

San Diego Bay Marinas Copper Sampling
15-Mar-04

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15-Mar-04						
Crew: Pete Michael, James Smith, Christina Arias, Lesley Dobalian						
Sample ID no. (from database): dobal-0304-0001						
Lab: Columbia Analytical Services						
MDL: 0.01 ppb						
Analysis Method: Reductive precipitation prep + EPA 200.8						
Location	Sample Name	Dissolved Copper concentration (ppb)	Time	Lat/Long	Comments	Additional Comments
Marriott Marina	MM1	5.67	8:31	32°42'28.2" 117°10'7.8"	Sample obtained in the west side of marina; sample also obtained here for Enviromatrix; Did not triple rinse sample here	One sample was obtained at each of the three MM sites for comparison through Enviromatrix. In hindsight, samples should also have been obtained from areas expected to be lowest in concentration, unlike MM.
Marriott Marina	MM2	5.15	8:32	32°42'22.6" 117°10'1.3"	Sample obtained in the middle of MM; sample also obtained here for Enviromatrix	
Marriott Marina	MM3	5.28	8:34	32°34'17.7" 117°9'53.9"	Sample obtained in the east side of marina; sample also obtained here for Enviromatrix	
Marriott Marina - Main Channel	MMC	2.1	8:55	32°42'10.5" 117°10'7.4"	Sample obtained in the main channel area associated with the Marriott Marina	
Harbor Island East	HE1	5.6	9:30	32°43'38.1" 117°11'40.4"	Sample obtained off of last pier in innermost marina.	
Harbor Island East	HE2	5.72	9:32	32°43'37.5" 117°11'32.5"	Sample obtained off pier no. 6 from entrance.	
Harbor Island East	HE3	5.02	9:35	32°43'36.6" 117°11'19.9"	Sample obtained off pier no. 2 from entrance.	
Harbor Island West	HW1	6.72	9:50			
Harbor Island West	HW2	6.99	9:51	32°43'41.8" 117°11'57.3"	Triplicate samples. Samples obtained in the innermost location near the fence between the park and hotel.	
Harbor Island West	HW3	5.04	9:52			
Harbor Island West	HW4	5.82	10:00	32°43'39.1" 117°12'5.9"	Samples obtained between piers 6 and 7.	

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Location	Sample Name	Dissolved Copper concentration (ppb)	Time	Lat/Long	Comments	Additional Comments
Harbor Island West	HWQC1	4.81	10:12	32°43'38.9" 117°12'15.6"	Samples obtained between piers 12 and 13. Triplicate for QC at lab's request with HWQC1-3:	
Harbor Island West	HWQC2	6.68	10:13			
Harbor Island West	HWQC3	6.87	10:14			
Harbor Island West	HW5	6.31	10:32	32°43'36.8" 117°12'26.1"	Sample obtained between piers 18 and 19.	
Harbor Island West	HW6	4.78	10:38	32°43'36.7" 117°12'38.6"	Sample obtained between piers 24 and 25.	
Harbor Island West Channel	HWC	2.04	10:50	32°43'9.0" 117°12'48.6"	Sample obtained in main channel outside of Warbor Island West.	
America's Cup	AC1	3.23	11:20	32°43'14.7" 117°13'8.1"	Sample obtained near the entrance.	
America's Cup	AC2	3.87	11:25	32°43'23.6" 117°13'21.8"	Sample obtained between piers 3 and 4.	
America's Cup	AC3	5.72	11:30	32°43'25.4" 117°13'33.7"	Sample obtained by the bridge and the pier.	
America's Cup	AC4	4.96	11:35	32°43'20.7" 117°13'36.0"	Sample obtained near piling number 6 and Kettenberg marina.	
America's Cup	AC5	3.84	11:40	32°43'10.9" 117°13'24.5"	Sample obtained at west corner of marina near piling 2 and the Shelter Island boatyard.	
Ocean Channel	OC1	1.61	11:50	32°40'54.8" 117°13'47.1"	Samples obtained in ocean near ballast point in the middle of the channel between buoys 11 and 12.	
Ocean Channel	OC2	1.56	11:51			
Ocean Channel	OC3	1.43	11:52			

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