

Site: Exxon Oil Pipeline Release
 Location: Mayflower, AR
 Collection Date: 4/16/2013
 Report Date: 4/19/2013
 Media: Surface Water Samples

		Dissolved Metals																Drinking Water	
Contaminant	Units	SAM 5- S/WS-017S	SAM 5- B/WS-017B	SAM 4- S/WS-016S	SAM 4- B/WS-016B	SAM 3- S/WS-015S	SAM 3- B/WS-015B	SAM 2- S/WS-014S	SAM 2- B/WS-014B	SAM 1- S/WS-013S	SAM 1- B/WS-013B	FWS 2- S/WS-011S	FWS 2- B/WS-011B	FWS 3- S/WS-012S	FWS 3- B/WS-012B	FWS 1- S/WS-010S	FW1 1- B/WS-010B	SLs ⁽²⁾	
Aluminum	ug/L	21.8	23.2	23.9	22.8	34.5	29.7	58.5	49.6	52.1	56.9	46.1	45.2	81.5	63.6	103	126	5.0	16,000*
Antimony	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	30	6.0
Arsenic	ug/L	<0.5	0.56	0.5	<0.5	<0.5	0.51	0.5	0.54	<0.5	<0.5	0.53	0.53	0.71	0.65	0.81	1.06	5.0	10
Barium	ug/L	11.5	11.3	11.3	11.2	11.7	11.9	13.1	13.2	13	13.4	13	12.8	13.2	13	15.3	17.2	3.9	2,000
Beryllium	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.53	4.0
Boron	ug/L	14.6	15	13.5	13.2	12.7	12.9	10.6	11.9	9.9	9.58	12	12	12.6	11.8	11.8	11.6	1.6	3,100
Cadmium	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.017	5.0
Calcium	mg/L	3.54	11.2	11.5	9.38	8.47	11.7	10.8	10.7	10.2	10	11.4	10.6	10.8	10.7	10.8	11.2	116	NA
Chromium	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.0	100
Cobalt	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.74	1.28	3.0	4.7*
Copper	ug/L	0.91	1.02	1	0.8	0.84	0.77	0.64	0.72	0.77	0.64	0.81	0.84	0.98	0.9	0.98	1.11	0.23	1300
Iron	ug/L	127	133	122	119	145	146	182	178	184	199	152	152	207	195	219	236	158	11,000*
Lead	ug/L	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	1.0	15
Magnesium	mg/L	1.62	1.65	1.54	1.52	1.47	1.48	1.31	1.36	1.25	1.25	1.42	1.4	1.4	1.4	1.4	1.38	82	NA
Manganese	ug/L	10.1	11.6	9.64	10.3	42	44.6	82.5	84.1	108	118	63	58.6	174	124	357	546	80	320*
Nickel	ug/L	1.07	1.14	1.36	0.84	0.95	0.91	0.91	0.98	0.89	0.86	0.78	0.81	0.98	0.93	1.14	1.34	25	300*
Potassium	mg/L	1.89	1.85	1.78	1.7	1.74	1.71	1.52	1.58	1.43	1.41	1.66	1.64	1.66	1.64	1.67	1.71	53	NA
Selenium	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.0	50
Silicon Dioxide	mg/L	1.52	1.55	1.53	1.73	2.04	2.04	2.92	2.88	3.06	3.11	2.41	2.4	2.68	2.5	3.2	3.59	NA	NA
Silver	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.12	71*
Sodium	mg/L	6.16	6.23	5.81	5.64	5.2	5.22	3.87	4	3.31	3.19	4.8	4.76	4.74	4.71	4.66	4.56	680	NA
Thallium	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	2.0
Vanadium	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.51	19	78*
Zinc	ug/L	4.02	2.06	6.9	3.41	7	2.66	8.56	3.6	6.21	3.52	3.45	2.61	2.46	2.7	3.78	6.49	30	4,700*

