

**JANUARY 2014 GROUNDWATER SAMPLING REPORT
CHARLOTTE AIRCRAFT CORPORATION
7705 EAST W.T. HARRIS BOULEVARD
CHARLOTTE, NORTH CAROLINA
IHSB #NONCD0001478, FORMER APS #19258**

Prepared for:

Charlotte Aircraft Corporation
7705 East W.T. Harris Boulevard
Charlotte, North Carolina 28227

Prepared by:

Mid-Atlantic Associates, Inc.
409 Rogers View Court
Raleigh, North Carolina 27610

Mid-Atlantic Project No. R2143.03

Report Reproduced May 21, 2015



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MID-ATLANTIC ASSOCIATES, INC.

Robert D. Hill, P.E.
Principal Engineer

Sean Gallagher
Environmental Scientist

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1.0 INTRODUCTION

The Charlotte Aircraft Corporation site is situated on three adjoining tracts of property comprising a total area of approximately 28 acres. The site is located at 7705 East W. T. Harris Boulevard in Charlotte, North Carolina; approximately 0.8 miles north of Albemarle Road (Highway 24/27). The site contains numerous structures consisting of warehouses, workshops, storage buildings, storage sheds, outdoor storage racks, and offices.

Charlotte Aircraft Corporation has operated at this facility since between 1952 and 1953 as an aircraft salvage operation and wholesale parts distributor. The Charlotte Aircraft site is part of an original 43 acre tract formerly known as "Delta Airbase." Prior to 1952, Delta Airbase was used by United Aero Service as a flight training school and aircraft maintenance facility.

2.0 GROUNDWATER MONITORING PROGRAM

This groundwater monitoring report documents the results of monitoring conducted as requested by NCDENR via letter to Charlotte Aircraft dated December 23, 2011. As recommended in the NCDENR correspondence, monitoring wells RW1, MW1, DMW1, DMW2, DMW3, DMW4, MW5, MW8, MW9, MW12, MW17A, MW21 and MW22, located as shown on Drawing 1, were selected for the monitoring program to assess the success of the source removal action and the ability of natural attenuation processes to reduce groundwater concentrations over time.

In accordance with NCDENR's correspondence to Charlotte Aircraft, the following information is included in this sampling report:

- Water level measurements were collected from all monitoring wells associated with the Charlotte Aircraft site; and
- Groundwater level contours and isoconcentration contours have been contoured separately for the deep and shallow wells.

3.0 GROUNDWATER MONITORING AND SAMPLING SUMMARY

Indicated monitoring wells were sampled on January 27 and 28, 2014 by Mid-Atlantic personnel. Groundwater levels were recorded in all wells associated with the site. Field monitoring data was collected from all wells sampled at the time of sampling. Field monitoring data included depth to water, well volume, evacuated volume, temperature,

pH, specific conductance, oxidation-reduction potential, and dissolved oxygen. Field monitoring parameters are summarized in Table 1. Groundwater levels measured during this monitoring event are summarized in Table 2. Shallow and deep well groundwater surface contour maps are indicated on Drawings 2 and 3.

All groundwater samples were submitted to Con-Test Analytical Laboratory in East Charlotte, North Carolina for analysis by Method SM 6200B. Analytical results are summarized in Table 3. Isoconcentration contour maps for TCE, PCE, and cis-1,2 Dichloroethene are presented on Drawings 4, 5, and 6, respectively. Historical changes in TCE and PCE concentrations are indicated in Table 4 and presented graphically for certain wells on Drawings 7 through 18.

4.0 SHALLOW GROUNDWATER MONITORING WELLS

TCE and PCE concentrations were relatively stable in the shallow groundwater monitoring wells sampled relative to the last sampling event in January 2012. The TCE concentration in the most hydraulically downgradient shallow well, MW-22, exhibited a decrease in TCE concentration from 3.56 ug/L to 0.84 ug/L, which is now below its groundwater quality standard of 3.0 ug/L. Cis-1,2 Dichloroethene, a by-product of TCE biodegradation, continues to remain elevated in the sample from shallow well MW12 at 2,100 ug/L.

5.0 DEEP GROUNDWATER MONITORING WELLS

TCE and PCE concentrations remained generally stable in all deep monitoring wells with the exception of a significant increase in both TCE and PCE concentrations detected in the sample collected from RW1, where the TCE concentration increased from 336 ug/L during the January 2012 sampling event to 18,000 ug/L in the January 2014 sampling event and the PCE concentration increased from None Detected during the January 2012 sampling event to 44 J ug/L in the January 2014 sampling event.

Cis-1,2 Dichloroethene, a by-product of TCE biodegradation, continues to remain elevated in deep well DMW2 at 9,000 ug/L. Comparisons of cis-1,2 Dichloroethene and TCE concentrations in shallow wells MW12 and MW5 are represented graphically in Drawings 17 and 18. Other Method SM 6200B analytes detected in excess of NCDENR Water Limits are indicated by shading in Table 3. Not all Method SM 6200B analytes are listed in Table 3.

Trends

TCE concentrations continue to trend slightly downward in MW12 (Drawing 14), and in MW9 (Drawing 16). TCE concentrations have significantly decreased in MW5 (Drawing 15).

PCE concentration continues to trend downward in MW9 (Drawing 18).

TCE concentration trends in deep monitoring wells RW1, DMW2, DMW3 and DMW4 are indicated in Drawings 10 through 13, respectively.

REPRODUCTION

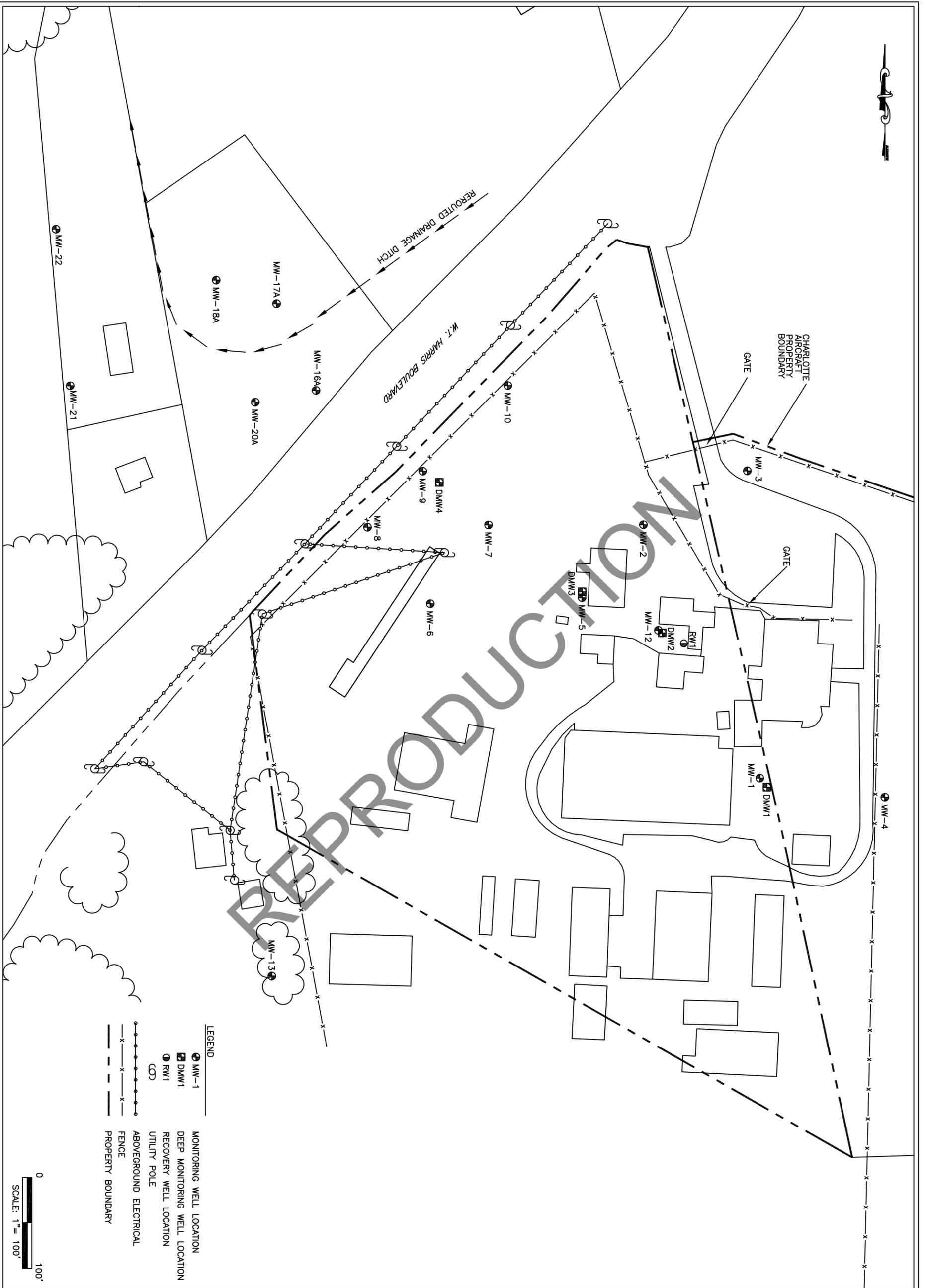


REPRODUCTION

DRAWINGS



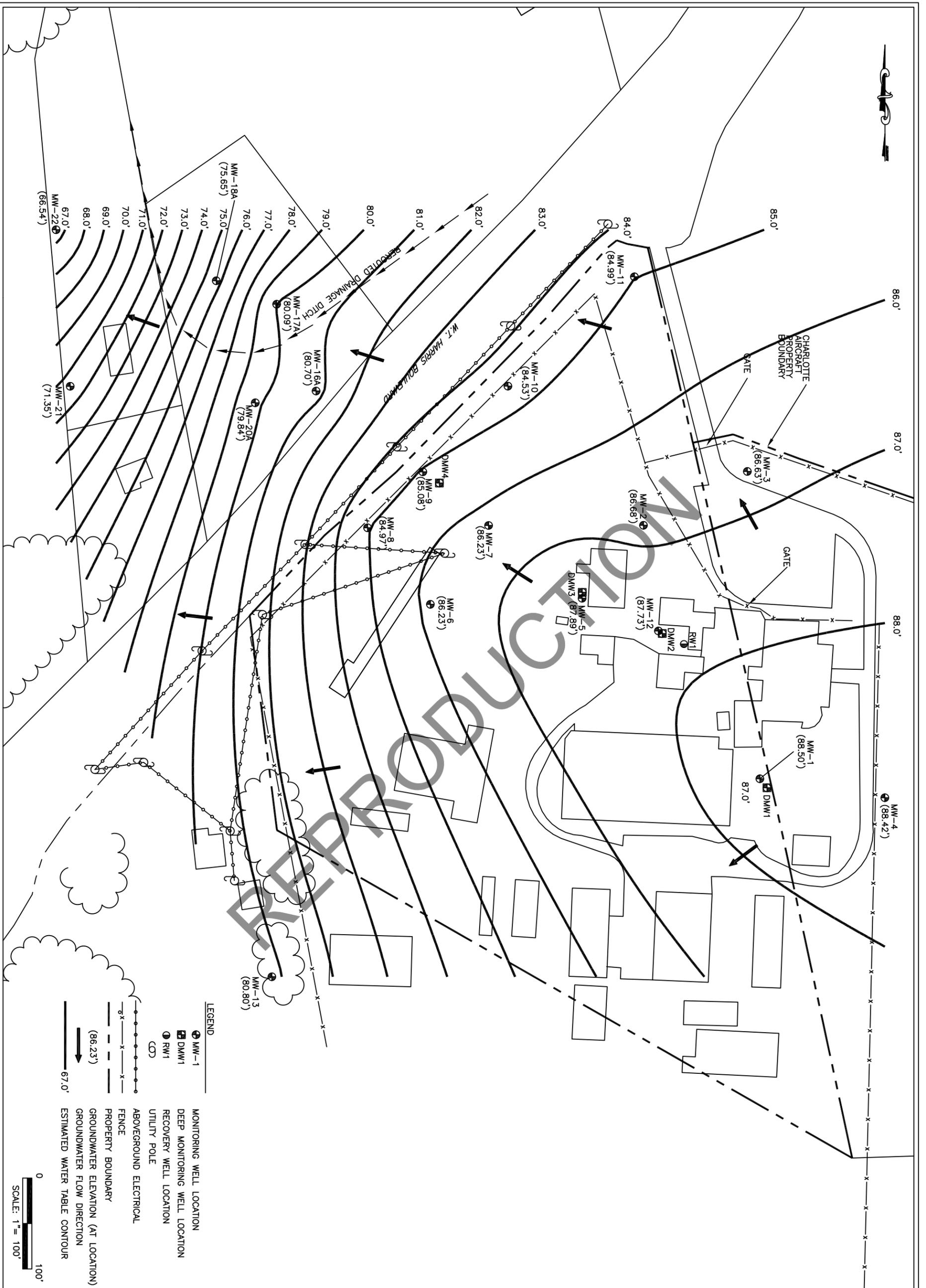
Mid Atlantic
Engineering & Environmental Solutions



SITE AND
 MONITORING WELL LOCATION MAP
 CHARLOTTE AIRCRAFT CORPORATION
 7705 EAST WT HARRIS BOULEVARD
 CHARLOTTE, NORTH CAROLINA

DRAWN BY:	DATE: MARCH 2014
DRAFTING CHECK BY:	JOB NO: 000R2143.03
ENGINEER CHECK BY:	CAD # 01-214301-03
APPROVED BY:	DWG NO: 1

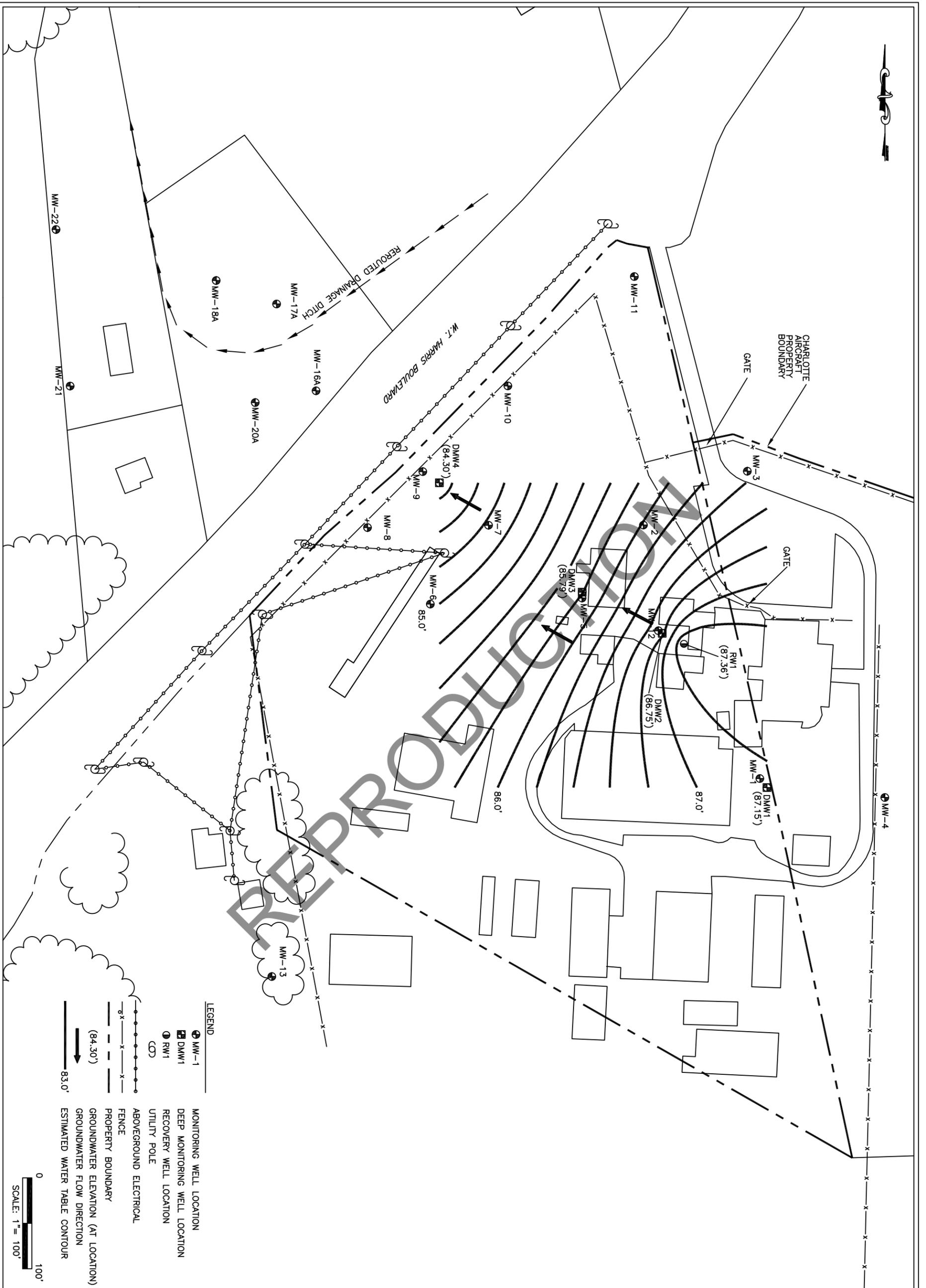
REFERENCE: BASED ON NEW VISION ENVIRONMENTAL SEMI-ANNUAL MONITORING REPORT DATED AUGUST 2009.



SHALLOW GROUNDWATER
 CONTOUR MAP
 JANUARY 27, 2014
 CHARLOTTE AIRCRAFT CORPORATION
 7705 EAST WT HARRIS BOULEVARD
 CHARLOTTE, NORTH CAROLINA

DRAWN BY:	DATE: MARCH 2014
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ENGINEER CHECK BY:	CAD # 01-214302-03
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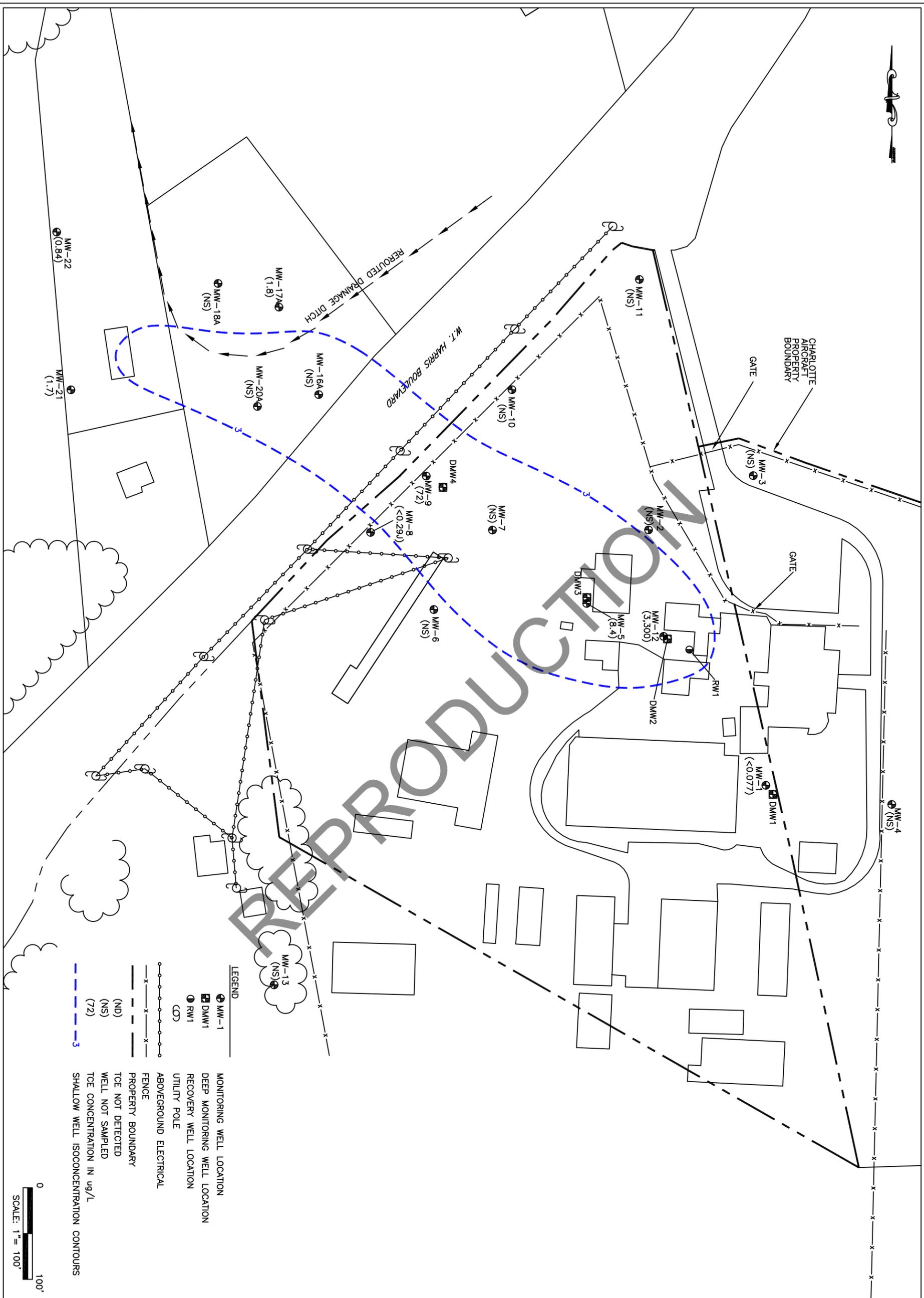


DEEP GROUNDWATER
 CONTOUR MAP
 JANUARY 27, 2014
 CHARLOTTE AIRCRAFT CORPORATION
 7705 EAST WT HARRIS BOULEVARD
 CHARLOTTE, NORTH CAROLINA

DRAWN BY: 	DATE: MARCH 2014
DRAFTING CHECK BY:	JOB NO: 000R2143.03
ENGINEER CHECK BY:	CAD # 01-214303-03
APPROVED BY:	DWG NO: 3



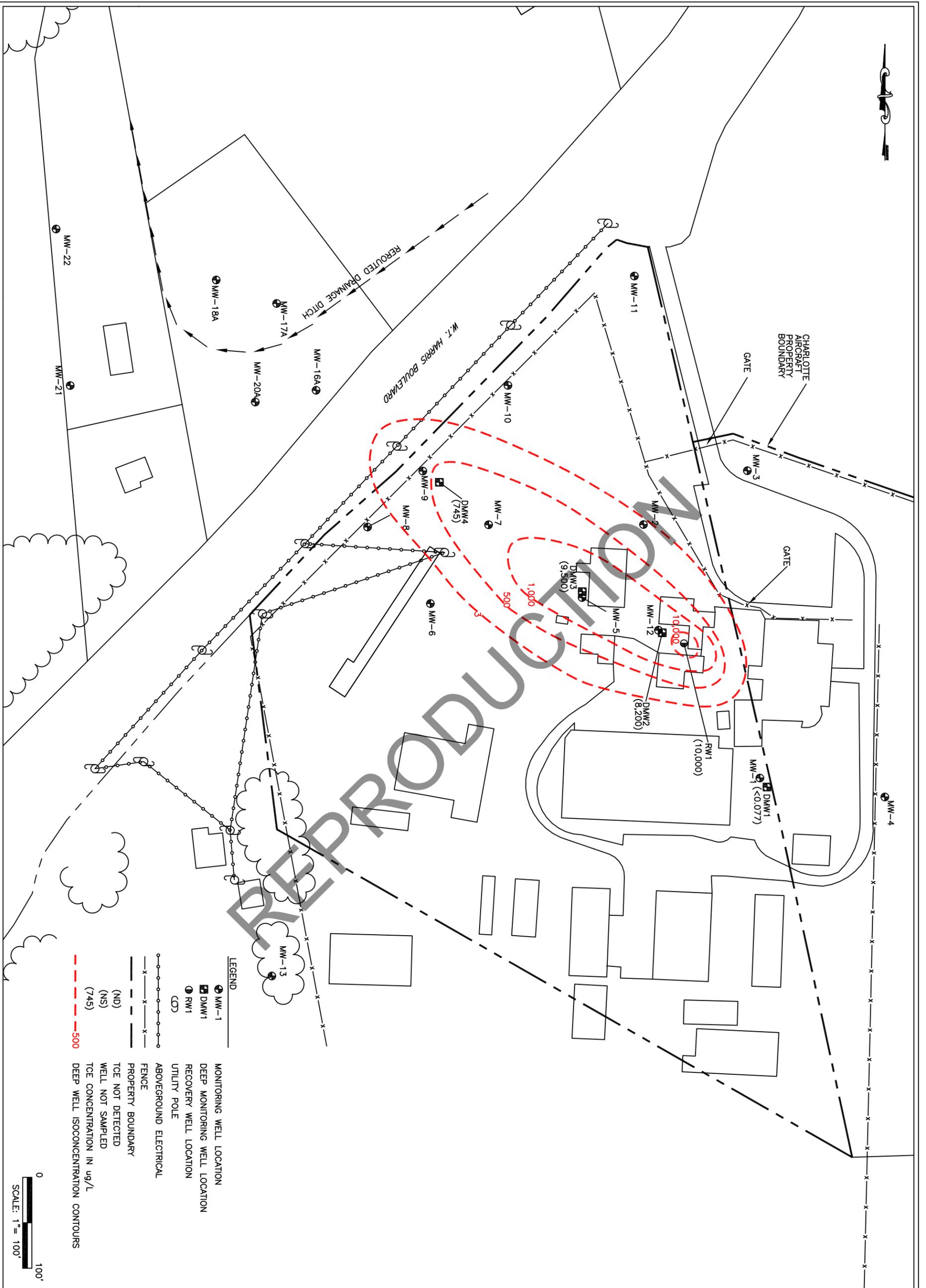
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TCE ISOCONCENTRATION
 SHALLOW WELL CONTOUR MAP
 CHARLOTTE AIRCRAFT CORPORATION
 7705 EAST WT HARRIS BOULEVARD
 CHARLOTTE, NORTH CAROLINA

