BANDERA ROAD GROUND WATER PLUME/ SUPERFUND SITE

JULY 19, 2012

PRESENTATION OUTLINE

Municipal Well and Monitor Well Sampling Results From May 2012

Recent EPA Sampling Activities

HAPSITE Sampling

PRP Supplemental Remedial Investigation Sampling Activities

Municipal Well Sampling

 Leon Valley municipal water wells were sampled on May 7, 2012. No volatile organic compounds were detected.



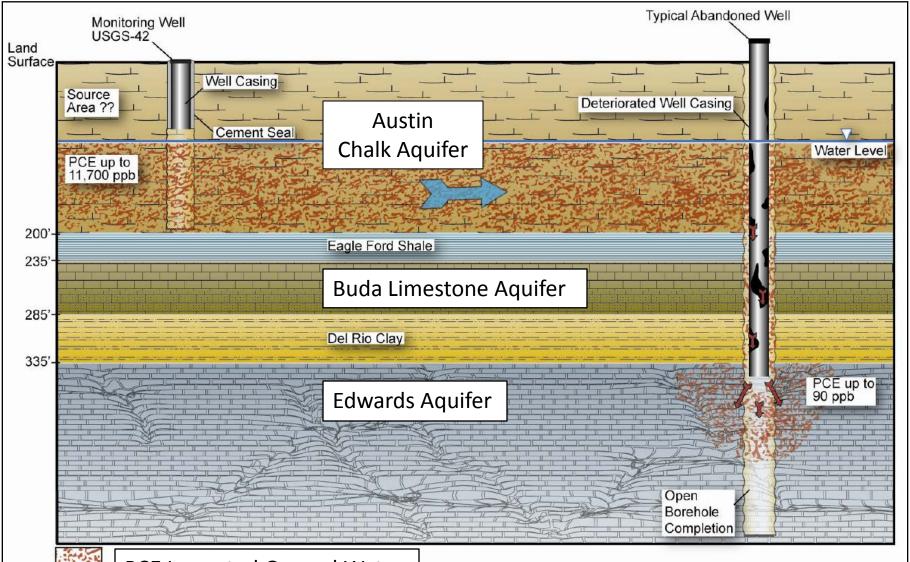
EPA MAY 7 – 11, 2012 SAMPLING EVENT

- Ground water samples collected from thirteen
 (13) monitoring wells and two (2) municipal
 public water supply wells
- ➢ Four (4) indoor air samples and one
- background air sample
- ➤Two (2) sub-slab vapor samples from the Pilgrim Cleaners facility
- Sixteen (16) soil gas samples (8 Summa)
- Canister Samples)
- Eight (8) soil samples
- >Thirty (30) HAPSITE sampling locations

