

Autumnwood Investigation The Community's Perspective

Concerned Neighbors of Wildomar
Center for Community Action and Environmental Justice (CCA EJ)

September 19, 2014

Penny J. Newman
Floyd Villanueva
Xonia Villanueva



During a tour of the homes
on March 28, 2013, Ms.

Raphael admitted that

*“something is going on here.
I can feel it in my chest.” She
went on to say that “we
obviously aren’t conducting
the right tests—we’re
missing something.”*

Legend

- o **EQMD Testing**
- o **Independent Testing**
- o **AmI Adini**
- o **DTSC**
- o **DTSC Groundwater**
- o **HOA Testing**

Above Health Threshold
 @ All chemicals in powdery substance are high and above that to be expected in region with Uranium levels 77% higher than western US levels



Outside Air

- # Carbon Tetrachloride
- # Benzene
- # Naphthalene
- # Vinyl Chloride
- 1,2-dichloroethane
- Ethane
- Propane
- Chloromethane
- Bromomethane
- Ethanol
- Methylene chloride
- 1,1-dichloroethane
- 2-butanone MEK
- Chloroform
- Bromoform
- Ethyl benzene
- 1,2-dibromomethane
- Toluene
- Chlorobenzene
- Tetrachloroethylene
- Vinyl acetate
- O-Xylene
- 2-propanol
- # Vinyl chloride
- # Carbon Tetrachloride
- # Benzene
- # 1,2-Dichloroethane
- # Tetrachloroethylene
- # Ethylbenzene
- # Formaldehyde
- Chlorobenzene
- Chloroform
- Chlorobenzene
- Chloromethane
- Trichloroethylene
- Trichlorofluoromethane

White Powdery Substance in yards @

- # Arsenic
- Uranium
- Barium
- Aluminum
- Phosphorus
- Sulfur
- Chromium
- Manganese

Inside Air

- # 1,2-Dichloroethane
- # Benzene
- Chloroform
- # Tetrachloroethylene
- # Ethylbenzene
- # Carbon Tetrachloride
- # 1,2-Dibromomethane
- 1,2-Dichlorobenzene
- 1,2-Dichloropropane
- Bromodichloromethane
- # Vinyl chloride
- # Carbon Tetrachloride
- # Benzene
- # 1,2-Dichloroethane
- # Tetrachloroethylene
- # Ethylbenzene
- # Formaldehyde
- Chloroethane
- 2-Butanone
- Mercury

Sub Slab Testing

- # Benzene
- Toluene
- # Naphthalene
- Styrene
- # Chloroform
- # Benzene
- # Ethylbenzene
- # Tetrachloroethylene
- Formaldehyde
- # Chloroform
- Toluene
- # Methylene Chloride
- 1,2,4-Trichlorobenzene
- 1,2,5-Trichlorobenzene
- MTBE
- m-p-Xylene
- o-Xylene
- # Benzene
- Chloroform
- Tetrachloroethylene
- Ethylbenzene
- Chloromethane
- 1,2-Dichloroethane
- Trichloroethylene
- Trichlorofluoromethane
- Carbon Tetrachloride
- Methylene chloride

Groundwater

- Chloroethane
- Chloroform
- Bromodichloromethane
- Bromomethane
- 2-butanone
- Acetone
- Benzene
- Bromodichloromethane
- Bromomethane
- 2-butanone
- Toluene
- 2,2-dichloropropane
- Methylene chloride
- Vinyl-acetate
- Iodomethane
- Ethanol
- Tert-butyl alcohol
- Acetonitrile
- 1,4-dioxane
- Formaldehyde
- Tetrahydrofuran
- cyclohexane
- Methyl methacrylate
- Acrylonitrile

Park Testing

In the report the Testing Firm commented on finding a "blackish stain at 1.2 feet with a "hydrocarbon odor in ambient air." "The origin of the blackish stain is unknown".

- Bromobenzene
- Bromochloromethane
- Bromodichloromethane
- Bromoform
- Bromomethane
- c-1,2-Dichloroethane
- C-1,3-Dichloropropene
- Vinyl Chloride
- Carbon tetrachloride
- Styrene
- Toluene
- Hexavalent Chromium
- # Arsenic
- Lead
- Dioxin
- Chloroform
- Ethylbenzene
- Benzene
- Tetrachloroethane (PCE)
- Naphthalene
- Trichloroethylene (TCE)
- Methylene chloride
- 1,2-Dibromomethane
- ETBE
- Bis (2-Ethylhexyl) phthalate

and many more industrial and agricultural chemicals!

Outside Soil—Soil Gas

- Formaldehyde
- Chloromethane
- Trichloroethylene
- Benzene
- Chloroform
- Toluene
- Trichlorofluoromethane
- Ethylbenzene
- Tetrachloroethane
- m-p-Xylene
- o-Xylene
- MTBE
- 1,2,4-Trimethylbenzene
- 1,3,5-Trimethylbenzene
- Vinyl Chloride
- Naphthalene
- 1,2-Dibromomethane
- Carbon Tetrachloride
- Chloroethane
- Chloroform
- Chloromethane
- 1,1-dichloroethane
- Isopropanol
- Formaldehyde
- Tetrahydrofuran
- cyclohexane
- Methyl methacrylate
- Acrylonitrile

As a result of that tour, we requested Ms. Raphael to convene a multi agency committee to advise and add their expertise to the discussion in order to conduct a risk assessment investigation to determine the source of the problem.

CCAIEJ had already petitioned ATSDR to investigate the site and suggested California Department of Public Health and Office of Environmental Health Hazard Assessment. Through that process the agencies highlighted some “gaps” in information DTSC offered to conduct testing at Autumnwood.

Wildomar CA



Figure 2 Proposed Sampling Locations

Wildomar Multi Agency Committee

- We were excited to have ATSDR, CDPH, OEHHA join with DTSC to investigate the situation at Wildomar.
- We were impressed to hear that Theo Johnson who writes DTSC protocol and teaches sampling techniques would be involved in developing the testing workplan.

ADVISORY – ACTIVE SOIL GAS INVESTIGATIONS

APPENDIX H REPORTING FORMAT AND PARAMETERS

RECORDKEEPING IN THE MOBILE LABORATORY

The following records concerning calibration standards and QA/QC should be maintained as hard copies in the mobile laboratory:

- a) Date of calibration standard receipt;
- b) Name of calibration supplier;
- c) Calibration lot number;
- d) Date of preparation for intermediate standards (dilution from the stock or concentrated solution from supplier);
- e) Calibration ID number or other identification data;
- f) Name of technician who performed the dilution;
- g) Volume of concentrated solution taken for dilution;
- h) Final volume after dilution;
- i) Calculated concentration after dilution;
- j) The latest and current initial calibration data for each instrument used; and
- k) The currently-used laboratory standard operating procedures.

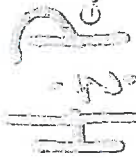
~~REPORTING OF SOIL GAS SAMPLE RESULTS AND QA/QC DATA~~

- 1) Report all sample test results for all compounds in the analyte list and QA/QC data. Compounds may be listed by retention time or in alphabetical order. Report any unidentified or tentatively identified peaks. Submit all data in electronic format and raw data, including the chromatograms for samples and standards, as requested.

Concerns and Questions Regarding DTSC Testing

Protocols

- Deviation from Sampling Plan
 - ✓ Did not test in warmer months as recognized by all parties as the preferred timing.
 - ✓ Even though Director Raphael emphasized the need to test for things we hadn't tested for, DTSC did not test ENTIRE LIST OF EPA Method 8260 & TO-15 which would have been 108+ chemicals.
 - ✓ Created own list of target VOCs for lab analysis: 44 Sub-slab and 43 soil gas



Chain of Custody Record

Mobile Geochemistry Inc.
 2470 Impacka Ct., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159
 1855 Coronado Ave., Signal Hill, CA 90755 • ph 800.834.9888

Date: 11/14/13
 H&P Project # AEE111513-11
 Outside Lab:

Client: AMEL
 address: 500 Portico Dr, Irvine, CA 92617
 Email: isaiah_basile@amel.com
 Collector: J. Taylor
 Client Project # WB01602SP
 Location: Palomares 51 w/Idolman 10A
 Phone: 952-656-6003
 Project Contact: Joe Basile
 Page 1 of 1
 Turn around time: STND

Geotrucker EDD: Yes No
 Global ID: _____
 Excel EDD: Yes No
 Special Instructions: 21 pint VOC list attached (VOC)

Equipment Receipt
 Inhibit Yes No
 Seal Intact: Yes No N/A
 Chain: Yes No N/A
 Temperature: PT

Sample Name	Field Description	Purge Vol	Time	Date	Sample Type	Container Type	Total # of Containers
146-SV	7692	7.0	11:27	11/14	Cap	200ml	1
14B-SV	030		11:59				
3B-SV	094		12:57				
059-SV	021		14:00				
106-SV	442		15:11				
108-SV	990		15:20				
108-SV REE	772		15:54				

Signature consultation authorization to proceed with analysis and acceptance of collection on file:
 Relinquished by (Signature): _____ (Company): _____
 Relinquished by (Signature): _____ (Company): _____
 Relinquished by (Signature): _____ (Company): _____
 Received by (Signature): _____ (Company): _____
 Received by (Signature): _____ (Company): _____
 Received by (Signature): _____ (Company): _____
 Date: 11/14/13 Time: 17:29
 Date: 11/15/13 Time: 09:31
 Date: _____ Time: _____
 Disposal: Return to client: Pickup:

SOIL/GW	
8260B Full List	<input type="checkbox"/>
8015M TPH	<input type="checkbox"/> g <input type="checkbox"/> d <input type="checkbox"/> ext
4181 TRPH	<input type="checkbox"/>
VOCs: Full List	<input checked="" type="checkbox"/> TO-15
VOCs: Short List/DSC	<input type="checkbox"/> 8260B <input type="checkbox"/> TO-15
VOCs: SAM, 8260B	<input type="checkbox"/> SAM A <input type="checkbox"/> SAM B
Naphthalene	<input type="checkbox"/> 8260B <input type="checkbox"/> TO-15
Oxygencles	<input type="checkbox"/> 8260B <input type="checkbox"/> TO-15
TPHv gas	<input type="checkbox"/> 8260B <input type="checkbox"/> TO-15
Kelones	<input type="checkbox"/> 8260B <input type="checkbox"/> TO-15
Other Methods	<input checked="" type="checkbox"/> 8260B <input type="checkbox"/> TO-15
Leak Check Compound	<input checked="" type="checkbox"/> 1 DFA <input type="checkbox"/> OTHER
Methane	<input type="checkbox"/> CO2 <input type="checkbox"/> O2 <input type="checkbox"/> N2

SOIL VAPOR/AIR ANALYSIS	
VOCs	✓
TPH	✓
Other	✓
Fixed Gases	✓

VAC & Gases # 11167
 30
 2.8
 0.9
 4.9
 1.5
 1.8
 2.5

1,1,1-trifluoroethane; Propene; 1,1,1,2,2-tetrafluoroethane; 1,1-Difluoroethane; Dichlorodifluoromethane; Chloromethane; Dichlorotetrafluoroethane; Vinyl Chloride; 1,3-Butadiene; Bromomethane; Chloroethane, Ethanol; Acetone; Isopropanol; Trichlorofluoromethane; 1,1-Dichloroethane; tert-Butanol; Methylene chloride; 1,1,2-Trichlorotrifluoroethane; Carbon Disulfide; trans-1,2-Dichloroethene; 1,1-Dichloroethane; Methyl-tert-Butyl Ether; Vinyl Acetate; 2-Butanone; cis-1,2-Dichloroethene; Ethyl Acetate; Diisopropyl Ether; Hexane; Chloroform; 2,2 Dichloropropane; Tetrahydrofuran; Ethyl-tert-Butyl Ether; 1,2-Dichloroethane; 1,1,1-Trichloroethane; Benzene; 1,1-Dichloropropene; Carbon Tetrachloride; Cyclohexane; tert-Amyl Methyl Ether; Dibromomethane; 1,2-Dichloropropane; Bromodichloromethane; 1,4-Dioxane; Trichloroethene; 2,2,4 Trimethylpentane; Heptane; cis-1,3-Dichloropropene; 1,1,2-Trichloroethane; Toluene; 1,3 Dichloropropane; 2-Hexanone; Dibromochloromethane; 1,2-Dibromoethane (EDB); Tetrachloroethene; 1,1,1,2-Tetrachloroethane; Chlorobenzene; Ethylbenzene; m,p-Xylene; Bromoform; Styrene; 1,1,2,2-Tetrachloroethane; o-Xylene; 1,2,3-Trichloropropane; Isopropylbenzene; Bromobenzene; 2-Chlorotoluene; n-Propylbenzene; 4-Chlorotoluene; 4-Ethyltoluene; 1,3,5-Trimethylbenzene; Naphthalene; tert-Butylbenzene; 1,2,4-Trimethylbenzene; Benzyl Chloride; 1,3-Dichlorobenzene; 1,4-Dichlorobenzene; sec-Butylbenzene; p-Isopropyltoluene; 1,2-Dichlorobenzene; n-Butylbenzene; 1,2-Dibromo-3-chloropropane; 1,2,4 Trichlorobenzene; 1,2,3-Trichlorobenzene; Hexachlorobutadiene

Dichlorodifluoromethane; Vinyl Chloride; Bromomethane, Chloroethane; Trichlorofluoromethane; 1,1-Dichloroethene; Methylene chloride (Dichloromethane); 1,1,2-Trichlorotrifluoroethane (F113); trans-1,2-Dichloroethene; 1,1-Dichloroethane; cis-1,2-Dichloroethene; Chloroform; 1,2-Dichloroethane (EDC); 1,1,1-Trichloroethane; Carbon Tetrachloride; Bromodichloromethane; Trichloroethene; 1,1,2-Trichloroethane; Tetrachloroethene; 1,1,1,2-Tetrachloroethane; 1,1,2,2-Tetrachloroethane; Bromochloromethane - not available; Benzene; Toluene, Ethylbenzene; m,p-Xylene; o-Xylene; Isopropylbenzene (Cumene); n-Propylbenzene; 1,3,5-Trimethylbenzene; 1,2,4-Trimethylbenzene; tert-Butylbenzene; 1,4-Dichlorobenzene; sec-Butylbenzene; p-Isopropyltoluene; n-Butylbenzene; 1,2,4-Trichlorobenzene; Naphthalene; Tertiary-butyl alcohol; Methyl tertiary-butyl ether (MTBE); Diisopropyl ether (DIPE); Ethyl tertiary-butyl ether (ETBE); Tertiary-amyl methyl ether (TAME);

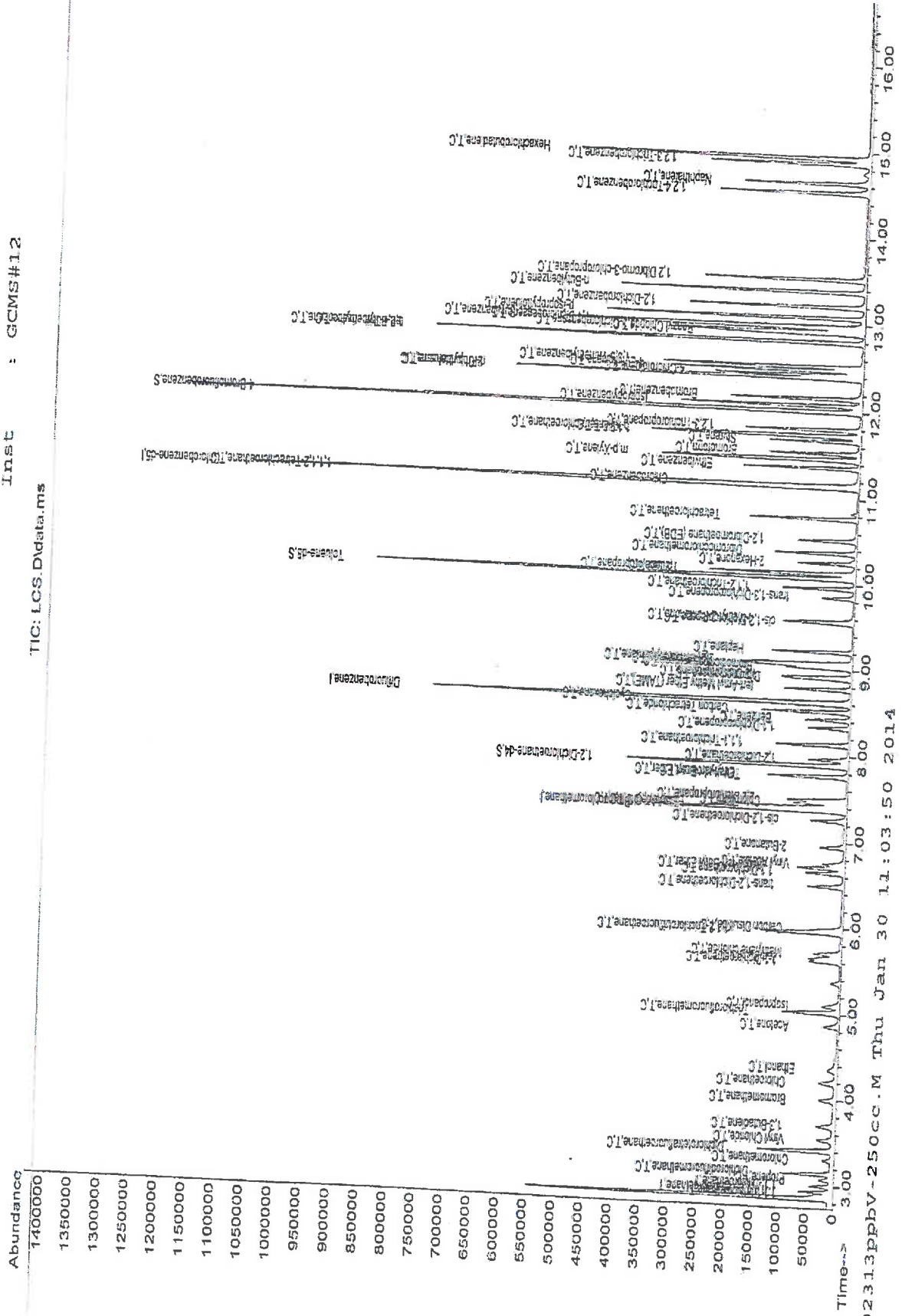
Quantitation Report (QT Reviewed)