DRAWN BY:	DATE: MARCH 2014
DRAFTING CHECK BY:	JOB NO: 000R2143.03
ENGINEER CHECK BY:	CAD # 01-214304-03
APPROVED BY:	DWG NO: 4

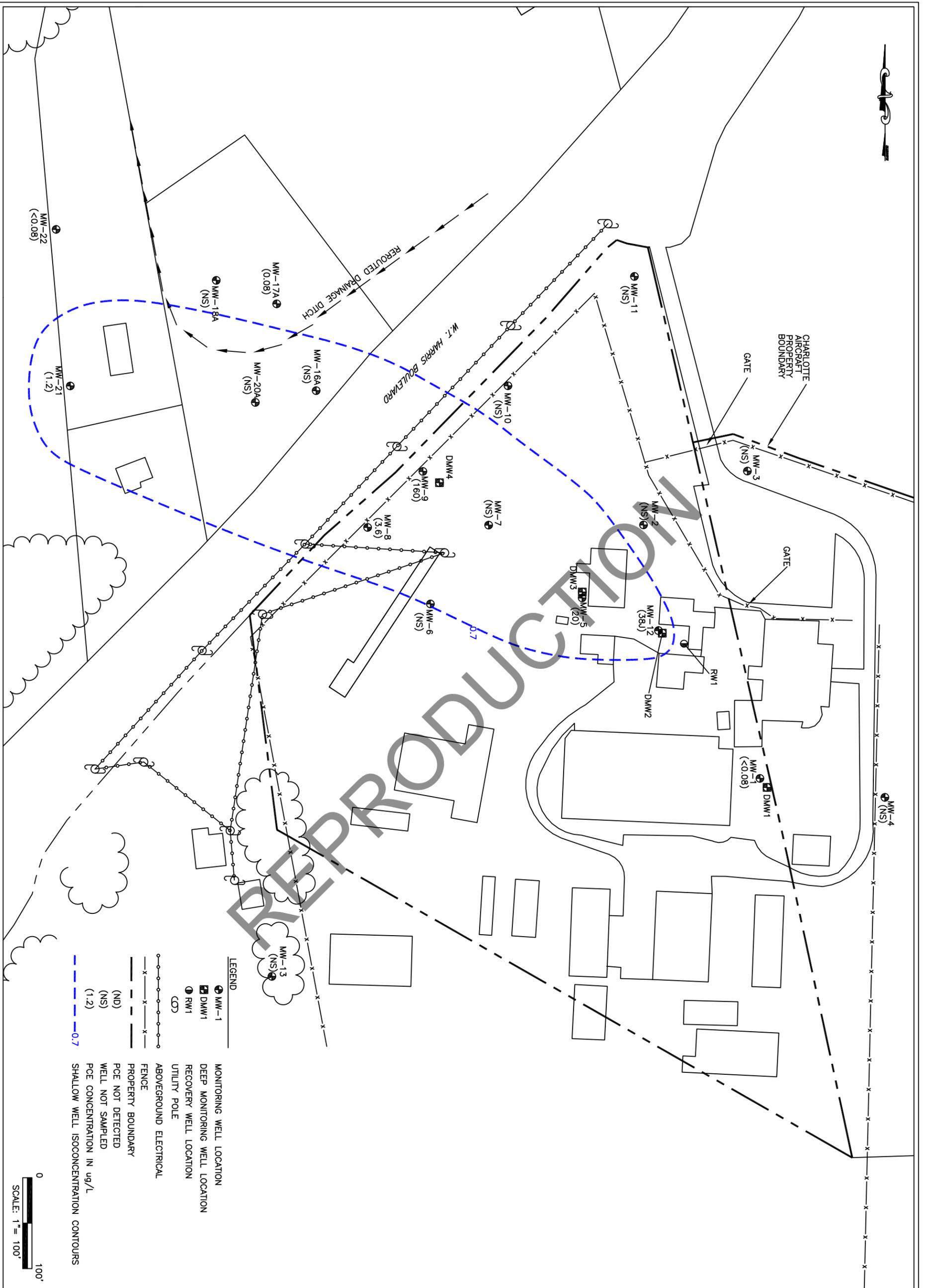
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TCE ISOCONCENTRATION
DEEP WELL CONTOUR MAP
CHARLOTTE AIRCRAFT CORPORATION
7705 EAST WT HARRIS BOULEVARD
CHARLOTTE, NORTH CAROLINA

DRAWN BY:	DATE: MARCH 2014
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ENGINEER CHECK BY:	CAD # 01-214305-03
APPROVED BY:	DWG NO: 5

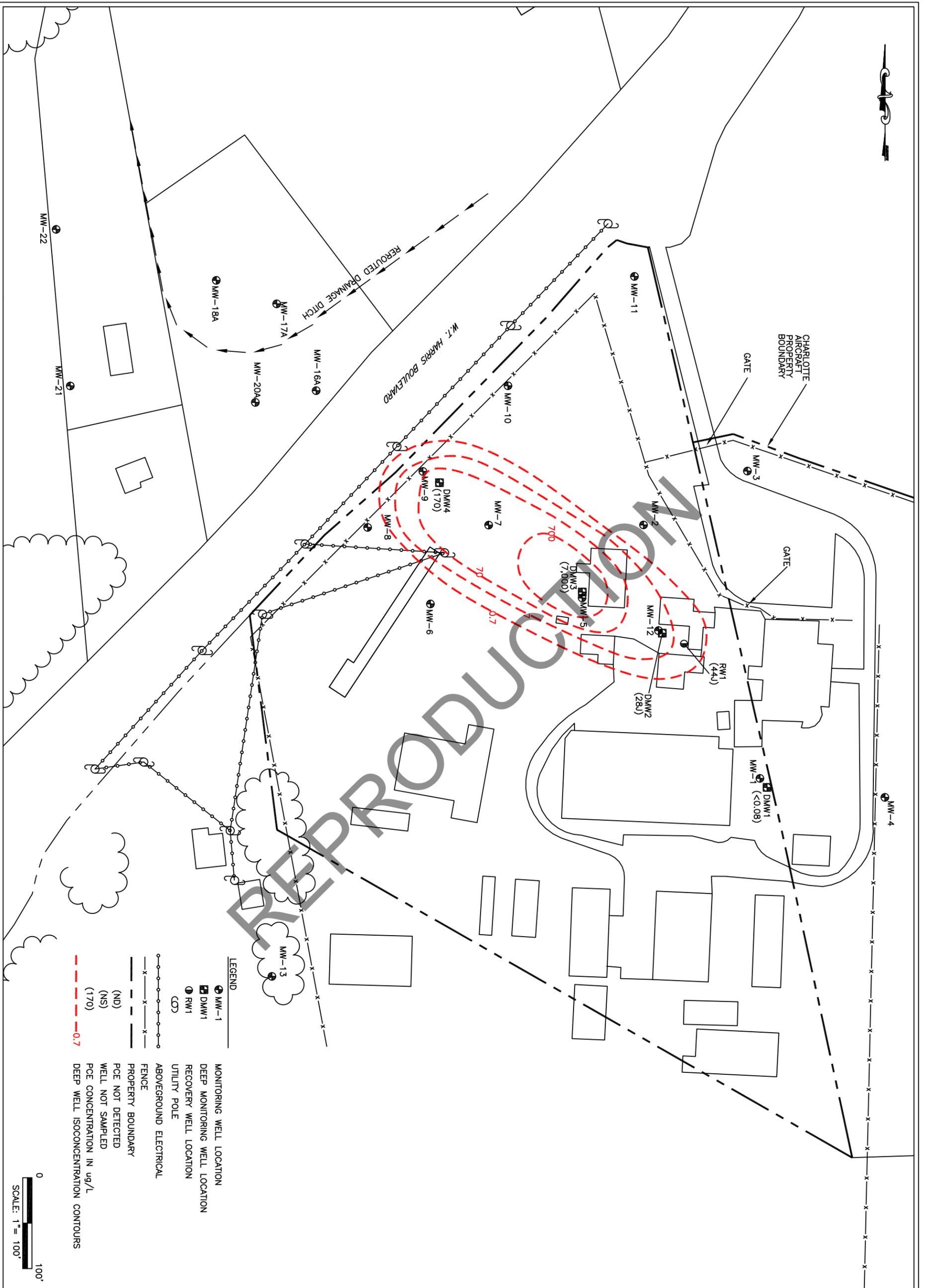
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PCE ISOCONCENTRATION
 SHALLOW WELL CONTOUR MAP
 CHARLOTTE AIRCRAFT CORPORATION
 7705 EAST WT HARRIS BOULEVARD
 CHARLOTTE, NORTH CAROLINA

DRAWN BY:	DATE: MARCH 2014
DRAFTING CHECK BY:	JOB NO: 000R2143.03
ENGINEER CHECK BY:	CAD # 01-214306-03
APPROVED BY:	DWG NO: 6

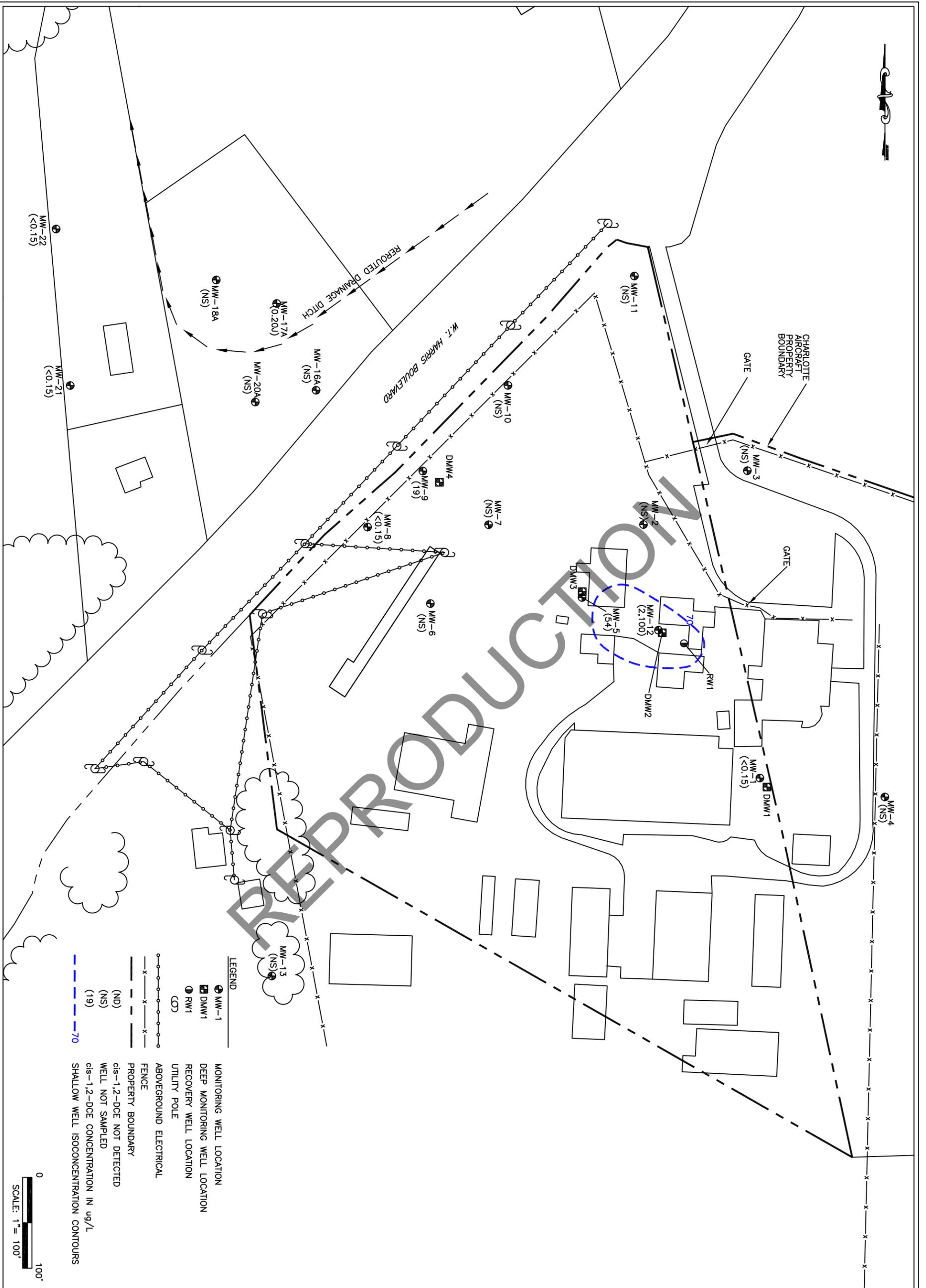
REFERENCE: BASED ON NEW VISION ENVIRONMENTAL SEMI-ANNUAL MONITORING REPORT DATED AUGUST 2009.



PCE ISOCONCENTRATION
DEEP WELL CONTOUR MAP
CHARLOTTE AIRCRAFT CORPORATION
7705 EAST WT HARRIS BOULEVARD
CHARLOTTE, NORTH CAROLINA

DRAWN BY:	DATE: MARCH 2014
DRAFTING CHECK BY:	JOB NO: 000R2143.03
ENGINEER CHECK BY:	CAD # 01-214307-03
APPROVED BY:	DWG NO: 7

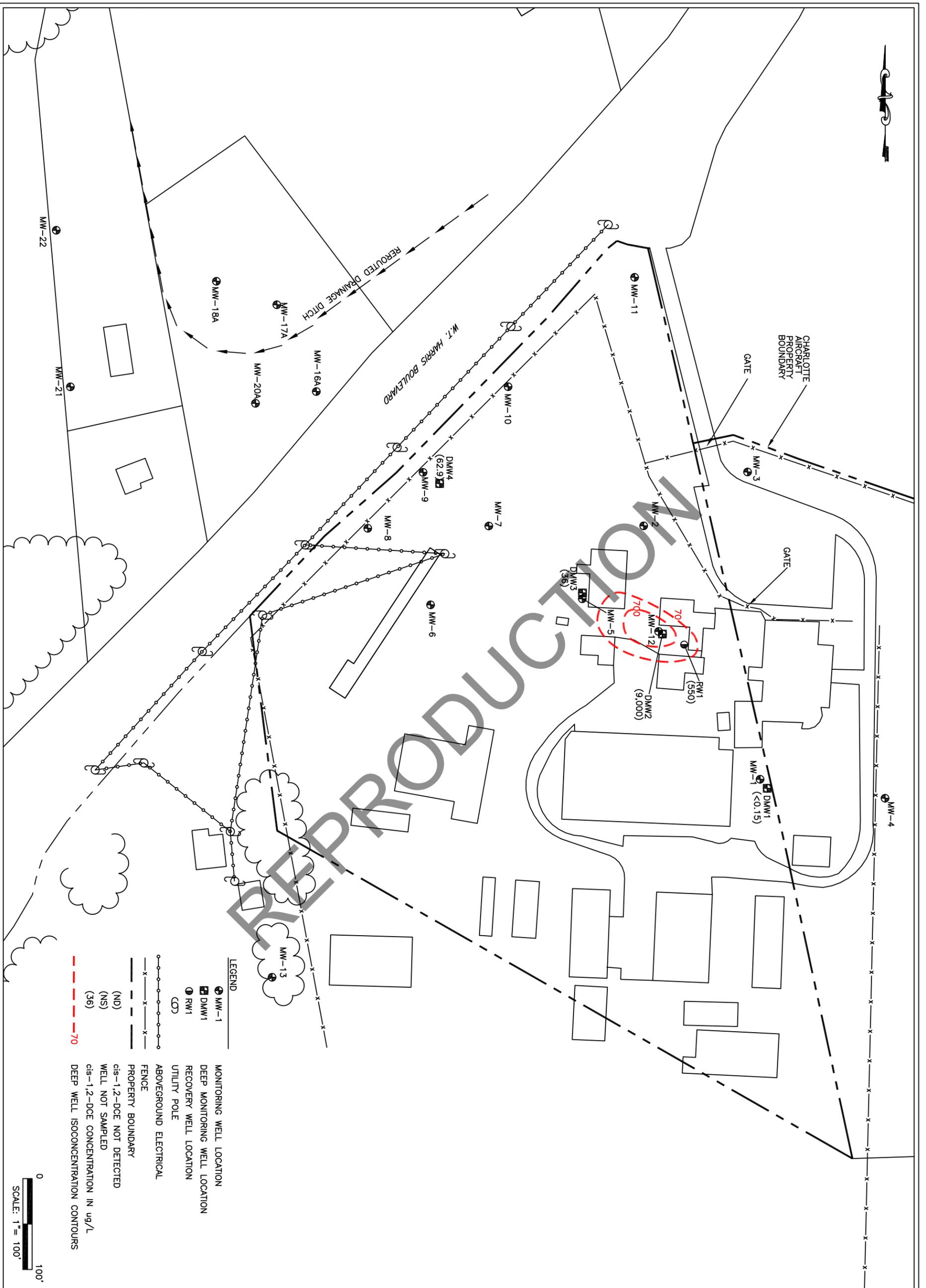
REFERENCE: BASED ON NEW VISION ENVIRONMENTAL SEMI-ANNUAL MONITORING REPORT DATED AUGUST 2009.



cis-1,2-DICHLOROETHENE
 SHALLOW WELL CONTOUR MAP
 CHARLOTTE AIRCRAFT CORPORATION
 7705 EAST WT HARRIS BOULEVARD
 CHARLOTTE, NORTH CAROLINA

DRAWN BY:	DATE: MARCH 2014
DRAFTING CHECK BY:	JOB NO: 000R2143.03
ENGINEER CHECK BY:	CAD # 01-214308-03
APPROVED BY:	DWG NO: 8

REFERENCE: BASED ON NEW VISION ENVIRONMENTAL SEMI-ANNUAL MONITORING REPORT DATED AUGUST 2009.

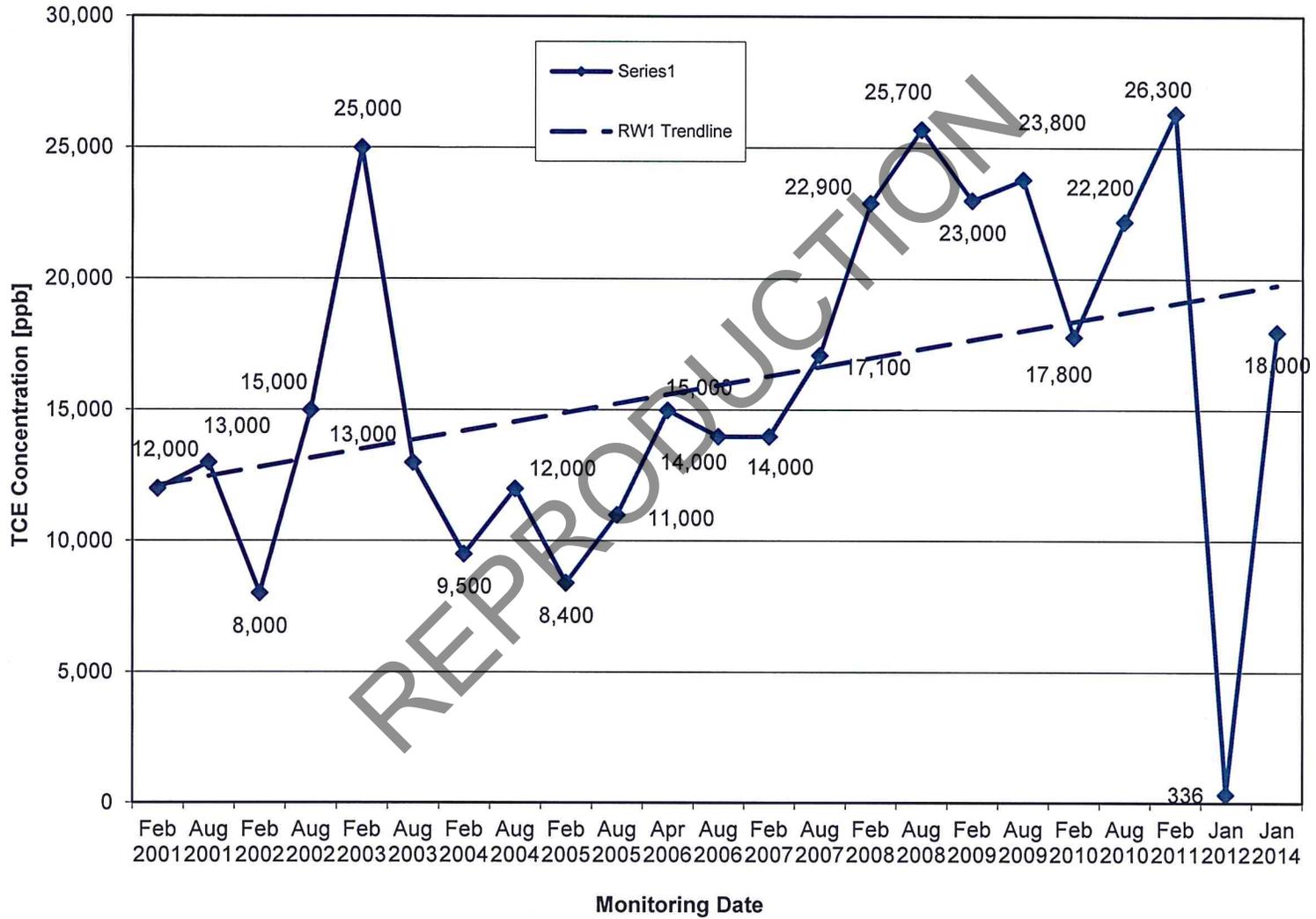


cis-1,2-DICHLOROETHENE
 DEEP WELL CONTOUR MAP
 CHARLOTTE AIRCRAFT CORPORATION
 7705 EAST WT HARRIS BOULEVARD
 CHARLOTTE, NORTH CAROLINA

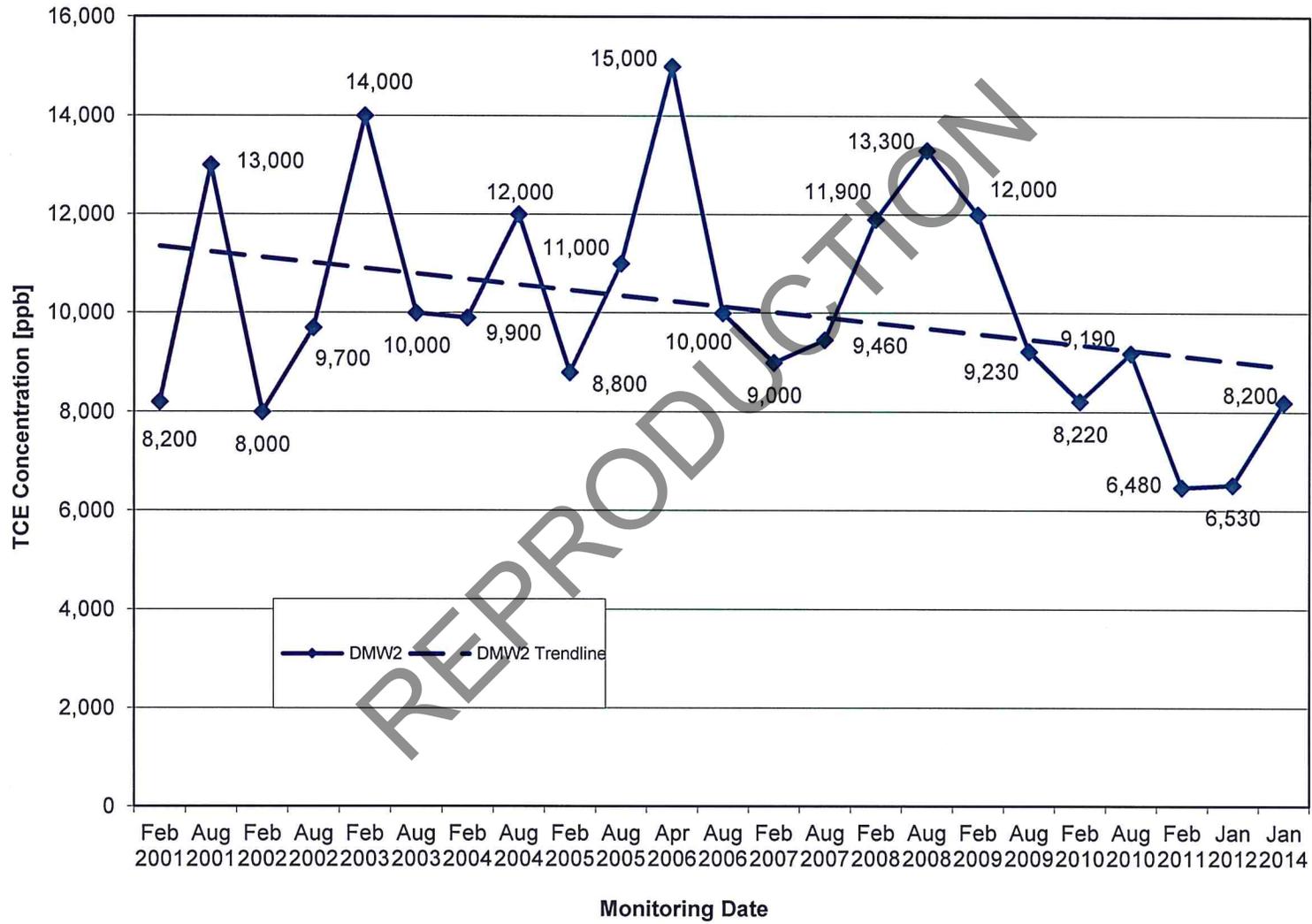
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APPROVED BY:	DWG NO: 9

REFERENCE: BASED ON NEW VISION ENVIRONMENTAL SEMI-ANNUAL MONITORING REPORT DATED AUGUST 2009.

