

March 29, 2011

Mr. Mark Riggle
Project Manager
Voluntary Cleanup Section
Texas Commission on Environmental Quality
Mail Code 221
12118 North IH 35, Building D
Austin, Texas 78753

Project No. 0113055

Subject: Second Half 2010 Monitoring Data Transmittal
Former Cameron Iron Works Facility, Houston, Texas
VCP No. 221



Dear Mr. Riggle:

On behalf of Cameron International Corporation (Cameron), Environmental Resources Management (ERM) is providing this transmittal of ground water and surface water data to the Texas Commission on Environmental Quality (TCEQ) for your records. The objectives of this transmittal are to:

- provide a status of the monitoring program for the second half of 2010 regarding changes in the sampling status of certain wells; and,
- determine if additional ground water or surface water samples should be collected during 2011 at selected locations to meet the response action objectives for the Former Cameron Iron Works Facility (the facility).

A summary table (Table 1) has been created to convey this information, as well as the future course of action for the remediation of the facility.

Sampling Status for Second Half 2010

The semiannual ground water and surface water sampling event was conducted in October and November 2010. The scope of the sampling event was altered by conditions at the facility. First, redevelopment activities on the northern portion of the facility by the current owner (Wal-Mart) required that a number of wells be plugged and abandoned. This activity was pre-approved by TCEQ on August 13, 2010 and completed before the sampling event, reducing the number of wells in the sampling program. Second, the performance of the newly installed recovery was evaluated, in part, by collecting ground water samples from the extraction wells. Third, permanganate was apparent in a few wells from in-situ treatment. The ground water quality at these wells was not representative of the water-bearing zone while the presence of permanganate is present.

Fourth, MW-75R, MW-139, and MW-140 were re-sampled in November to confirm the concentrations that were reported for the semiannual sampling event. The table below lists 12 wells that were not sampled during the second half of 2010 along with the reason the well was not sampled:

Well Name	Rationale for Not Sampling
MW-02	Monitor well P&A'd in August 2010
MW-16R	Debris obstructed access to monitor well
MW-38	Monitor well P&A'd in September 2010
MW-42	Monitor well P&A'd in August 2010
MW-43	Monitor well P&A'd in August 2010
MW-44	Monitor well P&A'd in August 2010
MW-48	Monitor well P&A'd in August 2010
MW-50	Monitor well P&A'd in September 2010
MW-88	Permanganate observed in ground water
MW-91	Permanganate observed in ground water
MW-93	Permanganate observed in ground water
MW-134	Debris obstructed access to monitor well

Monitoring Program for 2011

The ground water analytical results from the second half of 2010 were compared with the response action monitoring criteria outlined in the Response Action Plan (RAP) dated August 28, 2003 and summarized in Table 1. A summary of the ground water analytical data for the wells monitoring the boundary of the affected ground water-bearing zone (referred to as trigger wells) were collected during the second half of 2010 is presented in Table 2. Table 3 provides a summary of the analytical results for samples collected at non-trigger wells located north and south of I-10 during the second half of 2010.

Based on the second half of 2010 results, the following monitoring well sampling activities will be performed to meet the requirements of the RAP in the next three months:

- COC concentrations will be monitored in ground water at MW-59, MW-74, MW-84, MW-125, MW-134, MW-171, and MW-173 on a quarterly basis to monitor upward concentration trends observed during 2010;
- COC concentrations will be monitored in ground water at MW-17R, MW-71, MW-72, MW-77, MW-81, MW-85R, MW-86, MW-93, MW-95, MW-97, MW-98, MW-117, MW-119, MW-122, MW-123, MW-131, MW-139, MW-146, MW-168, and MW-170 on a semiannual basis where trends are elevated but stable or declining; and
- In the areas of MW-78, MW-79, MW-93, MW-125, and MW-174 monitor/injection wells will be monitored and the level of permanganate will be maintained to treat affected ground water at these locations.

The reported surface water concentrations, summarized on Table 4, are below the critical PCLs provided in the *Human Health and Ecological Risk Assessment for Surface Water and Sediment*,

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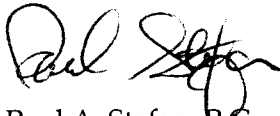
dated June 19, 2003 and 80% of the critical PCLs. No changes to the surface water monitoring program for 2011 are proposed.