SAMPLE LOCATIONS (44) - MAY 7-10, 2012

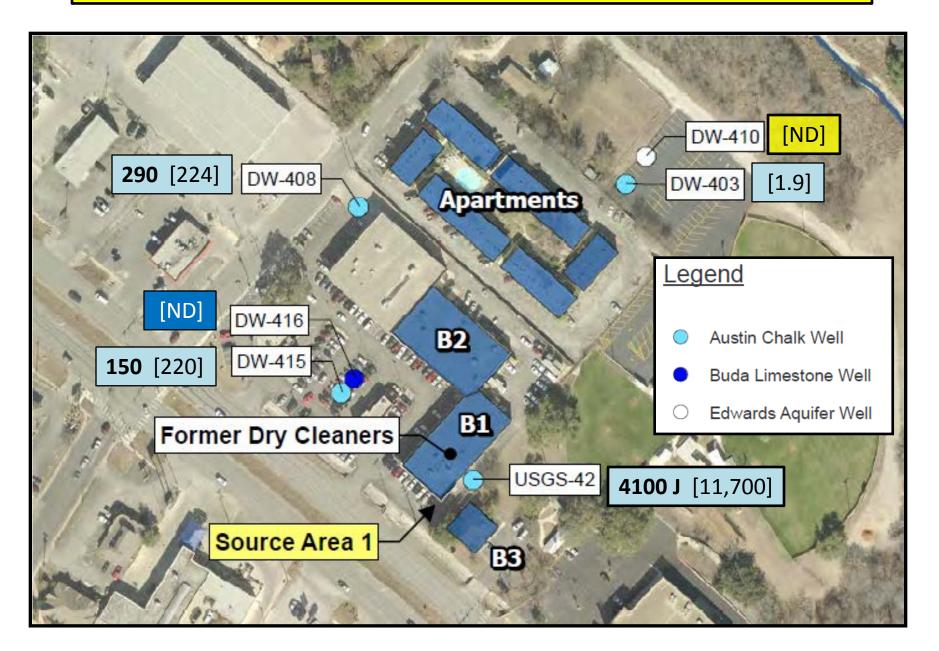
WATER WELL SAMPLES	SOIL	SOIL GAS	INDOOR AIR
USGS-18 – Pubic Water Supply	VI-213-1-2 ft bgs	VI-214-SGA (Summa)	VI-102-CIA (Cash Advance)
USGS-50 – Public Water Supply	VI-214-1-2 ft bgs	VI-218-SGA	VI-118-CIA (Veterinary Clinic)
USGS-42 (Austin Chalk)	VI-217-1-2 ft bgs	VI-219-SGA (Summa)	VI-228-CIA (Apartments)
DW-404 (Austin Chalk)	VI-218-1-2 ft bgs	VI-217-SGA	VI-BKG-04 (Apartments)
DW-407 (Austin Chalk)	VI-219-1-2 ft bgs	VI-213-SGA	VI-229-Pilgrims
DW-408 (Austin Chalk)	VI-221	VI-215-SGA (Summa)	
DW-413 (Buda)	VI-222	VI-216-SGA (Summa)	
DW-414 (Austin Chalk)	VI-226	VI-220-SGA	
DW-415 (Austin Chalk)		VI-206-SGA (Summa)	
Terracon-1 (Shallow 35')		VI-221-SGA (Summa)	
Terracon-2 (Shallow 35')		VI-222-SGA (Summa)	
MW2-6535 (Austin Chalk)		VI-223-SGA	
MW-3-6200 (Austin Chalk)		VI-224-SGA (Summa)	
MW4-6535 (Shallow 35')	VI-225-SGA		
MW5-7007 (Austin Chalk)		VI-226-SGA	
		VI-227-SGA	

