

# ARCADIS

**Appendix C**

**At-A-Glance Charts**

**Upgradient of PRB-1**

ASARCO Former Smelter

PRB-1 Installation Date 10/5/2012

EP-138

El Paso, TX

**Well Location**



**Well Information**

Total Depth	28.5 feet bgs
Screen Material	PVC
Screen Slot	0.010 slot
Screen Interval	18-28 feet bgs
Relative Location	Upgradient of PRB-1

Aquifer Conditions & Field Parameters

Date	Elapsed Days	pH (SU)	conductivity (uS/cm)	TOC (mg/L)	temperature (deg C)	ORP (mv)	DO (mg/L)	Total Alkalinity (mg/L)	Sulfate (mg/L)
5/8/2012	-149.5	7.21	3686	3.14	24.02	51.2	1.59	343	#N/A
6/5/2012	-121.6	6.03	6733	3.47	24.45	371.1	5.61	386	2970
7/11/2013	279.4	7.35	3962	#N/A	24.99	-14.9	0.7	392	#N/A
9/5/2013	335.4	7.25	3582	2.33	25.17	27.4	0.23	391	971
12/10/2013	431.5	7.16	3600	2.1	22.6	-177.1	0.84	400	866
6/17/2014	620.4	7.42	3560	#N/A	24.5	83.6	0.21	359	1060
2/3/2015	851.5	7.54	3428	#N/A	22.6	59.2	0.12	411	1020

Contaminants of Concern

Date	Elapsed Days	Antimony		Arsenic		Cadmium		Iron	
		Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)
5/8/2012	-150	0.01	0.01	0.01	0.01	0.0004	0.0004	0.71	0.05
6/5/2012	-122	0.00	0.00	0.01	0.01	0.0004	0.0004	0.17	0.05
7/11/2013	279	0.00	0.02	#N/A	#N/A	0.0004	0.0021	0.12	0.05
9/5/2013	335	0.03	0.03	1.21	1.20	0.0009	0.0009	0.20	0.20
12/10/2013	432	0.03	0.03	1.13	1.11	0.0004	0.0004	0.05	0.05
6/17/2014	620	0.02	#N/A	1.09	#N/A	0.0002	#N/A	0.04	#N/A
2/3/2015	851	0.03	0.03	1.30	1.36	0.0002	0.0002	0.02	0.02

Contaminants of Concern

Date	Elapsed Days	Selenium		Thallium		Zinc	
		Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)
5/8/2012	-150	0.1170	0.1240	0.0003	0.0003	0.0057	0.0075
6/5/2012	-122	0.0607	0.0623	0.0003	0.0003	0.0018	0.0018
7/11/2013	279	#N/A	#N/A	0.0012	0.0003	0.0018	0.0018
9/5/2013	335	0.1440	0.1470	0.0003	0.0003	0.0018	0.0018
12/10/2013	432	0.2030	0.1980	0.0003	0.0030	0.0018	0.0018
6/17/2014	620	0.1640	#N/A	0.0039	#N/A	0.0011	#N/A
2/3/2015	851	0.2440	0.2510	0.0003	0.0003	0.0010	0.0024

**Upgradient of PRB-1  
EP-138**

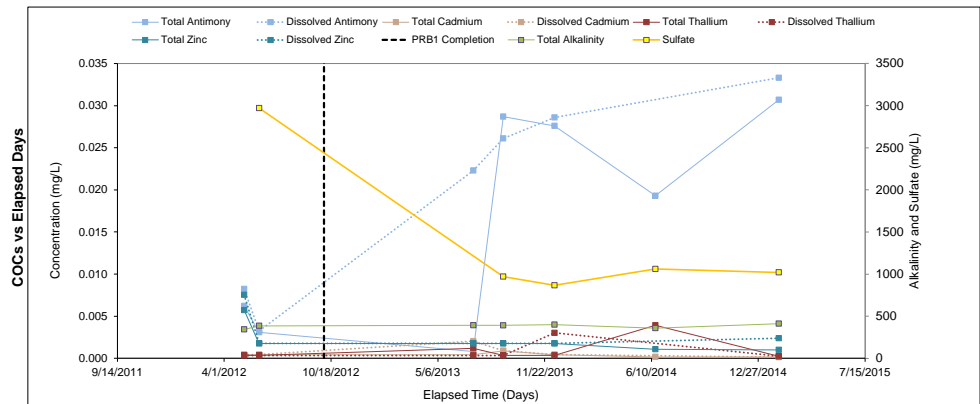
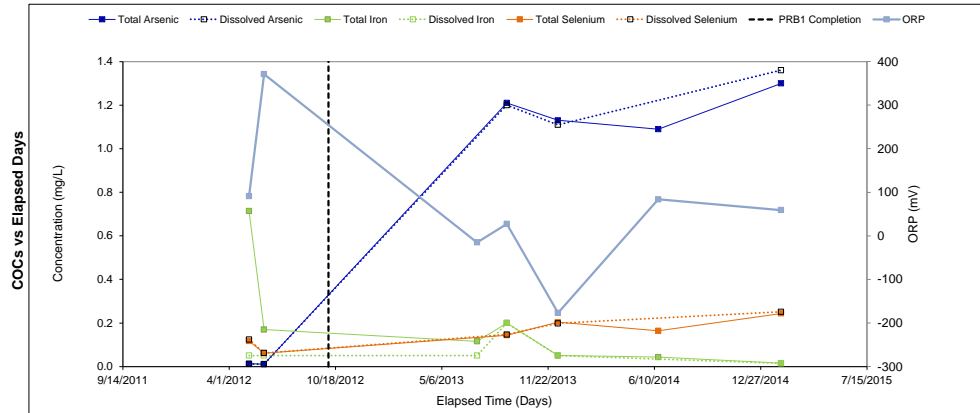
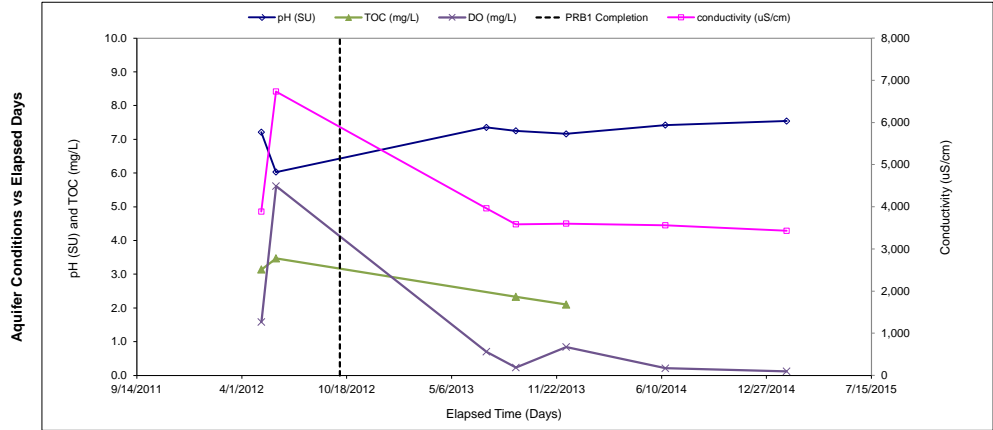
**ASARCO Former Smelter  
El Paso, TX**

**Well Location**



**Well Information**

Total Depth	28.5 feet bgs
Screen Material	PVC
Screen Slot	0.010 slot
Screen Interval	18-28 feet bgs
Relative Location	Upgradient of PRB-1



**Upgradient of PRB-1**

ASARCO Former Smelter

PRB-1 Installation Date 10/5/2012

EP-139

El Paso, TX

**Well Location**



**Well Information**

Total Depth	30 feet bgs
Screen Material	PVC
Screen Slot	0.010 slot
Screen Interval	19.6-29.6 feet bgs
Relative Location	Upgradient of PRB-1

Aquifer Conditions & Field Parameters

Date	Elapsed Days	pH (SU)	conductivity (uS/cm)	TOC (mg/L)	temperature (deg C)	ORP (mV)	DO (mg/L)	Total Alkalinity (mg/L)	Sulfate (mg/L)
5/7/2012	-150.3	7.20	3817	2.73	25.82	61.2	0.39	395	#N/A
6/5/2012	-121.6	6.34	3799	3	24	303.2	9.24	382	1110
7/11/2013	279.6	7.31	4112	#N/A	27.18	-137.1	0.36	395	#N/A
9/6/2013	336.4	7.37	3661	2.54	24.97	43	0.32	414	1130
12/10/2013	431.6	7.16	3730	2.53	22.7	-206.8	0.64	403	910
6/17/2014	620.1	7.41	3760	#N/A	25.4	0.6	0.23	357	1010
2/3/2015	851.5	7.58	3539	#N/A	22.1	120.3	1.1	410	1050

Contaminants of Concern

Date	Elapsed Days	Antimony		Arsenic		Cadmium		Iron	
		Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)
5/7/2012	-150	0.02	0.02	0.90	0.95	0.0004	0.0004	0.05	0.05
6/5/2012	-122	0.02	0.02	1.07	1.11	0.0004	0.0004	0.05	0.05
7/11/2013	280	0.01	0.01	0.98	1.01	0.0020	0.0020	0.19	0.05
9/6/2013	336	0.02	0.02	1.02	1.02	0.0004	0.0009	0.20	0.20
12/10/2013	432	0.02	0.02	1.00	1.01	0.0004	0.0004	0.78	0.05
6/17/2014	620	0.03	#N/A	1.30	#N/A	0.0002	#N/A	0.04	#N/A
2/3/2015	851	0.02	0.02	0.88	0.91	0.0002	0.0002	0.02	0.02

Contaminants of Concern

Date	Elapsed Days	Selenium		Thallium		Zinc	
		Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)
5/7/2012	-150	0.1400	0.1550	0.0009	0.0013	0.0018	0.0018
6/5/2012	-122	0.1540	0.1540	0.0023	0.0013	0.0041	0.0064
7/11/2013	280	0.1730	0.1780	0.0013	0.0015	0.0018	0.0018
9/6/2013	336	0.1470	0.1450	0.0028	0.0024	0.0018	0.0018
12/10/2013	432	0.2200	0.2240	0.0060	0.0084	0.0018	0.0018
6/17/2014	620	0.1880	#N/A	0.0039	#N/A	0.0011	#N/A
2/3/2015	851	0.1600	0.1650	0.0014	0.0015	0.0020	0.0025

**Upgradient of PRB-1  
EP-139**

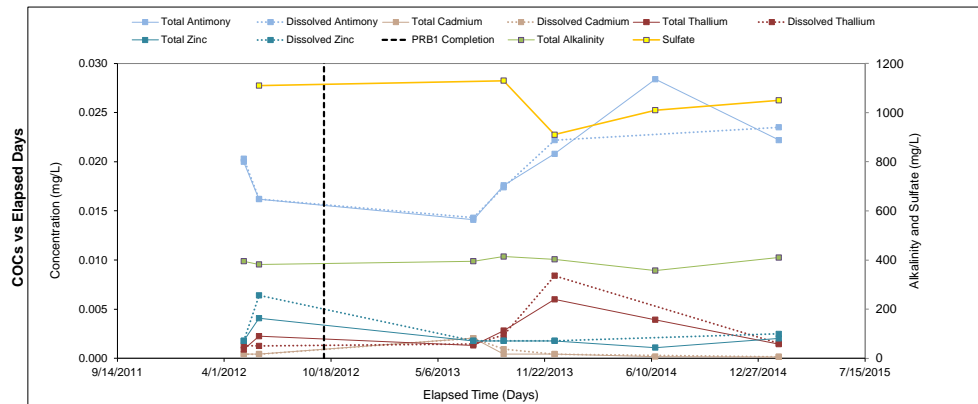
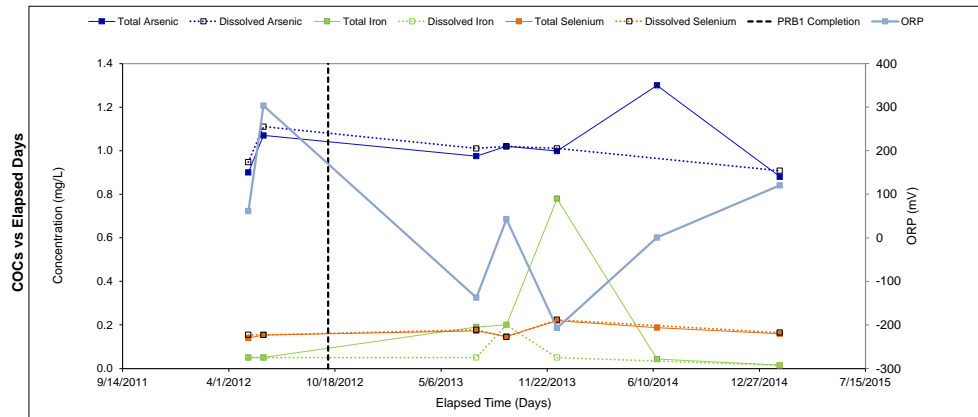
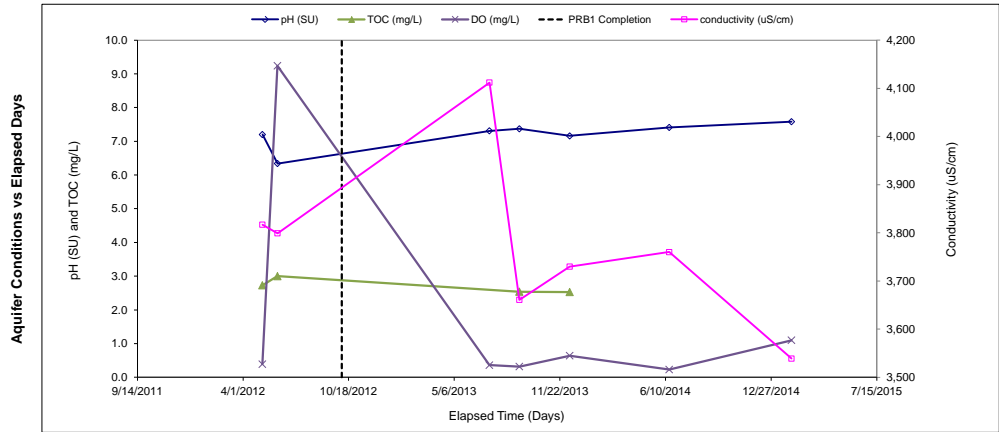
**ASARCO Former Smelter  
El Paso, TX**

