Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring floating drydock.		
Depth Alongside (feet): 55 - 60 55 - 60	Latitude (decimal): 37.765	
Total Berthing Space (feet):	Longitude (decimal): -122.3806	
Waterway: San Francisco Bay	Mile:	PWD: 38
Name: San Francisco Drydock, Drydock No. 2 High Water Platform.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
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Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring floating drydock.		
Depth Alongside (feet): 55 - 60 55 - 60	Latitude (decimal): 37.765	
Total Berthing Space (feet):	Longitude (decimal): -122.3806	
Waterway: San Francisco Bay	Mile:	PWD: 38
Name: San Francisco Drydock, Drydock No. 2 High Water Platform.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
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Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring floating drydock.		
Depth Alongside (feet): 55 - 60 55 - 60	Latitude (decimal): 37.765	
Total Berthing Space (feet):	Longitude (decimal): -122.3806	
Waterway: San Francisco Bay	Mile:	PWD: 38
Name: San Francisco Drydock, Drydock No. 2 High Water Platform.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
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Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring floating drydock.		
Depth Alongside (feet): 55 - 60 55 - 60	Latitude (decimal): 37.765	
Total Berthing Space (feet):	Longitude (decimal): -122.3806	

Port Facilities by Waterway

Waterway: **San Francisco Bay** Mile: PWD: 38
 Name: **San Francisco Drydock, Drydock No. 2 High Water Platform.**
 Port: San Francisco
 Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended. Datum: MLLW
 Operator: San Francisco Drydock, Inc.
 Owner: Port of San Francisco.
 Address: Phone: 415-861-7447
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Mooring floating drydock.
 Depth Alongside (feet): 55 - 60 | 55 - 60 | Latitude (decimal): 37.765
 Total Berthing Space (feet): | | Longitude (decimal): -122.3806
 Remarks: Floating Drydock No. 2, lifting capacity 65,000 long tons, is moored end-to face of platform which has 92- by 64-foot recess for inner apron of drydock and access gangway. Platform and drydock are equipped with telephone connections and service lines for compressed air, water, electricity, steam, acetylene gas, and oxygen.

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

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Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

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Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

Port Facilities by Waterway

Waterway: San Francisco Bay	Mile:	PWD: 34
Name: San Francisco Drydock, Pier No. 1.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: Not operated.		
Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Not used.		
Depth Alongside (feet): 15 -		Latitude (decimal): 37.762778
Total Berthing Space (feet): 400		Longitude (decimal): -122.3839
Waterway: San Francisco Bay	Mile:	PWD: 34
Name: San Francisco Drydock, Pier No. 1.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: Not operated.		
Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Not used.		
Depth Alongside (feet): 15 -		Latitude (decimal): 37.762778
Total Berthing Space (feet): 400		Longitude (decimal): -122.3839
Waterway: San Francisco Bay	Mile:	PWD: 34
Name: San Francisco Drydock, Pier No. 1.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: Not operated.		
Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Not used.		
Depth Alongside (feet): 15 -		Latitude (decimal): 37.762778
Total Berthing Space (feet): 400		Longitude (decimal): -122.3839
Waterway: San Francisco Bay	Mile:	PWD: 34
Name: San Francisco Drydock, Pier No. 1.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: Not operated.		
Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Not used.		
Depth Alongside (feet): 15 -		Latitude (decimal): 37.762778
Total Berthing Space (feet): 400		Longitude (decimal): -122.3839

Port Facilities by Waterway

Waterway: **San Francisco Bay** Mile: PWD: 34
 Name: **San Francisco Drydock, Pier No. 1.**
 Port: San Francisco
 Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended. Datum: MLLW
 Operator: Not operated.
 Owner: Port of San Francisco.
 Address: Phone: 415-861-7447
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Not used.
 Depth Alongside (feet): 15 | - | Latitude (decimal): 37.762778
 Total Berthing Space (feet): 400 | | Longitude (decimal): -122.3839
 Remarks: At time of survey (1999) pier was in poor condition and would need repairs prior to being activated.
 Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

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Port Facilities by Waterway

Waterway: San Francisco Bay	Mile:	PWD: 34
Name: San Francisco Drydock, Pier No. 1.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: Not operated.		
Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Not used.		
Depth Alongside (feet): 15 -		Latitude (decimal): 37.762778
Total Berthing Space (feet): 400		Longitude (decimal): -122.3839
Waterway: San Francisco Bay		Mile: PWD: 34
Name: San Francisco Drydock, Pier No. 1.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: Not operated.		
Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Not used.		
Depth Alongside (feet): 15 -		Latitude (decimal): 37.762778
Total Berthing Space (feet): 400		Longitude (decimal): -122.3839
Waterway: San Francisco Bay		Mile: PWD: 34
Name: San Francisco Drydock, Pier No. 1.		
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Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: Not operated.		
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Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Not used.		
Depth Alongside (feet): 15 -		Latitude (decimal): 37.762778
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Port Facilities by Waterway

Waterway: San Francisco Bay	Mile:	PWD: 34
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Railway Connection: None.		
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Depth Alongside (feet): 15 -		Latitude (decimal): 37.762778
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Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Not used.		
Depth Alongside (feet): 15 -		Latitude (decimal): 37.762778
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Port Facilities by Waterway

Waterway: San Francisco Bay	Mile:	PWD: 34
Name: San Francisco Drydock, Pier No. 1.		
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Operator: Not operated.		
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Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Not used.		
Depth Alongside (feet): 15 -		Latitude (decimal): 37.762778
Total Berthing Space (feet): 400		Longitude (decimal): -122.3839
Waterway: San Francisco Bay		Mile: PWD: 34
Name: San Francisco Drydock, Pier No. 1.		
Port: San Francisco		
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Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
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Waterway: San Francisco Bay		Mile: PWD: 34
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Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Not used.		
Depth Alongside (feet): 15 -		Latitude (decimal): 37.762778
Total Berthing Space (feet): 400		Longitude (decimal): -122.3839
Waterway: San Francisco Bay		Mile: PWD: 34
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Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
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Depth Alongside (feet): 15 -		Latitude (decimal): 37.762778
Total Berthing Space (feet): 400		Longitude (decimal): -122.3839