Data Path : D:\DATA\111913.1P\
Data File : LCS.D
Acq On : 19 Nov 2013 7:30 PM
Operator : slc
Misc :
ALS Vial : 11 Sample Multiplier: 5

Quant Time: Nov 20 14:22:05 2013
Quant Method : C:\msdchem\1\METHODS\102313ppbv-250cc.M
Quant Title : BPA TO-15 GC/MS #12
QLast Update : Thu Oct 24 09:35:58 2013
Sample : EK31912-BS1

Inst : GCMS#12

TIC: LCS.D\data.ms



SUBSLAB LIBRARY

- ✓ EXCLUDED from Sub-Slab Testing:
 - 1, 2-Dibromoethane;
 - Styrene;
 - Chloromethane, &
 - Chlorobenzene

- ✓ EXCLUDED from soil gas and groundwater:
 - Methanol

- ✓ EXCLUDED testing for URANIUM

The Subslab RL were set higher than CHHSLs:

Chemical	CHHSL	RL
Benzene	1.7	3.2
Carbon Tetrachloride	1.2	6.4
1,2-Dichloroethane	2.3	4.1
Naphthalene	1.4	5.3

✓ Did not test for URANIUM

✓ Did not use PID across soil borings to detect highest concentrations along the rod

Inferior Methods

- TO-15 vs. TO-17 for Naphthalene biased low concentrations

Sample Collection

- Disposed of 3 samples – Location 12 @ 15 ft. & documentation/field log record
- Excessive leaking of soil gas during collection at PV1 – 470; PV3— 93,000; PV 10 – 15,000
—398 PID reading then device recalibrated.
- AMEC staff redirected from standard sampling protocols by DTSC as indicated by strikeouts on record and notation “per Theo”
- Mishandling of soil boring samples causing reduction in VOC concentrations

Draft Report

- Johnson & Edinger Model not appropriate for site-specific conditions, i.e.
 - moisture; lateral water flow; slab defects; voids, water touching slabs
- Methanol in Subslab of 540 ug/m³ - DTSC estimates 27 ug/m³ as indoor air concentration.
- Methanol metabolizes into formaldehyde

Formaldehyde

From previous testing, OEHHA, CDPH and ATSDR identified Formaldehyde levels as an acute contaminate of concern and recommended further testing.

DTSC was refused to test for formaldehyde. Residents had to fight to get the other agencies' recommendation included. As a result of including Formaldehyde in the testing workplan, form was found in the Subslab, soil gas at 10 and 25 feet from homes, as well as being found in ambient air and groundwater - indicating its coming from a source outside the homes.

Despite recognition that formaldehyde poses an acute health hazard, after more than a year, no public health referrals have been made for local residents!

QUALITY CONTROL SAMPLE RESULTS

1. FORMALDEHYDE 60 SV-13 DUPL.
2. FORMALDEHYDE SV-A 60-SV-15 < 3.76
3. BENZENE 6-SV-15 0.2 BENZENE

TABLE 6

QUALITY CONTROL SAMPLE RESULTS Ackmeved Development Valdemar, California

Soil Samples		6-SV-9-11	60-SV-9-11	RPD
Soil Sample ID	Analyte	(primary)	(duplicate)	
Title 22 Metals				
Arsenic	Reporting Limits (mg/kg)	<0.750	<0.750	--
Barium	0.750	0.815	0.822	1
Beryllium	0.500	0.300	0.300	8
Cadmium	0.500	0.300	0.300	8
Chromium	0.350	13.5	13.7	1
Cobalt	0.350	13.7	14.3	4
Copper	0.500	13.9	15.1	3
Lead	0.500	1.51	1.48	3
Manganese	0.250	<0.250	<0.250	--
Nickel	0.250	6.39	6.95	8
Selenium	0.700	<0.750	<0.750	--
Silver	0.250	<0.250	<0.250	--
Thallium	0.750	<0.750	<0.750	--
Vanadium	0.250	64.3	66.4	3
Zinc	1.000	43.8	46.8	7
Mercury	0.0835	<0.0835	<0.0835	--
Pesticides	RL	ND	ND	--
Polychlorinated biphenyls (PCBs)	50	ND	ND	--
Semi-volatile organic compounds (SVOCs)	RL	<50	<50	--

Groundwater Samples		11-SW-31-35	110-SW-31-35	RPD
Groundwater Sample ID	Analyte	(primary)	(duplicate)	
Volatiles Organic Compounds (VOCs)				
Groundwater Sample ID	Reporting Limits (µg/L)	ND	ND	--
Analyte	Reporting Limits (µg/L)	100-SW-27-32	110-SW-27-32	RPD
Formaldehyde	30	<30	<30	--

Soil Gas Samples		1-SV-4	1-SV-5-Rep	RPD
Soil Gas Sample ID	Analyte	(primary)	(duplicate)	
Volatile Organic Compounds (VOCs)				
Soil Gas Sample ID <td>Reporting Limits</td> <td>ND</td> <td>ND</td> <td>--</td>	Reporting Limits	ND	ND	--
Analyte	Reporting Limits	ND	ND	--

Soil Gas Samples		10B-SV	10B-SV-Rep	RPD
Sample ID	Analyte	(primary)	(duplicate)	
Formaldehydes in Soil Vapor				
Sample ID <td>Reporting Limits (µg/m3)</td> <td>250</td> <td>190</td> <td>19</td>	Reporting Limits (µg/m3)	250	190	19
Analyte	Reporting Limits (µg/m3)	3.5	3.5	--
Methanol	3.5	3.7	3.5	27
Methylene chloride (Dichloromethane)	3.2	7.6	5.8	27
Benzene	3.8	16	11	37
Toluene	5.8	18	12	29
Ethylene	4.4	5.2	5.4	4
1,2,4-Trimethylbenzene	5.0	14	13	7
Formaldehydes in Soil Vapor				
Sample ID <td>Reporting Limits (µg/m3)</td> <td>6-SV-15</td> <td>60-SV-15</td> <td>RPD</td>	Reporting Limits (µg/m3)	6-SV-15	60-SV-15	RPD
Analyte <td>Reporting Limits (µg/m3)</td> <td>3.75</td> <td>3.75</td> <td>--</td>	Reporting Limits (µg/m3)	3.75	3.75	--
Formaldehyde	3.75	3.75	3.75	--

Notes:
 1. RPDs = Relative Percent Difference calculated using:
 $RPD = 2 \times \frac{\text{primary} - \text{duplicate}}{\text{primary} + \text{duplicate}}$

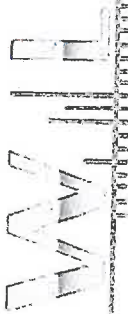
1. RPDs were not calculated when either number of duplicate samples, or both samples were not deficient above the reporting limits, or detectable concentrations were met, the limits are listed as ND.
2. ND = Not Detected (at or below laboratory reporting limit).
3. RL = Reporting Limit.
4. RL = Not Detected (at or below laboratory reporting limit).
5. RL = Not Detected (at or below laboratory reporting limit).

MANY VOC'S IN
GAMMABUTYL BLOW
CANISTER R.L. 48 UG/L
ETC.

12 UG/L - X

*
0.2 BENZENE
WAS DETECTED
THIS LOGGERS ON
TABLE SOIL GAS

*
SHOULD HAVE LISTED
3.76 IN SOIL GAS
60-SV-15
3.75 = RL



Certificate of Analysis

Quality Control Section

Aldehydes by EPA Method 8315A - Quality Control

Batch W3K0392 - EPA 8315A

Blank (W3K0392-6LK1)

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC Limits	%REC Limits	RPD	RPD Limit
Formaldehyde	ND		ug/l					

Prepared: 11/08/13 Analyzed: 11/11/13 13:17

LCS (W3K0392-BS1)

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC Limits	%REC Limits	RPD	RPD Limit
Formaldehyde	102		ug/l	100	102	44-173		

Prepared: 11/08/13 Analyzed: 11/11/13 13:17

Matrix Spike (W3K0392-MS1)

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC Limits	%REC Limits	RPD	RPD Limit
Formaldehyde	.....ND	113		ug/l	100	113	32-164		

Prepared: 11/08/13 Analyzed: 11/11/13 13:17

Matrix Spike Dup (W3K0392-MSD1)

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC Limits	%REC Limits	RPD	RPD Limit
Formaldehyde	.....ND	115		ug/l	100	115	32-164	2	20

Prepared: 11/08/13 Analyzed: 11/11/13 13:17

Quantitation Report (QT Reviewed)

Data Path : E:\data\111413\
 Data File : 13-SV-5.D
 Acq On : 14 Nov 2013 1:49 pm
 Operator : CS
 Sample : E311047-07
 Misc : 0.01
 ALS Vial : 16 Sample Multiplier: 1
 Quant Time: Jan 27 14:48:03 2014
 Quant Method : C:\MSDCHEM\1\METHODS\11213VAPOR.M
 Quant Title : 8260 SV for volatile organic Compounds GC/MS #3
 Quant Update : Wed Nov 13 13:17:48 2013
 Response via : Initial Calibration
 InstName : GC MS #3