**Well Location**



**Well Information**

Total Depth	30 feet bgs
Screen Material	PVC
Screen Slot	0.010 slot
Screen Interval	19.6-29.6 feet bgs
Relative Location	Upgradient of PRB-1



**Downgradient of PRB-1**

ASARCO Former Smelter

PRB-1 Installation Date 10/5/2012

EP-142

El Paso, TX

**Well Location**



**Well Information**

Total Depth	35 feet bgs
Screen Material	PVC
Screen Slot	0.010 slot
Screen Interval	28-38 feet bgs
Relative Location	Downgradient of PRB-1

**Aquifer Conditions & Field Parameters**

Date	Elapsed Days	pH (SU)	conductivity (uS/cm)	TOC (mg/L)	temperature (deg C)	ORP (mV)	DO (mg/L)	Total Alkalinity (mg/L)	Sulfate (mg/L)
7/11/2013	279.5	9.51	3549	#N/A	26.7	-204.5	0.21	248	#N/A
9/5/2013	335.6	8.74	3121	2.02	26.43	-64.6	0.18	271	837
12/9/2013	430.6	9.48	2783	4.44	23.09	-204.7	0.18	251	730
3/10/2014	521.6	9.25	2138	#N/A	24	-163.2	0.06	231	733
6/17/2014	620.1	9.42	3120	#N/A	25.1	-157.3	0.14	260	889
9/29/2014	724.6	9.43	3126	#N/A	25.8	-124.7	0.06	250	814
2/2/2015	850.1	9.45	2949	#N/A	23.9	-43.2	0.09	262	802

**Contaminants of Concern**

Date	Elapsed Days	Antimony		Arsenic		Cadmium		Iron	
		Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)
7/11/2013	280	0.00	0.00	0.03	0.03	0.0015	0.0014	0.05	0.05
9/5/2013	336	0.00	0.00	0.03	0.03	0.0004	0.0004	0.20	0.20
12/9/2013	431	0.00	0.00	0.03	0.03	0.0004	0.0004	0.05	0.05
3/10/2014	522	0.00	0.00	0.03	0.03	0.0004	0.0004	0.05	0.05
6/17/2014	620	0.00	0.00	0.04	0.03	0.0002	0.0002	0.04	0.04
9/29/2014	725	0.00	0.00	0.02	0.03	0.0002	0.0002	0.02	0.02
2/2/2015	850	0.00	0.00	0.03	0.03	0.0002	0.0002	0.02	0.02

**Contaminants of Concern**

Date	Elapsed Days	Selenium		Thallium		Zinc	
		Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)
7/11/2013	280	#N/A	#N/A	0.0003	0.0003	0.0018	0.0018
9/5/2013	336	0.0005	0.0005	0.0003	0.0003	0.0018	0.0018
12/9/2013	431	0.0005	0.0005	0.0003	0.0003	0.0018	0.0018
3/10/2014	522	0.0021	0.0023	0.0003	0.0003	0.0018	0.0018
6/17/2014	620	0.0046	0.0052	0.0039	0.0039	0.0011	0.0011
9/29/2014	725	0.0010	0.0010	0.0003	0.0003	0.0010	0.0008
2/2/2015	850	0.0060	0.0060	0.0003	0.0003	0.0010	0.0010

**Downgradient of PRB-1  
EP-142**

**ASARCO Former Smelter  
El Paso, TX**

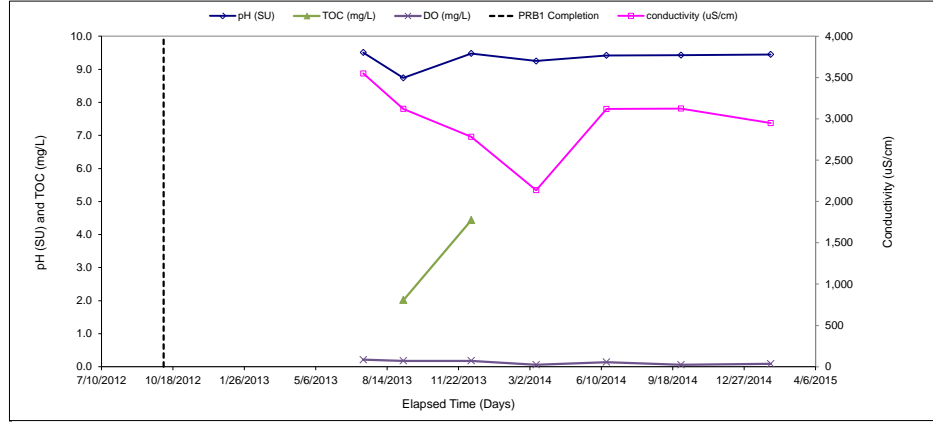
**Well Location**



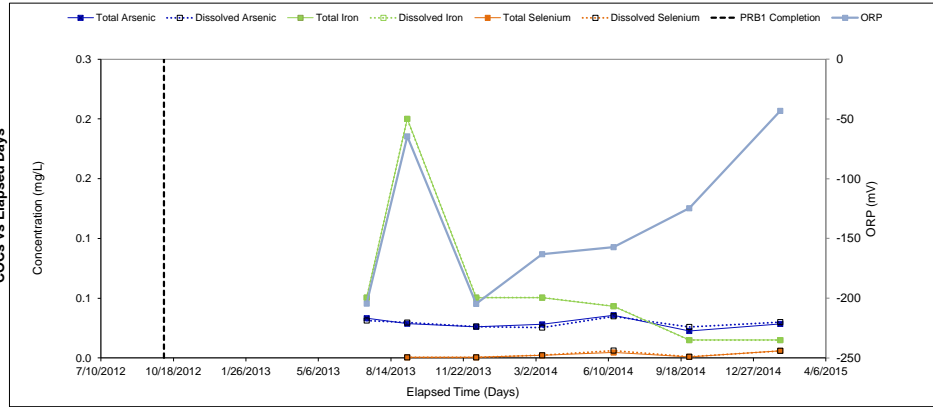
**Well Information**

Total Depth	35 feet bgs
Screen Material	PVC
Screen Slot	0.010 slot
Screen Interval	28-38 feet bgs
Relative Location	Downgradient of PRB-1

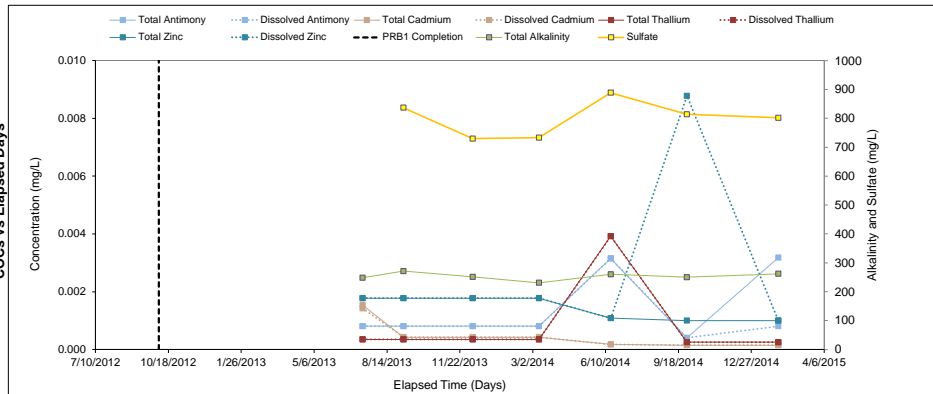
**Aquifer Conditions vs Elapsed Days**



**COCs vs Elapsed Days**



**COCs vs Elapsed Days**



**Downgradient of PRB-1**

ASARCO Former Smelter

PRB-1 Installation Date 10/5/2012

EP-143

El Paso, TX

**Well Location**



**Well Information**

Total Depth	40 feet bgs
Screen Material	PVC
Screen Slot	0.010 slot
Screen Interval	28-38 feet bgs
Relative Location	Downgradient of PRB-1

**Aquifer Conditions & Field Parameters**

Date	Elapsed Days	pH (SU)	conductivity (uS/cm)	TOC (mg/L)	temperature (deg C)	ORP (mV)	DO (mg/L)	Total Alkalinity (mg/L)	Sulfate (mg/L)
7/15/2013	283.5	7.85	3836	#N/A	24.72	-27.7	0.4	323	#N/A
9/6/2013	337	7.60	3434	2.28	25.71	57.3	0.11	342	936
12/11/2013	432.5	7.65	3040	2.11	21.7	-224.6	0.26	355	684
3/1/2014	522.6	7.52	2906	#N/A	22.9	-135	0.15	345	944
6/18/2014	621.1	7.64	3580	#N/A	24.4	-43.6	0.15	326	984
10/1/2014	726.4	7.95	2599	#N/A	24.2	243.8	0.13	342	838
2/4/2015	852.1	7.62	3294	#N/A	22.7	-43.7	0.13	367	906

**Contaminants of Concern**

Date	Elapsed Days	Antimony		Arsenic		Cadmium		Iron	
		Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)
7/15/2013	283	0.01	0.01	0.65	0.60	0.0011	0.0012	0.41	0.05
9/6/2013	337	0.01	0.01	0.75	0.68	0.0010	0.0004	0.20	0.20
12/11/2013	433	0.01	0.01	0.62	0.64	0.0043	0.0021	0.51	0.25
3/1/2014	523	0.02	0.02	0.84	0.84	0.0013	0.0010	0.05	0.05
6/18/2014	621	0.02	0.02	0.96	0.94	0.0018	0.0018	0.04	0.04
10/1/2014	726	0.02	0.02	0.70	0.68	0.0002	0.0002	0.02	0.02
2/4/2015	852	0.02	0.02	0.68	0.70	0.0002	0.0002	0.17	0.02

**Contaminants of Concern**

Date	Elapsed Days	Selenium		Thallium		Zinc	
		Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)
7/15/2013	283	0.0958	0.0845	0.0044	0.0041	0.0018	0.0018
9/6/2013	337	0.1010	0.0921	0.0058	0.0059	0.0018	0.0018
12/11/2013	433	0.1590	0.1430	0.0351	0.0165	0.0178	0.0089
3/1/2014	523	0.1460	0.1520	0.0056	0.0040	0.0261	0.0018
6/18/2014	621	0.1350	0.1330	0.0039	0.0039	0.0064	0.0011
10/1/2014	726	0.0660	0.0660	0.0050	0.0049	#N/A	#N/A
2/4/2015	852	0.0916	0.0940	0.0015	0.0014	0.0010	0.0010



# Downgradient of PRB-1 EP-143

ASARCO Former Smelter  
El Paso, TX

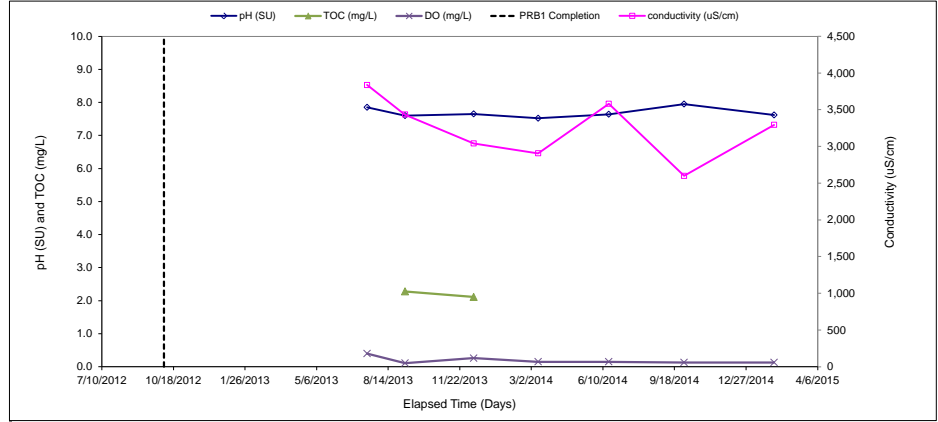
## Well Location



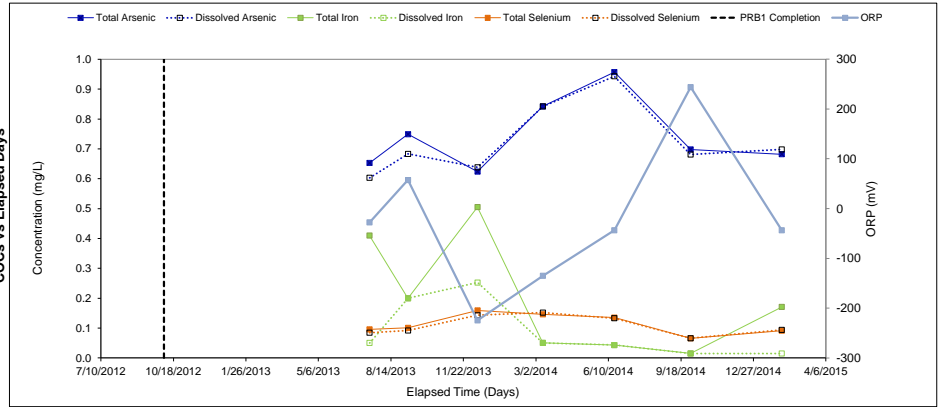
## Well Information

Total Depth	40 feet bgs
Screen Material	PVC
Screen Slot	0.010 slot
Screen Interval	28-38 feet bgs
Relative Location	Downgradient of PRB-1