BANDERA ROAD – GEOLOGIC CROSS SECTION

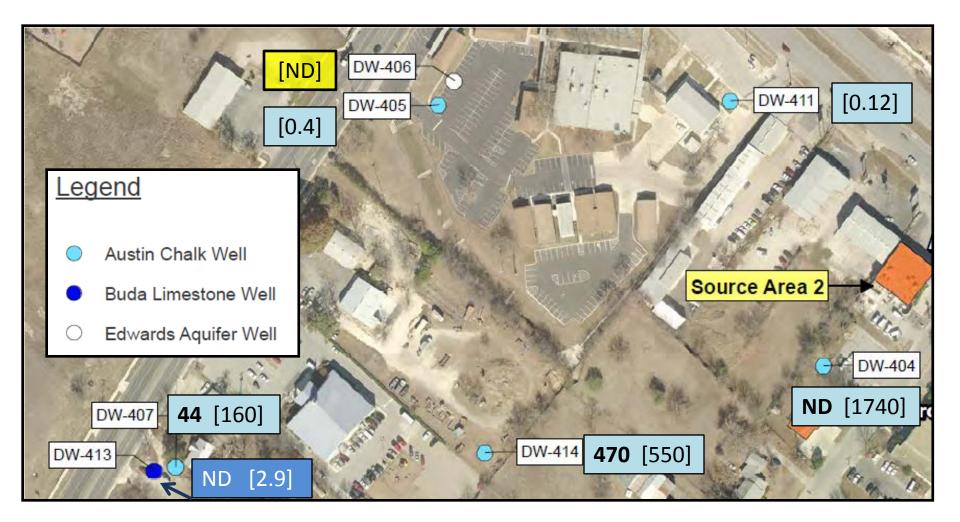


PCE Impacted Ground Water

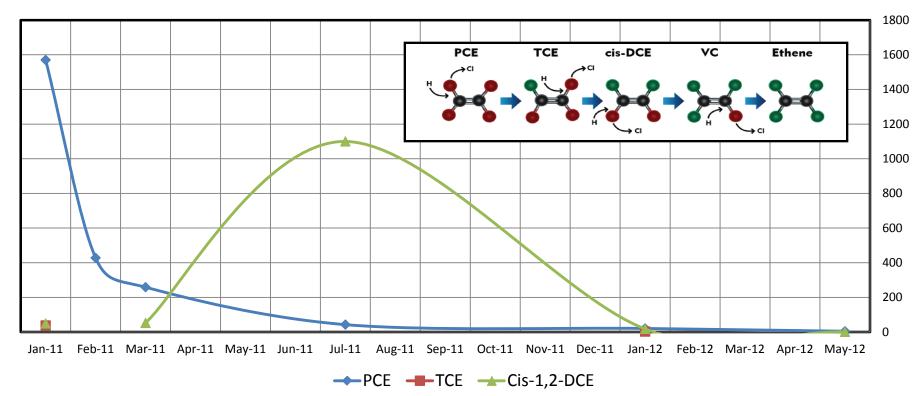
PCE Detections (µg/L) – May 2012 and Historical High [#]



PCE Detections (µg/L) – May 2012 and Historical High [#]



DW-404 - Insitu Bioremediation Pilot Study



Target	January	February	March	July	January	May
Compound	2011	2011	2011	2011	2012	2012
	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
PCE	1,570	428	259	43	21	5 U
TCE	37.9	U	U	U	2.7 J	5 U
Cis-1,2-DCE	49.4	U	52.5 J	1100	18	5 U

32-foot Pilgrim Cleaners monitoring well (TB-1).
Bailer used to collect
sample – approximately
1.0 foot of water present in well.

Contaminant	Concentration January 11, 2012 (µg/L)	Concentration May 8, 2012 (µg/L)
PCE	130	94
TCE	2.6 J	2.0
Cis-1,2-DCE	2.4 J	2.2

Pilgrim

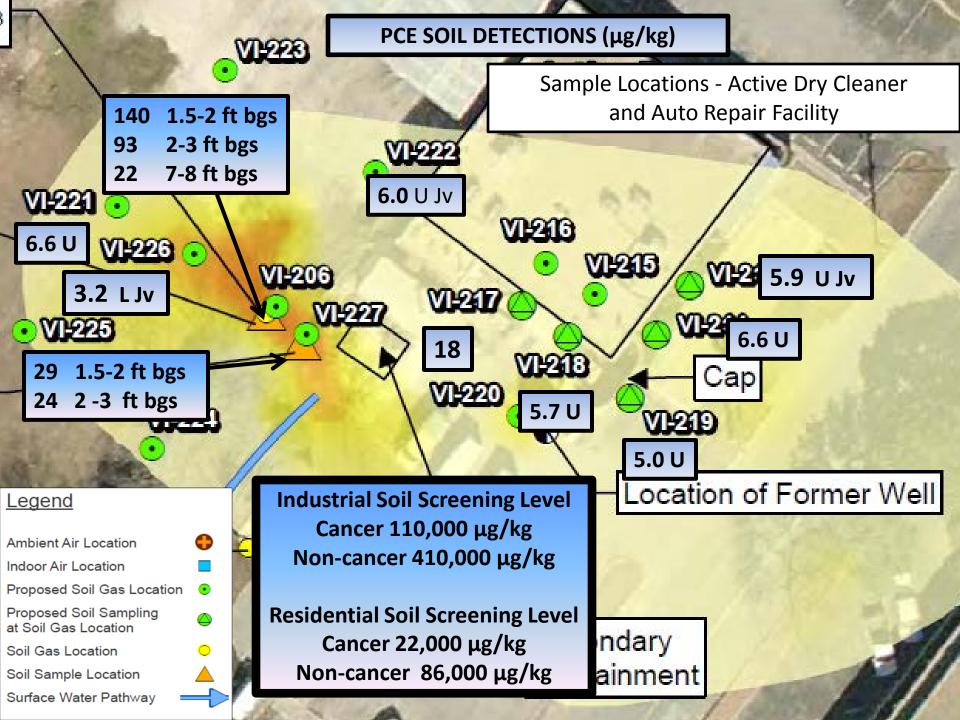
Cleaners

TB-2

Contaminant (µg/L)	EPA Jan. 2012	EPA May 7, 2012
PCE	640	730
TCE	54	55
Cis-1,2-DCE	130	180
Naphthalene	NS	NS
Toluene	3.3 J	ND at 0.5
Total Xylenes	ND at 5	ND at 0.5

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Low-flow sampling used to sample Pilgrim Cleaners shallow well TB-2 installed near former Luckey water supply well. Approximately 12 feet of water present in 31-foot well.