Port Facilities by Waterway

Waterway: **San Francisco Bay** Mile: PWD: 34
Name: **San Francisco Drydock, Pier No. 1.**
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Operator: Not operated.
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Address: Phone: 415-861-7447
Town: San Francisco State: CA County: San Francisco
Railway Connection: None.
Purpose: Not used.
Depth Alongside (feet): 15 | - | Latitude (decimal): 37.762778
Total Berthing Space (feet): 400 | | Longitude (decimal): -122.3839
Remarks: At time of survey (1999) pier was in poor condition and would need repairs prior to being activated.
Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

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Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

Port Facilities by Waterway

Waterway: San Francisco Bay	Mile:	PWD: 35
Name: San Francisco Drydock, Pier No. 3.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: San Francisco Drydock, Inc.		
Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring vessels for outfitting and repair.		
Depth Alongside (feet): 27 - 30 30 30		Latitude (decimal): 37.764167
Total Berthing Space (feet): 650 658		Longitude (decimal): -122.3833
Waterway: San Francisco Bay	Mile:	PWD: 35
Name: San Francisco Drydock, Pier No. 3.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: San Francisco Drydock, Inc.		
Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring vessels for outfitting and repair.		
Depth Alongside (feet): 27 - 30 30 30		Latitude (decimal): 37.764167
Total Berthing Space (feet): 650 658		Longitude (decimal): -122.3833
Waterway: San Francisco Bay	Mile:	PWD: 35
Name: San Francisco Drydock, Pier No. 3.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: San Francisco Drydock, Inc.		
Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring vessels for outfitting and repair.		
Depth Alongside (feet): 27 - 30 30 30		Latitude (decimal): 37.764167
Total Berthing Space (feet): 650 658		Longitude (decimal): -122.3833
Waterway: San Francisco Bay	Mile:	PWD: 35
Name: San Francisco Drydock, Pier No. 3.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: San Francisco Drydock, Inc.		
Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring vessels for outfitting and repair.		
Depth Alongside (feet): 27 - 30 30 30		Latitude (decimal): 37.764167
Total Berthing Space (feet): 650 658		Longitude (decimal): -122.3833

Port Facilities by Waterway

Waterway: **San Francisco Bay** Mile: PWD: 35
 Name: **San Francisco Drydock, Pier No. 3.**
 Port: San Francisco
 Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended. Datum: MLLW
 Operator: San Francisco Drydock, Inc.
 Owner: Port of San Francisco.
 Address: Phone: 415-861-7447
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Mooring vessels for outfitting and repair.
 Depth Alongside (feet): 27 - 30 | 30 | 30 Latitude (decimal): 37.764167
 Total Berthing Space (feet): | 650 | 658 Longitude (decimal): -122.3833
 Remarks: Pier is equipped with telephone connections and service lines for compressed air, water, electricity, steam, acetylene gas, and oxygen. □

Port Series: 30 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82202 San Francisco District

Remarks: Pier is equipped with telephone connections and service lines for compressed air, water, electricity, steam, acetylene gas, and oxygen. □

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Port Facilities by Waterway

Waterway: San Francisco Bay	Mile:	PWD: 35
Name: San Francisco Drydock, Pier No. 3.		
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Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
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Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring vessels for outfitting and repair.		
Depth Alongside (feet): 27 - 30 30 30		Latitude (decimal): 37.764167
Total Berthing Space (feet): 650 658		Longitude (decimal): -122.3833
Waterway: San Francisco Bay	Mile:	PWD: 35
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Depth Alongside (feet): 27 - 30 30 30		Latitude (decimal): 37.764167
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Waterway: San Francisco Bay	Mile:	PWD: 35
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Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring vessels for outfitting and repair.		
Depth Alongside (feet): 27 - 30 30 30		Latitude (decimal): 37.764167
Total Berthing Space (feet): 650 658		Longitude (decimal): -122.3833

Port Facilities by Waterway

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 Railway Connection: None.
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 Depth Alongside (feet): 27 - 30 | 30 | 30 Latitude (decimal): 37.764167
 Total Berthing Space (feet): | 650 | 658 Longitude (decimal): -122.3833
 Remarks: Pier is equipped with telephone connections and service lines for compressed air, water, electricity, steam, acetylene gas, and oxygen. □

Port Series: 30 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82202 San Francisco District

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Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring vessels for outfitting and repair.		
Depth Alongside (feet): 27 - 30 30 30		Latitude (decimal): 37.764167
Total Berthing Space (feet): 650 658		Longitude (decimal): -122.3833
Waterway: San Francisco Bay	Mile:	PWD: 35
Name: San Francisco Drydock, Pier No. 3.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: San Francisco Drydock, Inc.		
Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring vessels for outfitting and repair.		
Depth Alongside (feet): 27 - 30 30 30		Latitude (decimal): 37.764167
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Depth Alongside (feet): 27 - 30 30 30		Latitude (decimal): 37.764167
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Port Facilities by Waterway

Waterway: **San Francisco Bay** Mile: PWD: 35
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Owner: Port of San Francisco.
Address: Phone: 415-861-7447
Town: San Francisco State: CA County: San Francisco
Railway Connection: None.
Purpose: Mooring vessels for outfitting and repair.
Depth Alongside (feet): 27 - 30 | 30 | 30 Latitude (decimal): 37.764167
Total Berthing Space (feet): | 650 | 658 Longitude (decimal): -122.3833
Remarks: Pier is equipped with telephone connections and service lines for compressed air, water, electricity, steam, acetylene gas, and oxygen. □