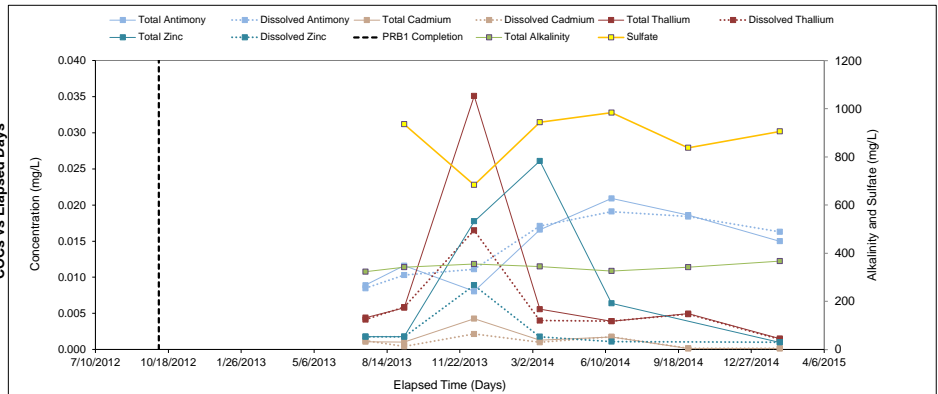
Aquifer Conditions vs Elapsed Days



COCs vs Elapsed Days



COCs vs Elapsed Days



**Downgradient of PRB-1**

ASARCO Former Smelter

PRB-1 Installation Date 10/5/2012

EP-144

El Paso, TX

**Well Location**



**Well Information**

Total Depth	24.5 feet bgs
Screen Material	PVC
Screen Slot	0.010 slot
Screen Interval	13.5-23.5 feet bgs
Relative Location	Downgradient of PRB-1

**Aquifer Conditions & Field Parameters**

Date	Elapsed Days	pH (SU)	conductivity (uS/cm)	TOC (mg/L)	temperature (deg C)	ORP (mV)	DO (mg/L)	Total Alkalinity (mg/L)	Sulfate (mg/L)
5/8/2012	-149.4	7.33	3657	2.81	23.88	102.3	0.43	386	#N/A
6/5/2012	-121.5	6.17	3841	3.03	24.4	389.9	6.72	390	1120
10/18/2012	13.4	7.50	3160	2.66	25.35	110.8	0.67	186	1070
11/15/2012	41.4	7.93	3113	2.27	24.68	136.3	0.05	188	928
12/4/2012	60.4	7.94	3385	2.21	24.63	7.6	0.14	225	1060
2/6/2013	124.5	8.15	3489	2.26	24.27	-16.7	0.08	257	1040
7/11/2013	279.3	7.90	3792	#N/A	25.23	-38.8	0.18	322	#N/A
9/17/2013	347.6	7.82	3574	2.13	26.9	38.1	0.06	343	959
12/17/2013	438.4	7.59	3501	1.99	22.44	33.6	0.19	377	744
6/16/2014	619.5	7.48	3430	#N/A	25.9	-120.7	0.12	365	1030
2/12/2015	860.6	7.64	3454	#N/A	23.9	-64.4	0.04	421	961

**Contaminants of Concern**

Date	Elapsed Days	Antimony		Arsenic		Cadmium		Iron	
		Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)
5/8/2012	-149	0.02	0.03	1.12	1.06	0.0004	0.0004	0.05	0.05
6/5/2012	-122	0.02	0.02	1.22	1.11	0.0004	0.0004	0.05	0.05
10/18/2012	13	0.02	0.02	1.04	1.03	0.0004	0.0004	0.30	0.05
11/15/2012	41	0.02	0.02	0.75	0.78	0.0004	0.0004	0.48	0.05
12/4/2012	60	0.02	0.02	0.61	0.59	0.0004	0.0004	0.72	0.05
2/6/2013	124	0.01	0.01	0.52	0.50	0.0004	0.0004	0.66	0.05
7/11/2013	279	0.01	0.01	0.59	0.61	0.0020	0.0017	0.32	0.05
9/17/2013	348	0.01	0.01	0.64	0.60	0.0004	0.0009	0.45	0.20
12/17/2013	438	0.01	0.01	0.82	0.83	0.0004	0.0004	0.25	0.05
6/16/2014	619	0.01	0.02	0.99	0.99	0.0002	0.0002	0.27	0.04
2/12/2015	861	0.01	0.01	0.12	0.12	0.0002	0.0002	0.33	0.12

**Contaminants of Concern**

Date	Elapsed Days	Selenium		Thallium		Zinc	
		Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)
5/8/2012	-149	0.1470	0.1440	0.0010	0.0010	0.0018	0.0036
6/5/2012	-122	0.1590	0.1520	0.0008	0.0003	0.0018	0.0018
10/18/2012	13	0.0121	0.0106	0.0012	0.0012	0.0018	0.0018
11/15/2012	41	0.0063	0.0069	0.0011	0.0003	0.0018	0.0018
12/4/2012	60	0.0158	0.0157	0.0003	0.0008	0.0036	0.0018
2/6/2013	124	0.0384	0.0366	0.0003	0.0003	0.0090	0.0138
7/11/2013	279	0.0880	0.1040	0.0008	0.0003	0.0178	0.0018
9/17/2013	348	0.0859	0.0819	0.0014	0.0013	0.0040	0.0018
12/17/2013	438	0.2010	0.2090	0.0003	0.0003	0.0065	0.0043
6/16/2014	619	0.1640	0.1680	0.0039	0.0163	0.0011	0.0055
2/12/2015	861	0.0957	0.0953	0.0003	0.0003	0.0010	0.0010

**Downgradient of PRB-1  
EP-144**

**ASARCO Former Smelter  
El Paso, TX**

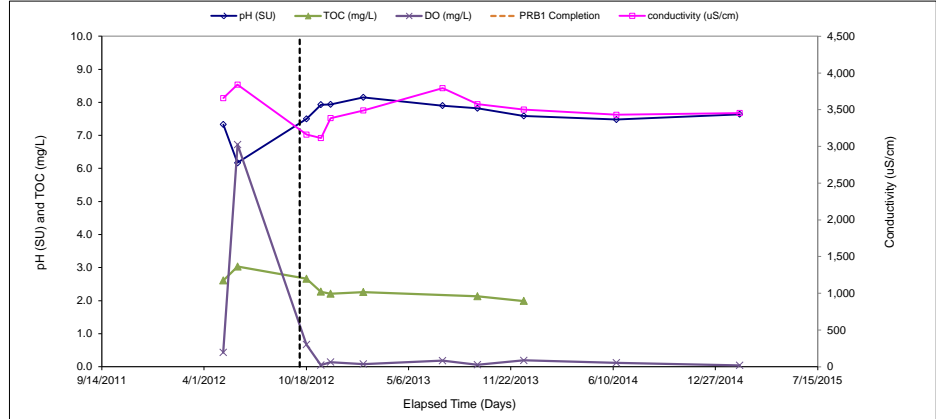
**Well Location**



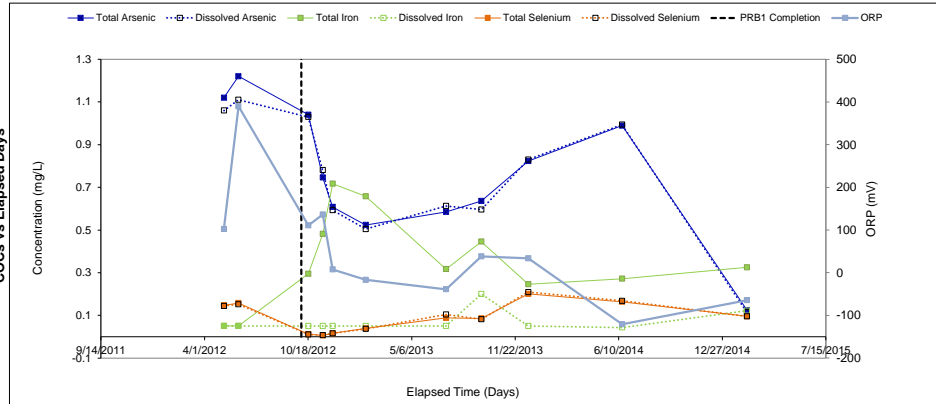
**Well Information**

Total Depth	24.5 feet bgs
Screen Material	PVC
Screen Slot	0.010 slot
Screen Interval	13.5-23.5 feet bgs
Relative Location	Downgradient of PRB-1

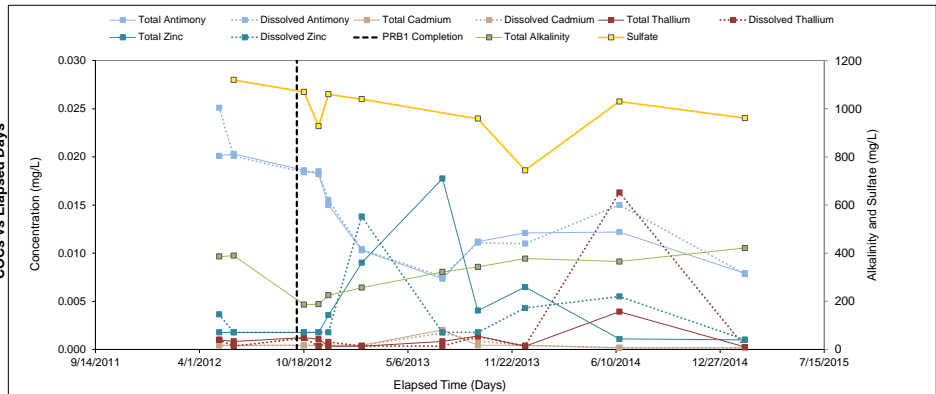
**Aquifer Conditions vs Elapsed Days**



**COCs vs Elapsed Days**



**COCs vs Elapsed Days**



**Downgradient of PRB-1**

ASARCO Former Smelter

PRB-1 Installation Date 10/5/2012

EP-145

El Paso, TX

**Well Location**



**Well Information**

Total Depth	28
Screen Material	PVC
Screen Slot	0.010 slot
Screen Interval	17.7 - 27.7
Relative Location	Downgradient of PRB-1

**Aquifer Conditions & Field Parameters**

Date	Elapsed Days	pH (SU)	conductivity (uS/cm)	TOC (mg/L)	temperature (deg C)	ORP (mV)	DO (mg/L)	Total Alkalinity (mg/L)	Sulfate (mg/L)
5/8/2012	-149.6	7.30	3626	3.02	22.39	90.7	0.51	418	#N/A
6/5/2012	-121.4	5.99	3878	3.47	23.91	362.8	7.55	407	1160
10/18/2012	13.5	7.07	3527	2.3	24.85	72.1	0.13	351	1080
11/15/2012	41.4	7.37	3551	2.75	23.2	124.7	0.3	351	1030
12/4/2012	60.4	7.47	3763	3.18	22.5	-22.8	0.2	366	1230
2/5/2013	123.4	7.35	3805	2.76	19.75	22	0.59	380	1060
7/10/2013	278.6	7.32	4088	#N/A	26.48	-19.6	0.48	391	#N/A
9/9/2013	339.4	7.30	3619	2.65	23.87	83	0.24	405	1070
12/11/2013	432.4	7.48	3201	2.71	18.86	18.9	0.67	413	818
6/19/2014	622.4	7.34	3790	#N/A	24.2	69.3	0.19	383	1060
2/5/2015	853.4	7.40	3647	#N/A	19.8	266	0.19	415	1070

**Contaminants of Concern**

Date	Elapsed Days	Antimony		Arsenic		Cadmium		Iron	
		Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)
5/8/2012	-150	0.01	0.01	0.59	0.60	0.0004	0.0004	0.05	0.05
6/5/2012	-121	0.01	0.01	0.64	0.60	0.0004	0.0004	0.05	0.05
10/18/2012	13	0.01	0.01	0.66	0.67	0.0004	0.0004	0.05	0.05
11/15/2012	41	0.01	0.01	0.55	0.57	0.0004	0.0004	0.05	0.05
12/4/2012	60	0.01	0.01	0.58	0.57	0.0004	0.0004	0.05	0.05
2/5/2013	123	0.01	0.01	0.56	0.57	0.0004	0.0004	0.05	0.05
7/10/2013	278	0.01	0.01	0.64	0.71	0.0013	0.0016	0.05	0.05
9/9/2013	339	0.01	0.01	0.73	0.68	0.0004	0.0004	0.20	0.20
12/11/2013	432	0.01	0.01	0.64	0.68	0.0043	0.0021	0.51	0.25
6/19/2014	622	0.01	#N/A	0.81	#N/A	0.0018	#N/A	0.04	#N/A
2/5/2015	853	0.01	0.01	0.41	0.43	0.0002	0.0002	0.04	0.02

