

Table 2-4. Attenuation Monitoring Point and Alternative Point of Exposure Well Data Summary, 2020 Annual Event

2020 Annual Response Action Effectiveness Report

Former Cameron Iron Works Facility, Houston, Texas

Analyte Group (Method):			Volatile Organic Compounds (SW8260B)						
CAS:			75-34-3	75-35-4	107-06-2	156-59-2	127-18-4	79-01-6	75-01-4
Analyte:			1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	cis-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride
AAL			4.9 ^a	2.40	0.021	0.438	0.582	0.836	0.480
Well ID	Well Type	Date Collected							
MW-108	AMP	12/16/2020	0.00262	0.0231	< 0.000172	0.00208	< 0.000189	0.00541	0.000386 J
MW-109	AMP	12/16/2020	0.0801	0.032	< 0.000172	0.0465	0.0172	0.0052	0.0268
MW-110	AMP	12/16/2020	0.00487	0.00441	< 0.000172	0.00322	< 0.000189	0.000402 J	0.00118
MW-111	AMP	12/16/2020	0.0237	0.0305	< 0.000172	0.00303	0.0209	0.00352	0.0027
MW-112	AMP	12/16/2020	0.0211	0.032	0.00669	0.000433 J	< 0.000189	0.00109	0.016
MW-50R	AMP	12/16/2020	0.412 JL	< 0.000216	0.00261	0.00877	0.00058 J	0.0112	< 0.000234
MW-01	APOE	12/16/2020	0.00049 J	0.00159	< 0.000172	< 0.000121	< 0.000189	< 0.000317	< 0.0003
MW-113	APOE	12/16/2020	0.0162	0.0219	0.000474 J	0.00147	0.00108	0.001	0.00127
MW-65	APOE	12/16/2020	0.00557	0.00661	< 0.000172	0.00209	0.000534 J	0.000725 J	0.000588 J

Notes:

The concentrations are presented in milligrams per liter (mg/L).

Bold values indicate a detected concentration.

Bold and shaded values exceed the AAL.

^a The AAL for 1,1-dichloroethane is the lower of the ^{GW}GW_{ing} and ^{Air}GW_{inh-v} Tier I PCLs for residential land use based on the latest PCL tables (January 2021).

< = nondetected result less than the sample detection limit

AAL = attenuation action level

AMP = attenuation monitoring point

APOE = alternative point of exposure

CAS = Chemical Abstracts Service

^{GW}GW_{ing} = groundwater ingestion pathway

^{Air}GW_{inh-v} = inhalation of volatiles from groundwater

ID = identification

J = estimated concentration

JL = estimated concentration biased low

MW = monitor well

PCL = protective concentration level

R = replacement well

Table 2-5. Point of Exposure Well Data Summary, 2020 Annual Event

2020 Annual Response Action Effectiveness Report

Former Cameron Iron Works Facility, Houston, Texas

Well ID	Well Type	Date Collected	Analyte Group (Method):							
			Volatile Organic Compounds (SW8260B)							
			CAS:	75-34-3	75-35-4	107-06-2	156-59-2	127-18-4	79-01-6	75-01-4
			Analyte:	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	cis-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride
cPCL:	4.9	0.007	0.005	0.07	0.005	0.005	0.002			
MW-100	POE	12/16/2020	< 0.000245	< 0.000216	< 0.000285	< 0.000174	0.00141	< 0.000424	< 0.000189	
MW-106	POE	12/17/2020	< 0.000244	< 0.000216	< 0.000285	0.00071 J	0.00058 J	< 0.000424	< 0.000234	
MW-121	POE	12/16/2020	< 0.000245	< 0.000216	< 0.000285	< 0.000174	< 0.0005	< 0.000424	< 0.000189	
MW-122	POE	12/16/2020	0.00129	0.00742	< 0.000285	< 0.000174	0.00124	0.0005 J	< 0.000189	
MW-146	POE	12/16/2020	< 0.000245	< 0.000216	< 0.000285	0.00197	< 0.0005	< 0.000424	< 0.000189	
MW-147	POE	12/16/2020	0.00638	0.00918	< 0.000285	0.0169	0.014	0.00464	< 0.000189	
MW-15R	POE	12/16/2020	0.00156	0.0165 JL	< 0.000285	0.00023 J	< 0.0005	< 0.000424	< 0.000234 JL	
MW-160	POE	12/16/2020	< 0.000245	< 0.000216	< 0.000285	< 0.000174	< 0.0005	< 0.000424	< 0.000189	
MW-161	POE	12/16/2020	0.0201	0.0871	< 0.000285	< 0.000174	< 0.0005	< 0.000424	< 0.000189	
MW-162	POE	12/16/2020	< 0.000245	< 0.000216	< 0.000285	< 0.000174	< 0.0005	< 0.000424	< 0.000189	
MW-168	POE	12/17/2020	0.00328	0.0105	0.000732 J	0.005	0.0669	0.0102	< 0.0003	
MW-16R	POE	12/16/2020	0.0163	0.017	0.00068 J	0.0155	0.015	0.0104	0.00729	
MW-173	POE	12/17/2020	< 0.000244	0.00328	< 0.000285	0.00194	0.012	0.00371	< 0.000234	
MW-178	POE	12/16/2020	< 0.000244	< 0.000216	< 0.000285	< 0.000174	< 0.0005	< 0.000424	< 0.000234	
MW-179	POE	12/17/2020	0.00029 J	0.00351	< 0.000285	< 0.000174	< 0.0005	< 0.000424	< 0.000234	
MW-17R	POE	12/16/2020	< 0.000244	< 0.000216	< 0.000285	< 0.000174	< 0.0005	< 0.000424	< 0.000234	
MW-70	POE	12/16/2020	< 0.000245	0.00685	< 0.000285	0.0029	0.0007 J	0.00073 J	< 0.000189	
MW-71	POE	12/16/2020	< 0.000245	< 0.000216	< 0.000285	< 0.000174	< 0.0005	< 0.000424	< 0.000189	
MW-74	POE	12/16/2020	0.0063	0.0114	< 0.000285	0.0129	0.0386	0.0211	0.0043	
MW-76	POE	12/16/2020	< 0.000245 J	< 0.000216 J	< 0.000285	< 0.000174 J	0.00054 J	< 0.000424	< 0.000189 J	
MW-77	POE	12/16/2020	0.00186 J	< 0.000216 J	< 0.000285	0.00539 J	0.00135	0.00258	< 0.000189	
MW-83	POE	12/16/2020	0.0213	0.0851	0.0042	0.031	0.0746	0.0133	< 0.000189	
MW-88	POE	12/16/2020	0.00752	0.0244	< 0.000285	0.00622	0.0253	0.00679	< 0.000189	
MW-89	POE	12/16/2020	0.00889	0.212	0.00549	0.00342 J	0.00113	0.013	< 0.000189	
MW-90	POE	12/16/2020	0.0315	0.0727	< 0.000285	< 0.000174	0.0182	0.00344	< 0.000189	
MW-92	POE	12/17/2020	< 0.000245	< 0.000216	< 0.000285	< 0.000174	< 0.0005	< 0.000424	< 0.000189	
MW-93R	POE	12/17/2020	< 0.000245	0.00359	< 0.000285	< 0.000174	0.097 J	0.00303	< 0.000189	
MW-97	POE	12/17/2020	0.00312	0.0168	< 0.000172	0.00627	0.277	0.0218	< 0.0003	
MW-98	POE	12/17/2020	< 0.000168	0.000589 J	< 0.000172	< 0.000121	0.000524 J	< 0.000317	< 0.0003	