The quality assurance/quality control data and analytical laboratory reports will be provided in the 2010 Annual Ground Water Monitoring Report and Field Activities Summary. This report will also include the well reports for the monitor wells installed during 2010.

We appreciate the opportunity to provide this information to you and look forward to addressing any questions or comments that might arise. Please contact Mr. Ted Fasting of Cameron International Corporation at (713) 513-3325 with any questions or comments.

Sincerely,

Environmental Resources Management Southwest, Inc.



Paul A. Stefan, P.E.
Principal

PAS/skd
Attachment

cc: Marsha Hill, Texas Commission on Environmental Quality, Region XII
Ted Fasting, Cameron International Corporation
Bruce Himmelreich, Cameron International Corporation, (without attachment)
Rob Jaros, Environmental Resources Management (Houston)

Tables
Attachment 1

March 29, 2011
Project No. 0113055

Environmental Resources Management Southwest, Inc.
15810 Park Ten Place, Suite 300
Houston, Texas 77084
(281) 600-1000

TABLE 1

Summary of Response Action Plan Implementation
Second Half 2010 Monitoring Data Transmittal

Former Cameron Iron Works Facility
Houston, Texas

Well	COCs elevated above MQL	COCs elevated above PCL	Need for Additional Notification (Yes or No)	In-situ Treatment (Yes or No)	Sampling Frequency
MW-59	1,1-dichloroethene	1,1-dichloroethene	no (a)	no (b)	Quarterly
MW-74	1,1-dichloroethene		no (a)	no	Quarterly
MW-84	1,1-dichloroethane		no (a)	yes (c)	Quarterly
MW-84	1,1-dichloroethene	1,1-dichloroethene	no (a)	yes (c)	Quarterly
MW-84	Vinyl chloride	Vinyl chloride	no (a)	yes (c)	Quarterly
MW-125	Tetrachloroethene	Tetrachloroethene	no (a)	yes (c)	Quarterly
MW-134(d)			no (a)		Quarterly
MW-173			no (a)	no	Quarterly

NOTES:

COCs = Chemicals of Concern

MQL = Method Quantitation Limit

PCL = Protective Concentration Level

(a) Properties in the vicinity of the affected ground water have been previously notified.

(b) MW-59 is within the capture zone of EW-1.

(c) Injection wells located in this area were injected with sodium permanganate in 2009. This area is being gauged regularly for the presence of permanganate. Additional permanganate will be injected as needed to reduce concentration levels to the PCL.

(d) MW-134 was covered with construction debris and not sampled in the Second Half of 2010.

TABLE 2

Summary of Monitor Well Ground Water Data for Trigger Wells
Second Half 2010 Monitoring Data Transmittal

Former Cameron Iron Works Facility
Houston, Texas

Constituent	MQL	Critical PCLs (a)	Location:	MW-17R	MW-59	MW-71	MW-72	MW-74	MW-77	MW-80	MW-81	MW-84
			Depth: (b)	25	25	25	24	27	37	38	35	31
			Date:	10/19/2010	10/26/2010	10/20/2010	10/22/2010	10/19/2010	10/20/2010	10/20/2010	10/20/2010	10/21/2010
1,1-Dichloroethane	0.0050	4.9		0.0011 J	0.0013 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.016	ND (0.0050)	0.097
1,1-Dichloroethene	0.0050	0.0070		0.0011 J	0.01	ND (0.0050)	0.0021 J	0.0045 J	ND (0.0050)	0.19	ND (0.0050)	0.53
1,2-Dichloroethane	0.0050	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0017 J
cis-1,2-Dichloroethene	0.0050	0.070		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0018 J	ND (0.0050)	0.0042 J
Tetrachloroethene	0.0050	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0013 J
Trichloroethene	0.0050	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0028 J
Vinyl Chloride	0.0020	0.0020		ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	0.001 J	ND (0.0020)	0.014