Internal Standards	R.T.	Gain	Response	Conc	Units	Dev (Min)
1) Fluorobenzene	4.73	96	135226	50.00	ng	0.00
43) Chlorobenzene-D5	6.94	82	47497	50.00	ng	0.00
54) 1,4-Dichlorobenzene-d4	8.84	152	39303	50.00	ng	0.01
77) TBA-d9	3.10	65	18290	1000.00	ng	0.00
System Monitoring Compounds						
24) Dibromofluoromethane	4.26	113	21754	43.08	ng	0.00
Spiked Amount	Range	75 - 125	Recovery	=	86.16%	
27) 1,2-Dichloroethane-d4	4.51	65	23496	49.63	ng	0.01
Spiked Amount	Range	62 - 139	Recovery	=	99.28%	
37) Toluene-d8	5.84	98	118980	51.53	ng	0.00
Spiked Amount	Range	75 - 125	Recovery	=	103.06%	
55) 4-Bromofluorobenzene	7.87	174	27890	50.35	ng	0.00
Spiked Amount	Range	75 - 125	Recovery	=	100.70%	
Target Compounds						
21) Chloroform	4.16	83	2625	2.41	ng	60
30) Benzene	4.56	78	14751	5.54	ng	95

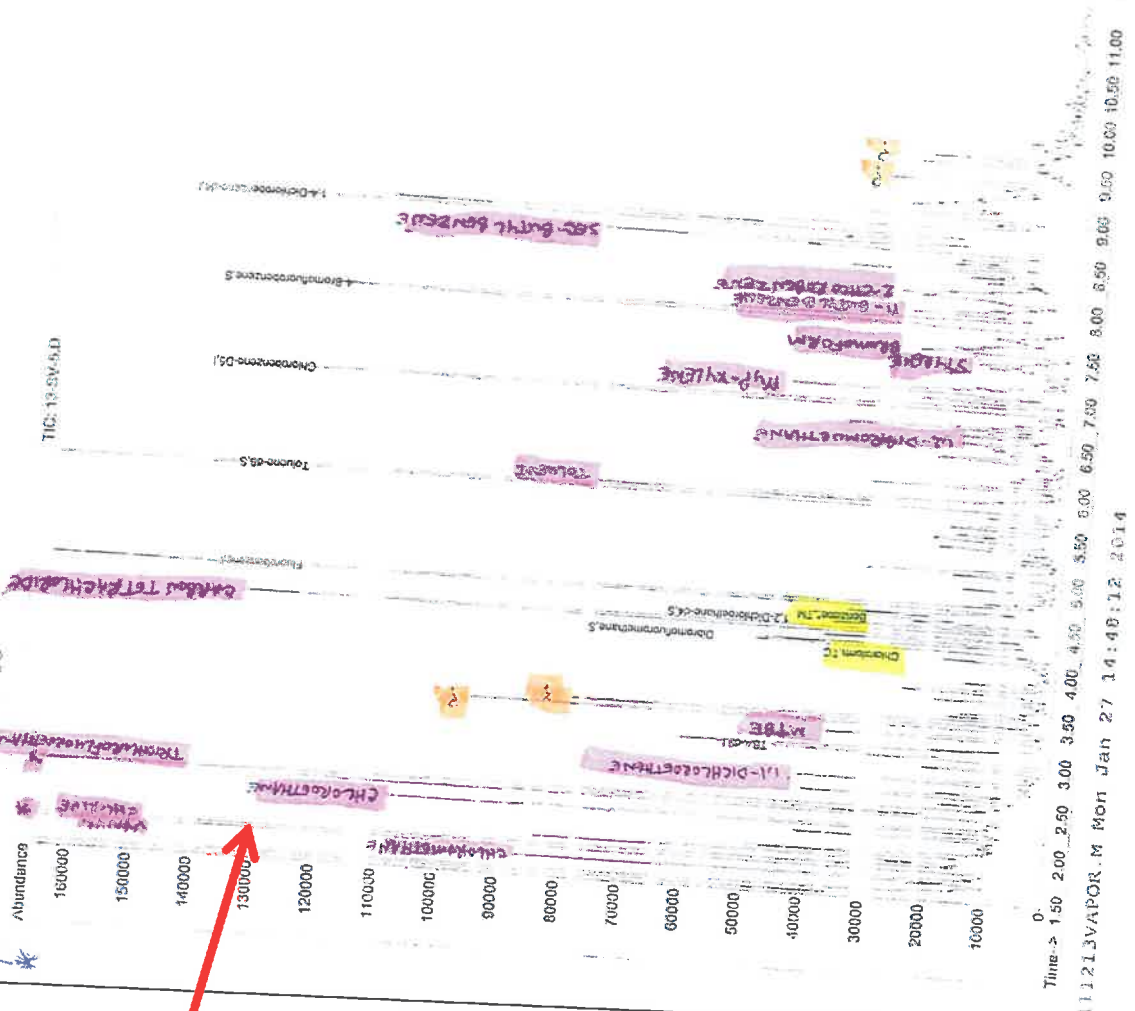
(#) = qualifier out of range (m) = manual integration (+) = signals summed

DTSC only reported the "Target" Compounds they selected in their report.

DTSC failed to report all the other compounds found in the testing and that would have been reported if they had run a normal full scan of 108+ compounds

Quantitation Report (QF Reviewed)

Data Path : E:\data\111413\
Data File : 13-SV-5.D
Acq On : 14 Nov 2013 1:49 pm
Operator : CS
Sample : E311047-07
Misc : 0-01
ALS Vial : 16 Sample Multiplier: 1
Quant Time: Jan 27 14:48:03 2014
Quant Method : C:\MSDCHEM1\METHODS\METHODS\111213VAPOR.M
Quant Title : 6260 SV FOR Volatile organic compounds GC/MS #3
Last Update : Wed Nov 13 13:17:48 2013
Response via : Initial Calibration
InstName : C MS #3



Quantitation Report (OT Reviewed)

Data Path : E:\data\111413\
 Data File : 2-2V-15.D
 Acq On : 14 Nov 2013 9:48 am
 Operator : CS
 Sample : E311047-04
 Misc : 0.01
 ALS Vial : 13 Sample Multiplier: 1
 Quant Time: Jan 27 14:39:58 2014
 Quant Method : C:\MSDCHEM\1\METHODS\METHODS\111213VAPOR.M
 Quant Title : 8260 SV for volatile organic compounds GC/MS #3
 Response via : Wed Nov 13 13:17:48 2013
 InstName : GC MS #3

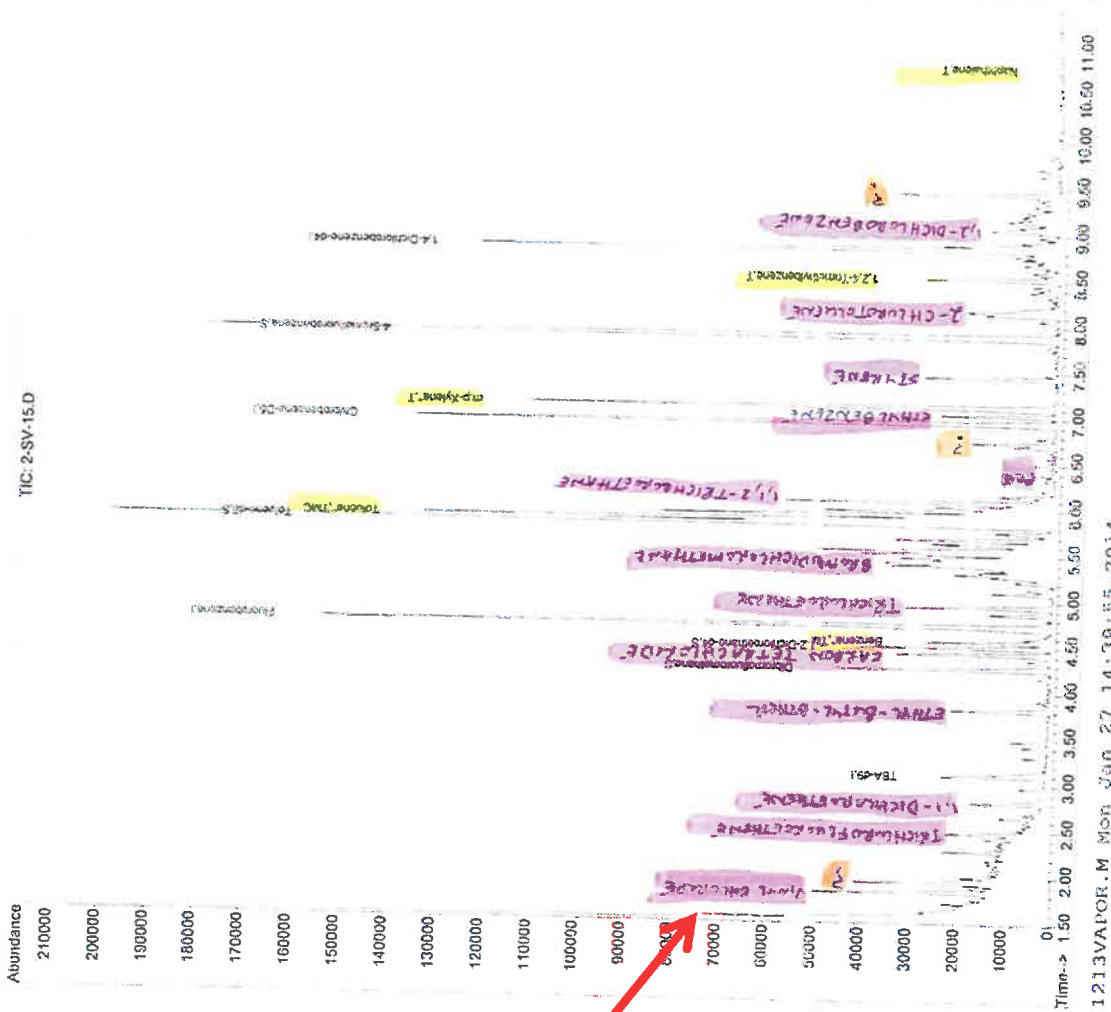
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev	Dev (Min)
1) Fluorobenzene	4.73	96	127143	50.00	ng	0.00	0.00
43) Chlorobenzene	6.94	82	45931	50.00	ng	0.00	0.00
54) 1,4-Dichlorobenzene-d4	8.84	152	38357	50.00	ng	0.00	0.00
77) TBA-d9	3.10	65	19677	1000.00	ng	0.00	0.00
System Monitoring Compounds							
24) Dibromofluoromethane	4.26	113	23503	48.77	ng	0.00	0.00
Spiked Amount	Range	75 - 125	Recovery	97.54%			
27) 1,2-Dichloroethane-d4	4.50	65	24861	55.05	ng	0.00	0.00
Spiked Amount	Range	62 - 139	Recovery	110.10%			
37) Toluene-d8	5.84	98	121178	54.99	ng	0.00	0.00
Spiked Amount	Range	75 - 125	Recovery	109.98%			
55) 4-Bromofluorobenzene	7.07	174	29343	54.28	ng	0.00	0.00
Spiked Amount	Range	75 - 125	Recovery	108.56%			
Target Compounds							
30) Benzene*	4.56	78	20204	7.95	ng	96	96
38) Toluene*	5.90	92	46261	24.73	ng	94	94
50) m,p-Xylene*	7.12	105	36394	26.46	ng	93	93
65) 1,2,4-Trimethylbenzene	8.52	105	22767	10.29	ng	88	88
75) Naphthalene	10.78	128	238	20.26	ng	70	70