BANDERA ROAD SAMPLING LOCATIONS HAPSITE ANALYSIS





Soil Cuttings in Bag (2) Soil Gas Samples (10) Air Samples (10)

Water Headspace Samples (7)



HAPSITE ER UNIT SET UP AT LEON VALLEY FIRE STATION

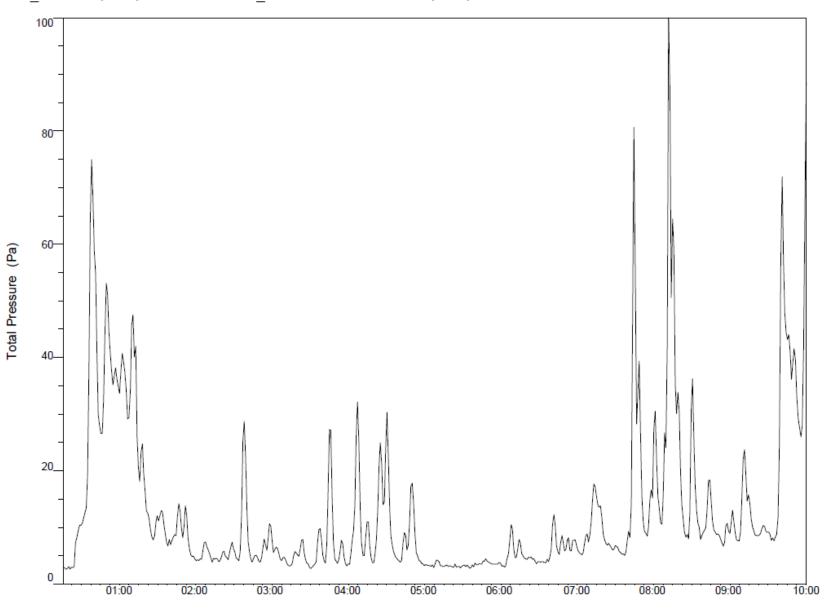
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HAPSITE SAMPLE LOCATIONS (29)

Water Headspace	Soil Cuttings in Bag	SOIL GAS	AIR
MW2-6535	VI-213-1-2' bgs	VI-206-SGA	Pilgrim Cleaners
MW4-6535	VI-214-1-2' bgs	VI-215-SGA	Pilgrim Cleaners – East wall port
MW5-7007		VI-216-SGA	Pilgrim Cleaners – Back door vent
DW-404		VI-218-SGA	Savings Square Mitigation - South
DW-408		VI-221-SGA	Savings Square Mitigation - North
Terracon-2		VI-222-SGA	VI-BKG-04-CIA – Apartments SE Corner
USGS-42		VI-223-SGA	VI-102-CIA – Cash Advance
		VI-224-SGA	VI-118-CIA – Veterinary Clinic
		VI-225-SGA	VI-228 CIA - Apartments
		VI-226-SGA	VI-229-CIA – Pilgrims

ER IQ Data

TIC_Max = 1,482,988 : TIC/TIC_Max = 88% : TIC = 1,313,237 : Scan Set #1 : Scan # 557