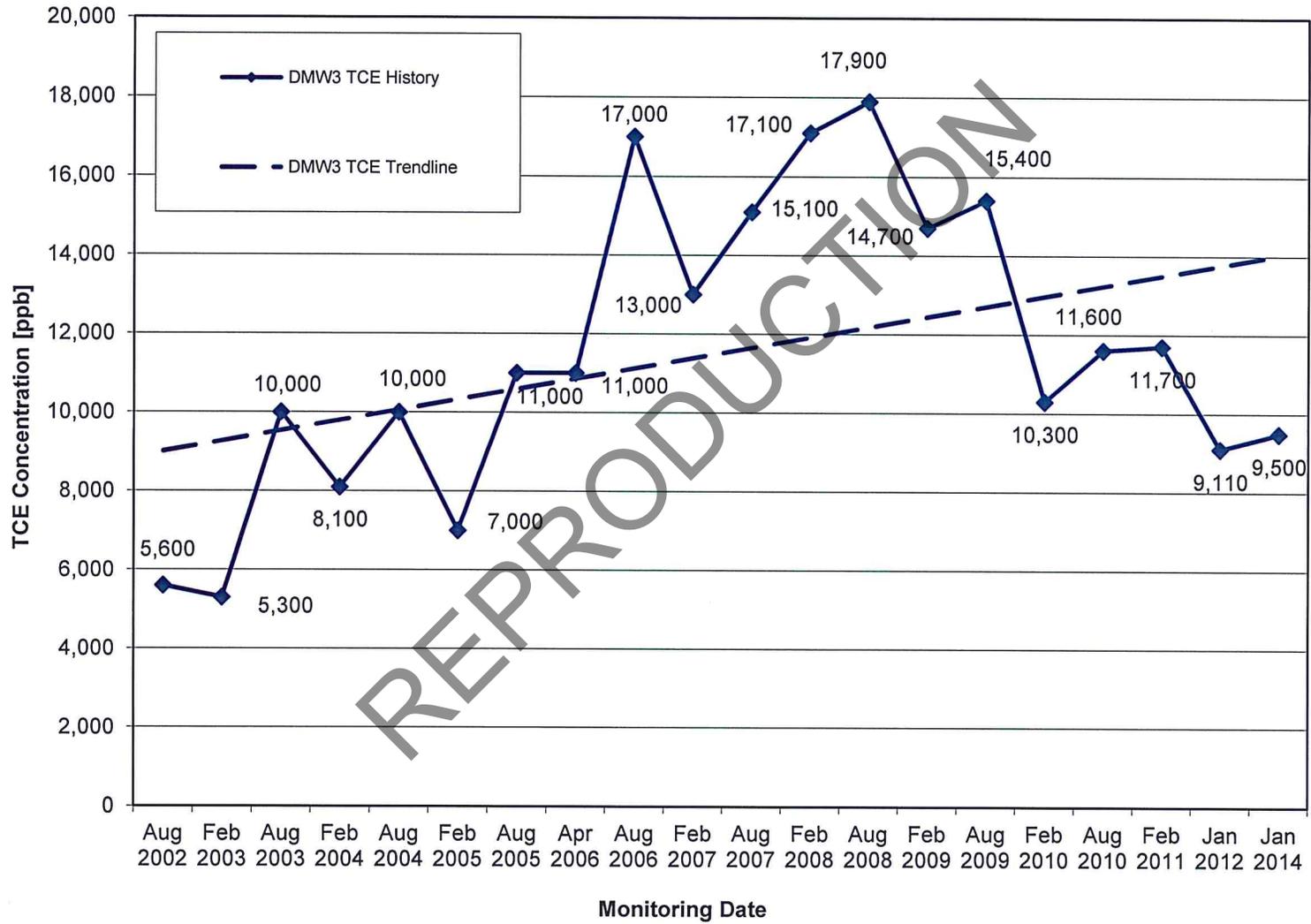
**Drawing 10
RW1 TCE History
Charlotte Aircraft Corporation Site**



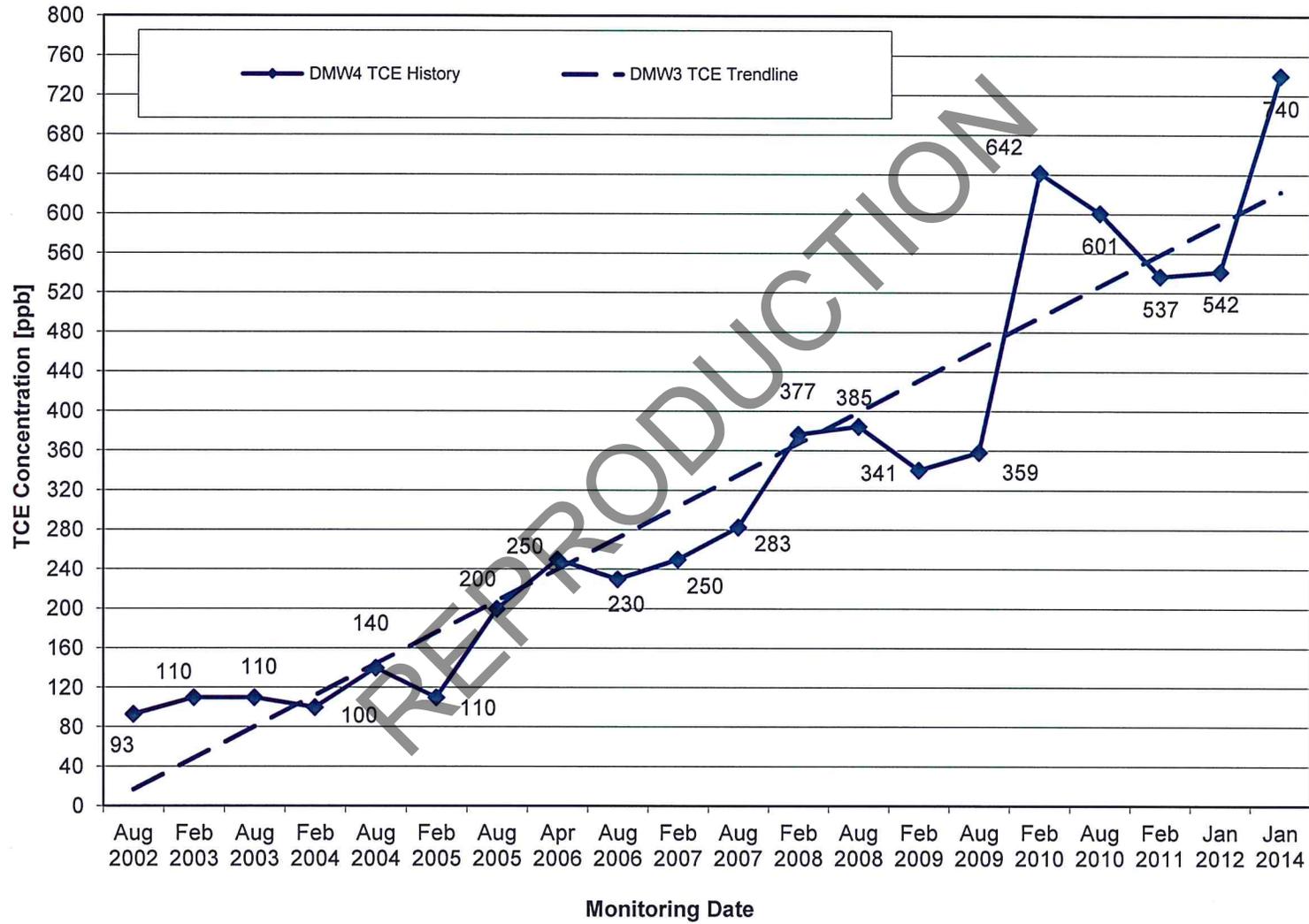
**Drawing 11
DMW2 TCE History
Charlotte Aircraft Corporation Site**



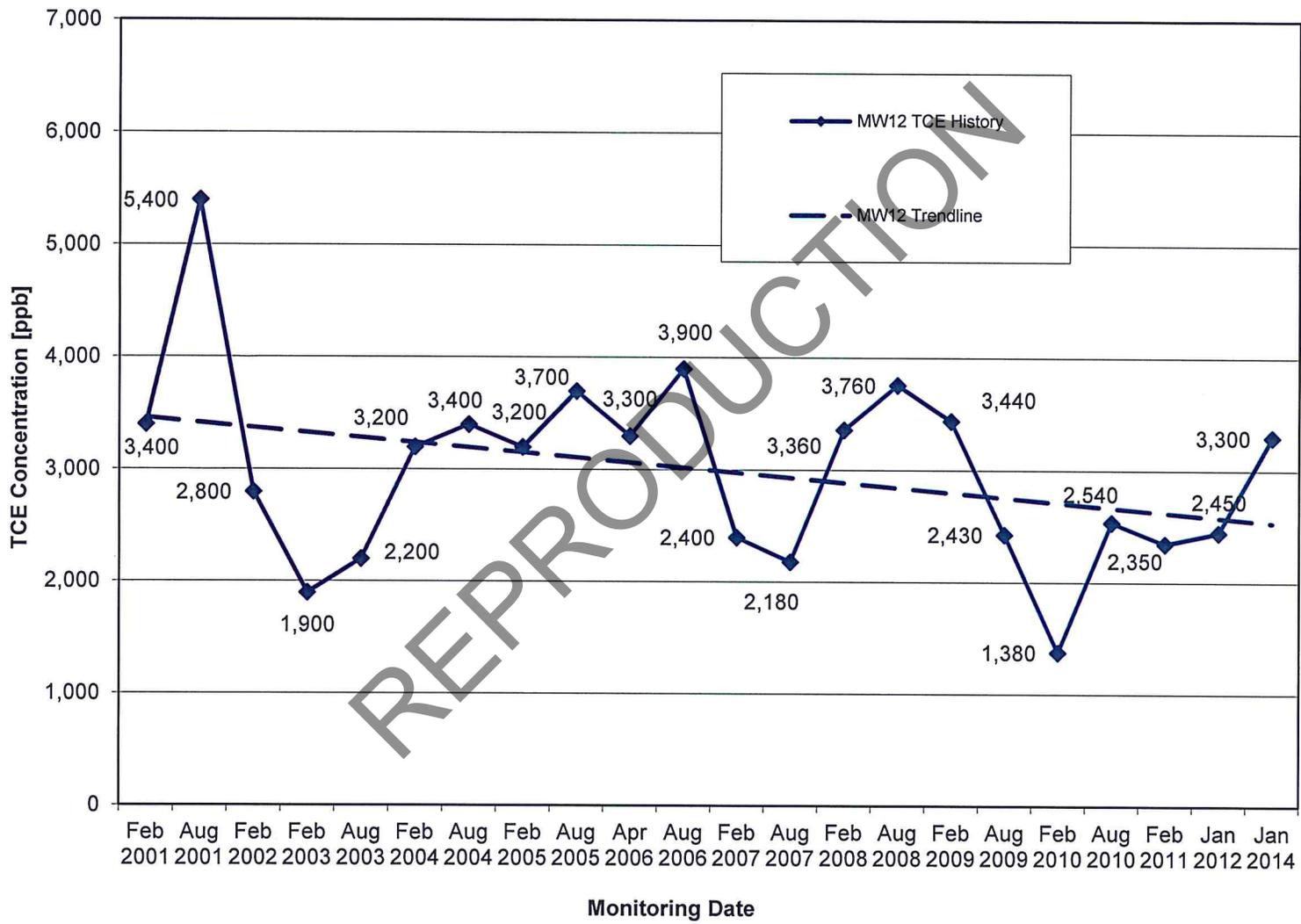
Drawing 12
DMW3 TCE History
Charlotte Aircraft Corporation Site



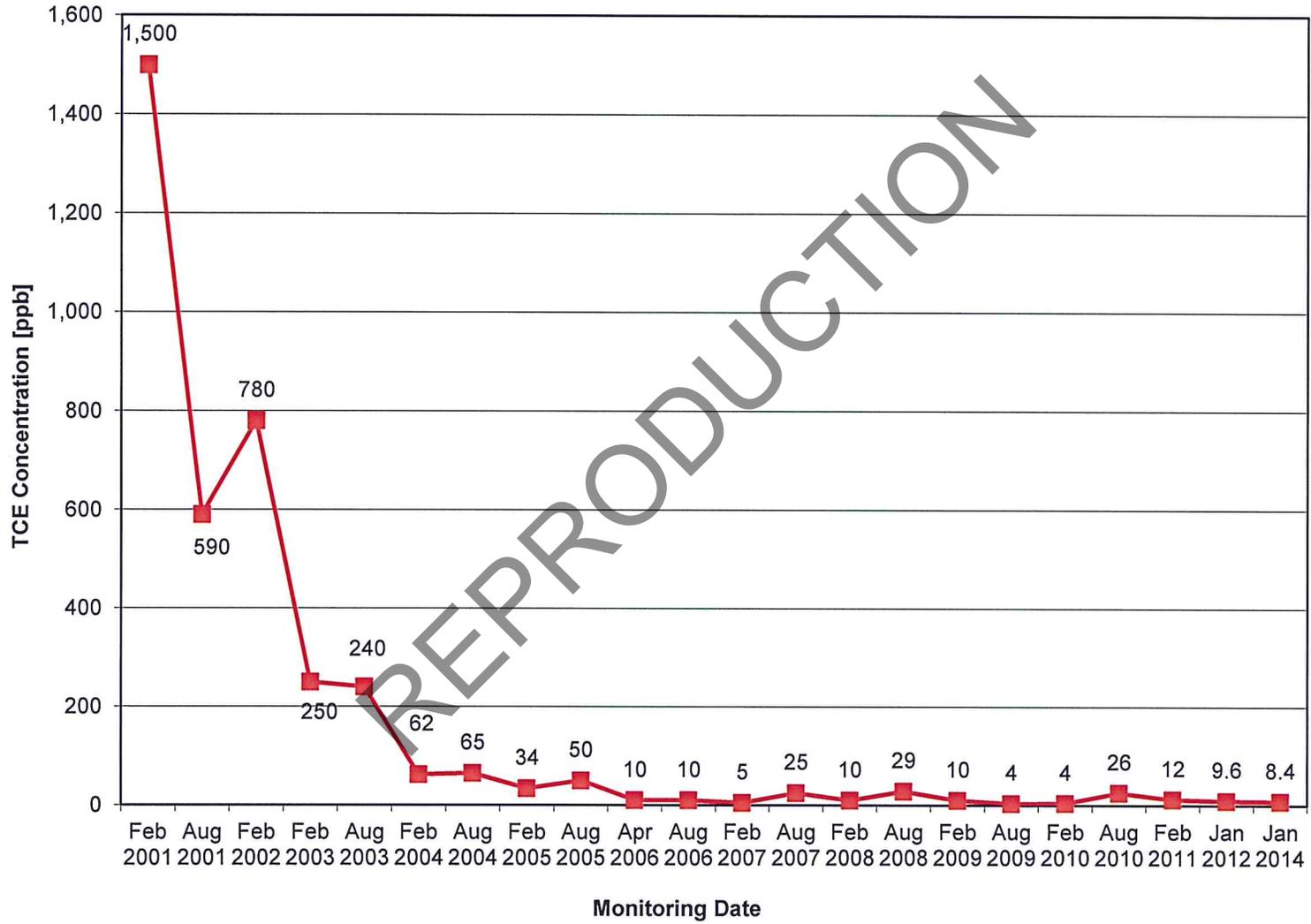
Drawing 13
DMW4 TCE History
Charlotte Aircraft Corporation Site



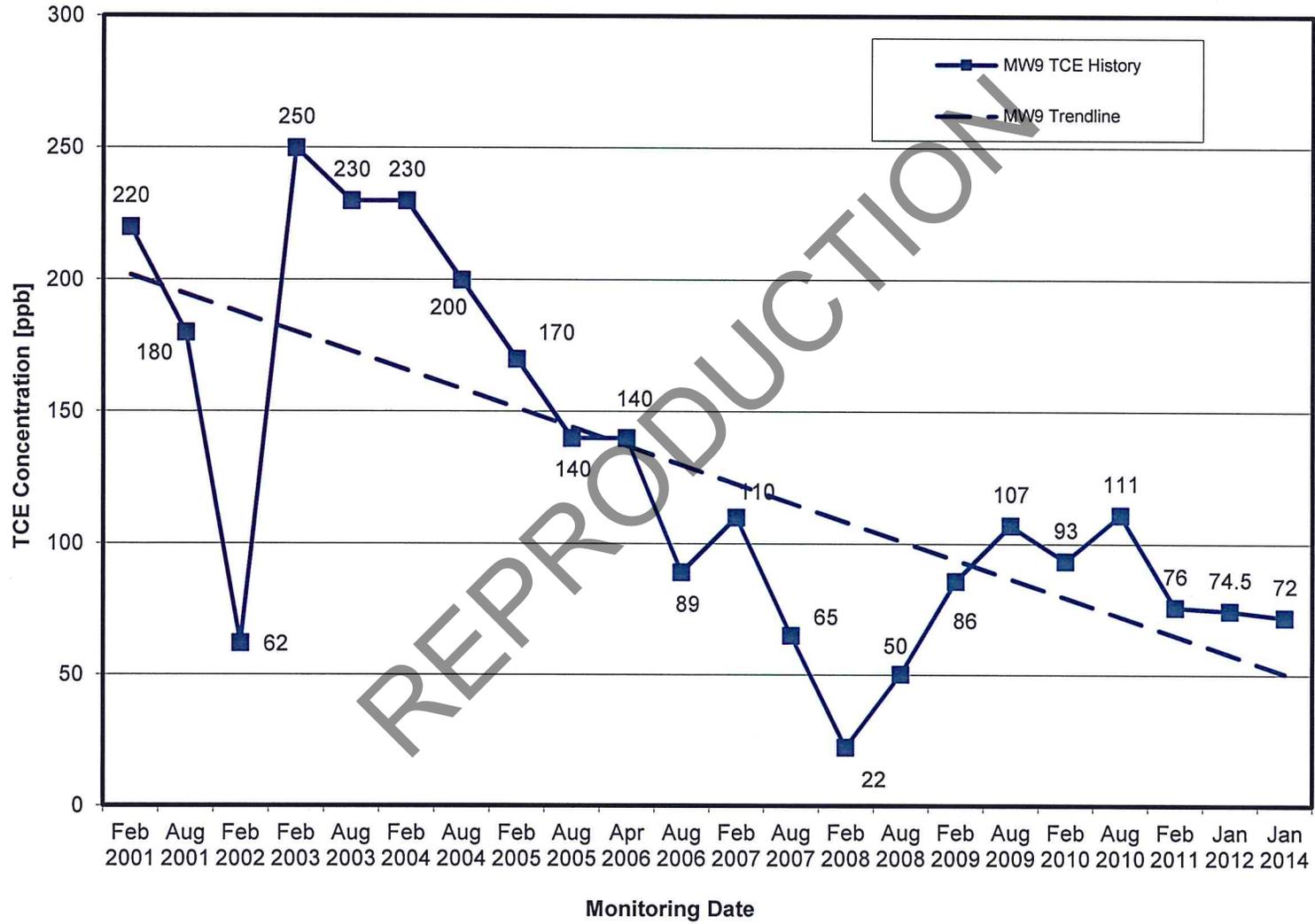
Drawing 14
 MW12 TCE History
 Charlotte Aircraft Corporation Site



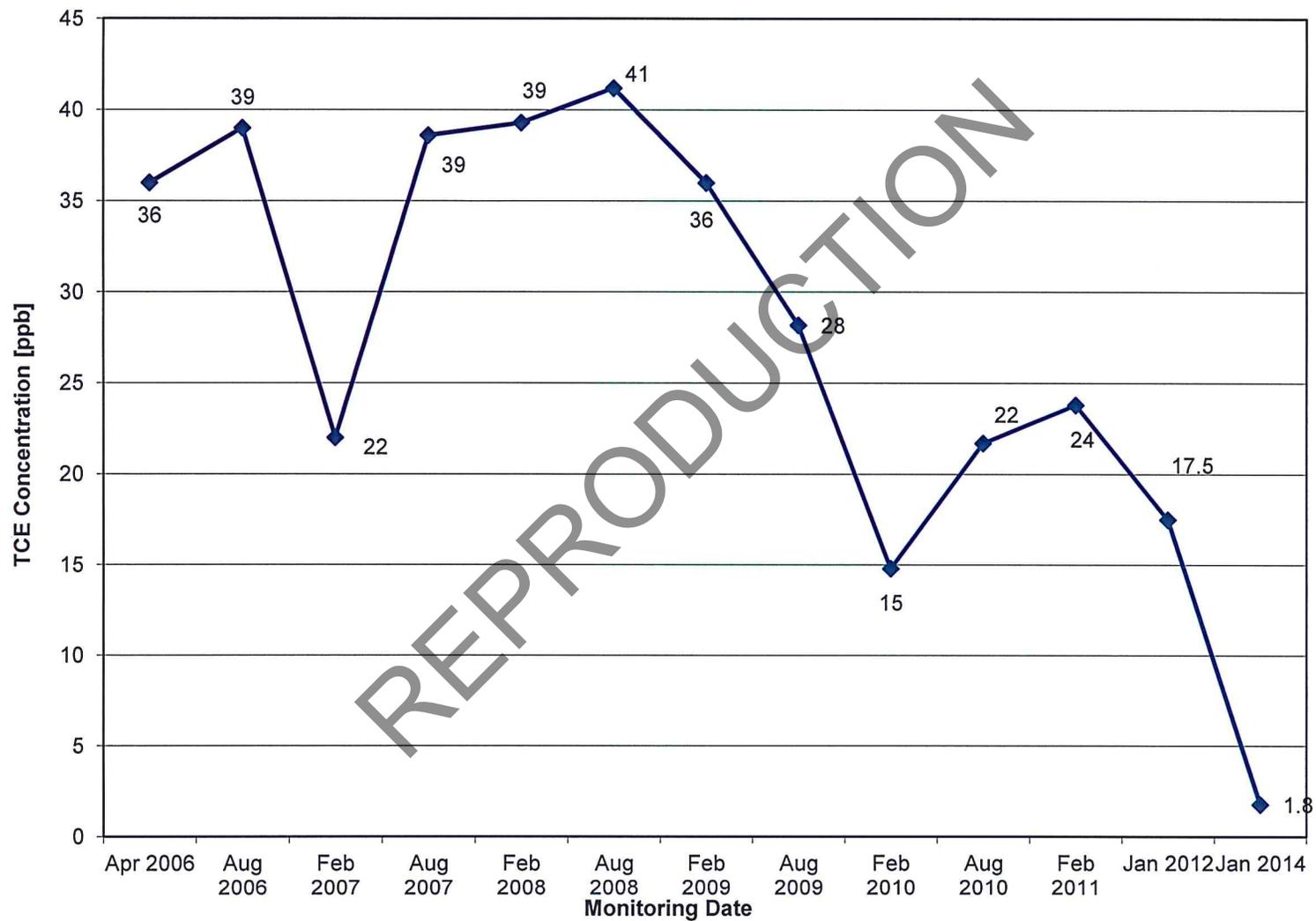
Drawing 15
MW5 TCE History
Charlotte Aircraft Corporation Site