Constituent	MQL	Critical PCLs (a)	Location:	MW-85R	MW-86	MW-97	MW-98	MW-99	MW-117	MW-119	MW-122	MW-123
			Depth: (b)	29	40	33	36	32	25	28	28	28
			Date:	10/19/2010	10/19/2010	10/22/2010	10/22/2010	10/19/2010	10/20/2010	10/21/2010	10/21/2010	10/19/2010
1,1-Dichloroethane	0.0050	4.9		ND (0.0050)	ND (0.0050)	0.00069	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
1,1-Dichloroethene	0.0050	0.0070		ND (0.0050)	ND (0.0050)	0.0055	ND (0.0050)	0.0015 J	ND (0.0050)	ND (0.0050)	0.0036 J	ND (0.0050)
1,2-Dichloroethane	0.0050	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0017 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
cis-1,2-Dichloroethene	0.0050	0.070		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.002 J	ND (0.0050)
Tetrachloroethene	0.0050	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
Trichloroethene	0.0050	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0092	ND (0.0050)
Vinyl Chloride	0.0020	0.0020		ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)

Constituent	MQL	Critical PCLs (a)	Location:	MW-125	MW-131	MW-134	MW-139		MW-146	MW-168	MW-171	MW-173
			Depth: (b)	32	32	30	25		30	35	25	35
			Date:	10/25/2010	10/19/2010		10/21/2010	11/11/2010	10/21/2010	10/22/2010	10/20/2010	10/22/2010
1,1-Dichloroethane	0.0050	4.9		ND (0.0050)	ND (0.0050)	NS	0.02	0.022	ND (0.0050)	ND (0.0050)	0.0036 J	ND (0.0050)
1,1-Dichloroethene	0.0050	0.0070		ND (0.0050)	ND (0.0050)	NS	0.025	0.02	ND (0.0050)	ND (0.0050)	0.0048 J	ND (0.0050)
1,2-Dichloroethane	0.0050	0.0050		ND (0.0050)	ND (0.0050)	NS	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
cis-1,2-Dichloroethene	0.0050	0.070		ND (0.0050)	ND (0.0050)	NS	0.0057	0.0056	ND (0.0050)	ND (0.0050)	0.0016 J	ND (0.0050)
Tetrachloroethene	0.0050	0.0050		0.013	ND (0.0050)	NS	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
Trichloroethene	0.0050	0.0050		ND (0.0050)	ND (0.0050)	NS	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
Vinyl Chloride	0.0020	0.0020		ND (0.0020)	ND (0.0020)	NS	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)

NOTES:

The reported concentrations are in mg/L.

0.0088 = exceedance of TCEQ Texas Risk Reduction Program (TRRP) Tier 1 Residential Class 2 Ground Water critical PCLs.

Bold values exceed the MQL.

ND (0.0050) = *Not Detected* at the method quantitation limit given in parentheses.

MQL = Method Quantitation Limit.

(a) TCEQ Texas Risk Reduction Program (TRRP) Tier 1 Residential Class 2 Ground Water PCLs, Table 3, table for TRRP Rule dated April 2008.

(b) The sample depths are reported in feet below ground surface.

(c) Not sampled due to permanganate in well.

J = Estimated data, the reported sample concentration is approximated due to exceedance of QC requirements.

L = Biased Low.

U = Not detected, the SQL is estimated

NS = Not sampled.

TABLE 3

Summary of Monitor Well Ground Water Data
Second Half 2010 Monitoring Data Transmittal

Former Cameron Iron Works Facility
Houston, Texas

Constituent	Critical PCLs (a)	Location:	KMW-07	KMW-13	KMW-14	MW-01	MW-02	MW-07R	MW-15R	MW-16R (d)	MW-17R	MW-35
		Depth: (b)	25	25	25	25	25	25	20	20	20	33
		Date:	10/21/2009	10/22/2010	10/22/2010	10/19/2010	P&A'd	10/26/2010	10/19/2010		10/19/2010	10/22/2010
1,1-Dichloroethane	4.9		NA	NA	NA	NA	NA	NA	0.003 J	NS	0.0011 J	NA
1,1-Dichloroethene	0.0070		ND (0.0050)	ND (0.0050)	0.00066 J	ND (0.0050)	NS	0.0042 J	0.011	NS	0.0011 J	0.016
1,2-Dichloroethane	0.0050		NA	NA	NA	NA	NA	NA	ND (0.0050)	NS	ND (0.0050)	NA
cis-1,2-Dichloroethene	0.070		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	NS	ND (0.0050)	0.0015 J	NS	ND (0.0050)	0.0017 J
Tetrachloroethene	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	NS	ND (0.0050)	0.0053	NS	ND (0.0050)	ND (0.0050)
Trichloroethene	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	NS	ND (0.0050)	0.0011 J	NS	ND (0.0050)	ND (0.0050)
Vinyl Chloride	0.0020		ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	NS	ND (0.0020)	ND (0.0020)	NS	ND (0.0020)	0.034