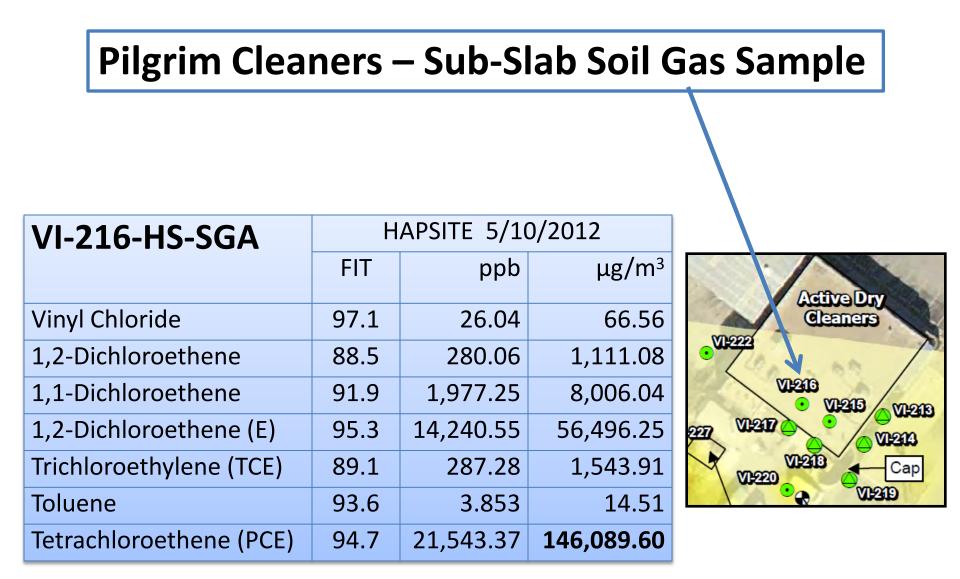


HAPSITE DATA REPORT

#28 Ethylbenzene

RT=	04:16.2	Fit=98.8	18.55
#29	m-and p-Xylene		ppb
RT=	04:16.2	Fit=96.3	17.79
#30	Styrene		ppb
RT=	04:50.8	Fit=71.4	5.764
#31	o-Xylene		ppb
RT=	04:50.8	Fit=63.5	29.79
#32	Benzene, 1-ethyl-4-methyl-		ppb
RT=	06:07.4	Fit=99.1	1.283 ppb
#33	Benzene, 1,3,5- trimethyl-		30.63
RT= #34	06:14.9 Benzene, 1,2,4- trimethyl-	Fit=98.7	ppb
RT=	06:42.1	Fit=98.7	3.724 ppb

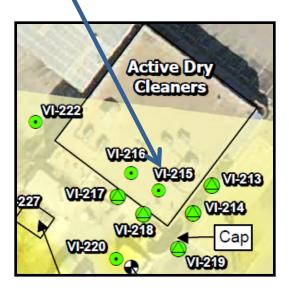
Fit is based on a scale of 100. ≫70: Good ≫80: Better ≫90: Best



HAPSITE_ER_Air_Tri-Bed_PPB_Quant_38.hps

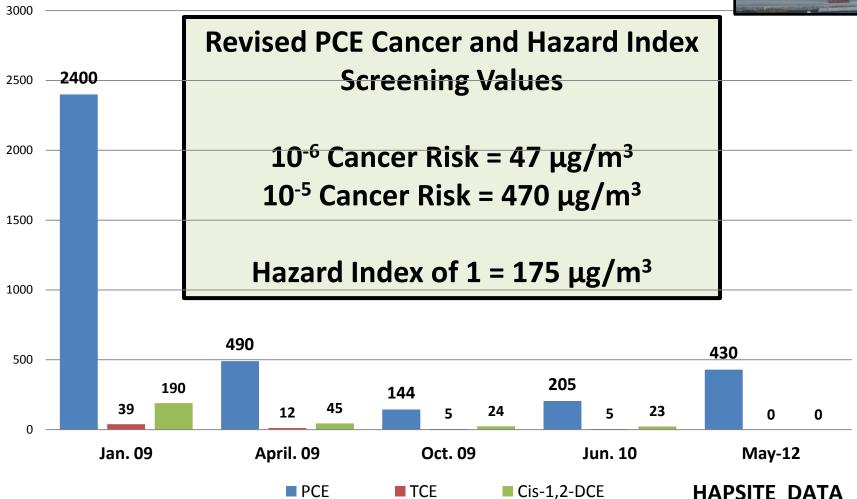
Pilgrim Cleaners – Sub-Slab Soil Gas Sample

