

SUMMARY: Samples were collected immediately after the spill upstream as a control (point of reference) location (W-016) and downstream of the boom containment area (W-003). Since the release of the data, two more booms were installed upstream of W-003 and upstream of W-002, since it appears that some of the contaminants may be making their way through the containment zone, as indicated in the W-003. In addition, samples were collected within the boom containment area and as anticipated with a diesel spill, the values of Total Petroleum Hydrocarbons-Diesel remain above the water quality habitat goals of 640 micrograms per liter in one location. California Department of Fish and Wildlife anticipates that the diesel will naturally attenuate over a timeframe of months; therefore, other clean up alternatives are currently being explored. With the movement of the creek, the booms in place to absorb any remaining fuel products, and the natural degradation of fuel, VA third party experts expect the values to continue on a downward trend. Sampling results have been provided to the City as the VA receives them and results will continue to be released publicly online as they become available.



Matadero Creek Sampling Sites @ VA Hospital Diesel Spill Site



Table 1 (Updated August 24, 2021): Summary of Water Quality Samples within the boom containment area for total petroleum hydrocarbons, total petroleum hydrocarbons-diesel (with silica gel cleanup), and BTEX (benzene, toluene, ethylbenzene and xylenes).

Sample ID	Sample Location	Sample Date	Total Petroleum Hydrocarbons- Diesel	Total Petroleum Hydrocarbons-Diesel (with Silica Gel Cleanup)*	BTEX (benzene, toluene, ethylbenzene and xylenes)
			(all results reported in micrograms per liter [µg/L])		
VA-Creek Outfall	under pipe outfall (near W-014)	05/07/21	65	---	ND
VA-A Creek	upstream of release, past W-016	05/07/21	ND	---	ND
VA-A-1		05/08/21	ND	---	ND
VA-A-2		05/09/21	ND	---	ND
VA-B Creek	downstream of bridge, past W-001	05/07/21	310	---	Xylenes - 2.0
VA-B-1		05/08/21	320	---	ND
VA-B-2		05/09/21	130	---	ND
W-001	downstream of bridge	05/10/21	210	---	ND
		06/01/21	ND	---	ND
		06/04/21	ND	---	ND
		06/10/21	51	---	ND
		06/13/21	ND	---	ND
		06/16/21	100	---	ND
		06/19/21	58	---	ND
		06/22/21	ND	---	ND
		06/25/21	38	---	---
		07/07/21	ND	---	ND
		07/14/21	ND	---	ND
		07/21/21	ND	---	ND
		07/28/21	ND	---	---
		08/04/21	ND	---	ND
08/11/21	ND	---	---		
08/18/21	ND	---	ND		
W-002	along bridge, downstream side	05/10/21	110	---	ND
		06/02/21	ND	---	ND

		06/05/21	45	---	ND
		06/08/21	52	---	ND
		06/11/21	ND	---	ND
		06/14/21	ND	---	ND
		06/17/21	83	---	ND
		06/23/21	45	---	ND
		06/28/21	47	---	---
		07/09/21	ND	---	ND
		07/16/21	ND	---	ND
		07/23/21	ND	---	---
		07/30/21	ND	---	Toluene - 0.53
		08/06/21	50	---	---
		08/13/21	ND	---	---
		05/10/21	140	---	ND
		05/18/21	47	---	ND
		05/19/21	83	---	ND
		05/21/21	1,100	---	ND
		05/22/21	55	---	ND
		05/23/21	39	---	ND
		05/24/21	1,500	---	ND
		05/25/21	48	---	ND
		05/26/21	ND	---	ND
		05/28/21	160	---	ND
		05/29/21	43	---	ND
		06/03/21	ND	---	ND
		06/06/21	ND	---	ND
		06/09/21	120	---	ND
		06/12/21	ND	---	ND
		06/15/21	49	---	ND
		06/18/21	81	---	ND
		06/30/21	ND	---	---
		07/12/21	ND	---	ND
		07/19/21	ND	---	ND
		07/27/21	ND	---	ND
		08/02/21	ND	---	---
		08/09/21	ND	---	---
W-003	approximately 10 feet downstream of last boom				

		08/16/21	ND	---	---
W-004	between 3rd and 4th boom going upstream	05/10/21	2,600	---	ND
		05/19/21	2,700	---	ND
		05/23/21	920	---	ND
		05/26/21	2,400	---	ND
		05/29/21	480	---	ND
		06/02/21	55	---	ND
		06/05/21	99	---	ND
		06/09/21	63	---	ND
		06/13/21	67	---	ND
		06/16/21	4,800	6,000	ND
		06/19/21	12,000	10,000	ND
		06/25/21	2,000	1,600	ND
		07/07/21	200	---	ND
		07/14/21	120	---	ND
		07/19/21	310	---	ND
		07/28/21	51	---	---
		08/04/21	49	---	ND
		08/11/21	ND	---	---
		08/18/21	76	---	ND
		W-005	between 5th and 6th boom going upstream	05/10/21	2,900
05/24/21	860			---	ND
06/04/21	570			---	ND
06/08/21	140			---	ND
06/10/21	92			---	ND
06/12/21	39			---	ND
06/13/21	66			---	ND
06/15/21	59			---	ND
06/18/21	150			---	ND
06/22/21	200			---	ND
06/25/21	230			---	---
06/30/21	68			---	---
07/12/21	230			---	ND
07/16/21	54			---	ND
07/27/21	ND			---	ND
07/28/21	ND	---	ND		