Constituent	Critical PCLs (a)	Location:	MW-42	MW-43	MW-44	MW-48	MW-50	MW-52	MW-54	MW-56	MW-58	MW-59
		Depth: (b)	25	25	25	30	32	25	30	24	23	25
		Date:	10/20/2009	P&A'd	P&A'd	P&A'd	P&A'd	10/26/2010	10/22/2010	10/21/2010	10/21/2010	10/26/2010
1,1-Dichloroethane	4.9		NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0016 J
1,1-Dichloroethene	0.0070		ND (0.0050)	NS	NS	NS	NS	0.090	0.37	ND (0.0050)	ND (0.0050)	0.01
1,2-Dichloroethane	0.0050		NA	NA	NA	NA	NA	NA	NA	NA	NA	ND (0.0050)
cis-1,2-Dichloroethene	0.070		ND (0.0050)	NS	NS	NS	NS	ND (0.0050)	10	ND (0.0050)	ND (0.0050)	ND (0.0050)
Tetrachloroethene	0.0050		ND (0.0050)	NS	NS	NS	NS	ND (0.0050)	0.13	ND (0.0050)	ND (0.0050)	ND (0.0050)
Trichloroethene	0.0050		ND (0.0050)	NS	NS	NS	NS	ND (0.0050)	1.1	ND (0.0050)	ND (0.0050)	ND (0.0050)
Vinyl Chloride	0.0020		ND (0.0020)	NS	NS	NS	NS	0.0073	0.19	ND (0.0020)	ND (0.0020)	ND (0.0020)

Constituent	Critical PCLs (a)	Location:	MW-60	MW-61	MW-62	MW-63	MW-64	MW-65	MW-70	MW-73	MW-75R		
		Depth: (b)	34	23	25	25	25	25	25	25	25	33	
		Date:	10/21/2009	10/22/2010	10/21/2010	10/22/2010	10/26/2010	10/19/2010	10/19/2010	10/19/2010	10/19/2010	10/19/2010	11/11/2010
1,1-Dichloroethane	4.9		ND (0.0050)	ND (0.0050)	NA	NA	NA	NA	0.032	0.0073	0.011	0.013	
1,1-Dichloroethene	0.0070		ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0011 J	ND (0.0050)	0.0014 J	0.086	0.033	0.0073	0.0074	
1,2-Dichloroethane	0.0050		ND (0.0050)	ND (0.0050)	NA	NA	NA	NA	ND (0.0050)	0.0008 J	ND (0.0050)	ND (0.0050)	
cis-1,2-Dichloroethene	0.070		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.001 J	0.19	0.0011 J	ND (0.0050)	ND (0.0050)	
Tetrachloroethene	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0027 J	0.00064 J	ND (0.0050)	ND (0.0050)	
Trichloroethene	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.12	0.0045 J	ND (0.0050)	ND (0.0050)	
Vinyl Chloride	0.0020		ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	0.0019 J	0.011	ND (0.0020)	ND (0.0020)	ND (0.0020)	

NOTES:

The reported concentrations are in mg/L.

0.028 = exceedance of TCEQ Texas Risk Reduction Program (TRRP) Tier 1 Residential Class 2 Groundwater critical PCLs.

NA = Not Analyzed.

NS = Not Sampled.

ND (0.0050) = Not Detected at the method quantitation limit given in parentheses.

(a) TCEQ Texas Risk Reduction Program (TRRP) Tier 1 Residential Class 2 Ground Water PCLs, Table 3, table for TRRP Rule dated March 25, 2009.

(b) The sample depths are reported in feet below ground surface.