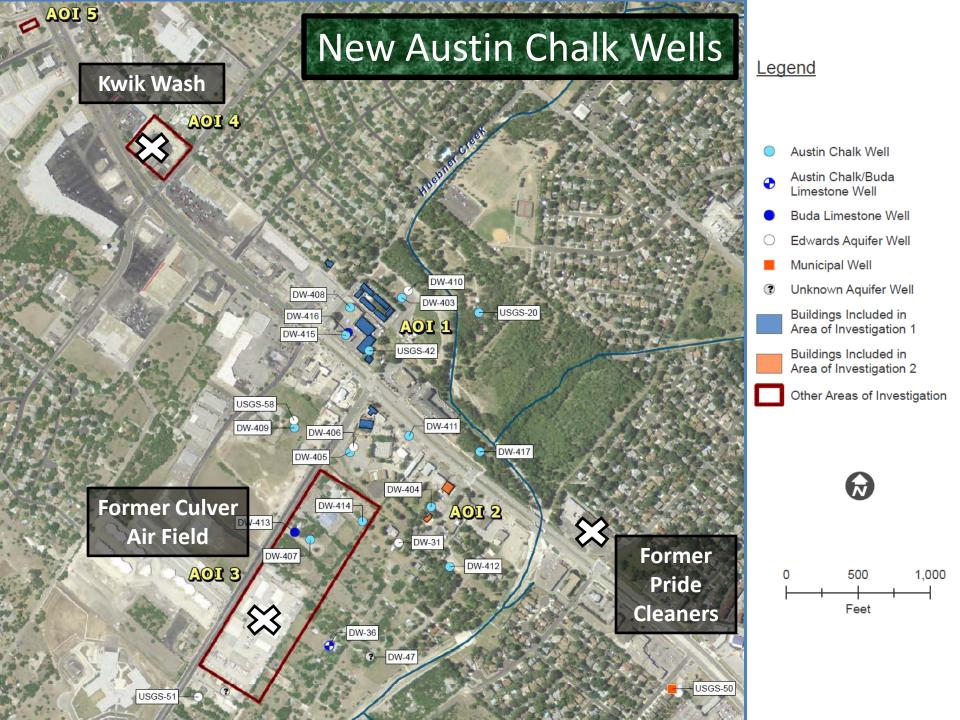
VI-215-HS-SGA	HAPSITE 5/10/2012			
	FIT	ppb	μg/m³	
Trichloroethylene (TCE)	94.5	13.44	72.23	
Toluene	98.1	42.91	161.64	
Tetrachloroethene (PCE)	96.5	3,923.10	26,603.27	
Ethylbenzene	93.7	3.732	16.21	
m-and p-Xylene	94.9	1.224	5.32	
O-Xylene	68.2	17.93	77.88	
1,3,5-trimethylbenzene	88.4	26.40	129.79	