Port Series: 30 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82202 San Francisco District

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Port Facilities by Waterway

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Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: San Francisco Drydock, Inc.		
Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring vessels for outfitting and repair.		
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Total Berthing Space (feet): 650 658		Longitude (decimal): -122.3833
Waterway: San Francisco Bay	Mile:	PWD: 35
Name: San Francisco Drydock, Pier No. 3.		
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Railway Connection: None.		
Purpose: Mooring vessels for outfitting and repair.		
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Waterway: San Francisco Bay	Mile:	PWD: 35
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Port Series: 30	Year of Last Survey: 2000	Corps of Engnrs Waterway Code: 82202 San Francisco District
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Port Facilities by Waterway

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Operator: San Francisco Drydock, Inc.		
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Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring vessels for outfitting and repair.		
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Railway Connection: None.		
Purpose: Mooring vessels for outfitting and repair.		
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Railway Connection: None.		
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Port Facilities by Waterway

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 Port: San Francisco
 Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended. Datum: MLLW
 Operator: San Francisco Drydock, Inc.
 Owner: Port of San Francisco.
 Address: Phone: 415-861-7447
 Town: San Francisco State: CA County: San Francisco
 Railway Connection: None.
 Purpose: Mooring vessels for outfitting and repair.
 Depth Alongside (feet): 27 - 30 | 30 | 30 Latitude (decimal): 37.764167
 Total Berthing Space (feet): | 650 | 658 Longitude (decimal): -122.3833
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Port Series: 30 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82202 San Francisco District

Port Facilities by Waterway

Waterway: San Francisco Bay	Mile:	PWD: 36
Name: San Francisco Drydock, Pier No. 4.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: San Francisco Drydock, Inc.		
Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring vessels for outfitting and repair; mooring floating drydock.		
Depth Alongside (feet): 38 - 49 30 30		Latitude (decimal): 37.764444
Total Berthing Space (feet): 593		Longitude (decimal): -122.3825
Waterway: San Francisco Bay	Mile:	PWD: 36
Name: San Francisco Drydock, Pier No. 4.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: San Francisco Drydock, Inc.		
Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring vessels for outfitting and repair; mooring floating drydock.		
Depth Alongside (feet): 38 - 49 30 30		Latitude (decimal): 37.764444
Total Berthing Space (feet): 593		Longitude (decimal): -122.3825
Waterway: San Francisco Bay	Mile:	PWD: 36
Name: San Francisco Drydock, Pier No. 4.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: San Francisco Drydock, Inc.		
Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring vessels for outfitting and repair; mooring floating drydock.		
Depth Alongside (feet): 38 - 49 30 30		Latitude (decimal): 37.764444
Total Berthing Space (feet): 593		Longitude (decimal): -122.3825
Waterway: San Francisco Bay	Mile:	PWD: 36
Name: San Francisco Drydock, Pier No. 4.		
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Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring vessels for outfitting and repair; mooring floating drydock.		
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Port Facilities by Waterway

Waterway: **San Francisco Bay** Mile: PWD: 36

Name: **San Francisco Drydock, Pier No. 4.**

Port: San Francisco

Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended. Datum: MLLW

Operator: San Francisco Drydock, Inc.

Owner: Port of San Francisco.

Address: Phone: 415-861-7447

Town: San Francisco State: CA County: San Francisco

Railway Connection: None.

Purpose: Mooring vessels for outfitting and repair; mooring floating drydock.

Depth Alongside (feet): 38 - 49 | 30 | 30 Latitude (decimal): 37.764444

Total Berthing Space (feet): | | 593 Longitude (decimal): -122.3825

Remarks: Pier is equipped with telephone connections and service lines for compressed air, water, electricity, steam, acetylene gas, and oxygen. Floating Drydock No. 1 ('Eureka'), lifting capacity 14,500 long tons, is moored along west side.

Port Series: 30 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82202 San Francisco District

Remarks: Pier is equipped with telephone connections and service lines for compressed air, water, electricity, steam, acetylene gas, and oxygen. Floating Drydock No. 1 ('Eureka'), lifting capacity 14,500 long tons, is moored along west side.

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Port Series: 30 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82202 San Francisco District

Port Facilities by Waterway

<p>Waterway: San Francisco Bay</p> <p>Name: San Francisco Drydock, Pier No. 4.</p> <p>Port: San Francisco</p> <p>Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.</p> <p>Operator: San Francisco Drydock, Inc.</p> <p>Owner: Port of San Francisco.</p> <p>Address:</p> <p>Town: San Francisco State: CA</p> <p>Railway Connection: None.</p> <p>Purpose: Mooring vessels for outfitting and repair; mooring floating drydock.</p> <p>Depth Alongside (feet): 38 - 49 30 30</p> <p>Total Berthing Space (feet): 593</p>	<p>Mile: PWD: 36</p> <p>Datum: MLLW</p> <p>Phone: 415-861-7447</p> <p>County: San Francisco</p> <p>Latitude (decimal): 37.764444</p> <p>Longitude (decimal): -122.3825</p>
<p>Waterway: San Francisco Bay</p> <p>Name: San Francisco Drydock, Pier No. 4.</p> <p>Port: San Francisco</p> <p>Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.</p> <p>Operator: San Francisco Drydock, Inc.</p> <p>Owner: Port of San Francisco.</p> <p>Address:</p> <p>Town: San Francisco State: CA</p> <p>Railway Connection: None.</p> <p>Purpose: Mooring vessels for outfitting and repair; mooring floating drydock.</p> <p>Depth Alongside (feet): 38 - 49 30 30</p> <p>Total Berthing Space (feet): 593</p>	<p>Mile: PWD: 36</p> <p>Datum: MLLW</p> <p>Phone: 415-861-7447</p> <p>County: San Francisco</p> <p>Latitude (decimal): 37.764444</p> <p>Longitude (decimal): -122.3825</p>
<p>Waterway: San Francisco Bay</p> <p>Name: San Francisco Drydock, Pier No. 4.</p> <p>Port: San Francisco</p> <p>Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.</p> <p>Operator: San Francisco Drydock, Inc.</p> <p>Owner: Port of San Francisco.</p> <p>Address:</p> <p>Town: San Francisco State: CA</p> <p>Railway Connection: None.</p> <p>Purpose: Mooring vessels for outfitting and repair; mooring floating drydock.</p> <p>Depth Alongside (feet): 38 - 49 30 30</p> <p>Total Berthing Space (feet): 593</p>	<p>Mile: PWD: 36</p> <p>Datum: MLLW</p> <p>Phone: 415-861-7447</p> <p>County: San Francisco</p> <p>Latitude (decimal): 37.764444</p> <p>Longitude (decimal): -122.3825</p>
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Port Facilities by Waterway