(c) Not sampled due to permanganate in well.

(d) Monitor well was inaccessible due to debris and was not sampled.

(e) Depth-to-water exceeded limits of a peristaltic pump. Sample was collected using bailer.

J = Estimated data, the reported sample concentration is approximated due to exceedance of QC requirements.

L = Biased Low.

U = Not detected, the SQL is estimated

TABLE 3 (Cont'd)

Summary of Monitor Well Ground Water Data
Second Half 2010 Monitoring Data Transmittal

Former Cameron Iron Works Facility
Houston, Texas

Constituent	Critical PCLs (a)	Location:	MW-76	MW-78	MW-79	MW-82	MW-83	MW-87	MW-88 (c)	MW-89	MW-90	MW-91 (c)
		Depth: (b)	31	32	40	31	30	32	38	37	35	37
		Date:	10/21/2010	10/20/2010	10/21/2010	10/19/2010	10/19/2010	10/19/2010		10/21/2010	10/22/2010	
1,1-Dichloroethane	4.9		ND (0.0050)	0.017	0.062	0.033	0.0044		NS	0.0085	0.00098 J	NS
1,1-Dichloroethene	0.0070		ND (0.0050)	0.033	0.2	0.13	0.023	0.042	NS	0.042	0.015	NS
1,2-Dichloroethane	0.0050		0.0042 J	ND (0.0050)	0.0013 J	ND (0.0050)	ND (0.0050)	0.00063 J	NS	0.0011 J	ND (0.0050)	NS
cis-1,2-Dichloroethene	0.070		ND (0.0050)	0.0018 J	0.029 J	0.026	0.0016 J	ND (0.0050)	NS	0.0052	0.0068	NS
Tetrachloroethene	0.0050		0.0016 J	ND (0.0050)	0.011	0.11	0.0035 J	ND (0.0050)	NS	0.0012 J	0.46	NS
Trichloroethene	0.0050		ND (0.0050)	ND (0.0050)	0.0091	0.03	0.0024 J	0.00093 J	NS	0.026	0.049	NS
Vinyl Chloride	0.0020		ND (0.0020)	0.0027	0.021	0.0059	0.0017 J	ND (0.0020)	NS	ND (0.0020)	ND (0.0020)	NS

Constituent	Critical PCLs (a)	Location:	MW-92	MW-93 (c)	MW-94	MW-96R	MW-99	MW-100	MW-101	MW-102	MW-106	MW-107
		Depth: (b)	43	37	25	33	32	31	30	45	42	42
		Date:	10/25/2010		10/22/2010	10/22/2010	10/19/2010	10/20/2010	10/19/2010	10/25/2010	10/26/2010	10/25/2010
1,1-Dichloroethane	4.9		ND (0.0050)	NS	ND (0.0050)	0.036	ND (0.0050)	0.0047 J	0.0075	ND (0.0050)	ND (0.0050)	0.0008 J
1,1-Dichloroethene	0.0070		0.00072 J	NS	ND (0.0050)	0.034	0.0015 J	0.012	0.037	ND (0.0050)	ND (0.0050)	0.0031 J
1,2-Dichloroethane	0.0050		ND (0.0050)	NS	ND (0.0050)	0.0016 J	0.0017 J	ND (0.0050)	0.00064 J	ND (0.0050)	ND (0.0050)	ND (0.0050)
cis-1,2-Dichloroethene	0.070		0.0018 J	NS	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0022 J	0.0015 J	0.00084 J	0.0014 J	0.0029 J
Tetrachloroethene	0.0050		0.29	NS	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.044	0.023	0.19 JL	0.37	0.59
Trichloroethene	0.0050		0.0039 J	NS	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0039 J	0.0036 J	0.0013 J	0.003 J	0.021
Vinyl Chloride	0.0020		ND (0.0020)	NS	ND (0.0020)	ND (0.0020)	ND (0.0020)	0.00092 J	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)