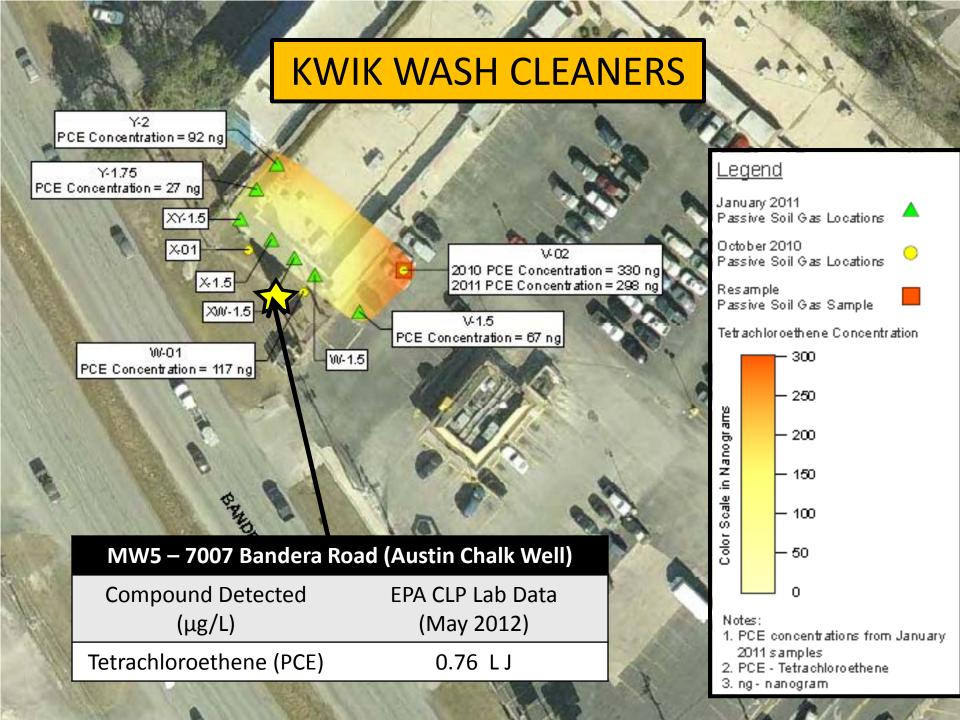


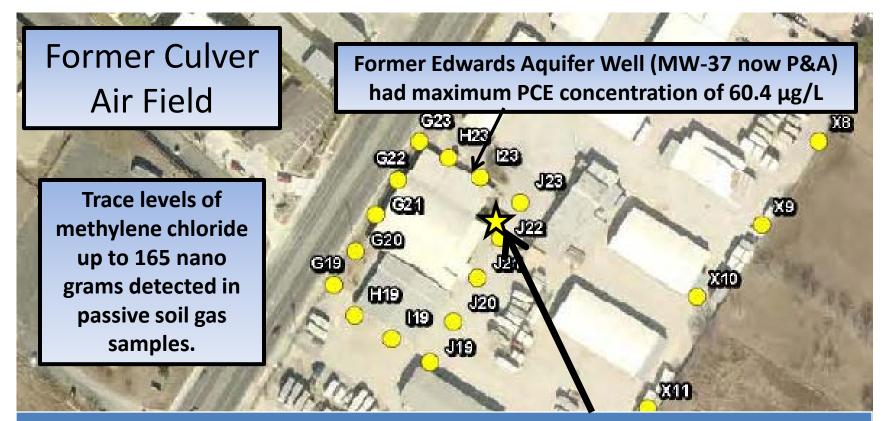
HAPSITE_ER_Air_Tri-Bed_PPB_Quant_37.hps











MW3 – 6200 Grissom Road (Austin Chalk Well)

Compound Detected (µg/L)	March 1, 2012 (EPA)	March 1, 2012 (PRP Preliminary Data)	May 7, 2012 (EPA)
Cis-1,2-DCE	0.26 LJ	U	U
Trichloroethene (TCE)	0.17 LJ	U	0.23 LJ
Tetrachloroethene (PCE)	2.0	2.26 B	6.3
Carbon tetrachloride	U	U	0.10 LJ

No prior EPA investigation activities occurred at this location

Former Pride Cleaners and Laundry – 6535 Bandera Road

		CONTRACTOR OF A				
Compound Detected		MW2 (Austin	MW2 (Austin Chalk Well)		MW4 (Alluvium/Shallow Well)	
100	(µg/L)	March 1, 2012 PRP Preliminary Data	May 7, 2012 EPA	March 1, 2012 PRP Preliminary Data	May 7, 2012 EPA	
2	Tetrachloroethene (PCE)	2.26 B	5.3	0.586 JB	1.3 LJ	
	Cis-1,2-Dichloroethene	U	1.3 LJ	U	U	
5	Carbon disulfide	U	U	0.367 J	U	
7	Benzene	U	U	0.0976 J	U	
	Chloroform	U	U	0.3 J	U	
	Methylcyclohexane	U	U	1.74	U	

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Former Pride Cleaners Location

Leon Valley Public Water Supply Grasshill Well (No VOCs Detected in May 2012)

0.28 Mile

0AD

3

Sampling Date	Leon Valley Municipal Public Water Supply Wells		
	7520 Huebner Road –	6210 Grass Hill - USGS-5	
	USGS-18	$(\mu g/L)$	
	(µg/L)	Original	Duplicate
		Sample	Sample
06/10/2009	0.18 J	0.14 J	0.19 J
06/07/2010	0.10 LJ	0.18 LJ	0.19 LJ
07/12/2010	0.17 LJ	0.24 LJ	0.24 LJ
04/13/2011	U	0.21 LJ	0.20 LJ
10/17/2011	U	U	0.23 LJ
05/07/2012	U	U	U

Notes:

- J Estimated value
- L Reported concentration below the Contract Required Quantitation Limit
- U Compound was not detected at or above the sample detection limit (0.5 µg/L)

EPA/TCEQ Points of Contact

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