Waterway: **San Francisco Bay** Mile: PWD: 36

Name: **San Francisco Drydock, Pier No. 4.**

Port: San Francisco

Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended. Datum: MLLW

Operator: San Francisco Drydock, Inc.

Owner: Port of San Francisco.

Address: Phone: 415-861-7447

Town: San Francisco State: CA County: San Francisco

Railway Connection: None.

Purpose: Mooring vessels for outfitting and repair; mooring floating drydock.

Depth Alongside (feet): 38 - 49 | 30 | 30 Latitude (decimal): 37.764444

Total Berthing Space (feet): | | 593 Longitude (decimal): -122.3825

Remarks: Pier is equipped with telephone connections and service lines for compressed air, water, electricity, steam, acetylene gas, and oxygen. Floating Drydock No. 1 ('Eureka'), lifting capacity 14,500 long tons, is moored along west side.

Port Series: 30 Year of Last Survey: 2000 Corps of Engnrs Waterway Code: 82202 San Francisco District

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Port Facilities by Waterway

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Port Facilities by Waterway

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Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Mooring vessels for outfitting and repair; mooring floating drydock.		
Depth Alongside (feet): 38 - 49 30 30		Latitude (decimal): 37.764444
Total Berthing Space (feet): 593		Longitude (decimal): -122.3825
Waterway: San Francisco Bay	Mile:	PWD: 36
Name: San Francisco Drydock, Pier No. 4.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: San Francisco Drydock, Inc.		
Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
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Depth Alongside (feet): 38 - 49 30 30		Latitude (decimal): 37.764444
Total Berthing Space (feet): 593		Longitude (decimal): -122.3825
Remarks: Pier is equipped with telephone connections and service lines for compressed air, water, electricity, steam, acetylene gas, and oxygen. Floating Drydock No. 1 ('Eureka'), lifting capacity 14,500 long tons, is moored along west side.		
Port Series: 30	Year of Last Survey: 2000	Corps of Engnrs Waterway Code: 82202 San Francisco District

Remarks: Pier is equipped with telephone connections and service lines for compressed air, water, electricity, steam, acetylene gas, and oxygen. Floating Drydock No. 1 ('Eureka'), lifting capacity 14,500 long tons, is moored along west side.		
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Port Facilities by Waterway

Waterway: San Francisco Bay	Mile:	PWD: 37
Name: San Francisco Drydock, Pier No. 5.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: Not operated.		
Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Not used.		
Depth Alongside (feet): 29 - 30 30 30		Latitude (decimal): 37.764722
Total Berthing Space (feet): - 746 818		Longitude (decimal): -122.3814
Waterway: San Francisco Bay	Mile:	PWD: 37
Name: San Francisco Drydock, Pier No. 5.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: Not operated.		
Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Not used.		
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Total Berthing Space (feet): - 746 818		Longitude (decimal): -122.3814
Waterway: San Francisco Bay	Mile:	PWD: 37
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Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: Not operated.		
Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Not used.		
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Remarks: At time of survey (1999) pier was in poor condition and would need repairs prior to being activated.
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Purpose: Not used.		
Depth Alongside (feet): 29 - 30 30 30		Latitude (decimal): 37.764722
Total Berthing Space (feet): - 746 818		Longitude (decimal): -122.3814
Waterway: San Francisco Bay	Mile:	PWD: 37
Name: San Francisco Drydock, Pier No. 5.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: Not operated.		
Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Not used.		
Depth Alongside (feet): 29 - 30 30 30		Latitude (decimal): 37.764722
Total Berthing Space (feet): - 746 818		Longitude (decimal): -122.3814

Port Facilities by Waterway

Waterway: San Francisco Bay	Mile:	PWD: 37
Name: San Francisco Drydock, Pier No. 5.		
Port: San Francisco		
Location: San Francisco Bay, south side of Central Basin at foot of 19th Street extended.		Datum: MLLW
Operator: Not operated.		
Owner: Port of San Francisco.		
Address:		Phone: 415-861-7447
Town: San Francisco	State: CA	County: San Francisco
Railway Connection: None.		
Purpose: Not used.		
Depth Alongside (feet): 29 - 30 30 30		Latitude (decimal): 37.764722
Total Berthing Space (feet): - 746 818		Longitude (decimal): -122.3814
Remarks: At time of survey (1999) pier was in poor condition and would need repairs prior to being activated. Pier can be equipped with telephone connections and service lines for compressed air, water, electricity, steam, acetylene gas, and oxygen.		
Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District		

Remarks: At time of survey (1999) pier was in poor condition and would need repairs prior to being activated. Pier can be equipped with telephone connections and service lines for compressed air, water, electricity, steam, acetylene gas, and oxygen.		
Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District		

Remarks: At time of survey (1999) pier was in poor condition and would need repairs prior to being activated. Pier can be equipped with telephone connections and service lines for compressed air, water, electricity, steam, acetylene gas, and oxygen.		
Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District		