Table 2-5. Point of Exposure Well Data Summary, 2020 Annual Event

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Former Cameron Iron Works Facility, Houston, Texas

Notes:

The concentrations are presented in milligrams per liter (mg/L).

The cPCLs are the lower of the ^{GW}GW_{ing} and ^{Air}GW_{inh-v} Tier I PCLs for residential land use based on the latest PCL tables (January 2021).

Bold values indicate a detected concentration.

Bold and shaded values exceed the cPCL.

POE Well MW-180 could not be located due to construction activities in the area.

POE wells MW-145 and MW-163 could not be sampled due to limited water volume in well.

< = nondetected result less than the sample detection limit

^{GW}GW_{ing} = groundwater ingestion pathway

^{Air}GW_{inh-v} = inhalation of volatiles from groundwater

CAS = Chemical Abstracts Service

cPCL = critical protective concentration level

ID = identification

J = estimated concentration

JL= estimated concentration biased low

MW = monitor well

PCL = protective concentration levels

POE = point of exposure

R = replacement well

Table 2-6. Surface Water Data Summary, 2020 Annual Event

2020 Annual Response Action Effectiveness Report
Former Cameron Iron Works Facility, Houston, Texas

Well ID	Well Type	Date Collected	Volatile Organic Compounds (SW8260B)						
			Analyte Group (Method):		CAS:				
			1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	cis-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride
			75-34-3	75-35-4	107-06-2	156-59-2	127-18-4	79-01-6	75-01-4
			cPCL (Surface Water):						
			4.1	0.05	0.443	7.49	0.632	0.888	0.0269
SWD-12	HCFC	12/17/2020	0.000541 J	0.00278	< 0.000172	0.000446 J	0.000447 J	0.00078 J	< 0.0003
SWD-14	HCFC	12/17/2020	0.000565 J	0.00301	< 0.000172	0.000522 J	0.000502 J	0.000842 J	< 0.0003
SWD-15	HCFC	12/17/2020	0.000965 J	0.00914	< 0.000172	0.000322 J	0.000351 J	0.000974 J	< 0.0003
SWD-17	HCFC	12/17/2020	0.000457 J	0.00576	< 0.000172	< 0.000121	0.000854 J	0.000601 J	< 0.0003
SWD-18	HCFC	12/17/2020	< 0.000168	0.00195	< 0.000172	< 0.000121	0.00189	< 0.000317	< 0.0003
SWD-20	HCFC	12/17/2020	< 0.000168	0.000596 J	< 0.000172	< 0.000121	0.000735 J	< 0.000317	< 0.0003

Notes:

The concentrations are presented in milligrams per liter (mg/L).

The cPCLs for surface water are 80% of the cPCLs calculated in the *Human Health Ecological Risk Assessment for Surface Water and Sediment* (June 2003).

Bold values indicate a detected concentration.

Bold and shaded values exceed the cPCL.

< = nondetected result less than the sample detection limit

CAS = Chemical Abstracts Service

cPCL = critical protective concentration level

HCFC = Harris County Flood Control Ditch

ID = identification

J = estimated concentration

SWD = surface water sampling locations