**Contaminants of Concern**

Date	Elapsed Days	Selenium		Thallium		Zinc	
		Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)
5/8/2012	-150	0.1400	0.1520	0.0048	0.0046	0.0018	0.0018
6/5/2012	-121	0.1490	0.1430	0.0045	0.0044	0.0151	0.0067
10/18/2012	13	0.1000	0.0992	0.0048	0.0049	0.0018	0.0018
11/15/2012	41	0.1100	0.1090	0.0040	0.0043	0.0018	0.0018
12/4/2012	60	0.1270	0.1240	0.0043	0.0044	0.0018	0.0018
2/5/2013	123	0.1200	0.1130	0.0037	0.0036	0.0018	0.0018
7/10/2013	278	0.1310	0.1350	0.0034	0.0041	0.0054	0.0018
9/9/2013	339	0.1320	0.1230	0.0043	0.0041	0.0018	0.0018
12/11/2013	432	0.2010	0.2070	0.0236	0.0363	0.0178	0.0089
6/19/2014	622	0.1400	#N/A	0.0039	#N/A	0.0011	#N/A
2/5/2015	853	0.1100	0.1060	0.0059	0.0060	0.0028	0.0010

**Downgradient of PRB-1  
EP-145**

**ASARCO Former Smelter  
El Paso, TX**

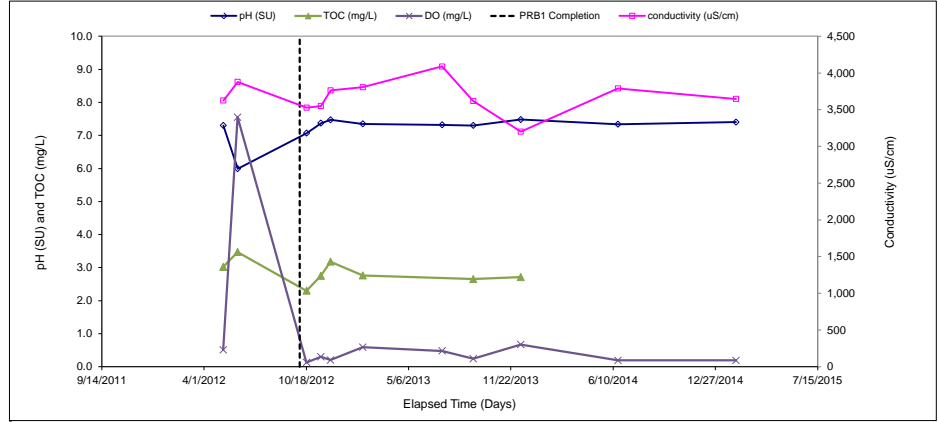
**Well Location**



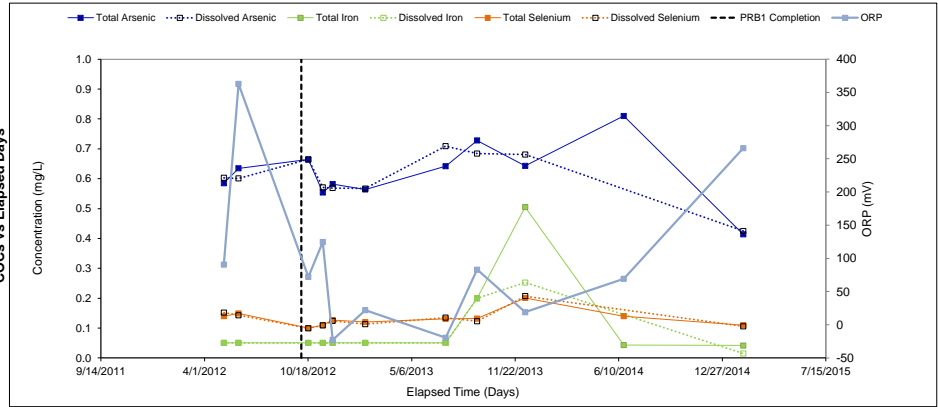
**Well Information**

Total Depth	28
Screen Material	PVC
Screen Slot	0.010 slot
Screen Interval	17.7 - 27.7
Relative Location	Downgradient of PRB-1

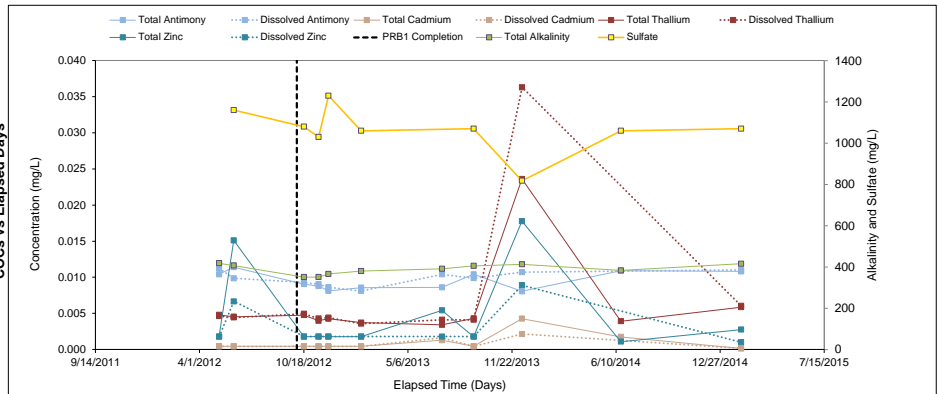
**Aquifer Conditions vs Elapsed Days**



**COCs vs Elapsed Days**



**COCs vs Elapsed Days**



**Downgradient of PRB-1**

ASARCO Former Smelter

PRB-1 Installation Date 10/5/2012

EP-146

El Paso, TX

**Well Location**



**Well Information**

Total Depth	27.5 feet bgs
Screen Material	PVC
Screen Slot	0.010 slot
Screen Interval	17 - 27 feet bgs
Relative Location	Between PRB-1 & PRB-2

Aquifer Conditions & Field Parameters

Date	Elapsed Days	pH (SU)	conductivity (uS/cm)	TOC (mg/L)	temperature (deg C)	ORP (mV)	DO (mg/L)	Total Alkalinity (mg/L)	Sulfate (mg/L)
5/8/2012	-149.4	7.29	3655	2.94	23.16	104.3	0.63	416	#N/A
6/5/2012	-121.4	5.78	3909	3.44	24.48	390	8.09	397	1180
10/18/2012	13.5	7.01	3662	2.25	25.07	39.6	0.19	372	1180
12/4/2012	60.5	7.38	3810	2.56	23.45	-51.7	0.3	355	1220
2/5/2013	123.4	7.35	3857	2.69	20.45	7.4	0.2	386	1010
7/10/2013	278.6	7.29	4123	#N/A	26.84	-2	0.54	401	#N/A
9/9/2013	339.5	7.14	3667	2.54	24.88	125.6	0.33	401	1140
12/11/2013	432.4	7.41	3453	3.02	22.23	-20.6	0.53	418	643
6/19/2014	622.5	7.35	3820	#N/A	23.8	60.5	0.17	386	1080
2/5/2015	853.4	7.38	3617	#N/A	21.3	-79.5	0.09	414	1080

Contaminants of Concern

Date	Elapsed Days	Antimony		Arsenic		Cadmium		Iron	
		Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)
5/8/2012	-149	0.01	0.01	0.73	0.73	0.0004	0.0004	0.05	0.05
6/5/2012	-121	0.01	0.01	0.72	0.72	0.0004	0.0004	0.05	0.05
10/18/2012	14	0.01	0.01	0.72	0.69	0.0004	0.0004	0.05	0.05
12/4/2012	60	0.01	0.01	0.63	0.65	0.0004	0.0004	0.05	0.05
2/5/2013	123	0.01	0.01	0.65	0.63	0.0004	0.0004	2.08	0.05
7/10/2013	279	0.01	0.01	0.68	0.77	0.0013	0.0015	0.05	0.05
9/9/2013	339	0.01	0.01	0.73	0.69	0.0004	0.0004	0.20	0.20
12/11/2013	432	0.01	0.01	0.67	0.71	0.0043	0.0021	0.51	0.25
6/19/2014	622	0.01	#N/A	0.79	#N/A	0.0018	#N/A	0.04	#N/A
2/5/2015	853	0.00	0.00	0.29	0.29	0.0002	0.0002	0.61	0.56

Contaminants of Concern

Date	Elapsed Days	Selenium		Thallium		Zinc	
		Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)
5/8/2012	-149	0.1500	0.1510	0.0040	0.0036	0.0055	0.0018
6/5/2012	-121	0.1290	0.1560	0.0040	0.0037	0.0048	0.0044
10/18/2012	14	0.1150	0.1050	0.0040	0.0039	0.0018	0.0018
12/4/2012	60	0.1150	0.1150	0.0037	0.0036	0.0018	0.0018
2/5/2013	123	0.1220	0.1140	0.0032	0.0029	0.0068	0.0018
7/10/2013	279	0.1320	0.1430	0.0037	0.0036	0.0054	0.0018
9/9/2013	339	0.1360	0.1300	0.0038	0.0031	0.0018	0.0018
12/11/2013	432	0.1900	0.2190	0.0035	0.0318	0.0178	0.0089
6/19/2014	622	0.1400	#N/A	0.0039	#N/A	0.0011	#N/A
2/5/2015	853	0.0010	0.0010	0.0003	0.0003	0.0010	0.0010

**Downgradient of PRB-1  
EP-146**

**ASARCO Former Smelter  
El Paso, TX**

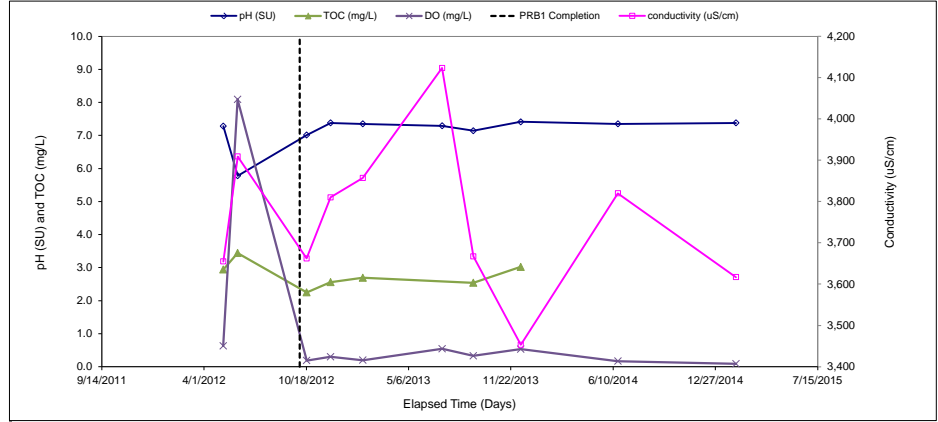
**Well Location**



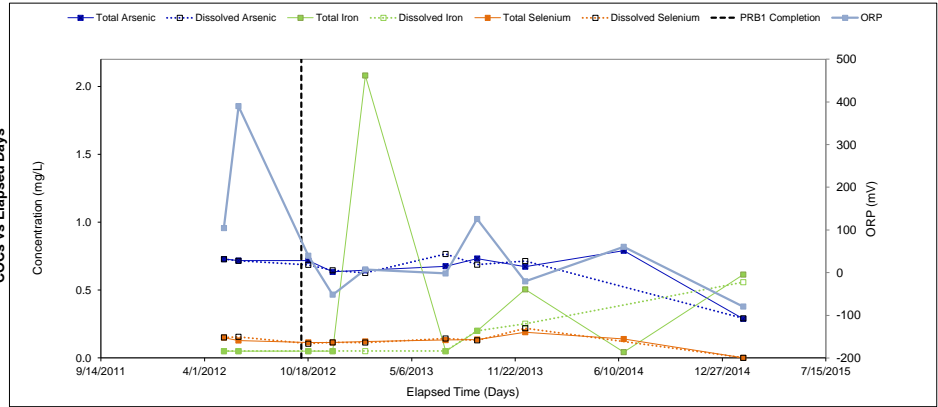
**Well Information**

Total Depth	27.5 feet bgs
Screen Material	PVC
Screen Slot	0.010 slot
Screen Interval	17 - 27 feet bgs
Relative Location	Between PRB-1 & PRB-2

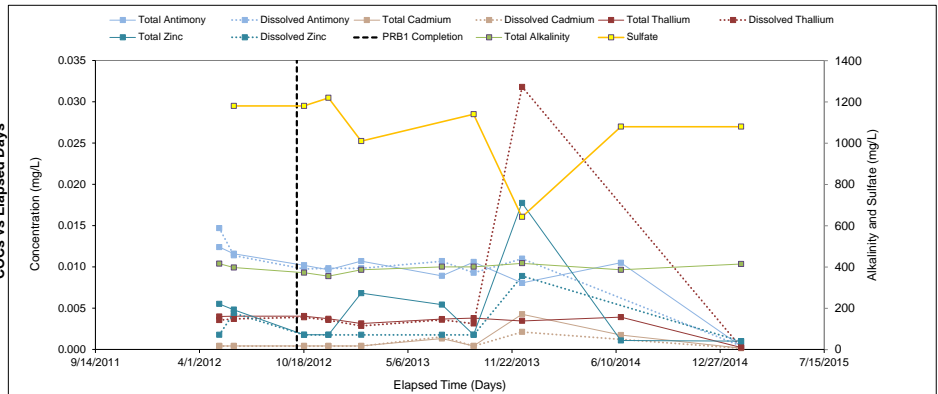
**Aquifer Conditions vs Elapsed Days**



**COCs vs Elapsed Days**



**COCs vs Elapsed Days**



**Downgradient of PRB-1**

ASARCO Former Smelter

PRB-1 Installation Date 10/5/2012

EP-147

El Paso, TX

**Well Location**



**Well Information**

Total Depth	30 feet bgs
Screen Material	PVC
Screen Slot	0.010 slot
Screen Interval	13.4-28.4 feet bgs
Relative Location	Between PRB-1 & PRB-2