Remarks: At time of survey (1999) pier was in poor condition and would need repairs prior to being activated. Pier can be equipped with telephone connections and service lines for compressed air, water, electricity, steam, acetylene gas, and oxygen.		
Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District		

Remarks: At time of survey (1999) pier was in poor condition and would need repairs prior to being activated. Pier can be equipped with telephone connections and service lines for compressed air, water, electricity, steam, acetylene gas, and oxygen.		
Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District		

Port Facilities by Waterway

Waterway: **San Francisco Bay** Mile: PWD: 3
Name: **San Francisco Marine Fuel Dock.**
Port: San Francisco
Location: San Francisco Bay, east of foot of Hyde Street extended. Datum: MLLW
Operator: G.P. Resources, Inc. d.b.a. San Francisco Marine.
Owner: Port of San Francisco.
Address: 2950 Hyde Street. Phone: 415-673-2928
Town: San Francisco State: CA County: San Francisco
Railway Connection: None.
Purpose: Fueling small vessels.
Depth Alongside (feet): 17 | 17 | 17 Latitude (decimal): 37.808889
Total Berthing Space (feet): | 50 | 44 Longitude (decimal): -122.4192
Remarks: One 4-inch pipeline extends to metered pumps on pier from 2 storage tanks in rear, total capacity 5,500 barrels. Small building on pier is used as an office and for storage.

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

Waterway: **San Francisco Bay** Mile: PWD: 2
Name: **San Francisco Maritime National Historical Park, Hyde Street Pier.**
Port: San Francisco
Location: San Francisco Bay, foot of Hyde Street extended. Datum: MLLW
Operator: National Park Service, U.S. Department of the Interior.
Owner: U.S. Government.
Address: 2905 Hyde Street. Phone: 415-556-9402
Town: San Francisco State: CA County: San Francisco
Railway Connection: None.
Purpose: Mooring vessels on exhibition.
Depth Alongside (feet): 20 | 20 | 20 Latitude (decimal): 37.809722
Total Berthing Space (feet): | 720 | 580 Longitude (decimal): -122.4211
Remarks: At time of survey (1999), the Maritime Exhibit included: Balclutha, C.A. Thayer, Eureka, Epplenon Hall, Hercules, and Alma. □

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82202 San Francisco District

Port Facilities by Waterway

Waterway: **San Francisco Bay** Mile: PWD: 1
 Name: **U.S. Coast Guard Station, Golden Gate Dock.**
 Port: San Francisco
 Location: West shore, Horseshoe Bay, approximately 0.8 mile above Golden Gate Bridge (U.S. Datum: MLLW Highway 101 and State R)
 Operator: U.S. Coast Guard.
 Owner: U.S. Government.
 Address: 435 Murray Circle. Phone: 415-331-8247
 Town: Fort Baker State: CA County: Marin
 Railway Connection: None.
 Purpose: Mooring U.S. Coast Guard vessels.
 Depth Alongside (feet): 10 | | Latitude (decimal): 37.833333
 Total Berthing Space (feet): 65 | | Longitude (decimal): -122.4772
 Remarks: Float extensions are spaced 40 feet apart, and serviced by two 2-inch diesel lines extending to tank at rear, two 2-inch waste oil lines, and one 1-inch compressed air line.
 Port Series: 30 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82400 San Francisco District

Waterway: **Santa Fe Channel** Mile: PWD: 44
 Name: **Bay Ship & Yacht Co., Richmond Wharf.**
 Port: Richmond
 Location: Left bank, Santa Fe Channel, at entrance to Richmond Yacht Harbor. Datum: MLLW
 Operator: Bay Ship & Yacht Co.
 Owner: Bay Ship & Yacht Co.
 Address: 310 West Cutting Boulevard. Phone: 510-237-0140
 Town: Richmond State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Mooring small vessels for repair.
 Depth Alongside (feet): 20 | | Latitude (decimal): 37.923056
 Total Berthing Space (feet): 120 | | Longitude (decimal): -122.3719
 Remarks: One 20-ton, mobile, vertical boat lift serves yard at rear. □ □
 Port Series: 31 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82300 San Francisco District

Waterway: **Santa Fe Channel** Mile: PWD: 47
 Name: **Castrol North America, Richmond Wharf.**
 Port: Richmond
 Location: Right bank, near head of Santa Fe Channel. Datum: MLLW
 Operator: Castrol North America, Inc.
 Owner: Castrol North America, Inc.
 Address: 801 Wharf Street. Phone: 510-236-6312
 Town: Richmond State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Receipt and shipment of petroleum products by barge and vessel.
 Depth Alongside (feet): 32 | | Latitude (decimal): 37.9225
 Total Berthing Space (feet): 700 | | Longitude (decimal): -122.3739
 Remarks: Two 6- and twelve 4-inch pipelines extend from wharf to 53 steel storage tanks located at rear, total capacity 85,000 barrels. □
 Port Series: 31 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82300 San Francisco District

Port Facilities by Waterway

Waterway: **Santa Fe Channel** Mile: PWD: 43
 Name: **IMTT-Richmond-CA, Richmond Wharf.**
 Port: Richmond
 Location: Left bank, Santa Fe Channel, above entrance to Lauritzen Canal. Datum: MLLW
 Operator: IMTT-Richmond-CA.
 Owner: IMTT-Richmond-CA.
 Address: 100 Cutting Boulevard. Phone: 510-412-5700
 Town: Richmond State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Receipt and shipment of petroleum products; receipt of caustic soda and paraffin wax.
 Depth Alongside (feet): 38 | | Latitude (decimal): 37.921111
 Total Berthing Space (feet): 650 | | Longitude (decimal): -122.3692
 Remarks: One 12-, two 10-, three 8-, and nine 6-inch pipelines extend from wharf to 38 petroleum products storage tanks in rear, total capacity 441,200 barrels, one 4,200,000-gallon caustic soda storage tank, and three paraffin wax storage tanks, total capacity 2,520,000 gallons. A 21-foot boom boat and 1,650 feet of floating boom for pollution containment is stored on wharf.
 Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82300 San Francisco District