Constituent	Critical PCLs (a)	Location:	MW-108	MW-109	MW-110	MW-111	MW-112	MW-113	MW-114	MW-115	MW-116	MW-118
		Depth: (b)	27	26	27	26	26	27	32	34	27	27
		Date:	10/21/2010	10/21/2010	10/21/2010	10/21/2010	10/21/2010	10/21/2010	10/21/2010	10/21/2010	10/19/2010	10/20/2010
1,1-Dichloroethane	4.9		NA	NA	NA	NA	NA	NA	0.0079	ND (0.0050)	0.0048 J	0.018
1,1-Dichloroethene	0.0070		0.66	0.1	0.044	ND (0.0050)	0.056	0.011	0.032	0.68	0.068	0.2
1,2-Dichloroethane	0.0050		NA	NA	NA	NA	NA	NA	0.0062	0.0076	ND (0.0050)	0.00098 J
cis-1,2-Dichloroethene	0.070		0.011	0.4	0.017	0.0013 J	0.072	ND (0.0050)	0.023	ND (0.0050)	0.0083	0.016
Tetrachloroethene	0.0050		0.0048 J	0.024	0.0011 J	0.016	ND (0.0050)	ND (0.0050)	0.18	ND (0.0050)	0.0022 J	0.015
Trichloroethene	0.0050		0.017	0.032	0.0024 J	0.0046 J	0.0030 J	ND (0.0050)	0.066	0.0054	0.03	0.04
Vinyl Chloride	0.0020		0.073	0.042	0.018	ND (0.0020)	0.03	0.0045	0.0017 J	ND (0.0020)	ND (0.0020)	ND (0.0020)

NOTES:

The reported concentrations are in mg/L.

0.028 = exceedance of TCEQ Texas Risk Reduction Program (TRRP) Tier 1 Residential Class 2 Groundwater critical PCLs.

NA = Not Analyzed.

NS = Not Sampled.

ND (0.0050) = Not Detected at the method quantitation limit given in parentheses.

(a) TCEQ Texas Risk Reduction Program (TRRP) Tier 1 Residential Class 2 Ground Water PCLs, Table 3, table for TRRP Rule dated March 25, 2009.

(b) The sample depths are reported in feet below ground surface.

(c) Not sampled due to permanganate in well.

(d) Monitor well was inaccessible due to debris and was not sampled.

(e) Depth-to-water exceeded limits of a peristaltic pump. Sample was collected using bailer.

J = Estimated data, the reported sample concentration is approximated due to exceedance of QC requirements.

L = Biased Low.

U = Not detected, the SQL is estimated

TABLE 3 (Cont'd)

Summary of Monitor Well Ground Water Data
Second Half 2010 Monitoring Data Transmittal

Former Cameron Iron Works Facility
Houston, Texas

Constituent	Critical PCLs (a)	Location:	MW-119	MW-120	MW-121	MW-124	MW-126	MW-127	MW-128	MW-129	MW-130	MW-133
		Depth: (b)	28	25	28	29	32	32	40	35	25	30
		Date:	10/21/2010	10/21/2010	10/19/2010	10/21/2010	10/19/2010	10/19/2010	10/21/2010	10/22/2010	10/19/2010	10/19/2010
1,1-Dichloroethane	4.9	ND (0.0050)	0.0095	ND (0.0050)	0.0058 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.061	ND (0.0050)	0.0038 J	
1,1-Dichloroethene	0.0070	ND (0.0050)	0.02	0.02	0.035	ND (0.0050)	0.0021 J	0.0072	0.25	ND (0.0050)	0.013	
1,2-Dichloroethane	0.0050	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.002 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0013 J	ND (0.0050)	ND (0.0050)	
cis-1,2-Dichloroethene	0.070	ND (0.0050)	0.011	ND (0.0050)	0.026	ND (0.0050)	0.00066 J	0.0025 J	0.018	ND (0.0050)	0.0011 J	
Tetrachloroethene	0.0050	ND (0.0050)	0.1	ND (0.0050)	0.33	ND (0.0050)	ND (0.0050)	0.00081 J	0.075	ND (0.0050)	ND (0.0050)	
Trichloroethene	0.0050	ND (0.0050)	0.0096	ND (0.0050)	0.047	ND (0.0050)	0.005	0.012	0.044	ND (0.0050)	ND (0.0050)	
Vinyl Chloride	0.0020	ND (0.0020)	0.0044	ND (0.0020)	0.0017 J	ND (0.0020)	ND (0.0020)	ND (0.0020)	0.0017 J	ND (0.0020)	ND (0.0020)	