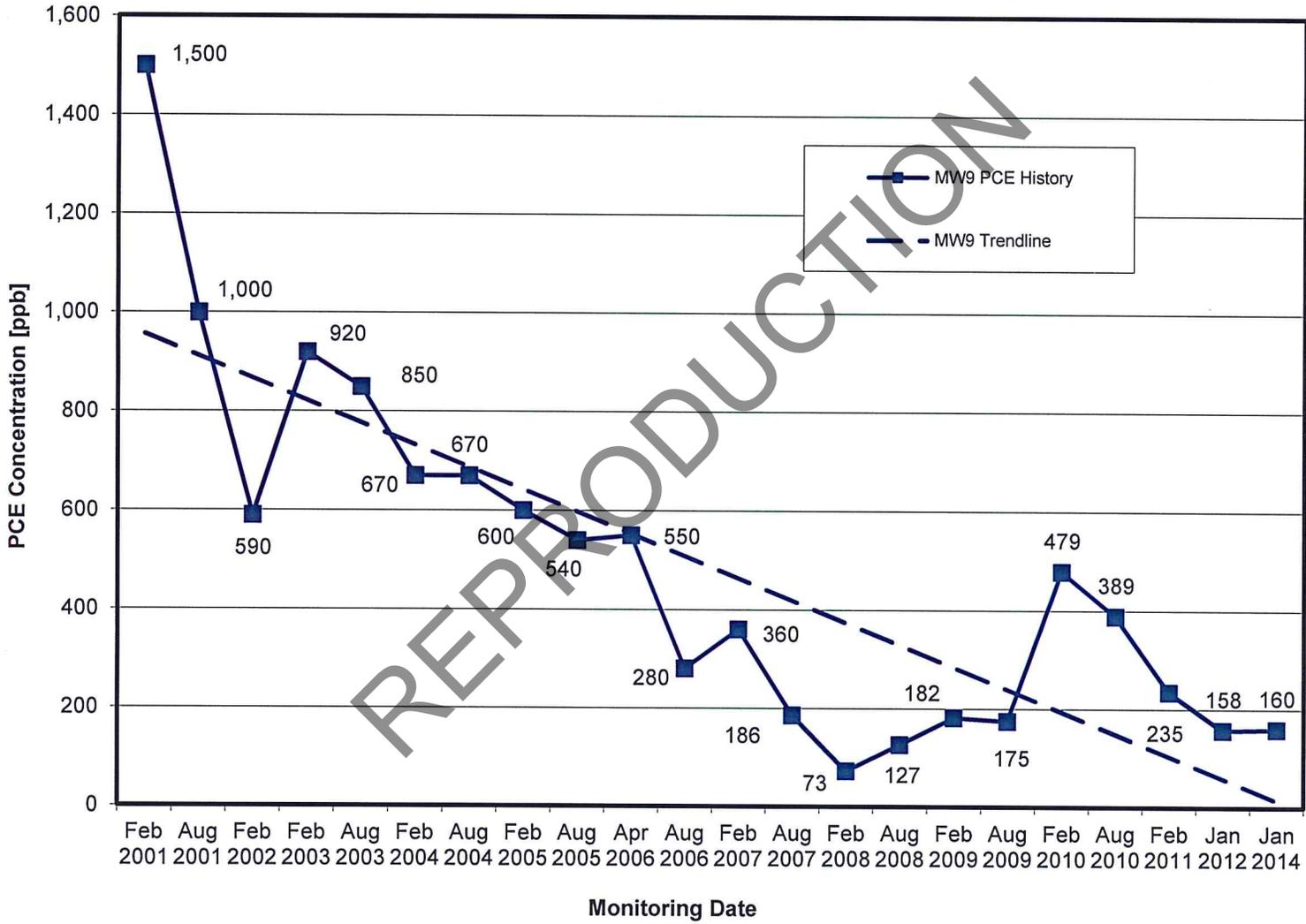
Drawing 16
MW9 TCE History
Charlotte Aircraft Corporation Site



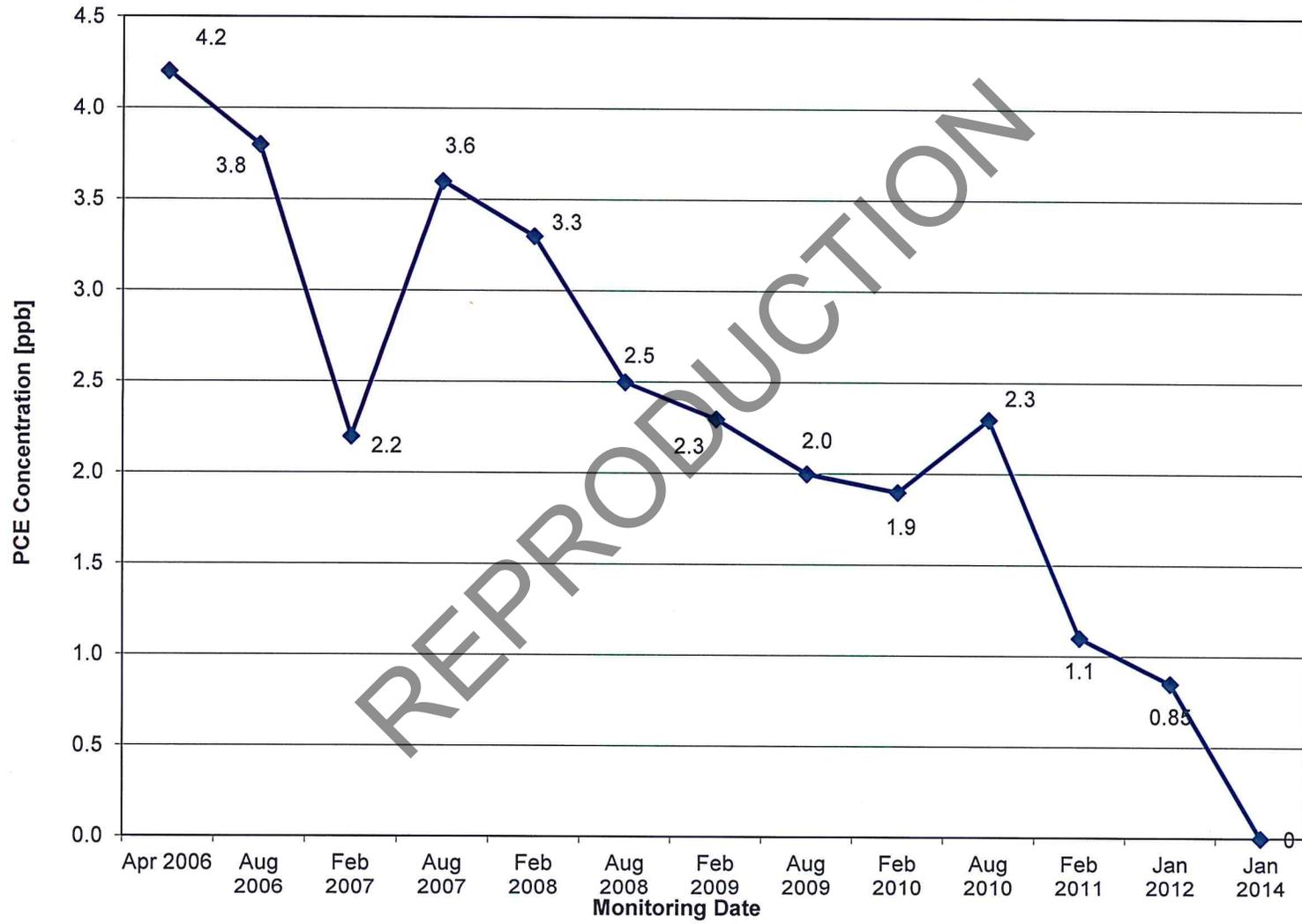
Drawing 17
MW17A TCE History
Charlotte Aircraft Corporation Site



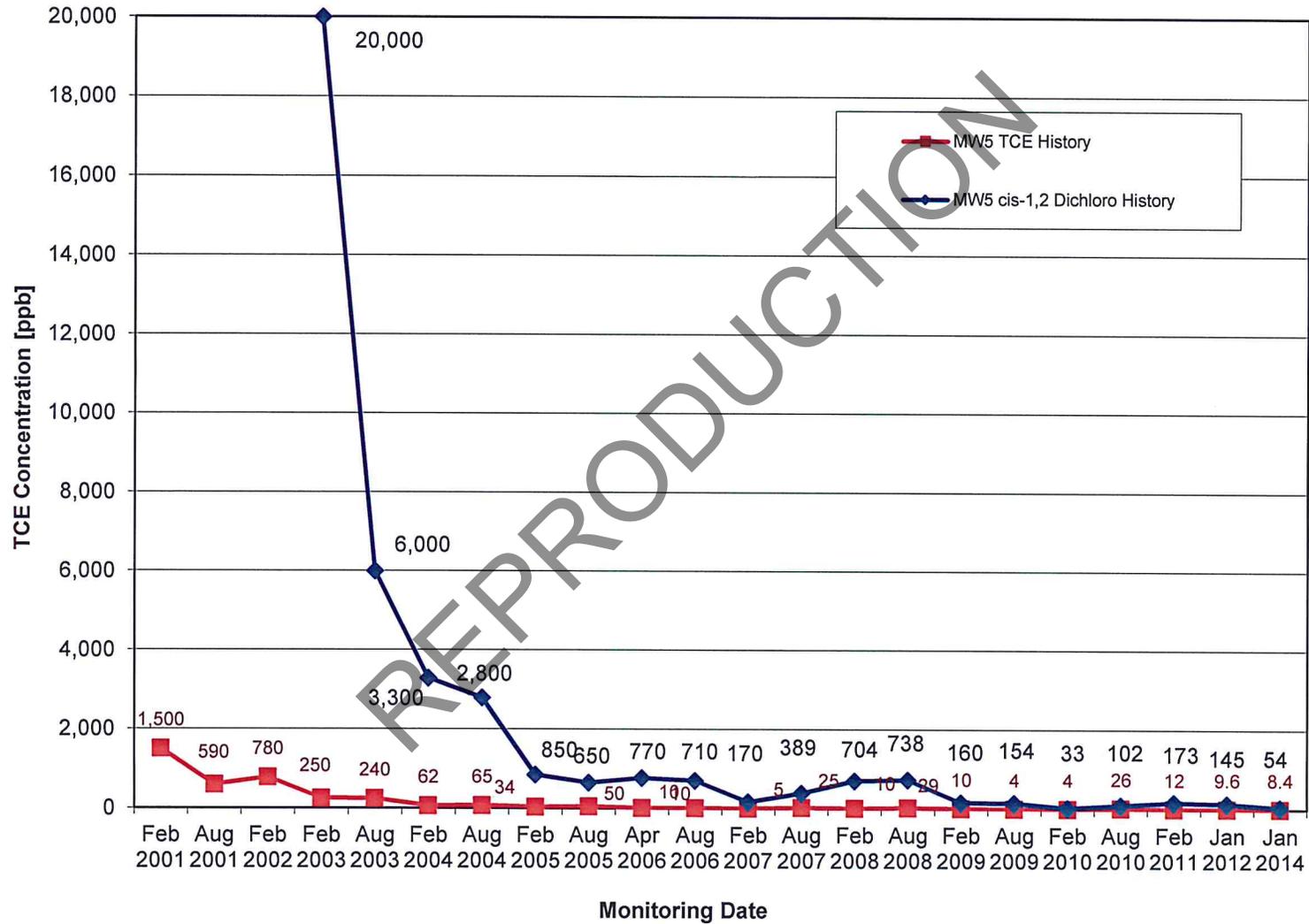
Drawing 18
 MW9 PCE History
 Charlotte Aircraft Corporation Site



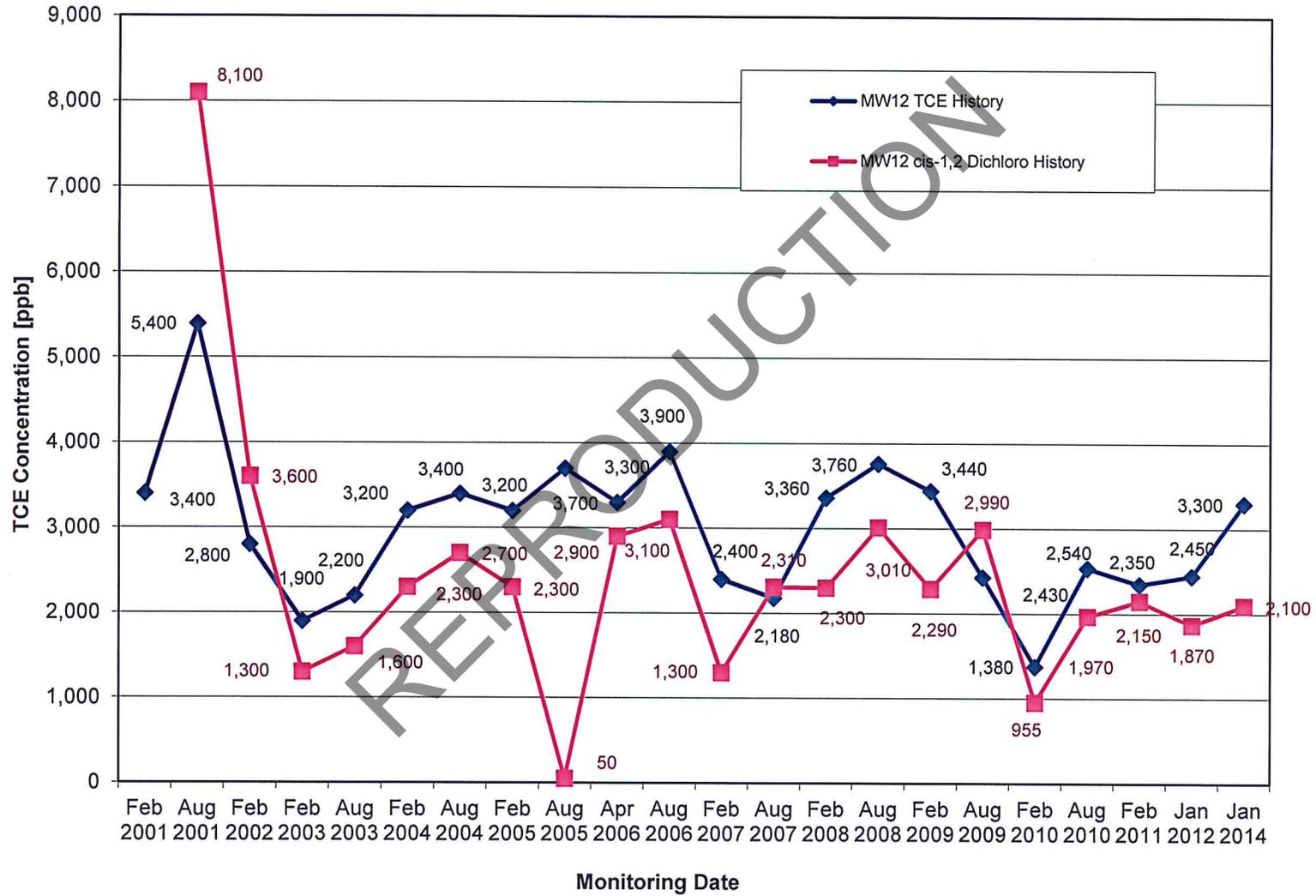
Drawing 19
MW17A PCE History
Charlotte Aircraft Corporation Site



Drawing 20
MW5 TCE and cis-1,2 Dichloroethene History
Charlotte Aircraft Corporation Site



Drawing 21
MW12 TCE and cis-1,2 Dichloroethene History
Charlotte Aircraft Corporation Site



REPRODUCTION

TABLES



Table 1
Groundwater Monitoring Field Parameters Summary
Charlotte Aircraft Corporation Site
January 27, 2014

DATE	WELL	WELL DEPTH ¹ [feet]	DEPTH TO WATER ¹ [feet]	WELL VOL [gal]	EVAC VOL [gal]	COMPLETE EVAC 3 Well Volumes?	TEMP [deg C]	pH	SPECIFIC COND [umho/cm]	ORP [mv]	DO [mg/l]
1/27/2014	MW-1	20.10	11.47	1.40	5.00	YES	17.72 18.38 18.55	6.45 6.29 6.21	59 57 53	16.7 8.6 8.0	--
1/27/2014	MW-2		9.98								
1/27/2014	MW-3		7.18								
1/27/2014	MW-4		9.56								
1/27/2014	MW-5	20.31	10.19	1.60	5.00	YES	18.20 18.61 18.77	6.45 6.29 6.21	128 105 104	12.0 11.7 31.9	0.81
1/27/2014	MW-6		11.59								
1/27/2014	MW-7	20.17	9.80								
1/27/2014	MW-8	24.02	16.05	1.30	5.00	YES	16.53 16.59 16.88	4.62 4.59 4.58	51 49 49	196.6 188.4 193.1	0.67
1/27/2014	MW-9	24.14	16.01	1.30	5.00	YES	16.90 16.87 16.94	5.54 5.34 5.31	72 70 69	84.0 86.7 90.6	0.47
1/27/2014	MW-10	24.49	15.39								
1/27/2014	MW-11		2.50								
1/27/2014	MW-12	20.25	11.27	1.40	5.00	YES	16.38 17.35 17.24	4.38 4.25 4.36	97 106 92	198.6 214.8 169.6	1.31
1/27/2014	MW-13		21.17								
1/27/2014	MW-16A	20.00	8.53								
1/27/2014	MW-17A	20.00	6.45	2.10	7.00	YES	16.22 17.18 17.51	6.37 6.18 6.13	593 595 561	107.6 -4.2 -21.8	0.93
1/27/2014	MW-18A	20.00	10.39								
1/27/2014	MW-20A	20.00	8.57								
1/27/2014	MW-21	18.40	14.26	0.70	2.10	YES	16.55 16.48	5.90 5.93	114 115	18.2 8.2	0.97
1/27/2014	MW-22	18.50	5.95	2.00	7.00	YES	14.62 15.25 15.26	6.33 6.40 6.40	379 332 333	-28.8 -18.4 -22.6	1.63

Table 1
 Groundwater Monitoring Field Parameters Summary
 Charlotte Aircraft Corporation Site
 January 27, 2014

DATE	WELL	WELL DEPTH ¹ [feet]	DEPTH TO WATER ¹ [feet]	WELL VOL [gal]	EVAC VOL [gal]	COMPLETE EVAC 3 Well Volumes?	TEMP [deg C]	pH	SPECIFIC COND [umho/cm]	ORP [mv]	DO [mg/l]
1/27/2014	RW-1	61.80	10.89	33.50	105.00	YES	15.87 16.85 16.86	7.08 5.98 5.88	141 140 140	88.8 114.0 109.3	1.35
1/27/2014	DMW-1	49.80	12.85	5.90	17.70	YES	17.71 17.66	5.96 5.93	141 146	96.3 -6.7	3.11
1/27/2014	DMW-2	58.25	12.35	7.30	22.00	YES	14.20 14.81 16.46	6.10 6.15 6.19	312 306 282	-38.1 -51.21 -37.21	3.07
1/27/2014	DMW-3	89.50	11.87	12.10	36.50	YES	17.38 17.68 17.62	8.62 7.96 7.34	185 167 156	-50.1 -26.1 -13.8	2.94
1/27/2014	DMW-4	143.00	11.44	21.00	63.00	YES	12.19 14.44 15.20	8.79 8.78 8.91	154 154 140	9.8 -54.9 - 16.8	2.09

¹ Water levels and well depths are referenced to top of PVC casing.

Table 2
Groundwater Level Summary
Charlotte Aircraft Corporation Site
January 27, 2014

Well ID	Top PVC Casing Elev ¹ [ft]	GroundWater Tape Down [ft]	GroundWater Elevation ¹ [ft]
MW1	99.97	11.47	88.50
MW2	96.66	9.98	86.68
MW3	93.81	7.18	86.63
MW4	97.98	9.56	88.42
MW5	98.08	10.19	87.89
MW6	97.82	11.59	86.23
MW7	96.03	9.80	86.23
MW8	101.02	16.05	84.97
MW9	101.09	16.01	85.08
MW10	99.92	15.39	84.53
MW11	87.49	2.50	84.99
MW12	99.00	11.27	87.73
MW13	101.97	21.17	80.80
MW16A	89.23	8.53	80.70
MW17A	86.54	6.45	80.09
MW18A	86.04	10.39	75.65
MW20A	88.41	8.57	79.84
MW21	85.61	14.26	71.35
MW22	72.49	5.95	66.54
RW1	98.25	10.89	87.36
DMW1	100.00	12.85	87.15
DMW2	99.10	12.35	86.75
DMW3	97.66	11.87	85.79
DMW4	95.74	11.44	84.30

¹ Based on assumed 100.00 datum

Table 3
Groundwater Analytical Results Summary - January 16-17, 2012
Charlotte Aircraft Corporation Site
Method SM 6200B (Units in ug/l)

Compound:	NCDENR RG	MW1	MW5	MW8	MW9	MW12	MW17A	MW21	MW22	RW1	DMW1	DMW2	DMW3	DMW4
Trichloroethene (TCE)	3	ND	9.6	ND	74.5	2,450	17.5	0.24	3.56	336	ND	6,530	9,110	542
Tetrachloroethene (PCE)	0.7	ND	12.6	6.39	158	40	0.85	ND	ND	ND	ND	5,710	131	
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.81	ND	ND	ND
Bromodichloromethane	0.56	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	0.19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	0.19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.3	ND	ND	ND	ND	ND	0.2	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	50	ND	20.9	ND	2.88	54	ND	ND	ND	ND	ND	256	ND	ND
Chloroethane	2,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.19	ND	ND	ND	ND	ND	0.4	ND	ND	ND	ND	ND	ND	4.8
Chloromethane	2.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	0.41	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2 Dibromoethane (EDB)		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2 Dichlorobenzene	600	ND	24.3	ND	ND	ND	ND	ND	ND	ND	ND	408	ND	ND
1,3 Dichlorobenzene	620	ND	4.56	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4 Dichlorobenzene	75	ND	5.68	ND	ND	17	ND	ND	ND	ND	0.14	ND	ND	ND
Dichlorodifluoromethane	1,400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2 Dichloroethane	0.38	ND	ND	ND	ND	58	ND	ND	ND	ND	ND	716	ND	ND
1,1 Dichloroethene	7	ND	ND	ND	ND	97	ND	ND	ND	ND	ND	208	ND	ND
cis-1,2 Dichloroethene	70	ND	145	ND	21.8	1,870	2.4	ND	ND	202	ND	6,000	68.0	6.2
t-1,2 Dichloroethene	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2 Dichloropropane	0.56	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3 Dichloropropene	0.19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
t-1,3 Dichloropropene	0.19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diisopropyl ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	29	ND	ND	ND	ND	26	ND	ND	ND	ND	0.12	ND	ND	ND
Methylene chloride	5	ND	ND	ND	ND	185	ND	ND	ND	ND	ND	6,740	ND	ND
Methyl-tert-butyl-ether	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	21	ND	ND	ND	ND	276	ND	ND	ND	ND	9.77	640	ND	ND
1,1,1,2 Tetrachloroethane	0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	200	ND	ND	ND	ND	43	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2 Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	2,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	0.015	ND	19.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylene	500	ND	ND	ND	ND	147	ND	ND	ND	ND	2.4	300	ND	ND
m&p Xylene	500	ND	ND	ND	ND	59	ND	ND	ND	ND	2.27	ND	ND	ND
o Xylene	500	ND	ND	ND	ND	88	ND	ND	ND	ND	0.13	300	ND	ND

Concentrations exceeding NCDENR RG Limits are shown in BOLD

Table 4
Groundwater Analytical History
Charlotte Aircraft Corporation Site

Units in ug/l, non-detects indicated at one-half the detection limit

Trichloroethene (TCE)		DMW2	DMW3	DMW4	RW1	MW12	MW5	MW9	MW17A	MW22	MW8
Data Source:											
CSA Sep 1999	(1)	4,300			125	1	3,600	350		1.3	0.5
Feb 2001		8,200			12,000	3,400	1,500	220		0.5	1.7
Aug 2001		13,000			13,000	5,400	590	180		2.4	1.2
Feb 2002		8,000			8,000	2,800	780	62		1.4	1.9
Aug 2002	(2)	9,700	5,600	93	15,000					4.4	
Feb 2003		14,000	5,300	110	25,000	1,900	250	250		0.5	1.3
Aug 2003		10,000	10,000	110	13,000	2,200	240	230		2.9	0.5
Feb 2004		9,900	8,100	100	9,500	3,200	62	230		1.3	0.5
Aug 2004		12,000	10,000	140	12,000	3,400	65	200		13.0	1.1
Feb 2005		8,800	7,000	110	8,400	3,200	34	170		3.6	0.5
Aug 2005		11,000	11,000	200	11,000	3,700	50	140		0.5	0.5
Apr 2006	(4)	15,000	11,000	250	15,000	3,300	10	140	36	1.9	0.5
Aug 2006		10,000	17,000	230	14,000	3,900	10	89	39	18.0	0.5
Feb 2007		9,000	13,000	250	14,000	2,400	5	110	22	1.9	0.5
Aug 2007		9,460	15,100	283	17,100	2,180	25	65	39	20.1	0.5
Feb 2008		11,900	17,100	377	22,900	3,360	10	22	39	7.0	0.5
Aug 2008		13,300	17,900	385	25,700	3,760	29	50	41	28.0	0.5
Feb 2009		12,000	14,700	341	23,000	3,440	10	86	36	6.3	0.5
Aug 2009		9,230	15,400	359	23,800	2,430	4	107	28	9.2	0.25
Feb 2010		8,220	10,300	642	17,800	1,380	4	93	15	0.5	0.5
Aug 2010		9,190	11,600	601	22,200	2,540	26	111	22	6.7	0.5
Feb 2011	(3)	6,480	11,700	537	26,300	2,350	12	76	24	5.3	0.5
Jan 2012		6,530	9,110	542	336	2,450	9.6	74.5	17.5	3.56	0.5
Jan 2014		8,200	9,500	740	18,000	3,300	8.4	72	1.8	0.84	0.29 J

(1) data for wells MW21 and MW22 obtained Jan 2000.