**Aquifer Conditions & Field Parameters**

Date	Elapsed Days	pH (SU)	conductivity (uS/cm)	TOC (mg/L)	temperature (deg C)	ORP (mV)	DO (mg/L)	Total Alkalinity (mg/L)	Sulfate (mg/L)
5/8/2012	-149.3	7.27	3564	2.88	22.4	113.9	0.28	419	#N/A
6/6/2012	-120.6	6.55	3754	3.8	22.87	281.6	8.05	400	1160
10/18/2012	13.6	7.00	3569	2.55	24.91	37.4	0.1	398	1080
12/4/2012	60.6	7.12	3857	2.84	23.69	-20.7	0.28	372	1230
2/5/2013	123.4	7.37	3778	2.6	20.79	-0.3	0.2	382	1130
7/10/2013	278.5	7.28	4157	#N/A	25.45	-14.8	0.55	413	#N/A
9/9/2013	339.6	7.10	3700	2.74	23.45	128	0.08	412	1070
12/11/2013	432.5	7.48	3450	2.92	21.25	-7.5	0.52	418	702
6/19/2014	622.1	7.33	3850	#N/A	23.8	90.2	0.16	385	1080
2/5/2015	853.5	7.38	3644	#N/A	20.2	40.3	0.11	432	1090

**Contaminants of Concern**

Date	Elapsed Days	Antimony		Arsenic		Cadmium		Iron	
		Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)
5/8/2012	-149	0.02	0.02	0.59	0.60	0.0004	0.0004	0.05	0.05
6/6/2012	-121	0.01	0.01	0.63	0.60	0.0004	0.0004	0.13	0.05
10/18/2012	14	0.01	0.01	0.64	0.66	0.0004	0.0004	0.05	0.05
12/4/2012	61	0.01	0.01	0.59	0.59	0.0004	0.0004	0.05	0.05
2/5/2013	123	0.02	0.02	0.66	0.65	0.0004	0.0004	0.05	0.05
7/10/2013	278	0.02	0.01	0.69	0.65	0.0012	0.0013	0.05	0.05
9/9/2013	340	0.01	0.01	0.62	0.64	0.0004	0.0004	0.20	0.20
12/11/2013	432	0.01	0.02	0.61	0.61	0.0043	0.0021	0.51	0.25
6/19/2014	622	0.02	#N/A	0.65	#N/A	0.0002	#N/A	0.04	#N/A
2/5/2015	853	0.01	0.01	0.44	0.44	0.0002	0.0002	0.02	0.02

**Contaminants of Concern**

Date	Elapsed Days	Selenium		Thallium		Zinc	
		Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)
5/8/2012	-149	0.1440	0.1470	0.0070	0.0063	0.0041	0.0018
6/6/2012	-121	0.1490	0.1480	0.0081	0.0069	0.0018	0.0018
10/18/2012	14	0.1200	0.1180	0.0072	0.0074	0.0018	0.0018
12/4/2012	61	0.1170	0.1210	0.0071	0.0068	0.0018	0.0041
2/5/2013	123	0.1000	0.1120	0.0055	0.0060	0.0018	0.0018
7/10/2013	278	0.1300	0.1190	0.0067	0.0059	0.0053	0.0018
9/9/2013	340	0.1250	0.1220	0.0062	0.0059	0.0018	0.0018
12/11/2013	432	0.2210	0.2410	0.0264	0.0359	0.0178	0.0089
6/19/2014	622	0.1330	#N/A	0.0039	#N/A	0.0011	#N/A
2/5/2015	853	0.0250	0.0244	0.0072	0.0073	0.0060	0.0040



**Downgradient of PRB-1  
EP-147**

**ASARCO Former Smelter  
El Paso, TX**

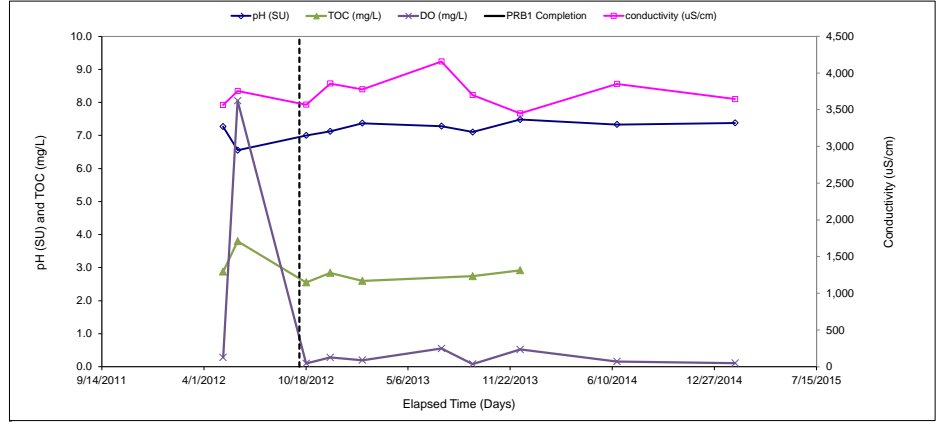
**Well Location**



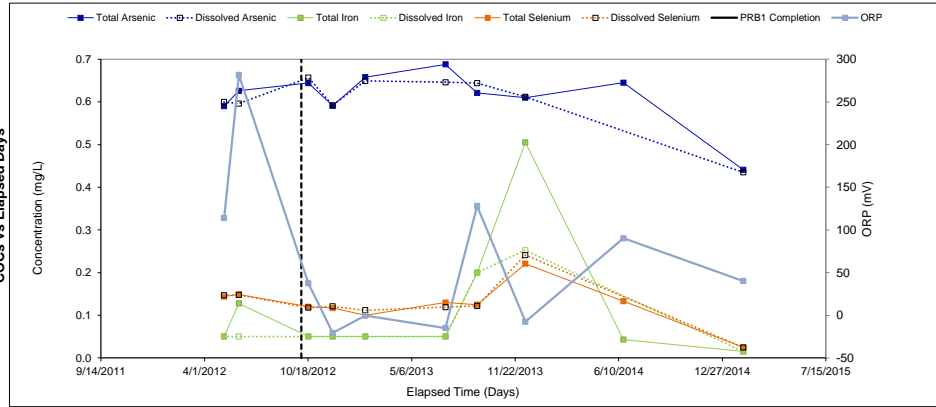
**Well Information**

Total Depth	30 feet bgs
Screen Material	PVC
Screen Slot	0.010 slot
Screen Interval	13.4-28.4 feet bgs
Relative Location	Between PRB-1 & PRB-2

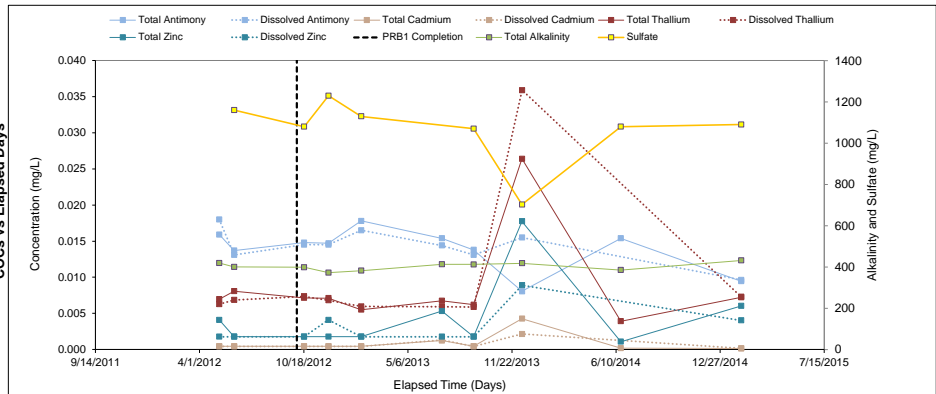
**Aquifer Conditions vs Elapsed Days**



**COCs vs Elapsed Days**



**COCs vs Elapsed Days**



**Upgradient of PRB-2**

ASARCO Former Smelter

PRB-2 Installation Date 10/15/2012

EP-148

El Paso, TX

**Well Location**



**Well Information**

Total Depth	32 feet bgs
Screen Material	PVC
Screen Slot	0.010 slot
Screen Interval	13-28 feet bgs
Relative Location	Upgradient of PRB-2

Aquifer Conditions & Field Parameters

Date	Elapsed Days	pH (SU)	conductivity (uS/cm)	TOC (mg/L)	temperature (deg C)	ORP (mV)	DO (mg/L)	Total Alkalinity (mg/L)	Sulfate (mg/L)
7/15/2013	273.6	7.21	4354	#N/A	24.51	-21.1	0.26	408	#N/A
9/17/2013	337.4	7.31	3774	3.28	23.7	126.3	0.15	386	1120
12/12/2013	423.5	7.26	3045	2.98	20.3	26.5	0.6	419	833
6/25/2014	618.4	7.32	3970	#N/A	23.5	247.8	0.31	384	1140
2/5/2015	843.1	7.38	3766	#N/A	20.4	121.2	0.12	409	1140

Contaminants of Concern

Date	Elapsed Days	Antimony		Arsenic		Cadmium		Iron	
		Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)
7/15/2013	274	0.02	0.02	1.75	1.70	0.0492	0.0482	0.05	0.05
9/17/2013	337	0.03	0.03	1.82	1.88	0.0505	0.0444	0.20	0.20
12/12/2013	423	0.03	0.03	1.71	1.73	0.0302	0.0297	0.05	0.05
6/25/2014	618	0.02	#N/A	1.62	#N/A	0.0374	#N/A	0.04	#N/A
2/5/2015	843	0.02	0.02	1.60	1.64	0.0360	0.0366	0.02	0.02

Contaminants of Concern

Date	Elapsed Days	Selenium		Thallium		Zinc	
		Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)
7/15/2013	274	0.2100	0.2070	0.0155	0.0155	0.2980	0.2850
9/17/2013	337	0.1880	0.1930	0.0165	0.0175	0.3020	0.3120
12/12/2013	423	0.2910	0.2990	0.0149	0.0173	0.1730	0.1760
6/25/2014	618	0.2260	#N/A	0.0133	#N/A	0.2470	#N/A
2/5/2015	843	0.2380	0.2360	0.0148	0.0153	0.2380	0.2370

**Upgradient of PRB-2**  
**EP-148**

**ASARCO Former Smelter**  
 El Paso, TX

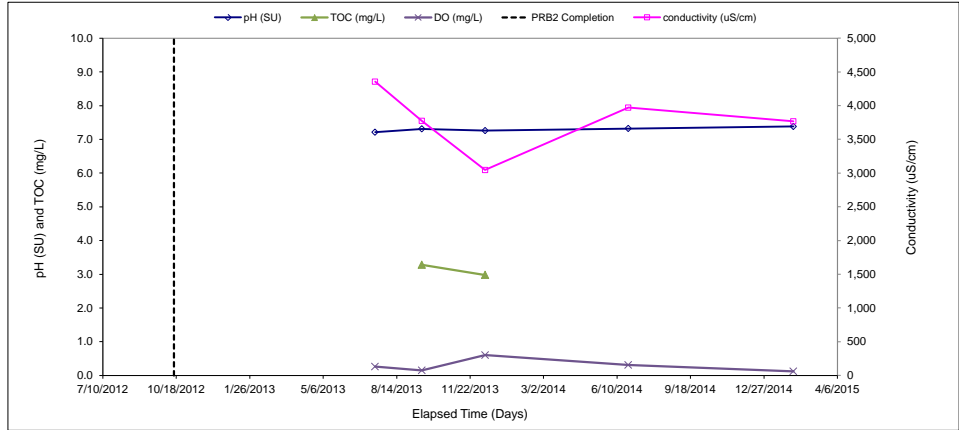
**Well Location**



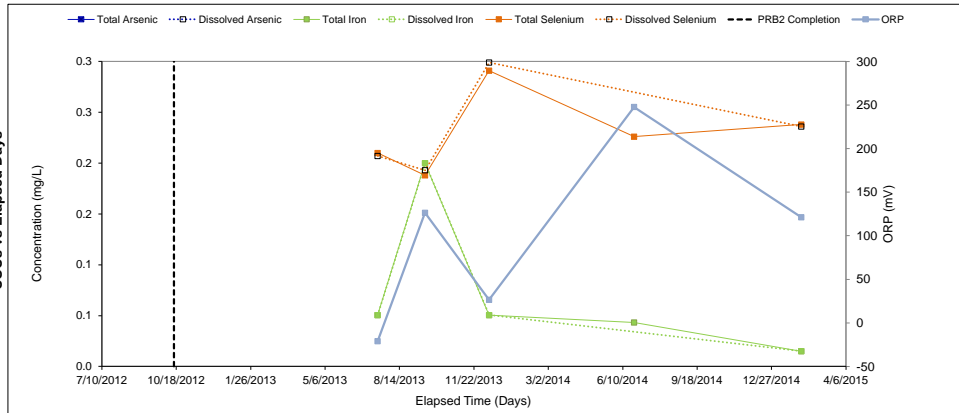
**Well Information**

Total Depth	32 feet bgs
Screen Material	PVC
Screen Slot	0.010 slot
Screen Interval	13-28 feet bgs
Relative Location	Upgradient of PRB-2