		08/02/21	700	---	---
		08/09/21	950	PENDING	---
		08/11/21	ND	---	---
		08/16/21	ND	---	---
W-006	between 6th and 7th boom going upstream	05/10/21	5,200	---	ND
		05/21/21	3,200	---	ND
		05/26/21	7,700	---	ND
		06/03/21	5,700	4,800	ND
		06/09/21	16,000	3,500	ND
		06/11/21	410	---	ND
		06/14/21	1,500	1,400	ND
		06/16/21	660	---	ND
		06/17/21	1,000	---	ND
		06/19/21	340	---	ND
		06/23/21	3,200	---	ND
		06/28/21	4,000	3,600	---
		07/07/21	2,600	2,600	ND
		07/09/21	1,300	PENDING	ND
		07/14/21	250	---	ND
		07/19/21	1,400	PENDING	ND
		07/23/21	79	---	---
		07/30/21	490	---	ND
		08/04/21	370	---	ND
		08/06/21	270	---	---
08/13/21	310	---	---		
08/18/21	310	---	ND		
W-007	between 7th and 8th boom going upstream	05/10/21	190,000	---	ND
		05/18/21	6,500	---	ND
		05/28/21	2,700	---	ND
		06/01/21	1,800	---	ND
		06/06/21	6,500	7,900	ND
		06/10/21	15,000	13,000	ND
		06/11/21	57	---	ND
		06/13/21	74	---	ND
		06/15/21	5,700	5,400	ND
		06/17/21	8,400	8,500	ND

		06/19/21	47*	---	ND
		06/22/21	8,000	7,600	ND
		06/23/21	11,000	---	ND
		06/25/21	8,800	7,700	---
		06/30/21	6,600	7,500	---
		07/07/21	2,800	2,900	ND
		07/09/21	800	---	ND
		07/14/21	1,500	1,800	ND
		07/21/21	2,200	---	ND
		07/23/21	680	---	---
		08/02/21	2,500	2,600	---
		08/06/21	790	---	---
		08/11/21	3,300	3,100	---
		08/16/21	ND	---	---
		08/18/21	3,700	PENDING	ND
W-008	in shallow divided part of creek	05/10/21	2,400	---	ND
		05/22/21	1,500	---	ND
		05/25/21	ND	---	ND
		06/04/21	63	---	ND
		06/08/21	180	---	ND
		06/09/21	53	---	ND
		06/12/21	55	---	ND
		06/14/21	82	---	ND
		06/16/21	ND	---	ND
		06/18/21	470	---	ND
		06/28/21	74	---	---
		07/07/21	ND	---	ND
		07/12/21	160	---	ND
		07/16/21	120	---	ND
		07/19/21	140	---	ND
		07/27/21	530	---	ND
		07/30/21	4,400	PENDING	ND
		08/04/21	ND	---	ND
		08/09/21	320	---	---
		08/13/21	290	---	---
08/18/21	ND	---	ND		

W-009	downstream of foot bridge	05/10/21	120	---	ND
		05/18/21	ND	---	ND
		05/23/21	1,100	---	ND
		05/28/21	150	---	ND
		06/01/21	ND	---	ND
		06/05/21	180	---	ND
		06/06/21	500	---	ND
		06/10/21	160	---	ND
		06/13/21	41	---	ND
		06/17/21	ND	---	ND
		06/22/21	ND	---	ND
		06/25/21	95	---	---
		06/30/21	ND	---	---
		07/09/21	ND	---	ND
		07/16/21	60	---	ND
		7/28/21	ND	---	---
		08/04/21	ND	---	ND
		08/06/21	310	---	---
		08/11/21	91	---	---
		08/16/21	65	---	---
W-010	just upstream of foot bridge	05/10/21	84	---	ND
		05/21/21	45	---	ND
		05/24/21	190	---	ND
		06/03/21	ND	---	ND
		06/11/21	ND	---	ND
		06/17/21	130	---	ND
		06/23/21	ND	---	ND
		06/28/21	ND	---	---
		7/9/21	ND	---	ND
		07/21/21	ND	---	ND
		07/23/21	ND	---	---
		07/30/21	ND	---	ND
		08/06/21	ND	---	---
		08/13/21	ND	---	---
W-011	between foot bridge and outfall pipe	05/10/21	100	---	ND
		05/19/21	63	---	ND