(*) = qualifier out of range (m) = manual integration (n) = signals summed

"Target"
 Compounds
 reported by
 DTSC

Quantitation Report (OT Reviewed)

Data Path : E:\data\1111413
Data File : 2-SV-15.D
Acq On : 14 Nov 2013 9:48 am
Operator : CS
Sample : E311047-04
Misc : 0.01
ALS Vial : 13 Sample Multiplier: 1
Quant Time: Jan 27 14:39:38 2014
Quant Method : C:\MSDCHEM\1\METHODS\METHODS\111213VAPOR.M
Quant Title : 8260 SV for volatile organic compounds GC/MS #3
Quant Update : Wed Nov 13 13:17:48 2013
Response via : Initial Calibration
InstName : GC MS #3



Full Scan
Compounds
actually found
in testing

Quantitation Report (QT Reviewed)

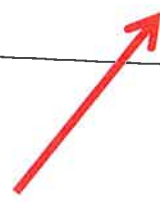
Data Path : E:\data\111413\
 Data File : 12-SV-5.0
 Acq On : 14 Nov 2013 12:00 pm
 Operator : CS
 Sample : E311047-05
 Misc : 0.01
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 27 14:42:41 2014
 Quant Method : C:\MSDCHEM\METHODS\METHODS\111213VAPOR.M
 Quant Title : 8260 SV for volatile organic compounds GC/MS #3
 Report Update : Wed Nov 13 13:17:48 2013
 Response via : Initial Calibration
 InstrName : GC MS #3

Internal Standards	R.T.	Qion	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	4.73	56	104267	50.00	ng	0.00
43) Chlorobenzene-D5	6.94	82	37196	50.00	ng	0.00
54) 1,4-Dichlorobenzene-d4	8.84	152	31013	50.00	ng	0.00
77) TBA-d9	3.10	65	14236	1000.00	ng	0.00
System Monitoring Compounds						
24) Dibromofluoromethane	4.27	113	19941	50.46	ng	0.01
Spiked Amount	Range	75 - 125	Recovery	=	100.95%	
27) 1,2-Dichloroethane-d4	4.50	65	19652	53.06	ng	0.00
Spiked Amount	Range	62 - 139	Recovery	=	106.12%	
37) Toluene-d8	5.84	98	94212	52.13	ng	0.00
Spiked Amount	Range	75 - 125	Recovery	=	104.26%	
55) 4-Bromofluorobenzene	7.87	174	22900	52.39	ng	0.00
Spiked Amount	Range	75 - 125	Recovery	=	104.78%	
Target Compounds						
2) 1,1-Dichloroethane	1.56	65	30000	88.76	ng	87
30) Benzene	4.55	78	4663	2.24	ng	82
56) m,p-Xylene	7.12	106	11834	10.63	ng	93
65) 1,2,4-Trimethylbenzene	8.52	105	19958	11.16	ng	81
67) p-Isopropyltoluene	8.78	119	7186	3.35	ng	86

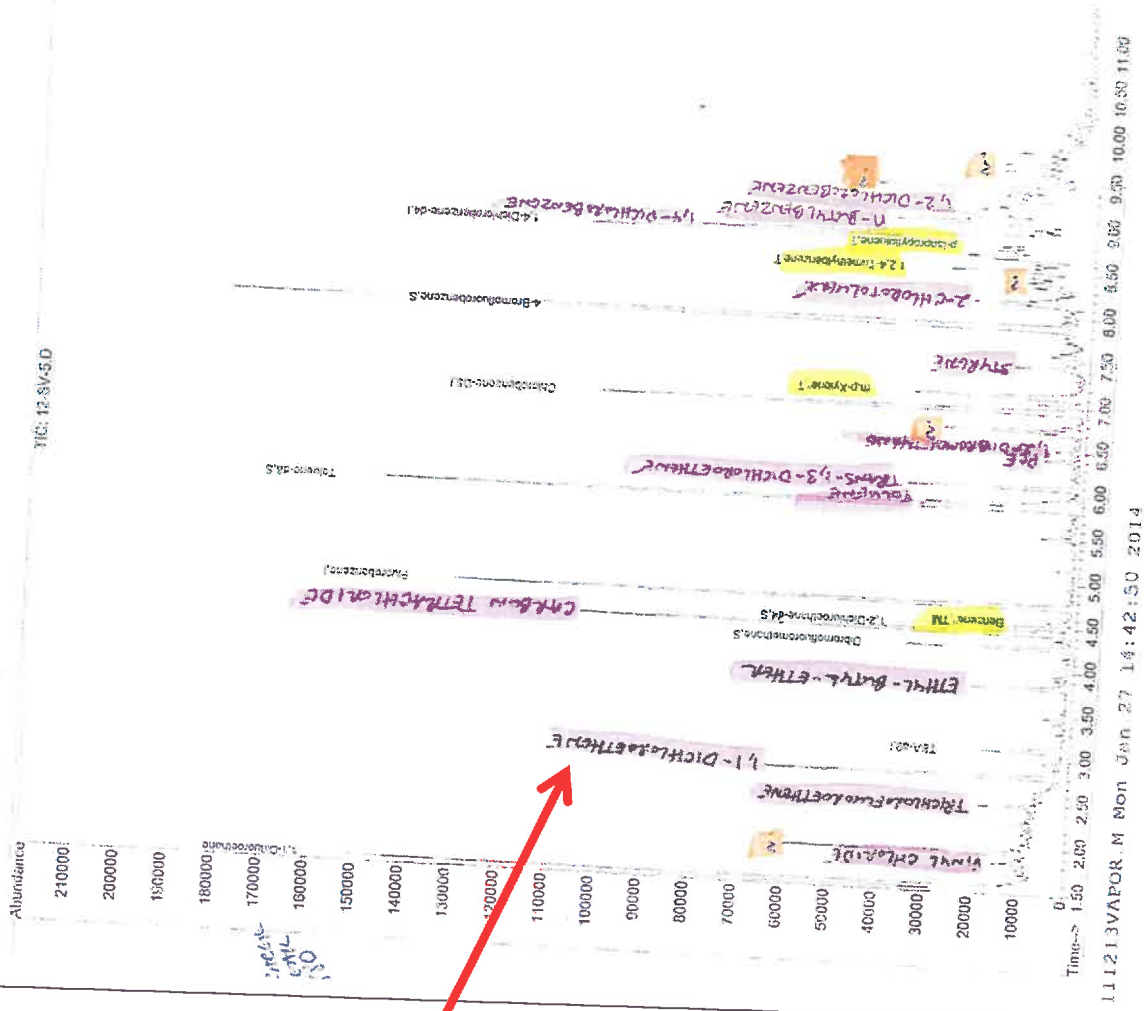
(#) = qualifier out of range (n) = manual integration (+) = signals summed

"Target"
 Compounds
 reported by
 DTSC



Quantitation Report (OT Reviewed)

Data Path : E:\data\111413
Data File : 12-SV-5.D
Acq On : 14 Nov 2013 12:09 pm
Operator : CS
Sample : E311047-05
Misc : 0.01
ALS Vial : 14 Sample Multiplier: 1
Quant Time: Jan 27 14:42:41 2014
Quant Method : C:\MSDCHEM\1\METHODS\METHODS\111213VAPOR.M
Quant Title : 8260 SV for volatile organic compounds GC/MS #3
GLSst Update : wed Nov 13 13:17:48 2013
Response via : Initial Calibration
InstName : GC MS #3