Waterway: **Santa Fe Channel** Mile: PWD: 45
 Name: **Keefe Kaplan Maritime Wharf.**
 Port: Richmond
 Location: Left bank, Santa Fe Channel, approximately 0.5 mile from entrance. Datum: MLLW
 Operator: Keefe Kaplan Maritime, Inc. □
 Owner: Keefe Kaplan Maritime, Inc.
 Address: 530 West Cutting Boulevard. Phone: 510-235-5564
 Town: Richmond State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Mooring small vessels for repair; mooring floating drydocks..
 Depth Alongside (feet): 20 | | Latitude (decimal): 37.923889
 Total Berthing Space (feet): 500 | | Longitude (decimal): -122.3739
 Remarks: One 200- and one 100-ton, floating drydocks are located at lower end of and perpendicular to wharf. □
 Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82300 San Francisco District

Port Facilities by Waterway

Waterway: **Santa Fe Channel** Mile: PWD: 40
Name: **Levin-Richmond Terminal Corp., Richmond Wharf, Berths A, B, and C.**
Port: Richmond
Location: North side of Santa Fe Channel, and left bank of Lauritzen Canal. Datum: MLLW
Operator: Levin-Richmond Terminal Corp.
Owner: Levin-Richmond Terminal Corp.
Address: 402 Wright Avenue. Phone: 510-232-4422 x3
Town: Richmond State: CA County: Contra Costa
Railway Connection: One surface track on inner section of wharf joins additional tracks serving yard; connect with Parr Terminal Railroad, Burlington Northern Santa Fe Railway, and Union Pacific Railroad.
Purpose: Shipment of scrap metal and petroleum coke; receipt of miscellaneous dry bulk commodities, including coke, bauxite, limestone, and livestock feed.
Depth Alongside (feet): 37 | 34 | Latitude (decimal): 37.921111
Total Berthing Space (feet): 600 | 850 | Longitude (decimal): -122.3669
Remarks: Approximately 5 acres of open storage area are located at rear of face, and an additional 10 acres are located at rear.□
Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82300 San Francisco District

Waterway: **Santa Fe Channel** Mile: PWD: 48
Name: **National Gypsum Co., Richmond Dock.**
Port: Richmond
Location: Right bank, Santa Fe Channel, opposite entrance to Lauritzen Canal. Datum: MLLW
Operator: National Gypsum Co., Gold Bond Building Products.
Owner: National Gypsum Co., Gold Bond Building Products.
Address: 1040 Canal Boulevard. Phone: 510-234-6745
Town: Richmond State: CA County: Contra Costa
Railway Connection: Two platform-level tracks inside warehouse in rear connect with Burlington Northern Santa Fe Railway.
Purpose: Receipt of gypsum rock by self-unloading vessel.
Depth Alongside (feet): 38 | | Latitude (decimal): 37.919444
Total Berthing Space (feet): 600 | | Longitude (decimal): -122.3683
Remarks: Gypsum rock is obtained from San Marco Island, Baja California, Mexico. Storage dome located at rear has capacity for 40,000 tons of gypsum rock.□
Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82300 San Francisco District

Port Facilities by Waterway

Waterway: **Santa Fe Channel** Mile: PWD: 46
 Name: **Richmond Boat Works Wharf.**
 Port: Richmond
 Location: Left bank, inner end, at head of Santa Fe Channel. Datum: MLLW
 Operator: Maritime Transit Corp., d.b.a. Richmond Boat Works, Inc.
 Owner: Maritime Transit Corp.
 Address: 616 West Cutting Boulevard. Phone: 510-232-5800
 Town: Richmond State: CA County: Contra Costa
 Railway Connection: None.
 Purpose: Mooring small vessels for repair.
 Depth Alongside (feet): 5 | 20 | Latitude (decimal): 37.924444
 Total Berthing Space (feet): - | 65 | Longitude (decimal): -122.3756
 Remarks: One 20-ton, marine railway is located on lower side of wharf.□□
 Port Series: 31 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82300 San Francisco District

Waterway: **South Bay** Mile: PWD: 76
 Name: **Eureka Fisheries, Fields Landing Wharf.**
 Port: Humboldt Bay
 Location: South Bay, Humboldt Bay, below foot of C Street extended, Fields Landing. Datum: MLLW
 Operator: Eureka Fisheries, Inc.
 Owner: Furbreeders Agricultural Cooperative.
 Address: Phone: 707-443-1673
 Town: Fields Landing State: CA County: Humboldt
 Railway Connection: None.
 Purpose: Occasional receipt of seafood; mooring fishing boats.
 Depth Alongside (feet): 8 - 10 | - | - Latitude (decimal): 40.727778
 Total Berthing Space (feet): 450 | - | - Longitude (decimal): -124.2197
 Remarks: Seafood processing plant is located at rear.□□
 Port Series: 30 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82690 San Francisco District

Waterway: **South Bay** Mile: PWD: 74
 Name: **Humboldt Bay Forest Products, Fields Landing Wharf.**
 Port: Humboldt Bay
 Location: South Bay, Humboldt Bay, approximately 1,800 feet above foot of C Street extended, Datum: MLLW
 Fields Landing.
 Operator: Humboldt Bay Forest Products, Inc.
 Owner: Humboldt Bay Forest Products, Inc.
 Address: Phone: 707-443-5631
 Town: Fields Landing State: CA County: Humboldt
 Railway Connection: None.
 Purpose: Receipt and shipment of logs, lumber, and wood chips.
 Depth Alongside (feet): 36 | | Latitude (decimal): 40.732778
 Total Berthing Space (feet): 600 | | Longitude (decimal): -124.2181
 Remarks: Approximately fifty acres of open storage area are located at rear with capacity for 50,000,000 FBM of logs.□
 Port Series: 30 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82690 San Francisco District