		05/22/21	46	---	ND
		05/23/21	39	---	ND
		05/25/21	1,500	---	ND
		05/29/21	670	---	ND
		06/02/21	96	---	ND
		06/05/21	ND	---	ND
		06/08/21	89	---	ND
		06/12/21	71	---	ND
		06/15/21	890	---	ND
		06/30/21	84	---	ND
		7/12/21	82	---	ND
		07/21/21	68	---	ND
		07/27/21	ND	---	ND
		08/02/21	70	---	---
		08/09/21	ND	---	---
		08/16/21	ND	---	---
W-012	between foot bridge and outfall pipe	05/11/21	3,400	---	ND
		05/18/21	560	---	ND
		05/26/21	ND	---	ND
		06/01/21	ND	---	ND
		06/09/21	270	---	ND
		06/14/21	410	---	ND
		06/18/21	210	---	ND
		06/28/21	520	---	---
		07/12/21	95	---	ND
		07/16/21	880	PENDING	ND
		7/28/21	ND	---	---
		07/30/21	120	---	ND
		08/13/21	46	---	---
W-013	between foot bridge and outfall pipe	05/11/21	2,400	---	ND
		05/21/21	970	---	ND
		05/24/21	150	---	ND
		06/03/21	71	57	ND
		06/11/21	84	---	ND
		06/15/21	72	---	ND
		06/19/21	130	---	ND

		06/23/21	ND	---	ND
		07/19/21	2,100	PENDING	ND
		7/23/21	ND	---	---
		08/02/21	ND	---	---
		08/09/21	ND	---	---
W-014	by outfall pipe	05/11/21	ND	---	ND
		05/19/21	ND	---	ND
		05/28/21	ND	---	ND
		05/29/21	ND	---	ND
		06/02/21	ND	---	ND
		06/06/21	ND	---	ND
		06/10/21	42	---	ND
		06/12/21	ND	---	ND
		06/16/21	45	---	ND
		06/22/21	120	---	ND
		07/07/21	51	---	ND
		07/09/21	ND	---	ND
		07/14/21	ND	---	ND
		07/21/21	85	---	ND
		07/27/21	ND	---	ND
		07/28/21	ND	---	---
		08/04/21	ND	---	ND
		08/06/21	ND	---	---
		08/09/21	41	---	---
		08/18/21	ND	---	ND
W-015	upstream of outfall pipe	05/11/21	36,000	---	ND
		05/22/21	150	---	ND
		05/25/21	38	---	ND
		06/04/21	ND	---	ND
		06/08/21	ND	---	ND
		06/14/21	49	---	ND
		06/18/21	ND	---	ND
		06/28/21	190	---	---
		07/14/21	110	---	ND
		07/19/21	130	---	ND
		07/27/21	40	---	ND

		7/30/21	84	---	ND
		08/13/21	50	---	---
W-016	between two upstream booms	05/11/21	ND	---	ND
		05/18/21	ND	---	ND
		05/19/21	ND	---	ND
		05/21/21	39	---	ND
		05/22/21	ND	---	ND
		05/23/21	ND	---	ND
		05/24/21	ND	---	ND
		05/25/21	ND	---	ND
		05/26/21	ND	---	ND
		05/28/21	ND	---	ND
		05/29/21	ND	---	ND
		06/01/21	ND	---	ND
		06/02/21	ND	---	ND
		06/03/21	ND	---	ND
		06/04/21	ND	---	ND
		06/05/21	93	---	ND
		06/06/21	ND	---	ND
		06/08/21	ND	---	ND
		06/09/21	ND	---	ND
		06/10/21	ND	---	ND
		06/11/21	ND	---	ND
		06/12/21	ND	---	ND
		06/13/21	70	---	ND
		06/14/21	ND	---	ND
		06/15/21	ND	---	ND
		06/16/21	ND	---	ND
		06/17/21	ND	---	ND
		06/18/21	ND	---	ND
		06/19/21	ND	---	ND
		06/22/21	ND	---	ND
06/23/21	ND	---	ND		
06/25/21	ND	---	---		

05/21/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
05/22/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
05/23/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
05/24/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
05/25/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
05/26/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
05/28/21	ND	ND	ND	ND	ND	ND	ND	ND	0.099	0.33	0.26	ND	ND	ND	ND
05/29/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/01/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/02/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/03/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/04/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/05/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/06/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/08/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/09/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/10/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/11/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/12/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/13/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/14/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/15/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/16/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/17/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/18/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/19/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/22/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/23/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
07/12/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
07/16/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

San Francisco RWQCB Water Habitat Goals (Freshwater - Table GW-2 Aquatic Habitat Screening Levels), 2019, Revision 2	0.73	0.014	0.10	NL	0.025	8.0	3.9	0.049	NL	2.1	0.24	6.3	2.0	Various
---	------	--------------	------	----	-------	-----	-----	--------------	----	------------	-------------	-----	-----	---------

NL= No Limit; ND = Non Detect; *sample analytical results are still DRAFT from laboratory pending QA/QC