Constituent	Critical PCLs (a)	Location:	MW-134 (d)	MW-135	MW-139		MW-140		MW-141	MW-142	MW-143	MW-144
		Depth: (b)		25	25		25		30	33	24	25
		Date:		10/20/2010	10/21/2010	11/11/2010	10/20/2010	11/11/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010
1,1-Dichloroethane	4.9	NS	ND (0.0050)	0.02	0.022	0.003 J	0.0046 J	0.016	0.011	ND (0.0050)	0.02	
1,1-Dichloroethene	0.0070	NS	0.0012 J	0.025	0.02	0.0033 J	0.0016 J	0.025	0.061	0.012	0.2	
1,2-Dichloroethane	0.0050	NS	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	
cis-1,2-Dichloroethene	0.070	NS	ND (0.0050)	0.0057	0.0056	ND (0.0050)	ND (0.0050)	0.0016 J	0.00092 J	ND (0.0050)	0.00079 J	
Tetrachloroethene	0.0050	NS	0.0012 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.00077 J	0.00064 J	ND (0.0050)	ND (0.0050)	
Trichloroethene	0.0050	NS	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050) J	ND (0.0050)	ND (0.0050)	ND (0.0050)	
Vinyl Chloride	0.0020	NS	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	0.0028	0.0026	ND (0.0020)	0.0029	

Constituent	Critical PCLs (a)	Location:	MW-145	MW-149	MW-166	MW-167	MW-169	MW-175	MW-176	MW-177	MW-174	MW-02(C)
		Depth: (b)	28	27	bailed	bailed	35	bailed	35	35	34	23
		Date:	10/21/2010	10/20/2010	11/11/2010	11/11/2010	10/22/2010	11/11/2010	10/28/2010	10/28/2010	11/11/2010	10/19/2010
1,1-Dichloroethane	4.9	ND (0.0050)	0.0037 J	0.0016 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0012	0.00061 J	ND (0.0050)	NA	
1,1-Dichloroethene	0.0070	ND (0.0050)	0.004 J	0.011	0.001 J	0.0022 J	0.0024 J	0.011	0.004 J	ND (0.0050)	ND (0.0050)	
1,2-Dichloroethane	0.0050	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	NA	
cis-1,2-Dichloroethene	0.070	ND (0.0050)	0.0029 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	
Tetrachloroethene	0.0050	ND (0.0050)	0.011	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.00072 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	
Trichloroethene	0.0050	ND (0.0050)	0.003 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	
Vinyl Chloride	0.0020	ND (0.0020)	0.001 J	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	

NOTES:

- The reported concentrations are in mg/L.
- 0.028 = exceedance of TCEQ Texas Risk Reduction Program (TRRP) Tier 1 Residential Class 2 Groundwater critical PCLs.
- NA = Not Analyzed.
- NS = Not Sampled.
- ND (0.0050) = Not Detected at the method quantitation limit given in parentheses.
- (a) TCEQ Texas Risk Reduction Program (TRRP) Tier 1 Residential Class 2 Ground Water PCLs, Table 3, table for TRRP Rule dated March 25, 2009.
- (b) The sample depths are reported in feet below ground surface.
- (c) Not sampled due to permanganate in well.
- (d) Monitor well was inaccessible due to debris and was not sampled.
- (e) Depth-to-water exceeded limits of a peristaltic pump. Sample was collected using bailer.
- J = Estimated data, the reported sample concentration is approximated due to exceedance of QC requirements.
- L = Biased Low.
- U = Not detected, the SQL is estimated.