Full Scan
Compounds
actually found
in testing

Quantitation Report (QT Reviewed)

Data Path : E:\data\111413\
 Data File : 2-3V-5-10PV.D
 Acq On : 14 Nov 2013 9:18 am
 Operator : CS
 Sample : E311047-03
 Misc : 0.01
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 27 13:49:02 2014
 Quant Method : C:\MSDCHEM1\METHODS\METHODS\11213VAPOR.M
 Quant Title : R260 SV for volatile organic compounds GC/MS #3
 Quant Update : Wed Nov 13 13:17:48 2013
 Response via : Initial Calibration
 InstName : GC MS #3

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene	4.73	96	315431	50.00	ng	0.00
54) 1,4-Dichlorobenzene-d4	6.94	82	36058	50.00	ng	0.00
77) TBA-d9	8.84	152	32457	50.00	ng	0.00
	3.10	65	14536	2000.00	ng	0.00
System Monitoring Compounds						
24) Dibromofluoromethane	4.26	113	20813	47.58	ng	0.00
Spiked Amount	Range	75 - 125	Recovery	=	95.16%	
27) 1,2-Dichloroethane-d4	4.50	65	21220	51.76	ng	0.00
Spiked Amount	Range	62 - 139	Recovery	=	103.52%	
37) Toluene-d8	5.94	98	96501	48.24	ng	0.00
Spiked Amount	Range	75 - 125	Recovery	=	96.48%	
55) 4-Bromofluorobenzene	7.97	174	23383	51.12	ng	0.00
Spiked Amount	Range	75 - 125	Recovery	=	102.24%	
Target Compounds						
100) Methylene Chloride	3.14	89	821	1.57	ng	0.00
73) Chloroform	4.16	83	3308	3.58	ng	0.00
50) Benzene*	4.57	78	4596	2.17	ng	0.00
50) m,p-Xylene*	7.12	106	31092	27.31	ng	0.00

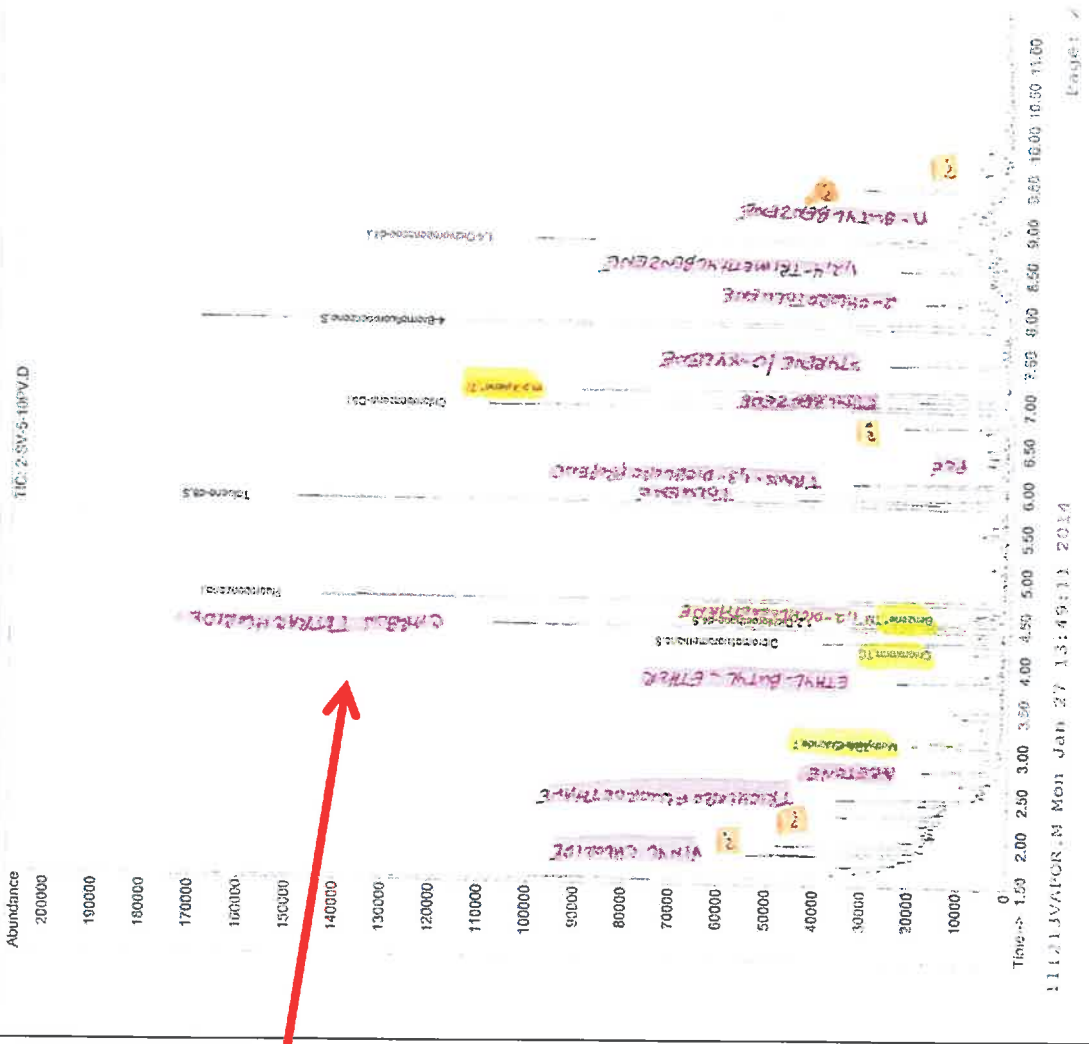
(#) = qualifier out of range (m) = manual integration (+) = signals summed

“Target”
 Compounds
 reported by
 DTSC



Quantitation Report (OT Reviewed)

Data Path : E:\Data\111413
Data File : 2-SV-5-10PV.D
Acq On : 14 Nov 2013 9:16 am
Operator : CS
Sample : E211047-03
Misc : 0.01
ALS Vial : 12 Sample Multiplier: 1
Quant Time: Jan 27 13:49:02 2014
Quant Method : C:\MSDCHEM\1\METHODS\METHODS\111213\AVAPOR.M
Quant Title : 3260 SV for volatile organic compounds GC/MS #3
Last Update : Wed Nov 13 13:17:48 2013
Response via : Initial Calibration
InstName : GC MS #3



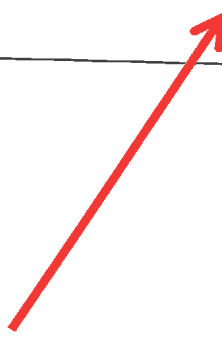
Full Scan
Compounds
actually found
in testing

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\111913.1p\
 Data File : AMSC-14B-SV.D
 Acq On : 20 Nov 2013 12:05 pm
 Operator : SLC
 Misc :
 ALS Vial : 16 Sample Multiplier: 5
 Quant Time: Jan 30 11:14:08 2014
 Quant Method : GC/MS
 Quant Title : EDA TO-15 GC/MS #12
 Quant File : E:\msdchem\1\METHODS\102313ppbv-250cc.M
 Quant Update : Thu Jan 30 10:36:55 2014
 Sample : E111062-02

Compound	R.T.	Qion	Response	Conc	Units	Dev(Min)	Instr
Internal Standards							
1) Bromochloromethane	7.369	130	141920	50.00	ppbv	0.00	
41) Difluorobenzene	8.615	114	553317	50.00	ppbv	0.00	
63) Chlorobenzene-d5	11.131	82	300131	50.00	ppbv	0.00	
System Monitoring Compounds							
35) 1,2-Dichloroethane-d4	7.885	65	279748	53.72	ppbv	0.00	
Spiked Amount			Recovery =	107.44%			
58) Toluene-d8	10.065	98	545628	52.96	ppbv	0.00	
Spiked Amount			Recovery =	105.92%			
72) 4-Bromofluorobenzene	12.001	95	350180	48.23	ppbv	0.00	
Spiked Amount			Recovery =	96.46%			
Target Compounds							
4) 1,1-Difluoroethane	2.996	51	10514	4.395	ppbv	97	
5) Propene	3.071	41	5792	4.052	ppbv	89	
13) Ethanol	4.351	45	5838	5.127	ppbv	100	
14) Acetone	4.823	43	1147573	188.947	ppbv	92	
18) tert-Butanol	5.668	59	11873	1.454	ppbv	63	
21) Carbon Disulfide	5.988	76	13143	1.572	ppbv	100	
24) Methyl-tert-Butyl Ether	6.785	71	22806	2.378	ppbv	48	
26) 2-Butanone	6.945	43	40650	6.208	ppbv	96	
30) Hexane	7.408	57	15526	4.671	ppbv	89	
39) Benzene	8.423	78	244356	32.983	ppbv	99	
42) Cyclohexane	8.601	84	23849	6.619	ppbv	86	
49) 2,2,4-Trimethylpentane	9.078	57	71754	5.866	ppbv	92	
50) Heptane	9.218	71	5765	2.500	ppbv	95	
56) Toluene	10.124	91	548862	41.655	ppbv	100	
61) Tetrachloroethene	10.771	168	13937	1.875	ppbv	94	
65) Ethylbenzene	11.157	91	123166	7.871	ppbv	99	
66) m,p-Xylene	11.449	91	274218	18.035	ppbv	99	
70) o-Xylene	11.738	91	109139	6.370	ppbv	100	
81) 1,2,4-Trimethylbenzene	12.793	105	74639	3.047	ppbv	88	