(2) low aquifer level prevented sampling

(3) italics indicates analyte reported at one-half detection limit

(4) semi-annual sampling delayed for installation of replacement wells MW16A, MW17A, MW18A and MW20A

Table 4
Groundwater Analytical History
Charlotte Aircraft Corporation Site

Units in ug/l, non-detects indicated at one-half the detection limit

Tetrachloroethene (PCE)		DMW2	DMW3	DMW4	RW1	MW12	MW5	MW9	MW17A	MW22	MW8
Data Source:											
CSA Sep 1999	(1)	3			125	32	480	850		0.5	0.5
Feb 2001		250			250	100	250	1,500		0.5	13
Aug 2001		250			250	100	120	1,000		0.5	23
Feb 2002		125			125	39	125	590		0.5	21
Aug 2002	(2)	250	2,000	32	250					0.5	
Feb 2003		250	1,700	30	250	50	250	920		0.5	6.6
Aug 2003		250	3,200	41	250	50	50	850		0.5	14
Feb 2004		15	3,400	51	13	67	13	670		0.5	0.5
Aug 2004		20	4,900	61	12	110	25	670		0.5	24
Feb 2005		125	3,600	42	125	50	0.5	600		0.5	22
Aug 2005		100	5,600	64	100	50	10	540		0.5	0.5
Apr 2006	(4)	125	6,500	67	125	50	10	550	4.2	0.5	16
Aug 2006		250	7,400	60	250	50	10	280	3.8	0.5	13.0
Feb 2007		250	5,300	70	500	50	5	360	2.2	0.5	11
Aug 2007		125	6,830	71	250	50	16	186	3.6	0.5	3.4
Feb 2008		125	6,180	71	250	50	10	73	3.3	0.5	8
Aug 2008		125	7,680	85	250	50	10	127	2.5	0.5	2.4
Feb 2009		125	5,610	60	250	50	10	182	2.3	0.5	6
Aug 2009		25	6,370	79	50	63	4	175	2.0	0.25	5.6
Feb 2010		25	5,090	264	337	40	9	479	1.9	0.5	7
Aug 2010		57	7,560	176	182	59	24	389	2.3	0.5	6.4
Feb 2011	(3)	25	6,700	131	<i>100</i>	37	12	235	1.1	<i>0.5</i>	5
Jan 2012		0	5,710	131	0	40	12.6	158	0.85	0.0	6.39
Jan 2014		28 J	7,000	170	<i>44 J</i>	38 J	20	160	0	0.0	3.6

(1) data for wells MW21 and MW22 obtained Jan 2000.

(2) low aquifer level prevented sampling

(3) italics indicates analyte reported at one-half detection limit

(4) semi-annual sampling delayed for installation of replacement wells MW16A, MW17A, MW18A and MW20A

Table 4
Groundwater Analytical History
Charlotte Aircraft Corporation Site

Units in ug/l, non-detects indicated at one-half the detection limit

cis-1,2 Dichloroethene									
Data Source:		DMW2	DMW3	DMW4	RW1	MW12	MW5	MW9	MW17A
CSA Sep 1999	(1)								
Feb 2001									
Aug 2001						8,100	11,000	61	
Feb 2002						3,600	13,000	36	
Aug 2002	(2)		16						
Feb 2003						1,300	20,000	23	
Aug 2003						1,600	6,000	67	
Feb 2004		57			340	2,300	3,300	39	
Aug 2004		130	29	2	200	2,700	2,800	36	
Feb 2005		125	100	2.5	350	2,300	850	31	
Aug 2005		100	100	2.5	490	50	650	39	
Apr 2006	(4)	125	100	2.5	310	2,900	770	10	3.2
Aug 2006		250	250	2.5	250	3,100	710	10	3.0
Feb 2007		250	250	5	500	1,300	170	23	2.3
Aug 2007		315	250	5.0	250	2,310	389	26	7.7
Feb 2008		125	250	5	250	2,300	704	23	2.8
Aug 2008		300	250	5	250	3,010	738	5	1
Feb 2009		961	250	5	250	2,290	160	17	0.5
Aug 2009		2,600	ND<50	1	548	2,990	154	28	4
Feb 2010		4,830	ND<50	4	403	955	33	22	2.5
Aug 2010		6,560	ND<100	3	506	1,970	102	27	4
Feb 2011	(3)	5,560	50	2.5	595	2,150	173	18	4.0
Jan 2012		6,000	68	6.2	202	1,870	145	21.8	2.4
Jan 2014		9,000	36	0.0	550	2,100	54	19	0.20 J

(1) data for wells MW21 and MW22 obtained Jan 2000.

(2) low aquifer level prevented sampling

(3) italics indicates analyte reported at one-half detection limit

(4) semi-annual sampling delayed for installation of replacement wells MW16A, MW17A, MW18A and MW20A

APPENDIX

**LABORATORY ANALYTICAL REPORTS AND
CHAIN-OF-CUSTODY REPORTS**

REPRODUCTION

February 7, 2014

Robert Hill
Mid-Atlantic Associates, Inc. - Raleigh, NC
409 Rogers View Court
Raleigh, NC 27610

Project Location: Charlotte Aircraft
Client Job Number:
Project Number: 122143.03
Laboratory Work Order Number: 14A0879

Enclosed are results of analyses for samples received by the laboratory on January 30, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lisa A. Worthington
Project Manager

REPRODUCTION

Mid-Atlantic Associates, Inc. - Raleigh, NC
 409 Rogers View Court
 Raleigh, NC 27610
 ATTN: Robert Hill

REPORT DATE: 2/7/2014

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 122143.03

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14A0879

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Charlotte Aircraft

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Trip Blank	14A0879-01	Trip Blank Water		SM18-20 6200B	
Equipment Blank	14A0879-02	Equipment Blank Water		SM18-20 6200B	
MW-1	14A0879-03	Ground Water		SM18-20 6200B	
MW-5	14A0879-04	Ground Water		SM18-20 6200B	
MW-8	14A0879-05	Ground Water		SM18-20 6200B	
MW-9	14A0879-06	Ground Water		SM18-20 6200B	
MW-12	14A0879-07	Ground Water		SM18-20 6200B	
MW-17A	14A0879-08	Ground Water		SM18-20 6200B	
MW-21	14A0879-09	Ground Water		SM18-20 6200B	
MW-22	14A0879-10	Ground Water		SM18-20 6200B	
DMW-1	14A0879-11	Ground Water		SM18-20 6200B	
DMW-2	14A0879-12	Ground Water		SM18-20 6200B	
DMW-3	14A0879-13	Ground Water		SM18-20 6200B	
DMW-4	14A0879-14	Ground Water		SM18-20 6200B	
RW-1	14A0879-15	Ground Water		SM18-20 6200B	

REPRODUCTION

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REPRODUCTION

SM18-20 6200B

Qualifications:

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

Vinyl Acetate

B089817-BS1, B089817-BSD1

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Bromoform, Naphthalene

14A0879-01[Trip Blank], 14A0879-02[Equipment Blank], 14A0879-03[MW-1], 14A0879-04[MW-5], 14A0879-05[MW-8], 14A0879-06[MW-9], 14A0879-07[MW-12], 14A0879-08[MW-17A], 14A0879-09[MW-21], 14A0879-10[MW-22], 14A0879-11[DMW-1], 14A0879-12[DMW-2], 14A0879-13[DMW-3], 14A0879-14[DMW-4], 14A0879-15[RW-1], B089737-BLK1, B089737-BS1, B089737-BSD1, B089817-BLK1, B089817-BS1, B089817-BSD1, B089931-BLK1, B089931-BS1, B089931-BSD1

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, Bromomethane, Dichlorodifluoromethane (Freon 12), Ethanol, Methylene Chloride, Naphthalene

B089931-BSD1, B089817-BS1, B089737-BS1, B089931-BS1, B089817-BSD1, B089737-BSD1

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Bromomethane

B089931-BS1

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Bromomethane

14A0879-05[MW-8], 14A0879-07[MW-12], 14A0879-08[MW-17A], 14A0879-12[DMW-2], 14A0879-14[DMW-4], B089931-BLK1, B089931-BS1, B089931-BSD1

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

14A0879-07[MW-12], 14A0879-12[DMW-2], 14A0879-14[DMW-4], 14A0879-15[RW-1]

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

Ethanol

14A0879-01[Trip Blank], 14A0879-02[Equipment Blank], 14A0879-03[MW-1], 14A0879-04[MW-5], 14A0879-05[MW-8], 14A0879-06[MW-9], 14A0879-07[MW-12], 14A0879-08[MW-17A], 14A0879-09[MW-21], 14A0879-10[MW-22], 14A0879-11[DMW-1], 14A0879-12[DMW-2], 14A0879-13[DMW-3], 14A0879-14[DMW-4], 14A0879-15[RW-1], B089737-BLK1, B089737-BS1, B089737-BSD1, B089817-BLK1, B089817-BS1, B089817-BSD1, B089931-BLK1, B089931-BS1, B089931-BSD1

REPRODUCTION

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Michael A. Erickson
Laboratory Director

Project Location: Charlotte Aircraft

Sample Description:

Work Order: 14A0879

Date Received: 1/30/2014

Field Sample #: Trip Blank

Sampled: 1/28/2014 00:00

Sample ID: 14A0879-01

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	5.4	50	4.7	µg/L	1	J	SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
Benzene	ND	0.50	0.079	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
Bromobenzene	ND	0.50	0.044	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
Bromochloromethane	ND	0.50	0.22	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
Bromoform	ND	0.50	0.21	µg/L	1	L-04	SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
Bromomethane	ND	1.0	0.94	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
2-Butanone (MEK)	11	5.0	2.4	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
n-Butylbenzene	ND	2.0	0.054	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
sec-Butylbenzene	ND	0.50	0.084	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
tert-Butylbenzene	ND	0.50	0.096	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
Carbon Tetrachloride	ND	0.50	0.10	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
Chlorobenzene	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
Ethanol	ND	50	28	µg/L	1	V-16	SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
Chlorodibromomethane	ND	0.50	0.054	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
Chloroethane	ND	0.50	0.16	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
Chloroform	ND	0.50	0.14	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
Chloromethane	ND	0.50	0.32	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
2-Chlorotoluene	ND	0.50	0.070	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
4-Chlorotoluene	ND	0.50	0.074	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.089	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
1,2-Dichlorobenzene	ND	0.50	0.076	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
1,3-Dichlorobenzene	ND	0.50	0.079	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
1,4-Dichlorobenzene	ND	0.50	0.046	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
1,1-Dichloroethane	ND	0.50	0.16	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
1,2-Dichloroethane	ND	0.50	0.19	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
cis-1,2-Dichloroethylene	ND	0.50	0.15	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
trans-1,2-Dichloroethylene	ND	0.50	0.15	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
1,2-Dichloropropane	ND	0.50	0.11	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
1,3-Dichloropropane	ND	0.50	0.099	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
2,2-Dichloropropane	ND	0.50	0.072	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
1,1-Dichloropropene	ND	0.50	0.13	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
cis-1,3-Dichloropropene	ND	0.50	0.062	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
trans-1,3-Dichloropropene	ND	0.50	0.056	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
Ethylbenzene	ND	0.50	0.092	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
2-Hexanone (MBK)	ND	5.0	1.5	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
Isopropylbenzene (Cumene)	ND	0.50	0.11	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
Methyl tert-Butyl Ether (MTBE)	ND	0.50	0.090	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
Methylene Chloride	ND	5.0	3.2	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	1.5	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD

Project Location: Charlotte Aircraft

Sample Description:

Work Order: 14A0879

Date Received: 1/30/2014

Field Sample #: Trip Blank

Sampled: 1/28/2014 00:00

Sample ID: 14A0879-01

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Naphthalene	ND	2.0	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
n-Propylbenzene	ND	0.50	0.094	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
Styrene	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
Tetrachloroethylene	ND	1.0	0.080	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
Toluene	0.11	0.50	0.090	µg/L	1	J	SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
1,2,3-Trichlorobenzene	ND	2.0	0.14	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
1,1,1-Trichloroethane	ND	0.50	0.094	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
1,1,2-Trichloroethane	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
Trichloroethylene	ND	0.50	0.077	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
Trichlorofluoromethane (Freon 11)	ND	0.50	0.15	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
1,2,3-Trichloropropane	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
1,2,4-Trimethylbenzene	ND	0.50	0.18	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
1,3,5-Trimethylbenzene	ND	0.50	0.10	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
Vinyl Acetate	ND	5.0	1.3	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
Vinyl Chloride	ND	0.50	0.13	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
m+p Xylene	ND	1.0	0.18	µg/L	1		SM18-20 6200B	2/3/14	2/3/14 23:55	LBD
o-Xylene	0.13	0.50	0.11	µg/L	1	J	SM18-20 6200B	2/3/14	2/3/14 23:55	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	95.7	70-130	
Toluene-d8	103	70-130	
4-Bromofluorobenzene	98.7	70-130	

REPRODUCTION

Project Location: Charlotte Aircraft

Sample Description:

Work Order: 14A0879

Date Received: 1/30/2014

Field Sample #: Equipment Blank

Sampled: 1/28/2014 10:10

Sample ID: 14A0879-02

Sample Matrix: Equipment Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	5.7	50	4.7	µg/L	1	J	SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
Benzene	ND	0.50	0.079	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
Bromobenzene	ND	0.50	0.044	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
Bromochloromethane	ND	0.50	0.22	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
Bromoform	ND	0.50	0.21	µg/L	1	L-04	SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
Bromomethane	ND	1.0	0.94	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
2-Butanone (MEK)	12	5.0	2.4	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
n-Butylbenzene	ND	2.0	0.054	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
sec-Butylbenzene	ND	0.50	0.084	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
tert-Butylbenzene	ND	0.50	0.096	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
Carbon Tetrachloride	ND	0.50	0.10	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
Chlorobenzene	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
Ethanol	ND	50	28	µg/L	1	V-16	SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
Chlorodibromomethane	ND	0.50	0.054	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
Chloroethane	ND	0.50	0.16	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
Chloroform	ND	0.50	0.14	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
Chloromethane	ND	0.50	0.32	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
2-Chlorotoluene	ND	0.50	0.070	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
4-Chlorotoluene	ND	0.50	0.074	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.089	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
1,2-Dichlorobenzene	ND	0.50	0.076	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
1,3-Dichlorobenzene	ND	0.50	0.079	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
1,4-Dichlorobenzene	ND	0.50	0.046	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
1,1-Dichloroethane	ND	0.50	0.16	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
1,2-Dichloroethane	ND	0.50	0.19	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
cis-1,2-Dichloroethylene	ND	0.50	0.15	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
trans-1,2-Dichloroethylene	ND	0.50	0.15	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
1,2-Dichloropropane	ND	0.50	0.11	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
1,3-Dichloropropane	ND	0.50	0.099	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
2,2-Dichloropropane	ND	0.50	0.072	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
1,1-Dichloropropene	ND	0.50	0.13	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
cis-1,3-Dichloropropene	ND	0.50	0.062	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
trans-1,3-Dichloropropene	ND	0.50	0.056	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
Ethylbenzene	ND	0.50	0.092	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
2-Hexanone (MBK)	ND	5.0	1.5	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
Isopropylbenzene (Cumene)	ND	0.50	0.11	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
Methyl tert-Butyl Ether (MTBE)	ND	0.50	0.090	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
Methylene Chloride	ND	5.0	3.2	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	1.5	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD

Project Location: Charlotte Aircraft

Sample Description:

Work Order: 14A0879

Date Received: 1/30/2014

Field Sample #: Equipment Blank

Sampled: 1/28/2014 10:10

Sample ID: 14A0879-02

Sample Matrix: Equipment Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Naphthalene	ND	2.0	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
n-Propylbenzene	ND	0.50	0.094	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
Styrene	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
Tetrachloroethylene	ND	1.0	0.080	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
Toluene	0.13	0.50	0.090	µg/L	1	J	SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
1,2,3-Trichlorobenzene	ND	2.0	0.14	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
1,1,1-Trichloroethane	ND	0.50	0.094	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
1,1,2-Trichloroethane	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
Trichloroethylene	ND	0.50	0.077	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
Trichlorofluoromethane (Freon 11)	ND	0.50	0.15	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
1,2,3-Trichloropropane	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
1,2,4-Trimethylbenzene	ND	0.50	0.18	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
1,3,5-Trimethylbenzene	ND	0.50	0.10	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
Vinyl Acetate	ND	5.0	1.3	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
Vinyl Chloride	ND	0.50	0.13	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
m+p Xylene	ND	1.0	0.18	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
o-Xylene	0.13	0.50	0.11	µg/L	1	J	SM18-20 6200B	2/3/14	2/4/14 0:26	LBD
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	94.7		70-130						2/4/14 0:26	
Toluene-d8	103		70-130						2/4/14 0:26	
4-Bromofluorobenzene	99.4		70-130						2/4/14 0:26	

Project Location: Charlotte Aircraft

Sample Description:

Work Order: 14A0879

Date Received: 1/30/2014

Field Sample #: MW-1

Sampled: 1/28/2014 09:15

Sample ID: 14A0879-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.7	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
Benzene	ND	0.50	0.079	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
Bromobenzene	ND	0.50	0.044	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
Bromochloromethane	ND	0.50	0.22	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
Bromoform	ND	0.50	0.21	µg/L	1	L-04	SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
Bromomethane	ND	1.0	0.94	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
2-Butanone (MEK)	ND	5.0	2.4	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
n-Butylbenzene	ND	2.0	0.054	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
sec-Butylbenzene	ND	0.50	0.084	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
tert-Butylbenzene	ND	0.50	0.096	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
Carbon Tetrachloride	ND	0.50	0.10	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
Chlorobenzene	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
Ethanol	ND	50	28	µg/L	1	V-16	SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
Chlorodibromomethane	ND	0.50	0.054	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
Chloroethane	ND	0.50	0.16	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
Chloroform	ND	0.50	0.14	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
Chloromethane	ND	0.50	0.32	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
2-Chlorotoluene	ND	0.50	0.070	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
4-Chlorotoluene	ND	0.50	0.074	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.089	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
1,2-Dichlorobenzene	ND	0.50	0.076	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
1,3-Dichlorobenzene	ND	0.50	0.079	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
1,4-Dichlorobenzene	ND	0.50	0.046	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
1,1-Dichloroethane	ND	0.50	0.16	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
1,2-Dichloroethane	ND	0.50	0.19	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
cis-1,2-Dichloroethylene	ND	0.50	0.15	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
trans-1,2-Dichloroethylene	ND	0.50	0.15	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
1,2-Dichloropropane	ND	0.50	0.11	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
1,3-Dichloropropane	ND	0.50	0.099	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
2,2-Dichloropropane	ND	0.50	0.072	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
1,1-Dichloropropene	ND	0.50	0.13	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
cis-1,3-Dichloropropene	ND	0.50	0.062	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
trans-1,3-Dichloropropene	ND	0.50	0.056	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
Ethylbenzene	ND	0.50	0.092	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
2-Hexanone (MBK)	ND	5.0	1.5	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
Isopropylbenzene (Cumene)	ND	0.50	0.11	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
Methyl tert-Butyl Ether (MTBE)	ND	0.50	0.090	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
Methylene Chloride	ND	5.0	3.2	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	1.5	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD

Project Location: Charlotte Aircraft

Sample Description:

Work Order: 14A0879

Date Received: 1/30/2014

Field Sample #: MW-1

Sampled: 1/28/2014 09:15

Sample ID: 14A0879-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Naphthalene	ND	2.0	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
n-Propylbenzene	ND	0.50	0.094	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
Styrene	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
Tetrachloroethylene	ND	1.0	0.080	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
Toluene	ND	0.50	0.090	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
1,2,3-Trichlorobenzene	ND	2.0	0.14	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
1,1,1-Trichloroethane	ND	0.50	0.094	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
1,1,2-Trichloroethane	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
Trichloroethylene	ND	0.50	0.077	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
Trichlorofluoromethane (Freon 11)	ND	0.50	0.15	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
1,2,3-Trichloropropane	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
1,2,4-Trimethylbenzene	ND	0.50	0.18	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
1,3,5-Trimethylbenzene	ND	0.50	0.10	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
Vinyl Acetate	ND	5.0	1.3	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
Vinyl Chloride	ND	0.50	0.13	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
m+p Xylene	ND	1.0	0.18	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
o-Xylene	ND	0.50	0.11	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 0:57	LBD
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	95.9		70-130		2/4/14 0:57					
Toluene-d8	103		70-130		2/4/14 0:57					
4-Bromofluorobenzene	98.6		70-130		2/4/14 0:57					

Project Location: Charlotte Aircraft

Sample Description:

Work Order: 14A0879

Date Received: 1/30/2014

Field Sample #: MW-5

Sampled: 1/28/2014 13:45

Sample ID: 14A0879-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
								Prepared	Analyzed	
Acetone	ND	50	4.7	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
Benzene	0.39	0.50	0.079	µg/L	1	J	SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
Bromobenzene	ND	0.50	0.044	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
Bromochloromethane	ND	0.50	0.22	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
Bromoform	ND	0.50	0.21	µg/L	1	L-04	SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
Bromomethane	ND	1.0	0.94	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
2-Butanone (MEK)	ND	5.0	2.4	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
n-Butylbenzene	0.71	2.0	0.054	µg/L	1	J	SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
sec-Butylbenzene	3.2	0.50	0.084	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
tert-Butylbenzene	1.6	0.50	0.096	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
Carbon Tetrachloride	ND	0.50	0.10	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
Chlorobenzene	52	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
Ethanol	ND	50	28	µg/L	1	V-16	SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
Chlorodibromomethane	ND	0.50	0.054	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
Chloroethane	ND	0.50	0.16	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
Chloroform	ND	0.50	0.14	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
Chloromethane	ND	0.50	0.32	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
2-Chlorotoluene	ND	0.50	0.070	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
4-Chlorotoluene	ND	0.50	0.074	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.089	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
1,2-Dichlorobenzene	12	0.50	0.076	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
1,3-Dichlorobenzene	3.5	0.50	0.079	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
1,4-Dichlorobenzene	6.4	0.50	0.046	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
1,1-Dichloroethane	1.4	0.50	0.16	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
1,2-Dichloroethane	ND	0.50	0.19	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
cis-1,2-Dichloroethylene	54	0.50	0.15	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
trans-1,2-Dichloroethylene	0.35	0.50	0.15	µg/L	1	J	SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
1,2-Dichloropropane	ND	0.50	0.11	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
1,3-Dichloropropane	ND	0.50	0.099	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
2,2-Dichloropropane	ND	0.50	0.072	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
1,1-Dichloropropene	ND	0.50	0.13	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
cis-1,3-Dichloropropene	ND	0.50	0.062	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
trans-1,3-Dichloropropene	ND	0.50	0.056	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
Ethylbenzene	0.97	0.50	0.092	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
2-Hexanone (MBK)	ND	5.0	1.5	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
Isopropylbenzene (Cumene)	0.80	0.50	0.11	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
Methyl tert-Butyl Ether (MTBE)	ND	0.50	0.090	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
Methylene Chloride	ND	5.0	3.2	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	1.5	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD

Project Location: Charlotte Aircraft

Sample Description:

Work Order: 14A0879

Date Received: 1/30/2014

Field Sample #: MW-5

Sampled: 1/28/2014 13:45

Sample ID: 14A0879-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Naphthalene	3.1	2.0	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
n-Propylbenzene	0.99	0.50	0.094	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
Styrene	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
Tetrachloroethylene	20	1.0	0.080	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
Toluene	ND	0.50	0.090	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
1,2,3-Trichlorobenzene	ND	2.0	0.14	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
1,2,4-Trichlorobenzene	2.0	1.0	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
1,1,1-Trichloroethane	ND	0.50	0.094	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
1,1,2-Trichloroethane	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
Trichloroethylene	8.4	0.50	0.077	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
Trichlorofluoromethane (Freon 11)	ND	0.50	0.15	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
1,2,3-Trichloropropane	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
1,2,4-Trimethylbenzene	12	0.50	0.18	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
1,3,5-Trimethylbenzene	ND	0.50	0.10	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
Vinyl Acetate	ND	5.0	1.3	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
Vinyl Chloride	5.3	0.50	0.13	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
m+p Xylene	0.41	1.0	0.18	µg/L	1	J	SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
o-Xylene	ND	0.50	0.11	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 1:28	LBD
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	94.9		70-130				2/4/14 1:28			
Toluene-d8	103		70-130				2/4/14 1:28			
4-Bromofluorobenzene	101		70-130				2/4/14 1:28			

Project Location: Charlotte Aircraft

Sample Description:

Work Order: 14A0879

Date Received: 1/30/2014

Field Sample #: MW-8

Sampled: 1/28/2014 16:00

Sample ID: 14A0879-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.7	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
Benzene	ND	0.50	0.079	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
Bromobenzene	ND	0.50	0.044	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
Bromochloromethane	ND	0.50	0.22	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
Bromoform	ND	0.50	0.21	µg/L	1	L-04	SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
Bromomethane	ND	1.0	0.94	µg/L	1	R-05	SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
2-Butanone (MEK)	ND	5.0	2.4	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
n-Butylbenzene	ND	2.0	0.054	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
sec-Butylbenzene	ND	0.50	0.084	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
tert-Butylbenzene	ND	0.50	0.096	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
Carbon Tetrachloride	ND	0.50	0.10	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
Chlorobenzene	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
Ethanol	ND	50	28	µg/L	1	V-16	SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
Chlorodibromomethane	ND	0.50	0.054	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
Chloroethane	ND	0.50	0.16	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
Chloroform	ND	0.50	0.14	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
Chloromethane	ND	0.50	0.32	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
2-Chlorotoluene	ND	0.50	0.070	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
4-Chlorotoluene	ND	0.50	0.074	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.089	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
1,2-Dichlorobenzene	ND	0.50	0.076	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
1,3-Dichlorobenzene	ND	0.50	0.079	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
1,4-Dichlorobenzene	ND	0.50	0.046	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
1,1-Dichloroethane	ND	0.50	0.16	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
1,2-Dichloroethane	ND	0.50	0.19	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
cis-1,2-Dichloroethylene	ND	0.50	0.15	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
trans-1,2-Dichloroethylene	ND	0.50	0.15	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
1,2-Dichloropropane	ND	0.50	0.11	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
1,3-Dichloropropane	ND	0.50	0.099	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
2,2-Dichloropropane	ND	0.50	0.072	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
1,1-Dichloropropene	ND	0.50	0.13	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
cis-1,3-Dichloropropene	ND	0.50	0.062	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
trans-1,3-Dichloropropene	ND	0.50	0.056	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
Ethylbenzene	ND	0.50	0.092	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
2-Hexanone (MBK)	ND	5.0	1.5	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
Isopropylbenzene (Cumene)	ND	0.50	0.11	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
Methyl tert-Butyl Ether (MTBE)	ND	0.50	0.090	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
Methylene Chloride	ND	5.0	3.2	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	1.5	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD

Project Location: Charlotte Aircraft

Sample Description:

Work Order: 14A0879

Date Received: 1/30/2014

Field Sample #: MW-8

Sampled: 1/28/2014 16:00

Sample ID: 14A0879-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Naphthalene	ND	2.0	0.12	µg/L	1	L-04	SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
n-Propylbenzene	ND	0.50	0.094	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
Styrene	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
Tetrachloroethylene	3.6	1.0	0.080	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
Toluene	ND	0.50	0.090	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
1,2,3-Trichlorobenzene	ND	2.0	0.14	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.12	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
1,1,1-Trichloroethane	ND	0.50	0.094	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
1,1,2-Trichloroethane	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
Trichloroethylene	0.29	0.50	0.077	µg/L	1	J	SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
Trichlorofluoromethane (Freon 11)	ND	0.50	0.15	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
1,2,3-Trichloropropane	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
1,2,4-Trimethylbenzene	ND	0.50	0.18	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
1,3,5-Trimethylbenzene	ND	0.50	0.10	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
Vinyl Acetate	ND	5.0	1.3	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
Vinyl Chloride	ND	0.50	0.13	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
m+p Xylene	ND	1.0	0.18	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
o-Xylene	ND	0.50	0.11	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 22:51	LBD
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	98.8		70-130						2/6/14 22:51	
Toluene-d8	103		70-130						2/6/14 22:51	
4-Bromofluorobenzene	95.6		70-130						2/6/14 22:51	

REPRODUCTION

Project Location: Charlotte Aircraft

Sample Description:

Work Order: 14A0879

Date Received: 1/30/2014

Field Sample #: MW-9

Sampled: 1/28/2014 15:20

Sample ID: 14A0879-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.7	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
Benzene	0.11	0.50	0.079	µg/L	1	J	SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
Bromobenzene	ND	0.50	0.044	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
Bromochloromethane	ND	0.50	0.22	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
Bromoform	ND	0.50	0.21	µg/L	1	L-04	SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
Bromomethane	ND	1.0	0.94	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
2-Butanone (MEK)	ND	5.0	2.4	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
n-Butylbenzene	ND	2.0	0.054	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
sec-Butylbenzene	ND	0.50	0.084	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
tert-Butylbenzene	ND	0.50	0.096	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
Carbon Tetrachloride	ND	0.50	0.10	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
Chlorobenzene	0.31	0.50	0.12	µg/L	1	J	SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
Ethanol	ND	50	28	µg/L	1	V-16	SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
Chlorodibromomethane	ND	0.50	0.054	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
Chloroethane	ND	0.50	0.16	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
Chloroform	0.25	0.50	0.14	µg/L	1	J	SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
Chloromethane	ND	0.50	0.32	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
2-Chlorotoluene	ND	0.50	0.070	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
4-Chlorotoluene	ND	0.50	0.074	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.089	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
1,2-Dichlorobenzene	0.12	0.50	0.076	µg/L	1	J	SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
1,3-Dichlorobenzene	0.12	0.50	0.079	µg/L	1	J	SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
1,4-Dichlorobenzene	ND	0.50	0.046	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
1,1-Dichloroethane	ND	0.50	0.16	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
1,2-Dichloroethane	0.41	0.50	0.19	µg/L	1	J	SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
cis-1,2-Dichloroethylene	19	0.50	0.15	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
trans-1,2-Dichloroethylene	0.39	0.50	0.15	µg/L	1	J	SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
1,2-Dichloropropane	ND	0.50	0.11	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
1,3-Dichloropropane	ND	0.50	0.099	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
2,2-Dichloropropane	ND	0.50	0.072	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
1,1-Dichloropropene	ND	0.50	0.13	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
cis-1,3-Dichloropropene	ND	0.50	0.062	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
trans-1,3-Dichloropropene	ND	0.50	0.056	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
Ethylbenzene	ND	0.50	0.092	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
2-Hexanone (MBK)	ND	5.0	1.5	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
Isopropylbenzene (Cumene)	ND	0.50	0.11	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
Methyl tert-Butyl Ether (MTBE)	ND	0.50	0.090	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
Methylene Chloride	ND	5.0	3.2	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	1.5	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD

Project Location: Charlotte Aircraft

Sample Description:

Work Order: 14A0879

Date Received: 1/30/2014

Field Sample #: MW-9

Sampled: 1/28/2014 15:20

Sample ID: 14A0879-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Naphthalene	ND	2.0	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
n-Propylbenzene	ND	0.50	0.094	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
Styrene	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
1,1,2,2-Tetrachloroethane	0.19	0.50	0.12	µg/L	1	J	SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
Tetrachloroethylene	160	1.0	0.080	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
Toluene	ND	0.50	0.090	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
1,2,3-Trichlorobenzene	ND	2.0	0.14	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
1,1,1-Trichloroethane	ND	0.50	0.094	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
1,1,2-Trichloroethane	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
Trichloroethylene	72	0.50	0.077	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
Trichlorofluoromethane (Freon 11)	ND	0.50	0.15	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
1,2,3-Trichloropropane	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
1,2,4-Trimethylbenzene	ND	0.50	0.18	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
1,3,5-Trimethylbenzene	ND	0.50	0.10	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
Vinyl Acetate	ND	5.0	1.3	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
Vinyl Chloride	0.56	0.50	0.13	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
m+p Xylene	ND	1.0	0.18	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
o-Xylene	ND	0.50	0.11	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 2:30	LBD
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	95.0		70-130						2/4/14 2:30	
Toluene-d8	106		70-130						2/4/14 2:30	
4-Bromofluorobenzene	96.7		70-130						2/4/14 2:30	

REPRODUCTION

Project Location: Charlotte Aircraft

Sample Description:

Work Order: 14A0879

Date Received: 1/30/2014

Field Sample #: MW-12

Sampled: 1/28/2014 07:30

Sample ID: 14A0879-07

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	2500	230	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
Benzene	ND	25	4.0	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
Bromobenzene	ND	25	2.2	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
Bromochloromethane	ND	25	11	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
Bromodichloromethane	ND	25	4.4	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
Bromoform	ND	25	10	µg/L	50	L-04	SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
Bromomethane	ND	50	47	µg/L	50	R-05	SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
2-Butanone (MEK)	ND	250	120	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
n-Butylbenzene	44	100	2.7	µg/L	50	J	SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
sec-Butylbenzene	32	25	4.2	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
tert-Butylbenzene	10	25	4.8	µg/L	50	J	SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
Carbon Tetrachloride	ND	25	5.0	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
Chlorobenzene	28	25	6.0	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
Ethanol	ND	2500	1400	µg/L	50	V-16	SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
Chlorodibromomethane	ND	25	2.7	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
Chloroethane	ND	25	8.0	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
Chloroform	ND	25	7.2	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
Chloromethane	ND	25	16	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
2-Chlorotoluene	ND	25	3.5	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
4-Chlorotoluene	ND	25	3.7	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
1,2-Dibromoethane (EDB)	ND	25	4.4	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
1,2-Dichlorobenzene	92	25	3.8	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
1,3-Dichlorobenzene	6.0	25	4.0	µg/L	50	J	SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
1,4-Dichlorobenzene	18	25	2.3	µg/L	50	J	SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
Dichlorodifluoromethane (Freon 12)	ND	25	6.0	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
1,1-Dichloroethane	30	25	7.9	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
1,2-Dichloroethane	50	25	9.7	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
1,1-Dichloroethylene	90	50	10	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
cis-1,2-Dichloroethylene	2100	25	7.4	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
trans-1,2-Dichloroethylene	ND	25	7.5	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
1,2-Dichloropropane	ND	25	5.6	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
1,3-Dichloropropane	ND	25	5.0	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
2,2-Dichloropropane	ND	25	3.6	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
1,1-Dichloropropene	ND	25	6.4	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
cis-1,3-Dichloropropene	ND	25	3.1	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
trans-1,3-Dichloropropene	ND	25	2.8	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
Diisopropyl Ether (DIPE)	ND	25	9.0	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
Ethylbenzene	26	25	4.6	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
2-Hexanone (MBK)	ND	250	76	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
Isopropylbenzene (Cumene)	36	25	5.6	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
p-Isopropyltoluene (p-Cymene)	20	25	6.2	µg/L	50	J	SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
Methyl tert-Butyl Ether (MTBE)	ND	25	4.5	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
Methylene Chloride	ND	250	160	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD
4-Methyl-2-pentanone (MIBK)	ND	250	73	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD

Project Location: Charlotte Aircraft

Sample Description:

Work Order: 14A0879

Date Received: 1/30/2014

Field Sample #: MW-12

Sampled: 1/28/2014 07:30

Sample ID: 14A0879-07

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst	
Naphthalene	140	100	6.0	µg/L	50	L-04	SM18-20 6200B	2/6/14	2/7/14 3:59	LBD	
n-Propylbenzene	84	25	4.7	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD	
Styrene	ND	25	6.0	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD	
1,1,2,2-Tetrachloroethane	ND	25	6.2	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD	
Tetrachloroethylene	38	50	4.0	µg/L	50	J	SM18-20 6200B	2/6/14	2/7/14 3:59	LBD	
Toluene	6.0	25	4.5	µg/L	50	J	SM18-20 6200B	2/6/14	2/7/14 3:59	LBD	
1,2,3-Trichlorobenzene	ND	100	7.0	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD	
1,2,4-Trichlorobenzene	ND	50	5.9	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD	
1,1,1-Trichloroethane	14	25	4.7	µg/L	50	J	SM18-20 6200B	2/6/14	2/7/14 3:59	LBD	
1,1,2-Trichloroethane	ND	25	5.8	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD	
Trichloroethylene	3300	25	3.8	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD	
Trichlorofluoromethane (Freon 11)	ND	25	7.4	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD	
1,2,3-Trichloropropane	ND	25	6.0	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD	
1,2,4-Trimethylbenzene	920	25	9.0	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD	
1,3,5-Trimethylbenzene	230	25	5.0	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD	
Vinyl Acetate	ND	250	67	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD	
Vinyl Chloride	ND	25	6.6	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD	
m+p Xylene	62	50	9.0	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD	
o-Xylene	100	25	5.5	µg/L	50		SM18-20 6200B	2/6/14	2/7/14 3:59	LBD	
Surrogates	% Recovery	Recovery Limits	Flag/Qual								
1,2-Dichloroethane-d4	97.6	70-130									
Toluene-d8	104	70-130									
4-Bromofluorobenzene	96.5	70-130									

Project Location: Charlotte Aircraft

Sample Description:

Work Order: 14A0879

Date Received: 1/30/2014

Field Sample #: MW-17A

Sampled: 1/28/2014 13:05

Sample ID: 14A0879-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.7	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
Benzene	ND	0.50	0.079	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
Bromobenzene	ND	0.50	0.044	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
Bromochloromethane	ND	0.50	0.22	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
Bromoform	ND	0.50	0.21	µg/L	1	L-04	SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
Bromomethane	ND	1.0	0.94	µg/L	1	R-05	SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
2-Butanone (MEK)	ND	5.0	2.4	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
n-Butylbenzene	ND	2.0	0.054	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
sec-Butylbenzene	ND	0.50	0.084	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
tert-Butylbenzene	ND	0.50	0.096	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
Carbon Tetrachloride	ND	0.50	0.10	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
Chlorobenzene	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
Ethanol	ND	50	28	µg/L	1	V-16	SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
Chlorodibromomethane	ND	0.50	0.054	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
Chloroethane	ND	0.50	0.16	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
Chloroform	ND	0.50	0.14	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
Chloromethane	ND	0.50	0.32	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
2-Chlorotoluene	ND	0.50	0.070	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
4-Chlorotoluene	ND	0.50	0.074	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.089	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
1,2-Dichlorobenzene	ND	0.50	0.076	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
1,3-Dichlorobenzene	ND	0.50	0.079	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
1,4-Dichlorobenzene	ND	0.50	0.046	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
1,1-Dichloroethane	ND	0.50	0.16	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
1,2-Dichloroethane	ND	0.50	0.19	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
cis-1,2-Dichloroethylene	0.20	0.50	0.15	µg/L	1	J	SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
trans-1,2-Dichloroethylene	ND	0.50	0.15	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
1,2-Dichloropropane	ND	0.50	0.11	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
1,3-Dichloropropane	ND	0.50	0.099	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
2,2-Dichloropropane	ND	0.50	0.072	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
1,1-Dichloropropene	ND	0.50	0.13	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
cis-1,3-Dichloropropene	ND	0.50	0.062	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
trans-1,3-Dichloropropene	ND	0.50	0.056	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
Ethylbenzene	ND	0.50	0.092	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
2-Hexanone (MBK)	ND	5.0	1.5	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
Isopropylbenzene (Cumene)	ND	0.50	0.11	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
Methyl tert-Butyl Ether (MTBE)	ND	0.50	0.090	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
Methylene Chloride	ND	5.0	3.2	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	1.5	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD

Project Location: Charlotte Aircraft

Sample Description:

Work Order: 14A0879

Date Received: 1/30/2014

Field Sample #: MW-17A

Sampled: 1/28/2014 13:05

Sample ID: 14A0879-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
								Prepared	Analyzed	
Naphthalene	ND	2.0	0.12	µg/L	1	L-04	SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
n-Propylbenzene	ND	0.50	0.094	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
Styrene	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
Tetrachloroethylene	ND	1.0	0.080	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
Toluene	ND	0.50	0.090	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
1,2,3-Trichlorobenzene	ND	2.0	0.14	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.12	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
1,1,1-Trichloroethane	ND	0.50	0.094	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
1,1,2-Trichloroethane	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
Trichloroethylene	1.8	0.50	0.077	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
Trichlorofluoromethane (Freon 11)	ND	0.50	0.15	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
1,2,3-Trichloropropane	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
1,2,4-Trimethylbenzene	ND	0.50	0.18	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
1,3,5-Trimethylbenzene	ND	0.50	0.10	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
Vinyl Acetate	ND	5.0	1.3	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
Vinyl Chloride	ND	0.50	0.13	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
m+p Xylene	ND	1.0	0.18	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
o-Xylene	ND	0.50	0.11	µg/L	1		SM18-20 6200B	2/6/14	2/6/14 23:22	LBD
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	97.6		70-130						2/6/14	23:22
Toluene-d8	103		70-130						2/6/14	23:22
4-Bromofluorobenzene	95.2		70-130						2/6/14	23:22

REPRODUCTION

Project Location: Charlotte Aircraft

Sample Description:

Work Order: 14A0879

Date Received: 1/30/2014

Field Sample #: MW-21

Sampled: 1/28/2014 10:50

Sample ID: 14A0879-09

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.7	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
Benzene	ND	0.50	0.079	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
Bromobenzene	ND	0.50	0.044	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
Bromochloromethane	ND	0.50	0.22	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
Bromoform	ND	0.50	0.21	µg/L	1	L-04	SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
Bromomethane	ND	1.0	0.94	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
2-Butanone (MEK)	ND	5.0	2.4	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
n-Butylbenzene	ND	2.0	0.054	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
sec-Butylbenzene	ND	0.50	0.084	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
tert-Butylbenzene	ND	0.50	0.096	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
Carbon Tetrachloride	ND	0.50	0.10	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
Chlorobenzene	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
Ethanol	ND	50	28	µg/L	1	V-16	SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
Chlorodibromomethane	ND	0.50	0.054	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
Chloroethane	ND	0.50	0.16	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
Chloroform	ND	0.50	0.14	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
Chloromethane	ND	0.50	0.32	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
2-Chlorotoluene	ND	0.50	0.070	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
4-Chlorotoluene	ND	0.50	0.074	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.089	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
1,2-Dichlorobenzene	ND	0.50	0.076	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
1,3-Dichlorobenzene	ND	0.50	0.079	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
1,4-Dichlorobenzene	ND	0.50	0.046	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
1,1-Dichloroethane	ND	0.50	0.16	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
1,2-Dichloroethane	ND	0.50	0.19	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
cis-1,2-Dichloroethylene	ND	0.50	0.15	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
trans-1,2-Dichloroethylene	ND	0.50	0.15	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
1,2-Dichloropropane	ND	0.50	0.11	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
1,3-Dichloropropane	ND	0.50	0.099	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
2,2-Dichloropropane	ND	0.50	0.072	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
1,1-Dichloropropene	ND	0.50	0.13	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
cis-1,3-Dichloropropene	ND	0.50	0.062	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
trans-1,3-Dichloropropene	ND	0.50	0.056	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
Ethylbenzene	ND	0.50	0.092	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
2-Hexanone (MBK)	ND	5.0	1.5	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
Isopropylbenzene (Cumene)	ND	0.50	0.11	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
Methyl tert-Butyl Ether (MTBE)	ND	0.50	0.090	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
Methylene Chloride	ND	5.0	3.2	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	1.5	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD

Project Location: Charlotte Aircraft

Sample Description:

Work Order: 14A0879

Date Received: 1/30/2014

Field Sample #: MW-21

Sampled: 1/28/2014 10:50

Sample ID: 14A0879-09

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Naphthalene	ND	2.0	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
n-Propylbenzene	ND	0.50	0.094	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
Styrene	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
Tetrachloroethylene	1.2	1.0	0.080	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
Toluene	ND	0.50	0.090	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
1,2,3-Trichlorobenzene	ND	2.0	0.14	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
1,1,1-Trichloroethane	ND	0.50	0.094	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
1,1,2-Trichloroethane	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
Trichloroethylene	1.7	0.50	0.077	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
Trichlorofluoromethane (Freon 11)	ND	0.50	0.15	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
1,2,3-Trichloropropane	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
1,2,4-Trimethylbenzene	ND	0.50	0.18	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
1,3,5-Trimethylbenzene	ND	0.50	0.10	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
Vinyl Acetate	ND	5.0	1.3	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
Vinyl Chloride	ND	0.50	0.13	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
m+p Xylene	ND	1.0	0.18	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
o-Xylene	ND	0.50	0.11	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 3:32	LBD
Surrogates	% Recovery		Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	95.8		70-130	2/4/14 3:32						
Toluene-d8	103		70-130	2/4/14 3:32						
4-Bromofluorobenzene	96.6		70-130	2/4/14 3:32						

Project Location: Charlotte Aircraft

Sample Description:

Work Order: 14A0879

Date Received: 1/30/2014

Field Sample #: MW-22

Sampled: 1/28/2014 11:30

Sample ID: 14A0879-10

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.7	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
Benzene	ND	0.50	0.079	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
Bromobenzene	ND	0.50	0.044	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
Bromochloromethane	ND	0.50	0.22	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
Bromoform	ND	0.50	0.21	µg/L	1	L-04	SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
Bromomethane	ND	1.0	0.94	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
2-Butanone (MEK)	ND	5.0	2.4	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
n-Butylbenzene	ND	2.0	0.054	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
sec-Butylbenzene	ND	0.50	0.084	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
tert-Butylbenzene	ND	0.50	0.096	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
Carbon Tetrachloride	ND	0.50	0.10	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
Chlorobenzene	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
Ethanol	ND	50	28	µg/L	1	V-16	SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
Chlorodibromomethane	ND	0.50	0.054	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
Chloroethane	ND	0.50	0.16	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
Chloroform	ND	0.50	0.14	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
Chloromethane	ND	0.50	0.32	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
2-Chlorotoluene	ND	0.50	0.070	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
4-Chlorotoluene	ND	0.50	0.074	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.089	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
1,2-Dichlorobenzene	ND	0.50	0.076	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
1,3-Dichlorobenzene	ND	0.50	0.079	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
1,4-Dichlorobenzene	ND	0.50	0.046	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
1,1-Dichloroethane	ND	0.50	0.16	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
1,2-Dichloroethane	ND	0.50	0.19	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
cis-1,2-Dichloroethylene	ND	0.50	0.15	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
trans-1,2-Dichloroethylene	ND	0.50	0.15	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
1,2-Dichloropropane	ND	0.50	0.11	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
1,3-Dichloropropane	ND	0.50	0.099	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
2,2-Dichloropropane	ND	0.50	0.072	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
1,1-Dichloropropene	ND	0.50	0.13	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
cis-1,3-Dichloropropene	ND	0.50	0.062	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
trans-1,3-Dichloropropene	ND	0.50	0.056	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
Ethylbenzene	ND	0.50	0.092	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
2-Hexanone (MBK)	ND	5.0	1.5	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
Isopropylbenzene (Cumene)	ND	0.50	0.11	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
Methyl tert-Butyl Ether (MTBE)	ND	0.50	0.090	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
Methylene Chloride	ND	5.0	3.2	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	1.5	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD

Project Location: Charlotte Aircraft

Sample Description:

Work Order: 14A0879

Date Received: 1/30/2014

Field Sample #: MW-22

Sampled: 1/28/2014 11:30

Sample ID: 14A0879-10

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date		Analyst
								Prepared	Analyzed	
Naphthalene	ND	2.0	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
n-Propylbenzene	ND	0.50	0.094	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
Styrene	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
Tetrachloroethylene	ND	1.0	0.080	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
Toluene	ND	0.50	0.090	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
1,2,3-Trichlorobenzene	ND	2.0	0.14	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
1,1,1-Trichloroethane	ND	0.50	0.094	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
1,1,2-Trichloroethane	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
Trichloroethylene	0.84	0.50	0.077	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
Trichlorofluoromethane (Freon 11)	ND	0.50	0.15	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
1,2,3-Trichloropropane	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
1,2,4-Trimethylbenzene	ND	0.50	0.18	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
1,3,5-Trimethylbenzene	ND	0.50	0.10	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
Vinyl Acetate	ND	5.0	1.3	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
Vinyl Chloride	ND	0.50	0.13	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
m+p Xylene	ND	1.0	0.18	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
o-Xylene	ND	0.50	0.11	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:03	LBD
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	96.4		70-130						2/4/14 4:03	
Toluene-d8	103		70-130						2/4/14 4:03	
4-Bromofluorobenzene	97.5		70-130						2/4/14 4:03	

Project Location: Charlotte Aircraft

Sample Description:

Work Order: 14A0879

Date Received: 1/30/2014

Field Sample #: DMW-1

Sampled: 1/28/2014 09:55

Sample ID: 14A0879-11

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.7	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
Benzene	2.3	0.50	0.079	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
Bromobenzene	ND	0.50	0.044	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
Bromochloromethane	ND	0.50	0.22	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
Bromoform	ND	0.50	0.21	µg/L	1	L-04	SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
Bromomethane	ND	1.0	0.94	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
2-Butanone (MEK)	ND	5.0	2.4	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
n-Butylbenzene	1.4	2.0	0.054	µg/L	1	J	SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
sec-Butylbenzene	6.8	0.50	0.084	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
tert-Butylbenzene	0.22	0.50	0.096	µg/L	1	J	SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
Carbon Tetrachloride	ND	0.50	0.10	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
Chlorobenzene	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
Ethanol	ND	50	28	µg/L	1	V-16	SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
Chlorodibromomethane	ND	0.50	0.054	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
Chloroethane	ND	0.50	0.16	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
Chloroform	ND	0.50	0.14	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
Chloromethane	ND	0.50	0.32	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
2-Chlorotoluene	ND	0.50	0.070	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
4-Chlorotoluene	ND	0.50	0.074	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.089	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
1,2-Dichlorobenzene	ND	0.50	0.076	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
1,3-Dichlorobenzene	ND	0.50	0.079	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
1,4-Dichlorobenzene	ND	0.50	0.046	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
1,1-Dichloroethane	ND	0.50	0.16	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
1,2-Dichloroethane	ND	0.50	0.19	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
cis-1,2-Dichloroethylene	ND	0.50	0.15	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
trans-1,2-Dichloroethylene	ND	0.50	0.15	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
1,2-Dichloropropane	ND	0.50	0.11	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
1,3-Dichloropropane	ND	0.50	0.099	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
2,2-Dichloropropane	ND	0.50	0.072	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
1,1-Dichloropropene	ND	0.50	0.13	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
cis-1,3-Dichloropropene	ND	0.50	0.062	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
trans-1,3-Dichloropropene	ND	0.50	0.056	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
Ethylbenzene	ND	0.50	0.092	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
2-Hexanone (MBK)	ND	5.0	1.5	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
Isopropylbenzene (Cumene)	2.8	0.50	0.11	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
p-Isopropyltoluene (p-Cymene)	0.16	0.50	0.12	µg/L	1	J	SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
Methyl tert-Butyl Ether (MTBE)	ND	0.50	0.090	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
Methylene Chloride	ND	5.0	3.2	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	1.5	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD

Project Location: Charlotte Aircraft

Sample Description:

Work Order: 14A0879

Date Received: 1/30/2014

Field Sample #: DMW-1

Sampled: 1/28/2014 09:55

Sample ID: 14A0879-11

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
								Prepared	Analyzed	
Naphthalene	3.9	2.0	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
n-Propylbenzene	0.13	0.50	0.094	µg/L	1	J	SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
Styrene	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
Tetrachloroethylene	ND	1.0	0.080	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
Toluene	ND	0.50	0.090	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
1,2,3-Trichlorobenzene	ND	2.0	0.14	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
1,1,1-Trichloroethane	ND	0.50	0.094	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
1,1,2-Trichloroethane	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
Trichloroethylene	ND	0.50	0.077	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
Trichlorofluoromethane (Freon 11)	ND	0.50	0.15	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
1,2,3-Trichloropropane	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
1,2,4-Trimethylbenzene	2.5	0.50	0.18	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
1,3,5-Trimethylbenzene	0.38	0.50	0.10	µg/L	1	J	SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
Vinyl Acetate	ND	5.0	1.3	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
Vinyl Chloride	ND	0.50	0.13	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
m+p Xylene	0.65	1.0	0.18	µg/L	1	J	SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
o-Xylene	ND	0.50	0.11	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 4:34	LBD
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	96.2		70-130				2/4/14 4:34			
Toluene-d8	105		70-130				2/4/14 4:34			
4-Bromofluorobenzene	101		70-130				2/4/14 4:34			

Project Location: Charlotte Aircraft

Sample Description:

Work Order: 14A0879

Date Received: 1/30/2014

Field Sample #: DMW-2

Sampled: 1/28/2014 08:25

Sample ID: 14A0879-12

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10000	940	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
Benzene	24	100	16	µg/L	200	J	SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
Bromobenzene	ND	100	8.8	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
Bromochloromethane	ND	100	45	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
Bromodichloromethane	ND	100	18	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
Bromoform	ND	100	42	µg/L	200	L-04	SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
Bromomethane	ND	200	190	µg/L	200	R-05	SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
2-Butanone (MEK)	ND	1000	470	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
n-Butylbenzene	ND	400	11	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
sec-Butylbenzene	34	100	17	µg/L	200	J	SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
tert-Butylbenzene	ND	100	19	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
Carbon Tetrachloride	ND	100	20	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
Chlorobenzene	230	100	24	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
Ethanol	ND	10000	5600	µg/L	200	V-16	SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
Chlorodibromomethane	ND	100	11	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
Chloroethane	ND	100	32	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
Chloroform	ND	100	29	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
Chloromethane	ND	100	65	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
2-Chlorotoluene	ND	100	14	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
4-Chlorotoluene	ND	100	15	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
1,2-Dibromoethane (EDB)	ND	100	18	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
1,2-Dichlorobenzene	450	100	15	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
1,3-Dichlorobenzene	ND	100	16	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
1,4-Dichlorobenzene	70	100	9.2	µg/L	200	J	SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
Dichlorodifluoromethane (Freon 12)	ND	100	24	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
1,1-Dichloroethane	100	100	32	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
1,2-Dichloroethane	1300	100	39	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
1,1-Dichloroethylene	370	200	42	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
cis-1,2-Dichloroethylene	9000	100	29	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
trans-1,2-Dichloroethylene	ND	100	30	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
1,2-Dichloropropane	ND	100	22	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
1,3-Dichloropropane	ND	100	20	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
2,2-Dichloropropane	ND	100	14	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
1,1-Dichloropropene	ND	100	26	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
cis-1,3-Dichloropropene	ND	100	12	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
trans-1,3-Dichloropropene	ND	100	11	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
Diisopropyl Ether (DIPE)	ND	100	36	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
Ethylbenzene	28	100	18	µg/L	200	J	SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
2-Hexanone (MBK)	ND	1000	300	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
Isopropylbenzene (Cumene)	78	100	23	µg/L	200	J	SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
p-Isopropyltoluene (p-Cymene)	ND	100	25	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
Methyl tert-Butyl Ether (MTBE)	ND	100	18	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
Methylene Chloride	10000	1000	640	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
4-Methyl-2-pentanone (MIBK)	ND	1000	290	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD

Project Location: Charlotte Aircraft

Sample Description:

Work Order: 14A0879

Date Received: 1/30/2014

Field Sample #: DMW-2

Sampled: 1/28/2014 08:25

Sample ID: 14A0879-12

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Naphthalene	ND	400	24	µg/L	200	L-04	SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
n-Propylbenzene	42	100	19	µg/L	200	J	SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
Styrene	ND	100	24	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
1,1,2,2-Tetrachloroethane	ND	100	25	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
Tetrachloroethylene	28	200	16	µg/L	200	J	SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
Toluene	24	100	18	µg/L	200	J	SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
1,2,3-Trichlorobenzene	ND	400	28	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
1,2,4-Trichlorobenzene	ND	200	24	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
1,1,1-Trichloroethane	ND	100	19	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
1,1,2-Trichloroethane	ND	100	23	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
Trichloroethylene	8200	100	15	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
Trichlorofluoromethane (Freon 11)	ND	100	29	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
1,2,3-Trichloropropane	ND	100	24	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
1,2,4-Trimethylbenzene	380	100	36	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
1,3,5-Trimethylbenzene	82	100	20	µg/L	200	J	SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
Vinyl Acetate	ND	1000	270	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
Vinyl Chloride	ND	100	27	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
m+p Xylene	78	200	36	µg/L	200	J	SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
o-Xylene	390	100	22	µg/L	200		SM18-20 6200B	2/6/14	2/7/14 2:58	LBD
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	95.0		70-130				2/7/14 2:58			
Toluene-d8	103		70-130				2/7/14 2:58			
4-Bromofluorobenzene	97.6		70-130				2/7/14 2:58			

Project Location: Charlotte Aircraft

Sample Description:

Work Order: 14A0879

Date Received: 1/30/2014

Field Sample #: DMW-3

Sampled: 1/28/2014 14:45

Sample ID: 14A0879-13

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.7	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
Benzene	0.79	0.50	0.079	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
Bromobenzene	ND	0.50	0.044	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
Bromochloromethane	ND	0.50	0.22	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
Bromoform	ND	0.50	0.21	µg/L	1	L-04	SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
Bromomethane	ND	1.0	0.94	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
2-Butanone (MEK)	ND	5.0	2.4	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
n-Butylbenzene	ND	2.0	0.054	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
sec-Butylbenzene	ND	0.50	0.084	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
tert-Butylbenzene	ND	0.50	0.096	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
Carbon Tetrachloride	13	0.50	0.10	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
Chlorobenzene	10	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
Ethanol	ND	50	28	µg/L	1	V-16	SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
Chlorodibromomethane	ND	0.50	0.054	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
Chloroethane	ND	0.50	0.16	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
Chloroform	19	0.50	0.14	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
Chloromethane	ND	0.50	0.32	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
2-Chlorotoluene	ND	0.50	0.070	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
4-Chlorotoluene	ND	0.50	0.074	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.089	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
1,2-Dichlorobenzene	31	0.50	0.076	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
1,3-Dichlorobenzene	11	0.50	0.079	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
1,4-Dichlorobenzene	5.8	0.50	0.046	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
1,1-Dichloroethane	0.27	0.50	0.16	µg/L	1	J	SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
1,2-Dichloroethane	1.2	0.50	0.19	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
1,1-Dichloroethylene	4.5	1.0	0.21	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
cis-1,2-Dichloroethylene	36	0.50	0.15	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
trans-1,2-Dichloroethylene	1.1	0.50	0.15	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
1,2-Dichloropropane	1.1	0.50	0.11	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
1,3-Dichloropropane	ND	0.50	0.099	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
2,2-Dichloropropane	ND	0.50	0.072	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
1,1-Dichloropropene	ND	0.50	0.13	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
cis-1,3-Dichloropropene	ND	0.50	0.062	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
trans-1,3-Dichloropropene	ND	0.50	0.056	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
Diisopropyl Ether (DIPE)	3.5	0.50	0.18	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
Ethylbenzene	ND	0.50	0.092	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
2-Hexanone (MBK)	ND	5.0	1.5	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
Isopropylbenzene (Cumene)	ND	0.50	0.11	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
Methyl tert-Butyl Ether (MTBE)	ND	0.50	0.090	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
Methylene Chloride	ND	5.0	3.2	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	1.5	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD

Project Location: Charlotte Aircraft

Sample Description:

Work Order: 14A0879

Date Received: 1/30/2014

Field Sample #: DMW-3

Sampled: 1/28/2014 14:45

Sample ID: 14A0879-13

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Naphthalene	ND	2.0	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
n-Propylbenzene	ND	0.50	0.094	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
Styrene	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
Tetrachloroethylene	7000	200	16	µg/L	200		SM18-20 6200B	2/3/14	2/5/14 14:36	LBD
Toluene	0.20	0.50	0.090	µg/L	1	J	SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
1,2,3-Trichlorobenzene	ND	2.0	0.14	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
1,2,4-Trichlorobenzene	1.8	1.0	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
1,1,1-Trichloroethane	ND	0.50	0.094	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
1,1,2-Trichloroethane	1.3	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
Trichloroethylene	9500	100	15	µg/L	200		SM18-20 6200B	2/3/14	2/5/14 14:36	LBD
Trichlorofluoromethane (Freon 11)	ND	0.50	0.15	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
1,2,3-Trichloropropane	ND	0.50	0.12	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
1,2,4-Trimethylbenzene	0.24	0.50	0.18	µg/L	1	J	SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
1,3,5-Trimethylbenzene	ND	0.50	0.10	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
Vinyl Acetate	ND	5.0	1.3	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
Vinyl Chloride	ND	0.50	0.13	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
m+p Xylene	ND	1.0	0.18	µg/L	1		SM18-20 6200B	2/3/14	2/4/14 5:05	LBD
o-Xylene	0.38	0.50	0.11	µg/L	1	J	SM18-20 6200B	2/3/14	2/4/14 5:05	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	94.9	70-130	2/5/14 14:36
1,2-Dichloroethane-d4	95.3	70-130	2/4/14 5:05
Toluene-d8	104	70-130	2/5/14 14:36
Toluene-d8	105	70-130	2/4/14 5:05
4-Bromofluorobenzene	98.4	70-130	2/5/14 14:36
4-Bromofluorobenzene	101	70-130	2/4/14 5:05

Project Location: Charlotte Aircraft

Sample Description:

Work Order: 14A0879

Date Received: 1/30/2014

Field Sample #: DMW-4

Sampled: 1/28/2014 09:50

Sample ID: 14A0879-14

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	1000	94	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
Benzene	ND	10	1.6	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
Bromobenzene	ND	10	0.88	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
Bromochloromethane	ND	10	4.5	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
Bromodichloromethane	ND	10	1.8	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
Bromoform	ND	10	4.2	µg/L	20	L-04	SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
Bromomethane	ND	20	19	µg/L	20	R-05	SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
2-Butanone (MEK)	ND	100	47	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
n-Butylbenzene	ND	40	1.1	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
sec-Butylbenzene	ND	10	1.7	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
tert-Butylbenzene	ND	10	1.9	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
Carbon Tetrachloride	4.8	10	2.0	µg/L	20	J	SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
Chlorobenzene	ND	10	2.4	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
Ethanol	ND	1000	560	µg/L	20	V-16	SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
Chlorodibromomethane	ND	10	1.1	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
Chloroethane	ND	10	3.2	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
Chloroform	5.6	10	2.9	µg/L	20	J	SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
Chloromethane	ND	10	6.5	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
2-Chlorotoluene	ND	10	1.4	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
4-Chlorotoluene	ND	10	1.5	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
1,2-Dibromoethane (EDB)	ND	10	1.8	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
1,2-Dichlorobenzene	ND	10	1.5	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
1,3-Dichlorobenzene	ND	10	1.6	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
1,4-Dichlorobenzene	ND	10	0.92	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
Dichlorodifluoromethane (Freon 12)	ND	10	2.4	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
1,1-Dichloroethane	ND	10	3.2	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
1,2-Dichloroethane	ND	10	3.9	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
1,1-Dichloroethylene	ND	20	4.2	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
cis-1,2-Dichloroethylene	ND	10	2.9	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
trans-1,2-Dichloroethylene	ND	10	3.0	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
1,2-Dichloropropane	ND	10	2.2	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
1,3-Dichloropropane	ND	10	2.0	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
2,2-Dichloropropane	ND	10	1.4	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
1,1-Dichloropropene	ND	10	2.6	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
cis-1,3-Dichloropropene	ND	10	1.2	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
trans-1,3-Dichloropropene	ND	10	1.1	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
Diisopropyl Ether (DIPE)	ND	10	3.6	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
Ethylbenzene	ND	10	1.8	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
2-Hexanone (MBK)	ND	100	30	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
Isopropylbenzene (Cumene)	ND	10	2.3	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
p-Isopropyltoluene (p-Cymene)	ND	10	2.5	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
Methyl tert-Butyl Ether (MTBE)	ND	10	1.8	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
Methylene Chloride	ND	100	64	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
4-Methyl-2-pentanone (MIBK)	ND	100	29	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD

Project Location: Charlotte Aircraft

Sample Description:

Work Order: 14A0879

Date Received: 1/30/2014

Field Sample #: DMW-4

Sampled: 1/28/2014 09:50

Sample ID: 14A0879-14

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
								Prepared	Analyzed	
Naphthalene	ND	40	2.4	µg/L	20	L-04	SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
n-Propylbenzene	ND	10	1.9	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
Styrene	ND	10	2.4	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
1,1,2,2-Tetrachloroethane	ND	10	2.5	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
Tetrachloroethylene	170	20	1.6	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
Toluene	ND	10	1.8	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
1,2,3-Trichlorobenzene	ND	40	2.8	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
1,2,4-Trichlorobenzene	ND	20	2.4	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
1,1,1-Trichloroethane	ND	10	1.9	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
1,1,2-Trichloroethane	ND	10	2.3	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
Trichloroethylene	740	10	1.5	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
Trichlorofluoromethane (Freon 11)	ND	10	2.9	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
1,2,3-Trichloropropane	ND	10	2.4	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
1,2,4-Trimethylbenzene	ND	10	3.6	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
1,3,5-Trimethylbenzene	ND	10	2.0	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
Vinyl Acetate	ND	100	27	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
Vinyl Chloride	ND	10	2.7	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
m+p Xylene	ND	20	3.6	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
o-Xylene	ND	10	2.2	µg/L	20		SM18-20 6200B	2/6/14	2/7/14 3:29	LBD
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	95.6		70-130						2/7/14	3:29
Toluene-d8	104		70-130						2/7/14	3:29
4-Bromofluorobenzene	95.9		70-130						2/7/14	3:29

REPRODUCTION

Project Location: Charlotte Aircraft

Sample Description:

Work Order: 14A0879

Date Received: 1/30/2014

Field Sample #: RW-1

Sampled: 1/28/2014 11:45

Sample ID: 14A0879-15

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10000	940	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
Benzene	ND	100	16	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
Bromobenzene	ND	100	8.8	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
Bromochloromethane	ND	100	45	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
Bromodichloromethane	ND	100	18	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
Bromoform	ND	100	42	µg/L	200	L-04	SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
Bromomethane	ND	200	190	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
2-Butanone (MEK)	ND	1000	470	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
n-Butylbenzene	ND	400	11	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
sec-Butylbenzene	ND	100	17	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
tert-Butylbenzene	ND	100	19	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
Carbon Tetrachloride	ND	100	20	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
Chlorobenzene	ND	100	24	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
Ethanol	ND	10000	5600	µg/L	200	V-16	SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
Chlorodibromomethane	ND	100	11	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
Chloroethane	ND	100	32	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
Chloroform	ND	100	29	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
Chloromethane	ND	100	65	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
2-Chlorotoluene	ND	100	14	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
4-Chlorotoluene	ND	100	15	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
1,2-Dibromoethane (EDB)	ND	100	18	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
1,2-Dichlorobenzene	ND	100	15	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
1,3-Dichlorobenzene	ND	100	16	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
1,4-Dichlorobenzene	ND	100	9.2	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
Dichlorodifluoromethane (Freon 12)	ND	100	24	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
1,1-Dichloroethane	ND	100	32	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
1,2-Dichloroethane	ND	100	39	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
1,1-Dichloroethylene	ND	200	42	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
cis-1,2-Dichloroethylene	550	100	29	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
trans-1,2-Dichloroethylene	ND	100	30	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
1,2-Dichloropropane	ND	100	22	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
1,3-Dichloropropane	ND	100	20	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
2,2-Dichloropropane	ND	100	14	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
1,1-Dichloropropene	ND	100	26	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
cis-1,3-Dichloropropene	ND	100	12	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
trans-1,3-Dichloropropene	ND	100	11	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
Diisopropyl Ether (DIPE)	ND	100	36	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
Ethylbenzene	ND	100	18	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
2-Hexanone (MBK)	ND	1000	300	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
Isopropylbenzene (Cumene)	ND	100	23	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
p-Isopropyltoluene (p-Cymene)	ND	100	25	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
Methyl tert-Butyl Ether (MTBE)	ND	100	18	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
Methylene Chloride	ND	1000	640	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
4-Methyl-2-pentanone (MIBK)	ND	1000	290	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD

Project Location: Charlotte Aircraft

Sample Description:

Work Order: 14A0879

Date Received: 1/30/2014

Field Sample #: RW-1

Sampled: 1/28/2014 11:45

Sample ID: 14A0879-15

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Naphthalene	ND	400	24	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
n-Propylbenzene	ND	100	19	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
Styrene	ND	100	24	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
1,1,2,2-Tetrachloroethane	ND	100	25	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
Tetrachloroethylene	44	200	16	µg/L	200	J	SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
Toluene	ND	100	18	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
1,2,3-Trichlorobenzene	ND	400	28	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
1,2,4-Trichlorobenzene	ND	200	24	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
1,1,1-Trichloroethane	ND	100	19	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
1,1,2-Trichloroethane	ND	100	23	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
Trichloroethylene	18000	100	15	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
Trichlorofluoromethane (Freon 11)	ND	100	29	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
1,2,3-Trichloropropane	ND	100	24	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
1,2,4-Trimethylbenzene	ND	100	36	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
1,3,5-Trimethylbenzene	ND	100	20	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
Vinyl Acetate	ND	1000	270	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
Vinyl Chloride	ND	100	27	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
m+p Xylene	ND	200	36	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
o-Xylene	ND	100	22	µg/L	200		SM18-20 6200B	2/4/14	2/5/14 15:38	LBD
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	96.3		70-130				2/5/14 15:38			
Toluene-d8	104		70-130				2/5/14 15:38			
4-Bromofluorobenzene	97.4		70-130				2/5/14 15:38			

Sample Extraction Data

Prep Method: SW-846 5030B-SM18-20 6200B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14A0879-01 [Trip Blank]	B089737	5	5.00	02/03/14
14A0879-02 [Equipment Blank]	B089737	5	5.00	02/03/14
14A0879-03 [MW-1]	B089737	5	5.00	02/03/14
14A0879-04 [MW-5]	B089737	5	5.00	02/03/14
14A0879-06 [MW-9]	B089737	5	5.00	02/03/14
14A0879-09 [MW-21]	B089737	5	5.00	02/03/14
14A0879-10 [MW-22]	B089737	5	5.00	02/03/14
14A0879-11 [DMW-1]	B089737	5	5.00	02/03/14
14A0879-13 [DMW-3]	B089737	5	5.00	02/03/14

Prep Method: SW-846 5030B-SM18-20 6200B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14A0879-13RE1 [DMW-3]	B089817	0.025	5.00	02/03/14
14A0879-15 [RW-1]	B089817	0.025	5.00	02/04/14

Prep Method: SW-846 5030B-SM18-20 6200B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14A0879-05 [MW-8]	B089931	5	5.00	02/06/14
14A0879-07 [MW-12]	B089931	0.1	5.00	02/06/14
14A0879-08 [MW-17A]	B089931	5	5.00	02/06/14
14A0879-12 [DMW-2]	B089931	0.025	5.00	02/06/14
14A0879-14 [DMW-4]	B089931	0.25	5.00	02/06/14

REPRODUCTION

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B089737 - SW-846 5030B										
Blank (B089737-BLK1)										
Prepared & Analyzed: 02/03/14										
Acetone	ND	50	µg/L							
Benzene	ND	0.50	µg/L							
Bromobenzene	ND	0.50	µg/L							
Bromochloromethane	ND	0.50	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	0.50	µg/L							L-04
Bromomethane	ND	1.0	µg/L							
2-Butanone (MEK)	ND	5.0	µg/L							
n-Butylbenzene	ND	0.50	µg/L							
sec-Butylbenzene	ND	0.50	µg/L							
tert-Butylbenzene	ND	0.50	µg/L							
Carbon Tetrachloride	ND	0.50	µg/L							
Chlorobenzene	ND	0.50	µg/L							
Ethanol	ND	50	µg/L							V-16
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	0.50	µg/L							
Chloroform	ND	0.50	µg/L							
Chloromethane	ND	0.50	µg/L							
2-Chlorotoluene	ND	0.50	µg/L							
4-Chlorotoluene	ND	0.50	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	0.50	µg/L							
1,3-Dichlorobenzene	ND	0.50	µg/L							
1,4-Dichlorobenzene	ND	0.50	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L							
1,1-Dichloroethane	ND	0.50	µg/L							
1,2-Dichloroethane	ND	0.50	µg/L							
1,1-Dichloroethylene	ND	0.50	µg/L							
cis-1,2-Dichloroethylene	ND	0.50	µg/L							
trans-1,2-Dichloroethylene	ND	0.50	µg/L							
1,2-Dichloropropane	ND	0.50	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	0.50	µg/L							
1,1-Dichloropropene	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
Ethylbenzene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	5.0	µg/L							
Isopropylbenzene (Cumene)	ND	0.50	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L							
Naphthalene	ND	0.50	µg/L							
n-Propylbenzene	ND	0.50	µg/L							
Styrene	ND	0.50	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	0.50	µg/L							
Toluene	ND	0.50	µg/L							
1,2,3-Trichlorobenzene	ND	0.50	µg/L							
1,2,4-Trichlorobenzene	ND	0.50	µg/L							