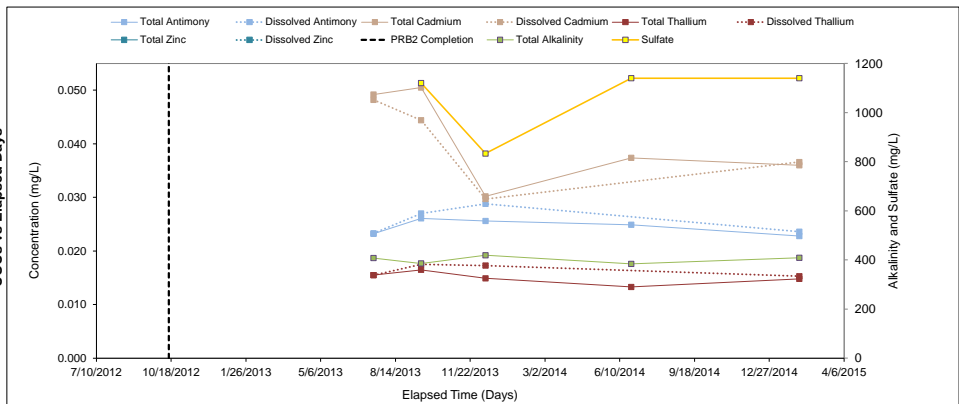
**Aquifer Conditions vs Elapsed Days**



**COCs vs Elapsed Days**



**COCs vs Elapsed Days**



**Upgradient of PRB-2**

ASARCO Former Smelter

PRB-2 Installation Date 10/15/2012

EP-149

El Paso, TX

**Well Location**



**Well Information**

Total Depth	31 feet bgs
Screen Material	PVC
Screen Slot	0.010 slot
Screen Interval	12-27 feet bgs
Relative Location	Upgradient of PRB-2

Aquifer Conditions & Field Parameters

Date	Elapsed Days	pH (SU)	conductivity (uS/cm)	TOC (mg/L)	temperature (deg C)	ORP (mV)	DO (mg/L)	Total Alkalinity (mg/L)	Sulfate (mg/L)
7/15/2013	273.6	7.18	4525	#N/A	24.29	-17.1	0.27	403	#N/A
9/17/2013	337.4	7.28	3964	3.09	23.5	115.1	0.19	398	956
12/12/2013	423.5	7.23	2890	2.98	18.5	-192.4	0.35	408	798
6/19/2014	612.1	7.26	4010	#N/A	25.6	54	0.13	384	1150
2/5/2015	843.1	7.39	3807	#N/A	20.9	132.4	0.11	406	1160

Contaminants of Concern

Date	Elapsed Days	Antimony		Arsenic		Cadmium		Iron	
		Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)
7/15/2013	274	0.02	0.02	2.38	2.29	0.0330	0.0302	0.05	0.05
9/17/2013	337	0.02	0.02	1.93	1.78	0.0355	0.0347	0.20	0.20
12/12/2013	423	0.03	0.03	2.40	2.36	0.0299	0.0286	0.05	0.05
6/19/2014	612	0.02	#N/A	2.13	#N/A	0.0310	#N/A	0.04	#N/A
2/5/2015	843	0.02	0.02	2.06	2.04	0.0390	0.0405	0.02	0.02

Contaminants of Concern

Date	Elapsed Days	Selenium		Thallium		Zinc	
		Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)
7/15/2013	274	0.2870	0.2810	0.0205	0.0196	0.1670	0.1640
9/17/2013	337	0.2010	0.1870	0.0206	0.0194	0.2050	0.1910
12/12/2013	423	0.3530	0.3610	0.0206	0.0221	0.1540	0.1600
6/19/2014	612	0.3100	#N/A	0.0180	#N/A	0.2900	#N/A
2/5/2015	843	0.2940	0.3020	0.0201	0.0208	0.2380	0.2360



**Downgradient of PRB-2**

ASARCO Former Smelter

PRB-2 Installation Date 10/15/2012

**EP-153**

EI Paso, TX

**Well Location**



**Well Information**

Total Depth	25.5 feet bgs
Screen Material	PVC
Screen Slot	0.010 slot
Screen Interval	9.8 - 24.8 feet bgs
Relative Location	Downgradient of PRB-2

**Aquifer Conditions & Field Parameters**

Date	Elapsed Days	pH (SU)	conductivity (uS/cm)	TOC (mg/L)	temperature (deg C)	ORP (mV)	DO (mg/L)	Total Alkalinity (mg/L)	Sulfate (mg/L)
5/9/2012	-158.6	7.34	3389	3.3	21.12	56.8	0.44	396	#N/A
6/6/2012	-130.4	5.20	3780	3.52	23.52	398.3	3.73	394	1150
10/19/2012	4.4	7.02	3428	2.27	22.77	82.5	0.16	402	1050
11/15/2012	31.5	7.37	3631	3.2	24.21	96.4	0.48	339	1110
12/5/2012	51.4	7.28	3738	3.17	23.23	95.1	0.27	328	1120
2/6/2013	114.4	7.36	3801	2.74	22.3	3.2	0.19	369	1070
7/10/2013	268.4	7.32	4071	#N/A	24.66	-34.1	0.59	380	#N/A
9/18/2013	338.4	7.37	3833	2.57	23	132.9	0.3	396	939
12/11/2013	422.7	7.44	3373	2.82	20.77	1.3	0.33	402	781
6/20/2014	613.1	7.39	3830	#N/A	24.2	16.8	0.32	357	1080
2/11/2015	849.5	7.42	3651	#N/A	21.8	236.6	0.1	418	1110

**Contaminants of Concern**

Date	Elapsed Days	Antimony		Arsenic		Cadmium		Iron	
		Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)
5/9/2012	-159	0.02	0.02	0.71	0.76	0.0012	0.0012	0.05	0.05
6/6/2012	-130	0.02	0.02	0.80	0.81	0.0010	0.0009	0.05	0.05
10/19/2012	4	0.02	0.02	0.78	0.82	0.0004	0.0004	0.12	0.05
11/15/2012	31	0.02	0.02	0.75	0.76	0.0004	0.0004	0.05	0.05
12/5/2012	51	0.01	0.02	0.74	0.72	0.0004	0.0004	0.05	0.05
2/6/2013	114	0.02	0.02	0.85	0.80	0.0004	0.0004	0.05	0.05
7/10/2013	268	0.02	0.02	0.86	0.91	0.0017	0.0017	0.05	0.05
9/18/2013	338	0.02	0.02	0.80	0.80	0.0015	0.0016	0.20	0.20
12/11/2013	423	0.01	0.01	0.83	0.50	0.0043	0.0021	0.51	0.25
6/20/2014	613	0.02	#N/A	0.91	#N/A	0.0018	#N/A	0.04	#N/A
2/11/2015	849	0.01	0.01	0.73	0.72	0.0007	0.0006	0.02	0.02

**Contaminants of Concern**

Date	Elapsed Days	Selenium		Thallium		Zinc	
		Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)
5/9/2012	-159	0.1320	0.1520	0.0063	0.0066	0.0054	0.0056
6/6/2012	-130	0.1470	0.1510	0.0067	0.0069	0.0115	0.0101
10/19/2012	4	0.1140	0.1230	0.0061	0.0068	0.0018	0.0018
11/15/2012	31	0.1010	0.1020	0.0065	0.0064	0.0018	0.0018
12/5/2012	51	0.0977	0.0957	0.0064	0.0063	0.0045	0.0044
2/6/2013	114	0.1060	0.1090	0.0078	0.0067	0.0074	0.0018
7/10/2013	268	0.1310	0.1250	0.0065	0.0055	0.0072	0.0018
9/18/2013	338	0.1070	0.1110	0.0060	0.0063	0.0018	0.0018
12/11/2013	423	0.1970	0.1350	0.0347	0.0261	0.0178	0.0089
6/20/2014	613	0.1520	#N/A	0.0088	#N/A	0.0055	#N/A
2/11/2015	849	0.0785	0.0770	0.0088	0.0087	0.0051	0.0061

**Downgradient of PRB-2**  
**EP-153**

**ASARCO Former Smelter**  
 El Paso, TX

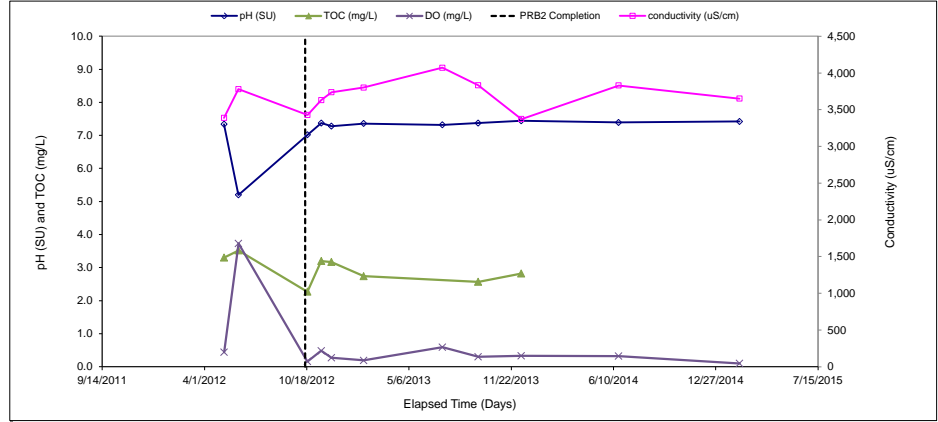
**Well Location**



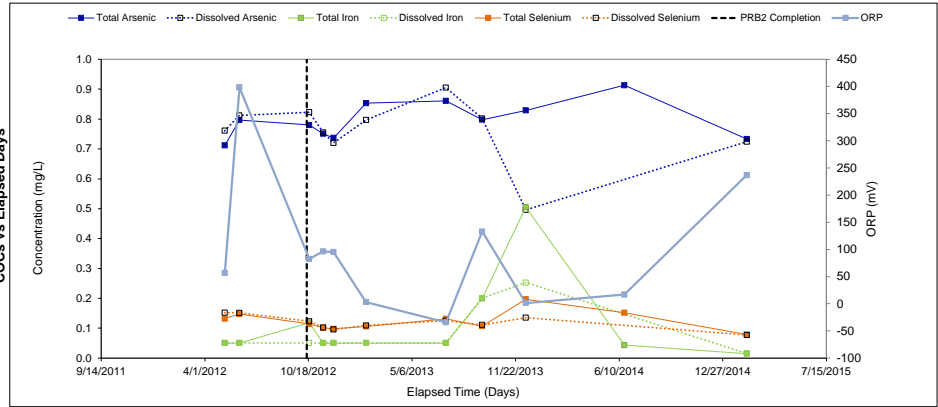
**Well Information**

Total Depth	25.5 feet bgs
Screen Material	PVC
Screen Slot	0.010 slot
Screen Interval	9.8 - 24.8 feet bgs
Relative Location	Downgradient of PRB-2

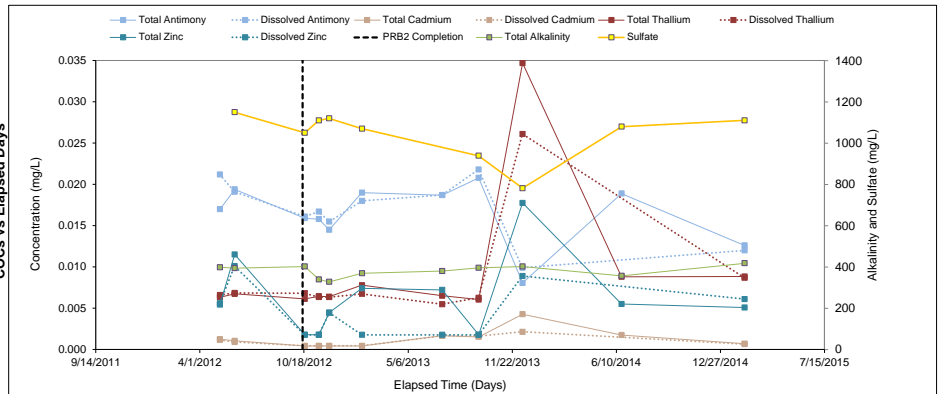
**Aquifer Conditions vs Elapsed Days**



**COCs vs Elapsed Days**



**COCs vs Elapsed Days**



**Downgradient of PRB-2**

ASARCO Former Smelter

PRB-2 Installation Date 10/15/2012

EP-154

El Paso, TX

**Well Location**



**Well Information**

Total Depth	32.5 feet bgs
Screen Material	PVC
Screen Slot	0.010 slot
Screen Interval	17-32 feet bgs
Relative Location	Downgradient of PRB-2

**Aquifer Conditions & Field Parameters**

Date	Elapsed Days	pH (SU)	conductivity (uS/cm)	TOC (mg/L)	temperature (deg C)	ORP (mV)	DO (mg/L)	Total Alkalinity (mg/L)	Sulfate (mg/L)
5/9/2012	-158.5	7.31	3512	3.23	22.02	72.6	0.4	416	#N/A
6/6/2012	-130.6	6.13	3771	3.64	23.18	327.3	8.28	389	1140
10/19/2012	4.4	7.01	3443	2.43	22.77	82.1	0.13	396	1010
11/15/2012	31.5	7.38	3704	2.65	22.52	108.2	0.14	386	1020
12/5/2012	51.3	7.24	3865	4.26	21.61	112.2	0.3	375	1220
2/5/2013	113.5	7.30	3926	2.68	21.15	-0.5	0.18	397	1170
7/10/2013	268.4	7.24	4169	#N/A	24.14	-73.2	0.46	409	#N/A
9/17/2013	337.5	7.31	3918	2.88	23.8	125.5	0.23	420	1050
12/11/2013	422.6	7.41	3390	3.14	20.21	-8.1	0.49	425	724
6/20/2014	613.4	7.33	3930	#N/A	23.8	97.2	0.29	370	1100
2/11/2015	849.4	7.47	3769	#N/A	21.2	257.8	0.12	423	1150