“Target”
 Compounds
 reported by
 DTSC



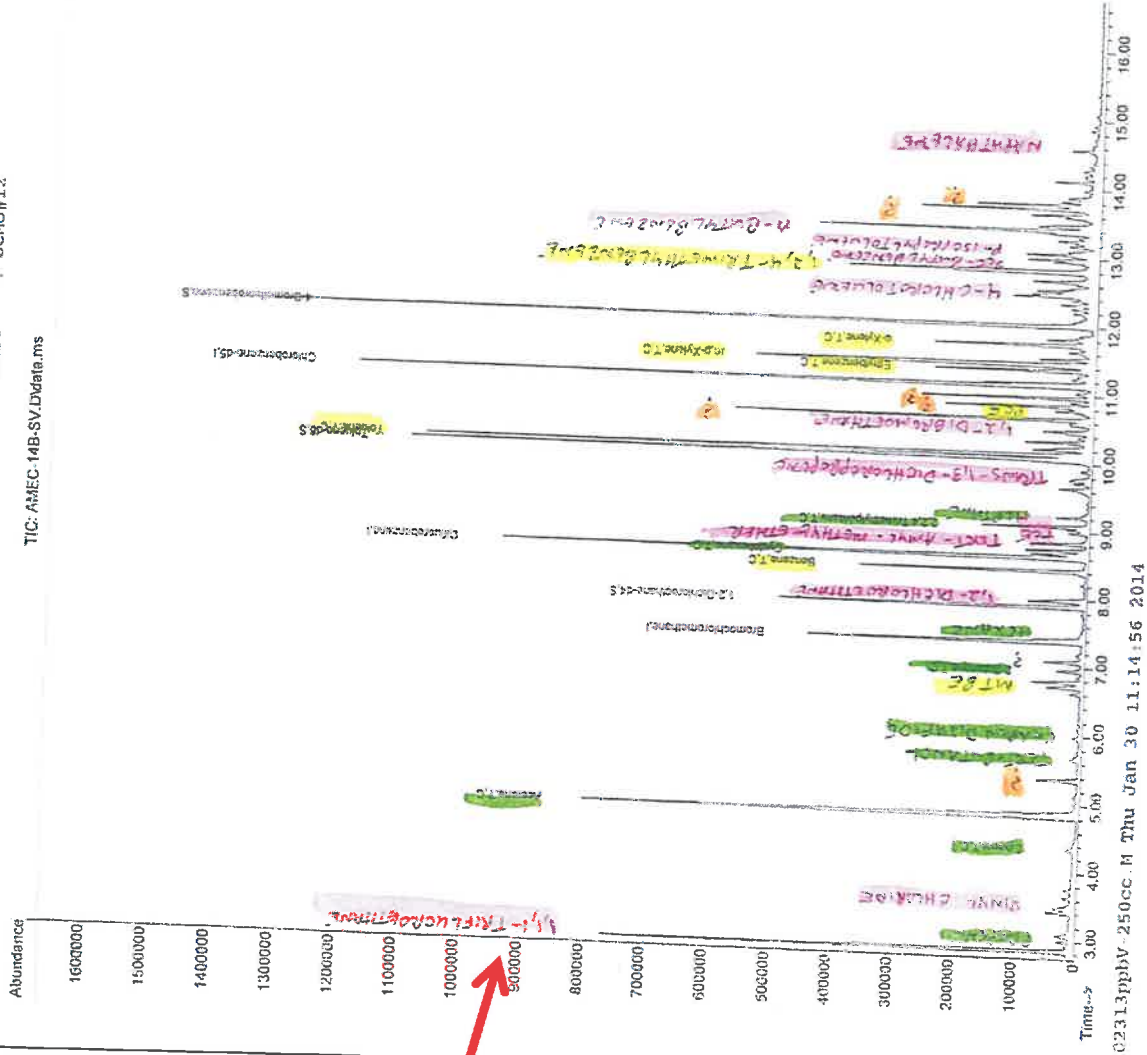
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\111913_1p\
Data File : AMEC-14B-SV.D
Acq On : 20 Nov 2013 12:05 pm
Operator : slc
Misc :
ALS Vial : 18 Sample Multiplier: 5
Quant Time : Jan 30 11:14:08 2014
Quant Method : C:\msdchem\1\METHODS\102313pbv-250cc.M
Quant Title : EPA TO-15 GC/MS #12
QIast Update : Thu Jan 30 10:36:55 2014
Sample : E311062-02

Inst : GCMS#12

TIC: AMEC-14B-SV.D\data.ms



Full Scan
Compounds
actually found
in testing

All test sites show contaminants in groundwater – EXCEPT sample taken on 11/14/2013.

This sample was the split sample provided to our Industrial Hygienist for testing at a different lab.

Although the other testing sites are surrounding this site, unlike all the other sampling sites, this sample shows very few contaminants.!?!

Raw Data & Quantitation (Reviewed)		ug/L			
sample dates	11/14/2013	11/8/2013			11/8/2013
VOC (Groundwater Locations)	7-GW	13-GW	11-GW	110-GW	1-GW
Ethanol	2.06	3.67	16.92	5.14	16.22
Tert-Butyl Alcohol (TBA)		18.05	4.58	3.2	9.25
Chloromethane	0.3	0.35	0.49	0.45	0.29
Bromomethane	2.87	0.91	1.21	1.11	1.17
Chloroethane		0.61	0.6	2.08	0.49
1,3-Butadiene		0.44		0.11	
Acetone	0.78				
Iodomethane			0.15	0.16	
1,1-Dichloroethene				0.12	
Isopropanol	0.38	9.14	8.23	2.17	15.49
Acetonitrile			0.13	0.14	0.1
Acrylonitrile			0.15		
Acrolein		0.7	0.48	0.56	0.32
Methylene Chloride			0.1	0.13	
Isobutyl Alcohol		1.36	3.68	4.1	2.4
Hexane		0.32	0.13		
Vinyl-Acetate					0.14
2,2-Dichloropropane			0.11	0.13	0.27
2-Butanone		1.1	0.75	0.61	0.49
Propionitrile		0.12	0.13		0.13
Tetrahydrofuran		0.13			
Chloroform		0.83	0.18	0.18	
Cyclohexane		1.32	1.3	1.19	1.34
Benzene		0.1	0.11	0.1	0.21
Methyl Methacrylate		3.36	3.51	3.48	3.48
1,4-Dioxane		0.47	0.58	1.49	0.58
Bromodichloromethane		0.22			
Toluene	0.11	0.13	0.11	0.12	0.13
Ethyl Methacrylate		4.61	4.61	4.6	4.6
Hexachloro-1,3-Butadiene		0.12		0.111	
Total Groundwater VOC's	6.5	48.06	48.19	31.481	57.1

Truth Out Article

Dr. Yoram Cohen, a professor of chemical engineering at UCLA who has led a number of studies looking into contamination in Southern California, has looked at the DTSC's January report, though not the raw data. He also examined the findings from the previous studies conducted at Autumnwood. He recommended that the community approach their State or Federal representative, and that they also consider urging the United States Environmental Protection Agency for an independent investigation.

David O. Carpenter, director of the
Institute for Health and the
Environment University at Albany

- "The only situation that I've run into where there was something similar was on a project I was doing in Northern Alaska on former military bases. They were building a foundation for a school and they dug up a tank. When the defense department left, they had just buried everything,"

Professor Carpenter, who has published studies looking into the health effects of toxic exposure, said that one of the concerns at Autumnwood is that little is known about the way in which chemicals act synergistically, even at low levels and over an extended period of time.

"The issue here is you know that you have a number of known human carcinogens. Formaldehyde and benzene would be cases in point," said professor Carpenter. "Where you have two chemicals, each of which cause cancer; when you're exposed to both of them, you have more than an additive elevated risk. And in this instance, you have no idea of how many carcinogens people are being exposed to."

That sentiment echoed by **Dr. Nachman Brautbar**, a specialist in toxicology, who also agreed that little was known about the long-term accumulative affects of toxic exposure.

"Just because the levels are not at a level that the regulatory agencies do not recognize, that does not mean that it's healthy for these residents," said Dr. Brautbar. "There are chemicals that have an accumulative effect, and we have to take into consideration the duration of the exposure."