Port Facilities by Waterway

Waterway: **South Bay** Mile: PWD: 77
Name: **Humboldt Bay Harbor, Recreation, and Conservation District, Fields**
Port: Humboldt Bay
Location: South Bay, Humboldt Bay, foot of South Bay Depot Road extended, Fields Landing. Datum: MLLW
Operator: Humboldt Bay Harbor, Recreation, and Conservation District.
Owner: Humboldt Bay Harbor, Recreation, and Conservation District.
Address: Phone: 707-443-0801
Town: Fields Landing State: CA County: Humboldt
Railway Connection: None.
Purpose: Mooring vessels and small craft for repair.
Depth Alongside (feet): 18 - 26 | 18 - 26 | Latitude (decimal): 40.723056
Total Berthing Space (feet): 1,000 | | Longitude (decimal): -124.2219
Remarks: Portions of wharf were in poor condition at time of survey (1999). Two 200- by 7-foot, concrete pile, concrete-capped piers with approximately 25-foot interior clearance, serve a 150-ton, diesel, mobile vertical boat lift.

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82690 San Francisco District

Waterway: **South Bay** Mile: PWD: 75
Name: **Hunter Enterprises, Fields Landing Floats.**
Port: Humboldt Bay
Location: South Bay, Humboldt Bay, above foot of C Street extended, Fields Landing. Datum: MLLW
Operator: Hunter Enterprises.
Owner: Hunter Enterprises.
Address: 100 C Street. Phone: 707-441-1070
Town: Fields Landing State: CA County: Humboldt
Railway Connection: None.
Purpose: Mooring fishing vessels.
Depth Alongside (feet): 0 - 8 | | Latitude (decimal): 40.728333
Total Berthing Space (feet): 80 | - | Longitude (decimal): -124.2192
Remarks: -□□

Port Series: 30 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82690 San Francisco District

Waterway: **Tidal Canal** Mile: PWD: 27
Name: **Dutra Construction Co., Alameda Wharf.**
Port: Alameda
Location: South side, Tidal Canal, foot of Walnut Street extended. Datum: MLLW
Operator: Dutra Construction Co., Inc.
Owner: The Dutra Group.
Address: 2199 Clement Avenue. Phone: 510-522-3758
Town: Alameda State: CA County: Alameda
Railway Connection: None.
Purpose: Mooring derrick barges and other company-owned, floating equipment.
Depth Alongside (feet): 10 - 0 | | Latitude (decimal): 37.773889
Total Berthing Space (feet): 680 | | Longitude (decimal): -122.2406
Remarks: Contractor's dispatch office and maintenance buildings are located at rear.□□

Port Series: 31 Year of Last Survey: 2000 Corps of Engrs Waterway Code: 82280 San Francisco District

Port Facilities by Waterway

Waterway: **Tidal Canal** Mile: PWD: 25
 Name: **Hanson Aggregates Mid-Pacific, Oakland Wharf.**
 Port: Oakland
 Location: North side, Tidal Canal, 400 feet above High Street Bridge. Datum: MLLW
 Operator: Hanson Aggregates Mid-Pacific, Ltd.
 Owner: Hanson Aggregates Mid-Pacific, Ltd.
 Address: 4501 Tidewater Avenue. Phone: 510-261-8533
 Town: Oakland State: CA County: Alameda
 Railway Connection: None.
 Purpose: Receipt of sand and gravel by barge.
 Depth Alongside (feet): 15 | | Latitude (decimal): 37.763333
 Total Berthing Space (feet): 238 | | Longitude (decimal): -122.2228
 Remarks: Approximately 2 1/2 acres of open storage area are located in rear. □□
 Port Series: 31 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82280 San Francisco District

Waterway: **Tidal Canal** Mile: PWD: 26
 Name: **Stone Boat Yard Wharf.**
 Port: Alameda
 Location: South side, Tidal Canal, between foot of Broadway and Everett Street. Datum: MLLW
 Operator: Stone Boat Yard.
 Owner: David Olson.
 Address: 2517 Blanding Avenue. Phone: 415-523-3030
 Town: Alameda State: CA County: Alameda
 Railway Connection: None.
 Purpose: Mooring small vessels for repair and outfitting.
 Depth Alongside (feet): 17 | 17 | 17 Latitude (decimal): 37.770278
 Total Berthing Space (feet): 150 | 90 | 80 Longitude (decimal): -122.2333
 Remarks: Two parallel steel pile, steel frame runways extend from face of wharf forming a 50- by 22-foot rectangular slip for one 50-ton, diesel, mobile, vertical boat lift. A 500-ton marine railway located at upper side of wharf.
 Port Series: 31 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82280 San Francisco District

Waterway: **Tidal Canal** Mile: PWD: 28
 Name: **U.S. Naval and Marine Corps Reserve Center Alameda Wharf.**
 Port: Alameda
 Location: South side, Tidal Canal, 300 feet above foot of Willow Street extended. Datum: MLLW
 Operator: Not operated.
 Owner: U. S. Government.
 Address: 2144 Clement Avenue. Phone: 510-814-2622
 Town: Alameda State: CA County: Alameda
 Railway Connection: None.
 Purpose: Not used.
 Depth Alongside (feet): 13 - 14 | | Latitude (decimal): 37.775278
 Total Berthing Space (feet): 50 | | Longitude (decimal): -122.2419
 Remarks: Approximately 14 acres of open storage area and Naval and Marine Corps Reserve Center are located at rear. □
 Port Series: 31 Year of Last Survey: 2000 Corps of Engrns Waterway Code: 82280 San Francisco District