**Contaminants of Concern**

Date	Elapsed Days	Antimony		Arsenic		Cadmium		Iron	
		Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)
5/9/2012	-159	0.02	0.02	0.67	0.70	0.0004	0.0004	0.05	0.05
6/6/2012	-131	0.02	0.01	0.72	0.72	0.0004	0.0004	0.05	0.05
10/19/2012	4	0.01	0.01	0.76	0.76	0.0004	0.0004	0.05	0.05
11/15/2012	31	0.02	0.02	0.71	0.71	0.0004	0.0004	0.05	0.05
12/5/2012	51	0.01	0.01	0.70	0.68	0.0004	0.0004	0.05	0.05
2/5/2013	113	0.02	0.02	0.74	0.71	0.0004	0.0004	0.05	0.05
7/10/2013	268	0.02	0.02	0.80	0.79	0.0013	0.0011	0.05	0.05
9/17/2013	337	0.02	0.02	0.68	0.72	0.0011	0.0013	0.20	0.20
12/11/2013	423	0.01	0.00	0.77	0.38	0.0043	0.0021	0.51	0.25
6/20/2014	613	0.02	#N/A	0.79	#N/A	0.0018	#N/A	0.04	#N/A
2/11/2015	849	0.02	0.02	0.68	0.68	0.0003	0.0003	0.02	0.02

**Contaminants of Concern**

Date	Elapsed Days	Selenium		Thallium		Zinc	
		Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)
5/9/2012	-159	0.1410	0.1510	0.0091	0.0085	0.0018	0.0018
6/6/2012	-131	0.1640	0.1640	0.0088	0.0079	0.0018	0.0042
10/19/2012	4	0.1280	0.1270	0.0096	0.0093	0.0018	0.0018
11/15/2012	31	0.1270	0.1230	0.0086	0.0087	0.0018	0.0018
12/5/2012	51	0.1270	0.1190	0.0089	0.0092	0.0018	0.0018
2/5/2013	113	0.1310	0.1280	0.0086	0.0087	0.0099	0.0018
7/10/2013	268	0.1420	0.1250	0.0094	0.0091	0.0051	0.0018
9/17/2013	337	0.1130	0.1170	0.0094	0.0099	0.0073	0.0018
12/11/2013	423	0.2600	0.1170	0.0358	0.0196	0.0178	0.0089
6/20/2014	613	0.1420	#N/A	0.0115	#N/A	0.0072	#N/A
2/11/2015	849	0.1170	0.1160	0.0116	0.0118	0.0043	0.0020



**Downgradient of PRB-2**  
**EP-154**

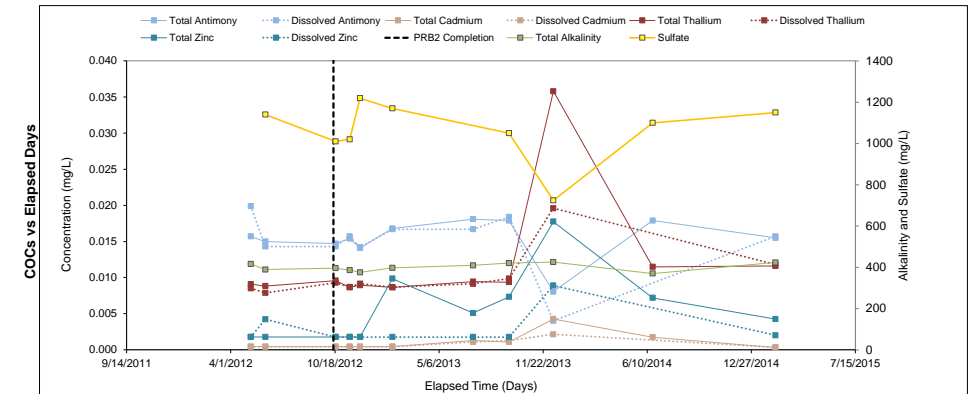
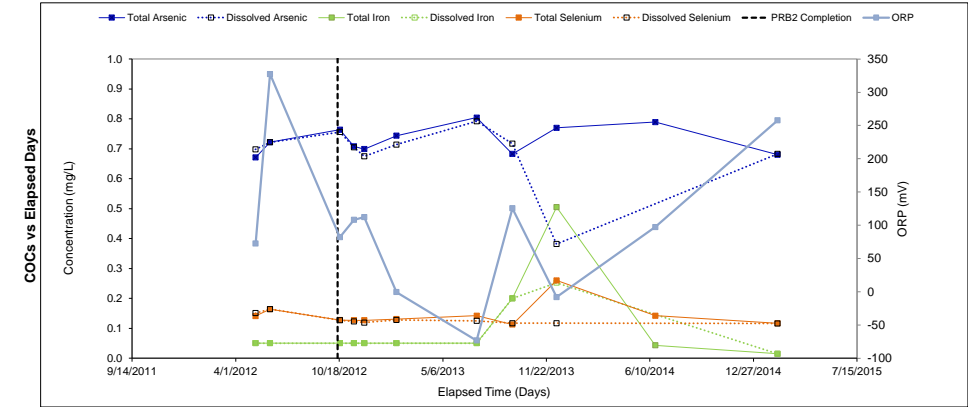
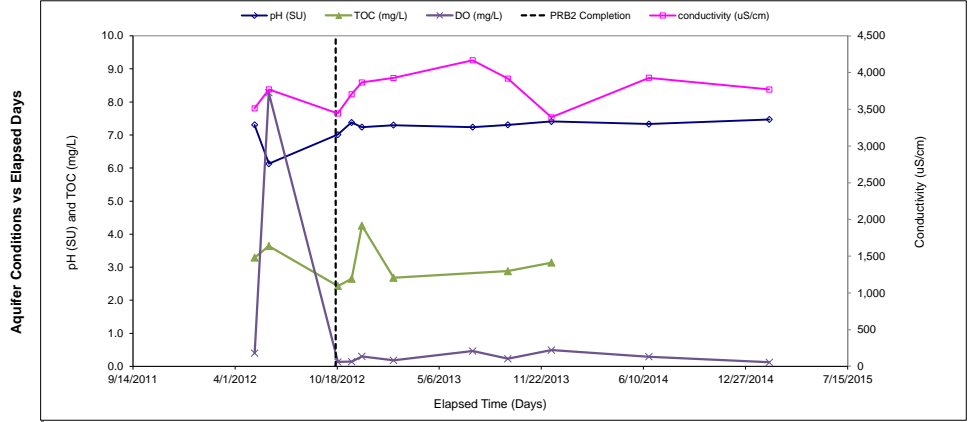
**ASARCO Former Smelter**  
El Paso, TX

**Well Location**



**Well Information**

Total Depth	32.5 feet bgs
Screen Material	PVC
Screen Slot	0.010 slot
Screen Interval	17-32 feet bgs
Relative Location	Downgradient of PRB-2



**Downgradient of PRB-2**

ASARCO Former Smelter

PRB-2 Installation Date 10/15/2012

EP-155

El Paso, TX

Cells in blue indicate baseline conditions.

**Well Location**



**Well Information**

Total Depth	31 feet bgs
Screen Material	PVC
Screen Slot	0.010 slot
Screen Interval	14.3-29.3 feet bgs
Relative Location	Downgradient of PRB-2

**Aquifer Conditions & Field Parameters**

Date	Elapsed Days	pH (SU)	conductivity (uS/cm)	TOC (mg/L)	temperature (deg C)	ORP (mV)	DO (mg/L)	Total Alkalinity (mg/L)	Sulfate (mg/L)
5/9/2012	-158.5	7.33	3347	3.44	21.52	85.2	0.33	389	#N/A
6/6/2012	-131	6.22	3798	3.4	23.61	353.4	7.96	390	1130
10/19/2012	4	7.04	3545	2.27	24.44	44.3	0.13	374	1220
12/5/2012	51	7.41	3621	2.57	23.65	6.2	0.16	309	1130
2/6/2013	114	7.41	3671	2.54	22.74	-3.9	0.14	329	1160
7/10/2013	268	7.35	3919	#N/A	24.63	-1	0.6	350	#N/A
9/18/2013	338	7.46	3705	2.37	23.9	21.2	0.12	358	949
3/14/2014	515	7.21	3148	#N/A	20.7	-19.6	0.1	416	976
6/20/2014	613	7.33	3950	#N/A	23.5	94.1	0.18	390	1110
2/11/2015	849.6	7.48	3803	#N/A	21.4	250.5	0.11	336	1160

**Contaminants of Concern**

Date	Elapsed Days	Antimony		Arsenic		Cadmium		Iron	
		Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)
5/9/2012	-159	0.02	0.03	0.89	0.95	0.0034	0.0038	0.05	0.05
6/6/2012	-131	0.02	0.02	0.97	0.98	0.0042	0.0045	0.05	0.27
10/19/2012	4	0.02	0.02	0.92	0.98	0.0039	0.0037	0.05	0.05
12/5/2012	51	0.02	0.02	0.74	0.77	0.0033	0.0033	0.05	0.05
2/6/2013	114	0.02	0.02	0.94	0.89	0.0035	0.0032	0.05	0.05
7/10/2013	268	0.02	0.02	0.92	0.92	0.0046	0.0043	0.05	0.05
9/18/2013	338	0.02	0.02	0.79	0.81	0.0043	0.0043	0.20	0.20
3/14/2014	515	0.02	0.02	0.87	0.92	0.0032	0.0019	0.05	0.05
6/20/2014	613	0.02	#N/A	0.94	#N/A	0.0018	#N/A	0.04	#N/A
2/11/2015	850	0.02	0.02	0.81	0.83	0.0021	0.0020	0.02	0.02

**Contaminants of Concern**

Date	Elapsed Days	Selenium		Thallium		Zinc	
		Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)
5/9/2012	-159	0.1280	0.1500	0.0069	0.0069	0.0233	0.0253
6/6/2012	-131	0.1530	0.1580	0.0075	0.0073	0.0320	0.1710
10/19/2012	4	0.1150	0.1210	0.0085	0.0081	0.0018	0.0018
12/5/2012	51	0.0700	0.0704	0.0064	0.0064	0.0345	0.0220
2/6/2013	114	0.0809	0.0811	0.0063	0.0061	0.0222	0.0206
7/10/2013	268	0.1130	0.1000	0.0059	0.0050	0.0252	0.0018
9/18/2013	338	0.0940	0.0937	0.0055	0.0057	0.0188	0.0150
3/14/2014	515	0.1880	0.1930	0.0090	0.0105	0.0124	0.0120
6/20/2014	613	0.1650	#N/A	0.0114	#N/A	0.0204	#N/A
2/11/2015	850	0.1330	0.1390	0.0116	0.0121	0.0202	0.0215

**Downgradient of PRB-2**  
**EP-155**

**ASARCO Former Smelter**  
El Paso, TX

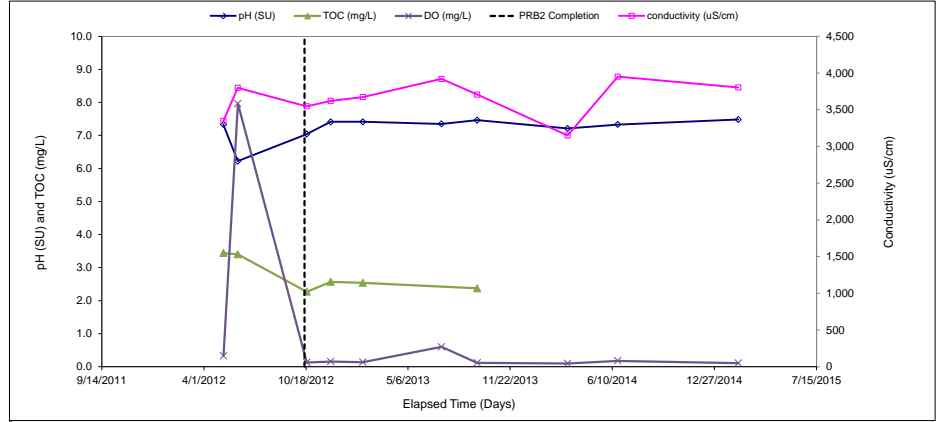
**Well Location**



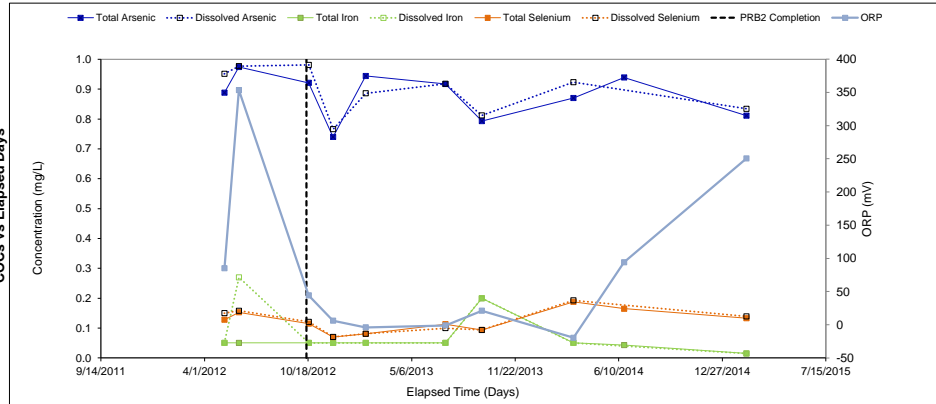
**Well Information**

Total Depth	31 feet bgs
Screen Material	PVC
Screen Slot	0.010 slot
Screen Interval	14.3-29.3 feet bgs
Relative Location	Downgradient of PRB-2