TABLE 3 (Cont'd)

Summary of Monitor Well Ground Water Data
Second Half 2010 Monitoring Data Transmittal

Former Cameron Iron Works Facility
Houston, Texas

Constituent	Critical PCLs (a)	Location:	MW-02(S)	MW-03(S)	KMW-01	STABLEWOOD EXTRACTION WELLS				
		Depth: (b)	23	23	21	EW-1 (S)	EW-2 (S)	EW-3 (S)	EW-4 (S)	EW-5 (S)
		Date:	10/19/2010	10/19/2010	10/28/2010	10/21/2010	10/21/2010	10/21/2010	10/21/2010	10/21/2010
1,1-Dichloroethane	4.9		ND (0.0050)	0.0054	NA	0.013	0.014	0.0019 J	0.0035 J	0.0011 J
1,1-Dichloroethene	0.0070		ND (0.0050)	ND (0.0050)	0.0012 J	0.089	0.089	0.03	0.054	0.015
1,2-Dichloroethane	0.0050		ND (0.0050)	ND (0.0050)	NA	ND (0.0050)	0.00098 J	ND (0.0050)	ND (0.0050)	ND (0.0050)
cis-1,2-Dichloroethene	0.070		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
Tetrachloroethene	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
Trichloroethene	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
Vinyl Chloride	0.0020		ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)

NOTES:

The reported concentrations are in mg/L.

0.028 = exceedance of TCEQ Texas Risk Reduction Program (TRRP) Tier 1 Residential Class 2 Groundwater critical PCLs.

NA = Not Analyzed.

NS = Not Sampled.

ND (0.0050) = *Not Detected* at the method quantitation limit given in parentheses.

(a) TCEQ Texas Risk Reduction Program (TRRP) Tier 1 Residential Class 2 Ground Water PCLs, Table 3, table for TRRP Rule dated March 25, 2009.

(b) The sample depths are reported in feet below ground surface.

(c) Not sampled due to permanganate in well.

(d) Monitor well was inaccessible due to debris and was not sampled.

(e) Depth-to-water exceeded limits of a peristaltic pump. Sample was collected using bailer.

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L = Biased Low.

U = Not detected, the SQL is estimated.

TABLE 4

Summary of Surface Water Data
Second Half 2010 Monitoring Data Transmittal

Former Cameron Iron Works Facility
Houston, Texas

Constituent	Critical	80% Critical	Location:	SWD-12	SWD-14	SWD-15
	PCLs (a)	PCL (a)		Date:	10/28/2010	10/28/2010
1,1-Dichloroethane	5.13	4.10		ND (0.0050)	0.0013 J	0.00071 J
1,1-Dichloroethene	0.06	0.05		0.00064 J	0.0028 J	0.0093
1,2-Dichloroethane	0.554	0.443		ND (0.0050)	ND (0.0050)	ND (0.0050)
cis-1,2-Dichloroethene	9.36	7.49		0.00053 J	ND (0.0050)	ND (0.0050)
Tetrachloroethene	0.790	0.632		ND (0.0050)	0.0006 J	ND (0.0050)
Trichloroethene	1.110	0.888		0.0012 J	ND (0.0050) J	0.001 J
Vinyl Chloride	0.0336	0.0269		ND (0.0020)	ND (0.0020)	ND (0.0020)

Constituent	Critical	80% Critical	Location:	SWD-17	SWD-18	SWD-20
	PCLs (a)	PCL (a)		Date:	10/28/2010	10/28/2010
1,1-Dichloroethane	5.13	4.10		ND (0.0050)	ND (0.0050)	ND (0.0050)
1,1-Dichloroethene	0.06	0.05		0.0037 J	0.0015 J	0.00084 J
1,2-Dichloroethane	0.554	0.443		ND (0.0050)	ND (0.0050)	ND (0.0050)
cis-1,2-Dichloroethene	9.36	7.49		ND (0.0050)	ND (0.0050)	ND (0.0050)
Tetrachloroethene	0.790	0.632		0.0085	0.0043 J	0.003 J
Trichloroethene	1.110	0.888		ND (0.0050)	ND (0.0050)	ND (0.0050)
Vinyl Chloride	0.0336	0.0269		ND (0.0020)	ND (0.0020)	ND (0.0020)

NOTES:

The reported concentrations are in mg/L.

ND (0.0050) = *Not Detected* at the Reporting Limit given in parentheses.

J = Estimated data, the reported sample concentration is approximated due to exceedance of QC requirements.

L = Biased Low.

U = Not detected, the SQL is estimated

(a) Taken from the critical PCLs calculated in the *Human Health Ecological Risk Assessment for Surface Water and Sediment*, dated June 2003.

SWD = Surface Water Harris County Flood Control Ditch.