Port Facilities by Waterway

Waterway: **West Point Slough** Mile: PWD: 46
Name: **Port of Redwood City Barge Wharf.**
Port: Redwood City
Location: Left bank, Westpoint Slough, above junction with Redwood Creek. Datum: MLLW
Operator: Bell Marine Co., Inc.
Owner: Port of Redwood City.
Address: Phone: 650-369-9189
Town: Redwood City State: CA County: San Mateo
Railway Connection: None.
Purpose: Mooring company-owned tugboats and barges.
Depth Alongside (feet): 5 - 12 | | Latitude (decimal): 37.5175
Total Berthing Space (feet): 640 | | Longitude (decimal): -122.2042
Remarks: Approximately 9.2 acres of open storage area are located at rear.□□
Port Series: 30 Year of Last Survey: 2000 Corps of Engnr's Waterway Code: 82238 San Francisco District

US Army Corps of Engineers
Dredging Contracts Awarded

District San Francisco

JOBNAME	Dredge Type	Bid Date	Quantity Cubic Yards	Government Estimate	Winning Bid	Winning Bidder	Status of Business	Number of Bidders
FY 1996 Awards								
HUMBOLDT HBR (BAR & ENTR.)	H	8/22/1996	696,800	\$1,225,730	\$1,136,000	MANSON CONSTR. & ENGRNG CO	L	2
MOSS LANDING HARBOR	P	5/2/1996	28,000	\$325,800	\$312,000	NEHALEM RIVER DREDGING	E	4
OAKLAND ARMY BASE	H	12/21/1995	20,000	\$145,000	\$131,760	MANSON CONSTR. & ENGRNG CO	L	3
PETALUMA RIVER, RIVER CH.	P	8/23/1996	164,700	\$935,830	\$759,100	NEHALEM RIVER DREDGING	E	3
REDWOOD CITY HARBOR	B	2/22/1996	1,080,000	\$4,066,400	\$4,197,786	DUTRA DREDGING CO.	L	3
SUISUN BAY CHANNEL	H	7/11/1996	186,000	\$630,000	\$742,140	MANSON CONSTR. & ENGRNG CO	L	2
			2,175,500	\$7,328,760	\$7,278,786			
FY 1997 Awards								
Humboldt Bar & Entrance	H	9/15/1997	490,500	\$1,015,691	\$991,110	MANSON CONSTR. & ENGRNG CO	L	1
NAPA RIVER	P	8/25/1997	150,000	\$1,291,872	\$712,080	ROY D. GARREN, INC.	S	3
Richmond Harbor (-11.6 M)	W	4/24/1997	2,091,000	\$22,949,500	\$26,367,300	MANSON/GREAT LAKES-JV	L	1
SAN LEANDRO MARINA	X	4/16/1997	172,000	\$1,794,110	\$1,492,665	ROSS ISLAND SAND & GRAVEL CO.	L	4
SAN RAFAEL CREEK (FLATS)	X	7/15/1997	156,500	\$662,200	\$998,150	MANSON CONSTR. & ENGRNG CO	L	2
			3,060,000	\$27,713,373	\$30,561,305			
FY 1998 Awards								
CRESCENT CITY HARBOR	X	8/20/1998	65,000	\$450,370	\$252,500	NEHALEM RIVER DREDGING	E	3
OAKLAND HARBOR (Inner)	H	9/12/1998	205,000	\$895,359	\$723,000	GREAT LAKES DREDGE & DOCK CO.	L	3
Oakland Harbor (Outer)	H	7/10/1998	352,700	\$1,235,020	\$1,530,260	MANSON CONSTR. & ENGRNG CO	L	4
Petaluma River (ATF)	H	9/10/1998	211,800	\$1,948,979	\$1,058,200	MANSON CONSTR. & ENGRNG CO	L	3
SUISUN BAY CHANNEL	H	5/22/1998	720,000	\$1,478,663	\$1,236,800	MANSON CONSTR. & ENGRNG CO	L	1
			1,554,500	\$6,008,391	\$4,800,760			
FY 1999 Awards								
Humboldt Deepening	H	4/30/1999	5,500,000	\$17,755,000	\$13,470,000	MANSON CNST/BEAN STUYVESANT JV	L	2
Moss Landing Harbor	P	10/13/1998	39,300	\$535,250	\$459,885	NEHALEM RIVER DREDGING	E	1
Moss landing Harbor	P	4/29/1999	63,200	\$1,369,470	\$868,448	NEHALEM RIVER DREDGING	E	3
Napa River	B	7/6/1999	140,000	\$1,302,668	\$1,335,000	DUTRA DREDGING CO.	L	4
Oakland Harbor	B	8/10/1999	364,300	\$7,231,575	\$7,529,234	DUTRA DREDGING CO.	L	2
Pinole Shoals Channel	H	4/22/1999	450,500	\$2,269,478	\$2,098,775	NATCO LIMITED PARTNERSHIP	L	3
Redwood City Harbor	H	10/9/1998	534,000	\$3,186,856	\$2,265,300	MANSON CONSTR. & ENGRNG CO	L	3
Suisun Bay Channel	H	7/23/1999	146,000	\$2,073,592	\$2,499,480	MANSON CONSTR. & ENGRNG CO	L	2
			7,237,300	\$35,723,889	\$30,526,122			

US Army Corps of Engineers
Dredging Contracts Awarded

District San Francisco

JOBNAME	Dredge Type	Bid Date	Quantity Cubic Yards	Government Estimate	Winning Bid	Winning Bidder	Status of Business	Number of Bidders
FY 2000 Awards Oakland Harbor (In & Out)	B	3/17/2000	476,468	\$7,231,575	\$7,529,234	DUTRA DREDGING CO.	L	2
			476,468	\$7,231,575	\$7,529,234			

Dredge Type

B Bucket
D Dustpan
H Hopper
N Nonconventional
P Pipeline

S Sidecaster
W Combination - All types
X Pipeline & Bucket
Y Pipeline & Hopper
Z Hopper & Bucket
u undefined

Status of Business

E Emerging Small
L Large
S Small