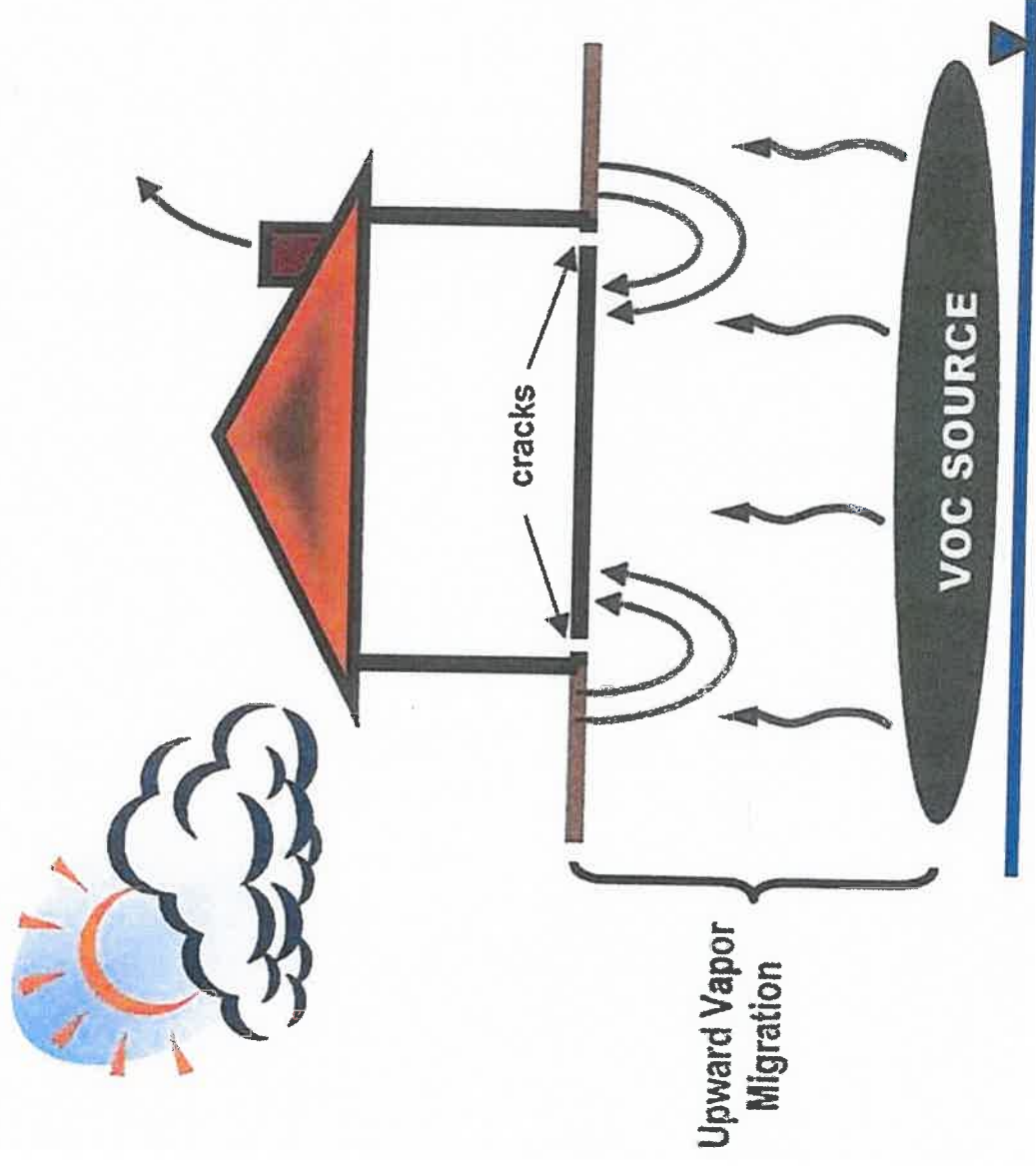
REQUESTS

- Due to the multiple inconsistencies with the testing, we request the following:
 - CalEPA to take the lead in a risk assessment investigation using independent contractors.
 - Invite U.S. EPA to join in the investigation
 - Consultation with ATSDR, OEHHA, CDPH and other appropriate agencies - with full involvement in developing the testing work plan.
 - Meaningful and full involvement by the residents

Full Comprehensive Risk Assessment

Investigation

- Comprehensive testing to include simultaneous indoor air, Subslab, soil gas, soil matrix, groundwater sampling – near homes

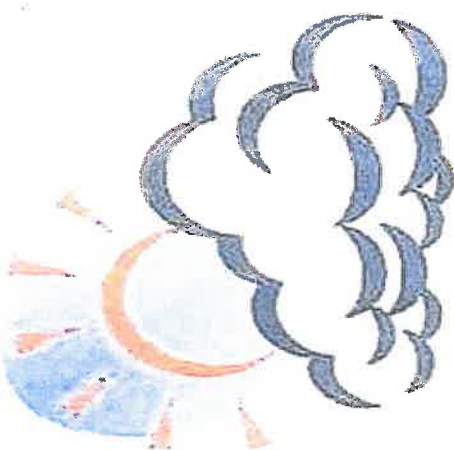


- Following appropriate protocols for vapor intrusion testing at each house in groundwater, soil, Subslab indoor and outdoor air testing.
- Using CHSLs and health based Detection Levels.
- Conduct long term testing instead of snap shot testing with at least a 24-hour indoor air testing.
- Test the white substance for the compounds found in the AQMD testing which included Uranium

Legend

- **RQMD Testing**
- **Independent Testing**
- **Ami Adini**
- **DTSC**
- **DTSC Groundwater**
- **HOA Testing**

Above Health Threshold
 @ All chemicals in powdery substance are high and above that to be expected in region with Uranium levels 77% higher than western US levels



Outside Air

- # Carbon Tetrachloride
- # Benzene
- # Naphthalene
- # Vinyl Chloride
- 1,2-dichloroethane
- Ethane
- Propane
- Chloroethane
- Bromoethane
- Ethanol
- Methylene chloride
- 1,1-dichloroethane
- 2-butanone MEK
- Chloroform
- Bromoform
- Ethyl benzene
- 1,2-dibromochloroethane
- Toluene
- Chlorobenzene
- Tetrachloroethylene
- Vinyl acetate
- O-Xylene
- 2-propanol
- # Vinyl chloride
- # Carbon Tetrachloride
- # Benzene
- # 1,2-Dichloroethane
- # Tetrachloroethylene
- # Ethylbenzene
- # Formaldehyde
- Chlorobenzene
- Chloroform
- Chlorobenzene
- Chloroethane
- Trichloroethylene
- Trichlorofluoromethane

White Powdery Substance in yards @

- # Arsenic
- Uranium
- Barium
- Aluminum
- Phosphorous
- Sulphur
- Chromium
- Manganese

Inside Air

- # 1,2-Dichloroethane
- # Benzene
- Chloroform
- # Tetrachloroethylene
- # Ethylbenzene
- # Carbon Tetrachloride
- # 1,2-Dibromochloroethane
- 1,2-Dichlorobenzene
- 1,2-Dichloropropane
- Bromodichloromethane
- Vinyl chloride
- Carbon Tetrachloride
- Benzene
- 1,2-Dichloroethane
- Tetrachloroethylene
- Ethylbenzene
- Formaldehyde
- Chloroethane
- 2-Butanone
- Mercury

Outside Soil—Soil Gas

- Chloroform
- Toluene
- Chloromethane
- Trichloroethylene
- Benzene
- Chloroform
- Toluene
- Trichlorofluoromethane
- Ethylbenzene
- Tetrachloroethane
- n-p-Xylene
- o-Xylene
- MTBE
- 1,2,4-Trimethoxybenzene
- 1,3,5-Trimethoxybenzene
- Vinyl Chloride
- Naphthalene
- 1,2-Dibromoethane
- Carbon Tetrachloride
- Formaldehyde
- Chloromethane
- Trichloroethylene
- Benzene
- Chloroform
- Toluene
- Trichlorofluoromethane
- Ethylbenzene
- Tetrachloroethane
- n-p-Xylene
- o-Xylene
- MTBE
- 1,2,4-Trimethoxybenzene
- 1,3,5-Trimethoxybenzene
- p-Isopropyltoluene

Sub-Subsistence

- # Benzene
- Toluene
- Naphthalene
- Styrene
- Chloroform
- Benzene
- Ethylbenzene
- Tetrachloroethylene
- Formaldehyde
- Chloroform
- Toluene
- Methylene Chloride
- 1,2,4-Trimethoxybenzene
- 1,2,5-Trimethoxybenzene
- MTBE
- m-p-Xylene
- o-Xylene
- Benzene
- Chloroform
- Tetrachloroethylene
- Ethylbenzene
- Chloromethane
- 1,2-Dichloroethane
- Trichloroethylene
- Trichlorofluoromethane
- Carbon Tetrachloride
- Methylene chloride

GROUNDWATER

- Acetone
- Benzene
- Bromodichloromethane
- Bromomethane
- 2-butanone
- Chloroethane
- Chloroform
- Chloromethane
- 1,1-dichloroethane
- Isopropanol
- Toluene
- 2,2-dichloropropane
- Methylene chloride
- Vinyl-acetate
- Iodomethane

- Ethanol
- Tert-butyl alcohol
- Acetonitrile
- 1,4-dioxane
- Formaldehyde
- Tetrahydrofuran
- cyclohexane
- Methyl methacrylate
- Acrylonitrile

Park Testing

In the report the Testing Firm commented on finding a "blackish stain at 1.2 feet with a "hydrocarbon odor in ambient air." "The origin of the blackish stain is unknown".

- Bromobenzene
- Bromochloromethane
- Bromodichloromethane
- Bromoform
- Bromomethane
- c-1,2-Dichloroethane
- o-1,3-Dichloropropene
- Vinyl Chloride
- Carbon tetrachloride
- Styrene
- Toluene
- Hexavalent Chromium
- # Arsenic
- Lead
- Dioxin
- Chloroform
- Ethylbenzene
- Dibromomethane
- MTBE
- Benzene
- Tetrachloroethene (PCE)
- Naphthalene
- Trichloroethene (TCE)
- Methylene chloride
- 1,2-Dibromoethane
- LTBE
- Bis (2-Ethylhexyl) phthalate

and many more industrial and agricultural chemicals!