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Contaminant	Units	Total Metals																Eco SLs ⁽¹⁾	Drinking Water SLs ⁽²⁾
		SAM 5- S/WS-017S	SAM 5- B/WS-017B	SAM 4- S/WS-016S	SAM 4- B/WS-016B	SAM 3- S/WS-015S	SAM 3- B/WS-015B	SAM 2- S/WS-014S	SAM 2- B/WS-014B	SAM 1- S/WS-013S	SAM 1- B/WS-013B	FWS 2- S/WS-011S	FWS 2- B/WS-011B	FWS 3- S/WS-012S	FWS 3- B/WS-012B	FWS 1- S/WS-010S	FW1 1- B/WS-010B		
Aluminum	ug/L	234	267	272	287	296	264	385	360	417	544	338	398	81.5	761	2990	2560	5.0	16,000*
Antimony	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	30	6.0
Arsenic	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.71	<1	1.35	1.69	5.0	10
Barium	ug/L	15	15.2	15.4	15.8	16	15.7	16.8	16.8	16.8	20.4	18.3	18.6	13.2	20.4	39.2	51.2	3.9	2,000
Beryllium	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	0.53	4.0
Boron	ug/L	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	12.6	<25	<25	<25	1.6	3,100
Cadmium	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.1	<1	<1	<1	0.017	5.0
Calcium	mg/L	8.73	6.46	8.85	9.1	11.4	11.7	10.3	10.5	10.4	11	10.7	11.5	10.8	11	3.2	6.43	116	NA
Chromium	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	2.96	2.44	2.0	100
Cobalt	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	1.78	2.88	3.0	4.7*
Copper	ug/L	1.14	1.21	1.11	1.07	1.15	<1	<1	<1	1.04	1.03	<1	1.01	0.98	1.24	2.17	2.97	0.23	1,300
Iron	ug/L	585	634	677	673	677	651	604	646	626	1140	645	668	207	980	2140	3760	158	11,000*
Lead	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.3	<1	2.86	4.87	1.0	15
Magnesium	mg/L	1.65	1.66	1.52	1.57	1.5	1.49	1.35	1.37	1.28	1.3	1.43	1.47	1.4	1.49	1.71	1.77	82	NA
Manganese	ug/L	103	109	131	131	156	156	150	158	160	217	181	179	174	228	465	688	80	320*
Nickel	ug/L	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	0.98	<2.5	3	3.81	25	300*
Potassium	mg/L	2.03	2.06	1.93	1.98	1.88	1.84	1.69	1.67	1.56	1.54	1.78	1.82	1.66	1.82	2.17	2	53	NA
Selenium	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	1.0	50
Silver	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	2.68	<5	<5	<5	0.12	71*
Sodium	mg/L	6.09	6.12	5.61	5.72	5.26	5.12	3.9	3.98	3.32	3.18	4.77	4.88	<0.5	4.73	4.73	4.59	680	NA
Thallium	ug/L	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	4.74	<2.5	<2.5	<2.5	0.8	2.0
Vanadium	ug/L	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<2.5	4.24	4.08	19	78*
Zinc	ug/L	<3	3.08	4.64	<3	4.4	<3	3.07	<3	3.87	<3	<3	<3	<0.5	3.53	9.49	17.8	30	4,700*

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Oil & Grease																			
Contaminant	Units	SAM 5- S/WS-017S	SAM 5- B/WS-017B	SAM 4- S/WS-016S	SAM 4- B/WS-016B	SAM 3- S/WS-015S	SAM 3- B/WS-015B	SAM 2- S/WS-014S	SAM 2- B/WS-014B	SAM 1- S/WS-013S	SAM 1- B/WS-013B	FWS 2- S/WS-011S	FWS 2- B/WS-011B	FWS 3- S/WS-012S	FWS 3- B/WS-012B	FWS 1- S/WS-010S	FW1 1- B/WS-010B	Eco SLs ⁽¹⁾	Drinking Water SLs ⁽²⁾
Oil & Grease	mg/L	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	0.00001	NA

Semi-Volatile Organic Compounds (SVOCs)																			
Contaminant	Units	SAM 5- S/WS-017S	SAM 5- B/WS-017B	SAM 4- S/WS-016S	SAM 4- B/WS-016B	SAM 3- S/WS-015S	SAM 3- B/WS-015B	SAM 2- S/WS-014S	SAM 2- B/WS-014B	SAM 1- S/WS-013S	SAM 1- B/WS-013B	FWS 2- S/WS-011S	FWS 2- B/WS-011B	FWS 3- S/WS-012S	FWS 3- B/WS-012B	FWS 1- S/WS-010S	FW1 1- B/WS-010B	Eco SLs ⁽¹⁾	Drinking Water SLs ⁽²⁾
Bis(2-ethylhexyl)phthalate	ug/L	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	1.6	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.3	2.0

Volatile Organic Compounds (VOCs)																			
Contaminant	Units	SAM 5- S/WS-017S	SAM 5- B/WS-017B	SAM 4- S/WS-016S	SAM 4- B/WS-016B	SAM 3- S/WS-015S	SAM 3- B/WS-015B	SAM 2- S/WS-014S	SAM 2- B/WS-014B	SAM 1- S/WS-013S	SAM 1- B/WS-013B	FWS 2- S/WS-011S	FWS 2- B/WS-011B	FWS 3- S/WS-012S	FWS 3- B/WS-012B	FWS 1- S/WS-010S	FW1 1- B/WS-010B	Eco SLs ⁽¹⁾	Drinking Water SLs ⁽²⁾
Toluene	ug/L	<0.57	0.584	<0.57	<0.57	<0.57	<0.57	<0.57	0.583	0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	2.0	1,000
Ethylbenzene	ug/L	<0.51	0.514	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	7.3	700
Styrene	ug/L	1.05	<0.53	1.04	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	72	100

(1) Savannah River National Laboratory - Ecological Screening Values for Surface Water (2005)

(2) Regional Screening Level Summary Table November 2012

*MCL unavailable, tapwater screening level used

Exceeds Ecological Screening Level

Exceeds Regional Screening Level

Exceeds Ecological & Regional Screening Level