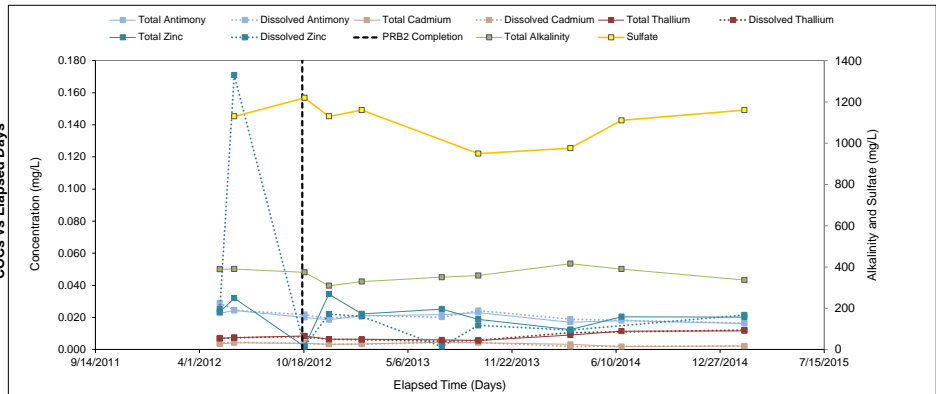
**Aquifer Conditions vs Elapsed Days**



**COCs vs Elapsed Days**



**COCs vs Elapsed Days**



**Downgradient of PRB-2**

ASARCO Former Smelter

PRB-2 Installation Date 10/15/2012

EP-156

El Paso, TX



Well Information	
Total Depth	22 feet bgs
Screen Material	PVC
Screen Slot	0.010 slot
Screen Interval	7.9-21.93 feet bgs
Relative Location	Downgradient of PRB-2

Aquifer Conditions & Field Parameters

Date	Elapsed Days	pH (SU)	conductivity (uS/cm)	TOC (mg/L)	temperature (deg C)	ORP (mV)	DO (mg/L)	Total Alkalinity (mg/L)	Sulfate (mg/L)
12/5/2012	51.5	7.39	3607	#N/A	24.82	21.5	0.28	#N/A	#N/A
7/18/2013	276.6	7.23	3956	#N/A	23.52	-40	0.3	352	#N/A
9/13/2013	333.5	7.20	3233	2.59	24.4	281	0.73	299	1010
12/12/2013	423.4	7.12	2584	1.8	22.04	45.3	0.48	260	792
6/25/2014	618.5	7.22	3460	#N/A	24.4	159.4	0.25	313	1050
2/11/2015	849.6	7.39	3079	#N/A	22.7	245.7	0.32	298	1040

Contaminants of Concern

Date	Elapsed Days	Antimony		Arsenic		Cadmium		Iron	
		Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)
12/5/2012	51	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
7/18/2013	277	0.00	0.00	0.01	0.01	0.0018	0.0018	0.30	0.12
9/13/2013	334	0.00	0.00	0.16	0.15	0.0451	0.0393	0.20	0.20
12/12/2013	423	0.00	0.00	0.22	0.20	0.0480	0.0437	0.05	0.05
6/25/2014	618	0.00	#N/A	0.24	#N/A	0.0477	#N/A	0.04	#N/A
2/11/2015	850	0.00	0.00	0.21	0.21	0.0416	0.0420	0.17	0.02

Contaminants of Concern

Date	Elapsed Days	Selenium		Thallium		Zinc	
		Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)
12/5/2012	51	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
7/18/2013	277	0.0514	0.0504	0.0003	0.0003	0.1470	0.1290
9/13/2013	334	0.2470	0.2370	0.0040	0.0034	0.8430	0.7740
12/12/2013	423	0.2100	0.2030	0.0003	0.0037	0.9010	0.8910
6/25/2014	618	0.2260	#N/A	0.0039	#N/A	1.0400	#N/A
2/11/2015	850	0.2090	0.2100	0.0035	0.0035	0.9690	0.9490

## Downgradient of PRB-2 EP-156

ASARCO Former Smelter  
El Paso, TX

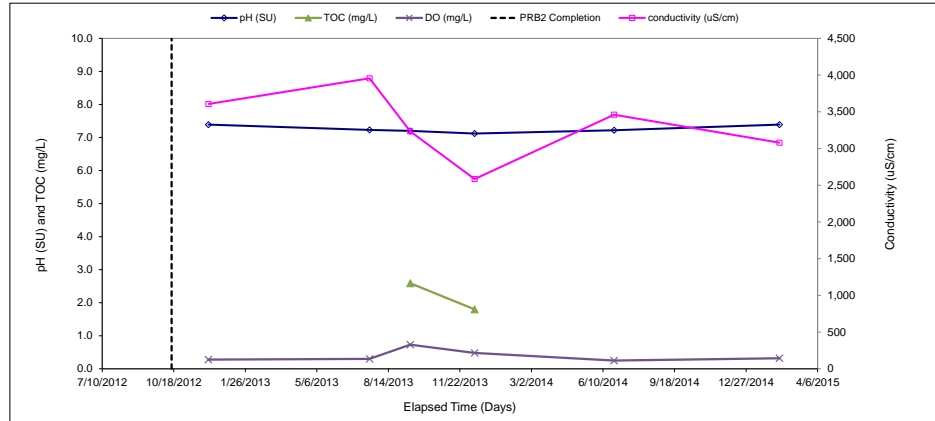
### Well Location



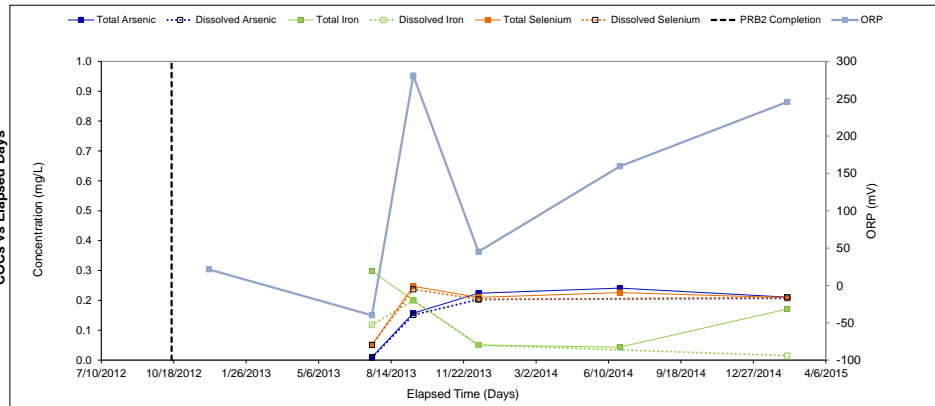
### Well Information

Total Depth	22 feet bgs
Screen Material	PVC
Screen Slot	0.010 slot
Screen Interval	7.9-21.93 feet bgs
Relative Location	Downgradient of PRB-2

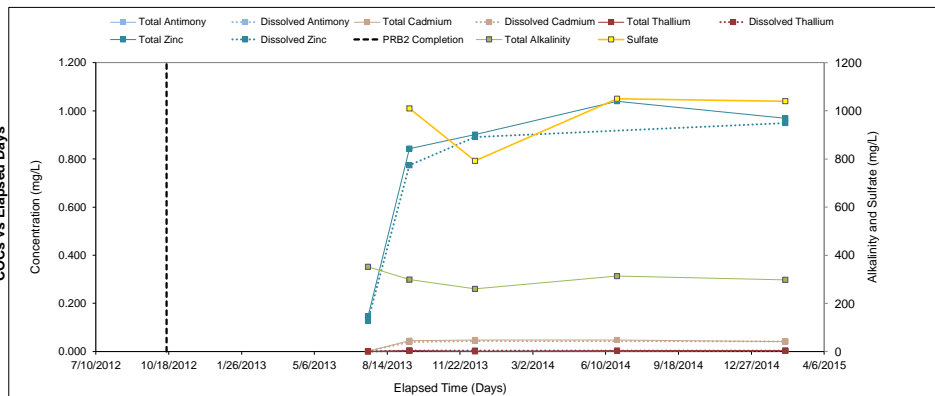
### Aquifer Conditions vs Elapsed Days



### COCs vs Elapsed Days



### COCs vs Elapsed Days



**Downgradient of PRB-1**

ASARCO Former Smelter

PRB-1 Installation Date 10/5/2012

EP-157

El Paso, TX

**Well Location**



**Well Information**

Total Depth	39 feet bgs
Screen Material	PVC
Screen Slot	0.010 slot
Screen Interval	21-31 feet bgs
Relative Location	Downgradient of PRB-1

Aquifer Conditions & Field Parameters

Date	Elapsed Days	pH (SU)	conductivity (uS/cm)	TOC (mg/L)	temperature (deg C)	ORP (mV)	DO (mg/L)	Total Alkalinity (mg/L)	Sulfate (mg/L)
7/15/2013	283.4	7.31	3959	#N/A	22.83	-6.4	0.86	385	#N/A
9/9/2013	339.4	7.43	3542	2.26	24.53	54.4	0.41	393	1120
12/10/2013	431.6	7.22	3325	2.26	21.07	-59.2	0.81	396	820
3/1/2014	522.6	7.23	2987	#N/A	23.2	-111.1	0.18	388	993
6/19/2014	622.4	7.40	3580	#N/A	23.6	184.4	0.17	370	983
10/2/2014	727.6	7.53	2835	#N/A	25.3	107.4	0.09	402	935
2/4/2015	852.2	7.60	3487	#N/A	22.1	42.9	0.14	409	1010

Contaminants of Concern

Date	Elapsed Days	Antimony		Arsenic		Cadmium		Iron	
		Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)
7/15/2013	283	0.02	0.02	1.17	1.08	0.0011	0.0010	0.14	0.05
9/9/2013	339	0.02	0.02	1.17	1.18	0.0010	0.0009	0.20	0.20
12/10/2013	432	0.02	0.02	1.09	1.04	0.0004	0.0004	0.05	0.05
3/1/2014	523	0.02	0.03	1.18	1.20	0.0015	0.0017	0.05	0.05
6/19/2014	622	0.03	0.03	1.37	1.37	0.0018	0.0018	0.04	0.04
10/2/2014	728	0.03	0.03	1.20	1.20	0.0002	0.0002	0.02	0.02
2/4/2015	852	0.03	0.03	1.04	1.03	0.0002	0.0002	0.25	0.02

Contaminants of Concern

Date	Elapsed Days	Selenium		Thallium		Zinc	
		Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)
7/15/2013	283	0.1490	0.1350	0.0019	0.0023	0.0018	0.0018
9/9/2013	339	0.1430	0.1440	0.0023	0.0021	0.0018	0.0018
12/10/2013	432	0.2080	0.2020	0.0003	0.0003	0.0018	0.0018
3/1/2014	523	0.2020	0.2130	0.0027	0.0024	0.0018	0.0018
6/19/2014	622	0.1780	0.1810	0.0039	0.0039	0.0011	0.0011
10/2/2014	728	0.1110	0.1110	0.0026	0.0027	0.0010	0.0010
2/4/2015	852	0.2020	0.2000	0.0020	0.0020	0.0063	0.0010

**Downgradient of PRB-1  
EP-157**

**ASARCO Former Smelter  
El Paso, TX**

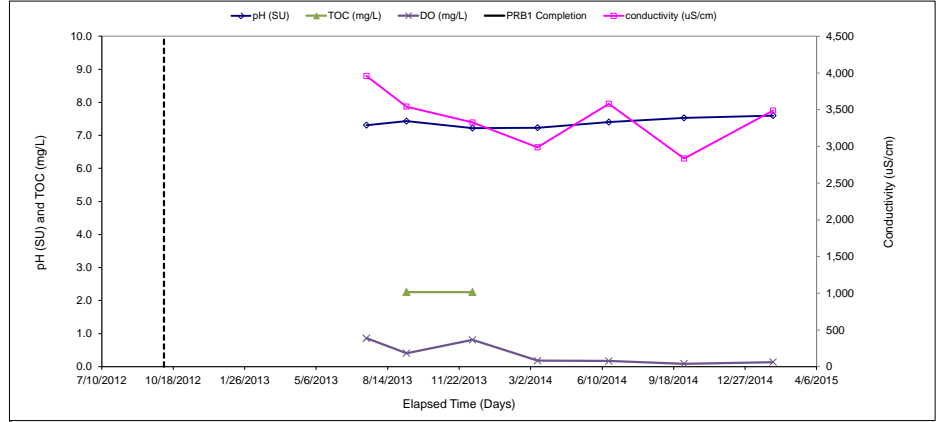
**Well Location**



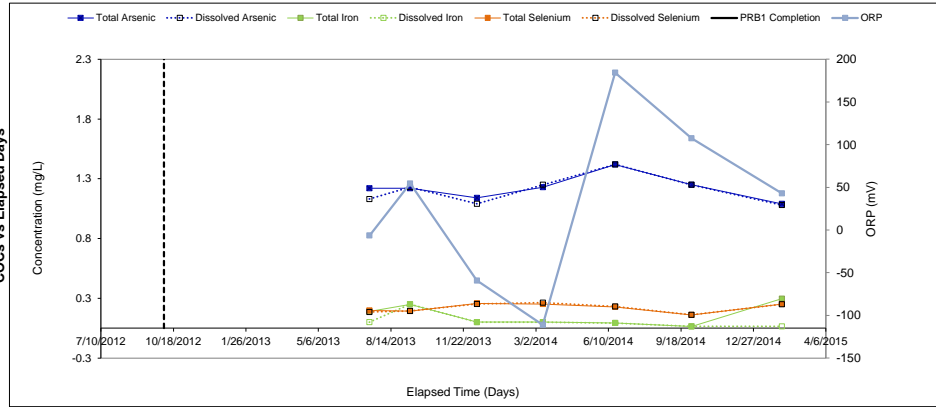
**Well Information**

Total Depth	39 feet bgs
Screen Material	PVC
Screen Slot	0.010 slot
Screen Interval	21-31 feet bgs
Relative Location	Downgradient of PRB-1

**Aquifer Conditions vs Elapsed Days**



**COCs vs Elapsed Days**



**COCs vs Elapsed Days**