REPRODUCTION

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B089737 - SW-846 5030B										
Blank (B089737-BLK1)										
Prepared & Analyzed: 02/03/14										
1,1,1-Trichloroethane	ND	0.50	µg/L							
1,1,2-Trichloroethane	ND	0.50	µg/L							
Trichloroethylene	ND	0.50	µg/L							
Trichlorofluoromethane (Freon 11)	ND	0.50	µg/L							
1,2,3-Trichloropropane	ND	0.50	µg/L							
1,2,4-Trimethylbenzene	ND	0.50	µg/L							
1,3,5-Trimethylbenzene	ND	0.50	µg/L							
Vinyl Acetate	ND	5.0	µg/L							
Vinyl Chloride	ND	0.50	µg/L							
m+p Xylene	ND	1.0	µg/L							
o-Xylene	ND	0.50	µg/L							
Surrogate: 1,2-Dichloroethane-d4	23.8		µg/L	25.0		95.3	70-130			
Surrogate: Toluene-d8	25.7		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	24.0		µg/L	25.0		95.8	70-130			
LCS (B089737-BS1)										
Prepared & Analyzed: 02/03/14										
Acetone	111	50	µg/L	100		111	70-130			†
Benzene	12.8	0.50	µg/L	10.0		128	70-130			
Bromobenzene	9.47	0.50	µg/L	10.0		94.7	70-130			
Bromochloromethane	12.1	0.50	µg/L	10.0		121	70-130			
Bromodichloromethane	9.33	0.50	µg/L	10.0		93.3	70-130			
Bromoform	6.42	0.50	µg/L	10.0		64.2 *	70-130			L-04
Bromomethane	14.4	1.0	µg/L	10.0		144 *	60-140			L-07 †
2-Butanone (MEK)	122	5.0	µg/L	100		122	70-130			†
n-Butylbenzene	9.05	0.50	µg/L	10.0		90.5	70-130			
sec-Butylbenzene	9.83	0.50	µg/L	10.0		98.3	70-130			
tert-Butylbenzene	9.37	0.50	µg/L	10.0		93.7	70-130			
Carbon Tetrachloride	89.4	0.50	µg/L	10.0		89.4	70-130			
Chlorobenzene	10.0	0.50	µg/L	10.0		100	70-130			
Ethanol	119	50	µg/L	100		119	70-130			V-16
Chlorodibromomethane	8.13	0.50	µg/L	10.0		81.3	70-130			
Chloroethane	10.4	0.50	µg/L	10.0		104	60-140			
Chloroform	11.6	0.50	µg/L	10.0		116	70-130			
Chloromethane	11.7	0.50	µg/L	10.0		117	60-140			†
2-Chlorotoluene	9.59	0.50	µg/L	10.0		95.9	70-130			
4-Chlorotoluene	9.63	0.50	µg/L	10.0		96.3	70-130			
1,2-Dibromoethane (EDB)	11.1	0.50	µg/L	10.0		111	70-130			
1,2-Dichlorobenzene	9.36	0.50	µg/L	10.0		93.6	70-130			
1,3-Dichlorobenzene	9.41	0.50	µg/L	10.0		94.1	70-130			
1,4-Dichlorobenzene	9.16	0.50	µg/L	10.0		91.6	70-130			
Dichlorodifluoromethane (Freon 12)	13.2	0.50	µg/L	10.0		132	60-140			†
1,1-Dichloroethane	11.6	0.50	µg/L	10.0		116	70-130			
1,2-Dichloroethane	10.6	0.50	µg/L	10.0		106	70-130			
1,1-Dichloroethylene	11.1	0.50	µg/L	10.0		111	70-130			
cis-1,2-Dichloroethylene	11.7	0.50	µg/L	10.0		117	70-130			
trans-1,2-Dichloroethylene	11.4	0.50	µg/L	10.0		114	70-130			
1,2-Dichloropropane	10.9	0.50	µg/L	10.0		109	70-130			
1,3-Dichloropropane	11.1	0.50	µg/L	10.0		111	70-130			
2,2-Dichloropropane	8.17	0.50	µg/L	10.0		81.7	70-130			†
1,1-Dichloropropene	11.2	0.50	µg/L	10.0		112	70-130			
cis-1,3-Dichloropropene	9.33	0.50	µg/L	10.0		93.3	70-130			
trans-1,3-Dichloropropene	7.48	0.50	µg/L	10.0		74.8	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B089737 - SW-846 5030B										
LCS (B089737-BS1) Prepared & Analyzed: 02/03/14										
Diisopropyl Ether (DIPE)	12.1	0.50	µg/L	10.0		121	70-130			
Ethylbenzene	10.5	0.50	µg/L	10.0		105	70-130			
2-Hexanone (MBK)	115	5.0	µg/L	100		115	70-130			†
Isopropylbenzene (Cumene)	10.1	0.50	µg/L	10.0		101	70-130			
p-Isopropyltoluene (p-Cymene)	9.64	0.50	µg/L	10.0		96.4	70-130			
Methyl tert-Butyl Ether (MTBE)	10.0	0.50	µg/L	10.0		100	70-130			
Methylene Chloride	12.5	5.0	µg/L	10.0		125	70-130			
4-Methyl-2-pentanone (MIBK)	115	5.0	µg/L	100		115	70-130			†
Naphthalene	8.18	0.50	µg/L	10.0		81.8	70-130			†
n-Propylbenzene	10.3	0.50	µg/L	10.0		103	70-130			
Styrene	10.3	0.50	µg/L	10.0		103	70-130			
1,1,2,2-Tetrachloroethane	9.66	0.50	µg/L	10.0		96.6	70-130			
Tetrachloroethylene	11.4	0.50	µg/L	10.0		114	70-130			
Toluene	12.0	0.50	µg/L	10.0		120	70-130			
1,2,3-Trichlorobenzene	8.81	0.50	µg/L	10.0		88.1	70-130			
1,2,4-Trichlorobenzene	7.91	0.50	µg/L	10.0		79.1	70-130			
1,1,1-Trichloroethane	9.59	0.50	µg/L	10.0		95.9	70-130			
1,1,2-Trichloroethane	11.5	0.50	µg/L	10.0		115	70-130			
Trichloroethylene	12.0	0.50	µg/L	10.0		120	70-130			
Trichlorofluoromethane (Freon 11)	10.9	0.50	µg/L	10.0		109	70-130			
1,2,3-Trichloropropane	9.39	0.50	µg/L	10.0		93.9	70-130			
1,2,4-Trimethylbenzene	9.59	0.50	µg/L	10.0		95.9	70-130			
1,3,5-Trimethylbenzene	10.0	0.50	µg/L	10.0		100	70-130			
Vinyl Acetate	107	5.0	µg/L	100		107	70-130			
Vinyl Chloride	11.5	0.50	µg/L	10.0		115	60-140			†
m+p Xylene	21.0	1.0	µg/L	20.0		105	70-130			
o-Xylene	10.1	0.50	µg/L	10.0		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	23.7		µg/L	25.0		92.3	70-130			
Surrogate: Toluene-d8	26.3		µg/L	25.0		105	70-130			
Surrogate: 4-Bromofluorobenzene	25.5		µg/L	25.0		102	70-130			
LCS Dup (B089737-BSD1) Prepared & Analyzed: 02/03/14										
Acetone	104	50	µg/L	100		104	70-130	6.48	25	†
Benzene	12.6	0.50	µg/L	10.0		126	70-130	1.57	25	
Bromobenzene	9.36	0.50	µg/L	10.0		93.6	70-130	1.17	25	
Bromochloromethane	12.0	0.50	µg/L	10.0		120	70-130	0.997	25	
Bromodichloromethane	9.35	0.50	µg/L	10.0		93.5	70-130	0.214	25	
Bromoform	6.57	0.50	µg/L	10.0		65.7 *	70-130	2.31	25	L-04
Bromomethane	14.0	1.0	µg/L	10.0		140	60-140	2.68	25	†
2-Butanone (MEK)	119	5.0	µg/L	100		119	70-130	2.80	25	†
n-Butylbenzene	9.35	0.50	µg/L	10.0		93.5	70-130	3.26	25	
sec-Butylbenzene	10.1	0.50	µg/L	10.0		101	70-130	2.61	25	
tert-Butylbenzene	9.54	0.50	µg/L	10.0		95.4	70-130	1.80	25	
Carbon Tetrachloride	9.37	0.50	µg/L	10.0		93.7	70-130	4.70	25	
Chlorobenzene	10.0	0.50	µg/L	10.0		100	70-130	0.200	25	
Ethanol	114	50	µg/L	100		114	70-130	4.52	25	V-16
Chlorodibromomethane	8.10	0.50	µg/L	10.0		81.0	70-130	0.370	25	
Chloroethane	10.4	0.50	µg/L	10.0		104	60-140	0.481	25	
Chloroform	11.5	0.50	µg/L	10.0		115	70-130	0.260	25	
Chloromethane	12.2	0.50	µg/L	10.0		122	60-140	3.94	25	†
2-Chlorotoluene	9.67	0.50	µg/L	10.0		96.7	70-130	0.831	25	
4-Chlorotoluene	9.63	0.50	µg/L	10.0		96.3	70-130	0.00	25	

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B089737 - SW-846 5030B										
LCS Dup (B089737-BSD1)										
Prepared & Analyzed: 02/03/14										
1,2-Dibromoethane (EDB)	11.3	0.50	µg/L	10.0	113	70-130	1.97	25		
1,2-Dichlorobenzene	9.25	0.50	µg/L	10.0	92.5	70-130	1.18	25		
1,3-Dichlorobenzene	9.25	0.50	µg/L	10.0	92.5	70-130	1.71	25		
1,4-Dichlorobenzene	9.08	0.50	µg/L	10.0	90.8	70-130	0.877	25		
Dichlorodifluoromethane (Freon 12)	13.9	0.50	µg/L	10.0	139	60-140	4.57	25		†
1,1-Dichloroethane	11.7	0.50	µg/L	10.0	117	70-130	1.03	25		
1,2-Dichloroethane	10.5	0.50	µg/L	10.0	105	70-130	1.42	25		
1,1-Dichloroethylene	11.3	0.50	µg/L	10.0	113	70-130	2.50	25		
cis-1,2-Dichloroethylene	11.5	0.50	µg/L	10.0	115	70-130	1.47	25		
trans-1,2-Dichloroethylene	11.9	0.50	µg/L	10.0	119	70-130	4.19	25		
1,2-Dichloropropane	11.2	0.50	µg/L	10.0	112	70-130	1.99	25		
1,3-Dichloropropane	11.2	0.50	µg/L	10.0	112	70-130	0.359	25		
2,2-Dichloropropane	8.51	0.50	µg/L	10.0	85.1	70-130	4.08	25		†
1,1-Dichloropropene	11.5	0.50	µg/L	10.0	115	70-130	1.85	25		
cis-1,3-Dichloropropene	9.40	0.50	µg/L	10.0	94.0	70-130	0.747	25		
trans-1,3-Dichloropropene	7.78	0.50	µg/L	10.0	77.8	70-130	3.93	25		
Diisopropyl Ether (DIPE)	12.3	0.50	µg/L	10.0	123	70-130	1.15	25		
Ethylbenzene	10.4	0.50	µg/L	10.0	104	70-130	1.06	25		
2-Hexanone (MBK)	114	5.0	µg/L	100	114	70-130	0.954	25		†
Isopropylbenzene (Cumene)	10.4	0.50	µg/L	10.0	104	70-130	2.73	25		
p-Isopropyltoluene (p-Cymene)	9.78	0.50	µg/L	10.0	97.8	70-130	1.44	25		
Methyl tert-Butyl Ether (MTBE)	9.92	0.50	µg/L	10.0	99.2	70-130	1.30	25		
Methylene Chloride	13.4	5.0	µg/L	10.0	134	* 70-130	6.95	25		L-07
4-Methyl-2-pentanone (MIBK)	114	5.0	µg/L	100	114	70-130	0.821	25		†
Naphthalene	8.64	0.50	µg/L	10.0	86.4	70-130	5.47	25		†
n-Propylbenzene	10.5	0.50	µg/L	10.0	105	70-130	2.01	25		
Styrene	10.3	0.50	µg/L	10.0	103	70-130	0.680	25		
1,1,2,2-Tetrachloroethane	9.64	0.50	µg/L	10.0	96.4	70-130	0.207	25		
Tetrachloroethylene	11.5	0.50	µg/L	10.0	115	70-130	1.22	25		
Toluene	11.9	0.50	µg/L	10.0	119	70-130	0.418	25		
1,2,3-Trichlorobenzene	9.56	0.50	µg/L	10.0	95.6	70-130	8.17	25		
1,2,4-Trichlorobenzene	8.26	0.50	µg/L	10.0	82.6	70-130	4.33	25		
1,1,1-Trichloroethane	9.97	0.50	µg/L	10.0	99.7	70-130	3.89	25		
1,1,2-Trichloroethane	11.6	0.50	µg/L	10.0	116	70-130	0.173	25		
Trichloroethylene	11.9	0.50	µg/L	10.0	119	70-130	0.585	25		
Trichlorofluoromethane (Freon 11)	11.4	0.50	µg/L	10.0	114	70-130	4.67	25		
1,2,3-Trichloropropane	9.47	0.50	µg/L	10.0	94.7	70-130	0.848	25		
1,2,4-Trimethylbenzene	9.48	0.50	µg/L	10.0	94.8	70-130	1.15	25		
1,3,5-Trimethylbenzene	10.1	0.50	µg/L	10.0	101	70-130	0.598	25		
Vinyl Acetate	116	5.0	µg/L	100	116	70-130	8.29	25		
Vinyl Chloride	12.2	0.50	µg/L	10.0	122	60-140	5.64	25		†
m+p Xylene	20.8	1.0	µg/L	20.0	104	70-130	1.20	25		
o-Xylene	9.94	0.50	µg/L	10.0	99.4	70-130	1.99	25		
Surrogate: 1,2-Dichloroethane-d4	23.1		µg/L	25.0	92.4	70-130				
Surrogate: Toluene-d8	26.4		µg/L	25.0	106	70-130				
Surrogate: 4-Bromofluorobenzene	25.8		µg/L	25.0	103	70-130				

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B089817 - SW-846 5030B										
Blank (B089817-BLK1)										
Prepared: 02/04/14 Analyzed: 02/05/14										
Acetone	ND	50	µg/L							
Benzene	ND	0.50	µg/L							
Bromobenzene	ND	0.50	µg/L							
Bromochloromethane	ND	0.50	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	0.50	µg/L							L-04
Bromomethane	ND	1.0	µg/L							
2-Butanone (MEK)	ND	5.0	µg/L							
n-Butylbenzene	ND	0.50	µg/L							
sec-Butylbenzene	ND	0.50	µg/L							
tert-Butylbenzene	ND	0.50	µg/L							
Carbon Tetrachloride	ND	0.50	µg/L							
Chlorobenzene	ND	0.50	µg/L							
Ethanol	ND	50	µg/L							V-16
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	0.50	µg/L							
Chloroform	ND	0.50	µg/L							
Chloromethane	ND	0.50	µg/L							
2-Chlorotoluene	ND	0.50	µg/L							
4-Chlorotoluene	ND	0.50	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	0.50	µg/L							
1,3-Dichlorobenzene	ND	0.50	µg/L							
1,4-Dichlorobenzene	ND	0.50	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L							
1,1-Dichloroethane	ND	0.50	µg/L							
1,2-Dichloroethane	ND	0.50	µg/L							
1,1-Dichloroethylene	ND	0.50	µg/L							
cis-1,2-Dichloroethylene	ND	0.50	µg/L							
trans-1,2-Dichloroethylene	ND	0.50	µg/L							
1,2-Dichloropropane	ND	0.50	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	0.50	µg/L							
1,1-Dichloropropene	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
Ethylbenzene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	5.0	µg/L							
Isopropylbenzene (Cumene)	ND	0.50	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L							
Naphthalene	ND	0.50	µg/L							
n-Propylbenzene	ND	0.50	µg/L							
Styrene	ND	0.50	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	0.50	µg/L							
Toluene	ND	0.50	µg/L							
1,2,3-Trichlorobenzene	ND	0.50	µg/L							
1,2,4-Trichlorobenzene	ND	0.50	µg/L							

REPRODUCTION

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B089817 - SW-846 5030B										
Blank (B089817-BLK1)										
				Prepared: 02/04/14 Analyzed: 02/05/14						
1,1,1-Trichloroethane	ND	0.50	µg/L							
1,1,2-Trichloroethane	ND	0.50	µg/L							
Trichloroethylene	0.17	0.50	µg/L							J
Trichlorofluoromethane (Freon 11)	ND	0.50	µg/L							
1,2,3-Trichloropropane	ND	0.50	µg/L							
1,2,4-Trimethylbenzene	ND	0.50	µg/L							
1,3,5-Trimethylbenzene	ND	0.50	µg/L							
Vinyl Acetate	ND	5.0	µg/L							
Vinyl Chloride	ND	0.50	µg/L							
m+p Xylene	ND	1.0	µg/L							
o-Xylene	ND	0.50	µg/L							
Surrogate: 1,2-Dichloroethane-d4	24.3		µg/L	25.0		97.2	70-130			
Surrogate: Toluene-d8	26.1		µg/L	25.0		105	70-130			
Surrogate: 4-Bromofluorobenzene	24.2		µg/L	25.0		96.7	70-130			
LCS (B089817-BS1)										
				Prepared: 02/04/14 Analyzed: 02/05/14						
Acetone	119	50	µg/L	100		119	70-130			†
Benzene	12.3	0.50	µg/L	10.0		123	70-130			
Bromobenzene	9.25	0.50	µg/L	10.0		92.5	70-130			
Bromochloromethane	12.4	0.50	µg/L	10.0		124	70-130			
Bromodichloromethane	9.33	0.50	µg/L	10.0		93.3	70-130			
Bromoform	6.62	0.50	µg/L	10.0		66.2	* 70-130			L-04
Bromomethane	15.1	1.0	µg/L	10.0		151	* 60-140			L-07 †
2-Butanone (MEK)	125	5.0	µg/L	100		125	70-130			†
n-Butylbenzene	8.75	0.50	µg/L	10.0		87.5	70-130			
sec-Butylbenzene	9.43	0.50	µg/L	10.0		94.3	70-130			
tert-Butylbenzene	8.75	0.50	µg/L	10.0		87.5	70-130			
Carbon Tetrachloride	8.99	0.50	µg/L	10.0		89.9	70-130			
Chlorobenzene	9.74	0.50	µg/L	10.0		97.4	70-130			
Ethanol	130	50	µg/L	100		130	70-130			V-16
Chlorodibromomethane	8.24	0.50	µg/L	10.0		82.4	70-130			
Chloroethane	11.0	0.50	µg/L	10.0		110	60-140			
Chloroform	11.6	0.50	µg/L	10.0		116	70-130			
Chloromethane	11.6	0.50	µg/L	10.0		116	60-140			†
2-Chlorotoluene	9.40	0.50	µg/L	10.0		94.0	70-130			
4-Chlorotoluene	9.47	0.50	µg/L	10.0		94.7	70-130			
1,2-Dibromoethane (EDB)	11.2	0.50	µg/L	10.0		112	70-130			
1,2-Dichlorobenzene	9.02	0.50	µg/L	10.0		90.2	70-130			
1,3-Dichlorobenzene	8.99	0.50	µg/L	10.0		89.9	70-130			
1,4-Dichlorobenzene	8.79	0.50	µg/L	10.0		87.9	70-130			
Dichlorodifluoromethane (Freon 12)	11.7	0.50	µg/L	10.0		117	60-140			†
1,1-Dichloroethane	11.8	0.50	µg/L	10.0		118	70-130			
1,2-Dichloroethane	10.5	0.50	µg/L	10.0		105	70-130			
1,1-Dichloroethylene	11.4	0.50	µg/L	10.0		114	70-130			
cis-1,2-Dichloroethylene	11.9	0.50	µg/L	10.0		119	70-130			
trans-1,2-Dichloroethylene	11.2	0.50	µg/L	10.0		112	70-130			
1,2-Dichloropropane	11.0	0.50	µg/L	10.0		110	70-130			
1,3-Dichloropropane	11.3	0.50	µg/L	10.0		113	70-130			
2,2-Dichloropropane	10.2	0.50	µg/L	10.0		102	70-130			†
1,1-Dichloropropene	11.1	0.50	µg/L	10.0		111	70-130			
cis-1,3-Dichloropropene	9.74	0.50	µg/L	10.0		97.4	70-130			
trans-1,3-Dichloropropene	7.96	0.50	µg/L	10.0		79.6	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD	RPD Limit	Notes
Batch B089817 - SW-846 5030B									
LCS (B089817-BS1) Prepared: 02/04/14 Analyzed: 02/05/14									
Diisopropyl Ether (DIPE)	12.6	0.50	µg/L	10.0		126 70-130			
Ethylbenzene	9.73	0.50	µg/L	10.0		97.3 70-130			
2-Hexanone (MBK)	116	5.0	µg/L	100		116 70-130			†
Isopropylbenzene (Cumene)	9.78	0.50	µg/L	10.0		97.8 70-130			
p-Isopropyltoluene (p-Cymene)	9.31	0.50	µg/L	10.0		93.1 70-130			
Methyl tert-Butyl Ether (MTBE)	10.1	0.50	µg/L	10.0		101 70-130			
Methylene Chloride	11.1	5.0	µg/L	10.0		111 70-130			
4-Methyl-2-pentanone (MIBK)	116	5.0	µg/L	100		116 70-130			†
Naphthalene	6.70	0.50	µg/L	10.0		67.0 * 70-130			L-07 †
n-Propylbenzene	10.1	0.50	µg/L	10.0		101 70-130			
Styrene	9.86	0.50	µg/L	10.0		98.6 70-130			
1,1,2,2-Tetrachloroethane	9.79	0.50	µg/L	10.0		97.9 70-130			
Tetrachloroethylene	11.4	0.50	µg/L	10.0		114 70-130			
Toluene	11.6	0.50	µg/L	10.0		116 70-130			
1,2,3-Trichlorobenzene	7.40	0.50	µg/L	10.0		74.0 70-130			
1,2,4-Trichlorobenzene	6.95	0.50	µg/L	10.0		69.5 * 70-130			L-07
1,1,1-Trichloroethane	9.56	0.50	µg/L	10.0		95.6 70-130			
1,1,2-Trichloroethane	11.5	0.50	µg/L	10.0		115 70-130			
Trichloroethylene	11.6	0.50	µg/L	10.0		116 70-130			
Trichlorofluoromethane (Freon 11)	11.4	0.50	µg/L	10.0		114 70-130			
1,2,3-Trichloropropane	9.13	0.50	µg/L	10.0		91.3 70-130			
1,2,4-Trimethylbenzene	8.72	0.50	µg/L	10.0		87.2 70-130			
1,3,5-Trimethylbenzene	9.61	0.50	µg/L	10.0		96.1 70-130			
Vinyl Acetate	134	5.0	µg/L	100		134 * 70-130			L-02
Vinyl Chloride	11.9	0.50	µg/L	10.0		119 60-140			†
m+p Xylene	19.6	1.0	µg/L	20.0		98.0 70-130			
o-Xylene	9.32	0.50	µg/L	10.0		93.2 70-130			
Surrogate: 1,2-Dichloroethane-d4	23.5		µg/L	25.0		94.0 70-130			
Surrogate: Toluene-d8	26.7		µg/L	25.0		107 70-130			
Surrogate: 4-Bromofluorobenzene	25.9		µg/L	25.0		104 70-130			
LCS Dup (B089817-BSD1) Prepared: 02/04/14 Analyzed: 02/05/14									
Acetone	120	50	µg/L	100		120 70-130	1.05	25	†
Benzene	12.3	0.50	µg/L	10.0		123 70-130	0.243	25	
Bromobenzene	9.36	0.50	µg/L	10.0		93.6 70-130	1.18	25	
Bromochloromethane	11.8	0.50	µg/L	10.0		118 70-130	5.02	25	
Bromodichloromethane	9.31	0.50	µg/L	10.0		93.1 70-130	0.215	25	
Bromoform	6.63	0.50	µg/L	10.0		66.3 * 70-130	0.151	25	L-04
Bromomethane	13.6	1.0	µg/L	10.0		136 60-140	10.4	25	†
2-Butanone (MEK)	130	5.0	µg/L	100		130 70-130	3.74	25	†
n-Butylbenzene	9.31	0.50	µg/L	10.0		93.1 70-130	6.20	25	
sec-Butylbenzene	9.96	0.50	µg/L	10.0		99.6 70-130	5.47	25	
tert-Butylbenzene	9.26	0.50	µg/L	10.0		92.6 70-130	5.66	25	
Carbon Tetrachloride	9.29	0.50	µg/L	10.0		92.9 70-130	3.28	25	
Chlorobenzene	9.77	0.50	µg/L	10.0		97.7 70-130	0.308	25	
Ethanol	141	50	µg/L	100		141 * 70-130	7.99	25	L-07, V-16
Chlorodibromomethane	8.28	0.50	µg/L	10.0		82.8 70-130	0.484	25	
Chloroethane	11.1	0.50	µg/L	10.0		111 60-140	0.907	25	
Chloroform	11.5	0.50	µg/L	10.0		115 70-130	0.864	25	
Chloromethane	11.6	0.50	µg/L	10.0		116 60-140	0.00	25	†
2-Chlorotoluene	9.42	0.50	µg/L	10.0		94.2 70-130	0.213	25	
4-Chlorotoluene	9.62	0.50	µg/L	10.0		96.2 70-130	1.57	25	

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B089817 - SW-846 5030B										
LCS Dup (B089817-BSD1)										
					Prepared: 02/04/14 Analyzed: 02/05/14					
1,2-Dibromoethane (EDB)	11.5	0.50	µg/L	10.0		115	70-130	2.91	25	
1,2-Dichlorobenzene	9.19	0.50	µg/L	10.0		91.9	70-130	1.87	25	
1,3-Dichlorobenzene	9.15	0.50	µg/L	10.0		91.5	70-130	1.76	25	
1,4-Dichlorobenzene	8.94	0.50	µg/L	10.0		89.4	70-130	1.69	25	
Dichlorodifluoromethane (Freon 12)	12.9	0.50	µg/L	10.0		129	60-140	9.67	25	†
1,1-Dichloroethane	11.7	0.50	µg/L	10.0		117	70-130	1.36	25	
1,2-Dichloroethane	10.6	0.50	µg/L	10.0		106	70-130	0.856	25	
1,1-Dichloroethylene	11.8	0.50	µg/L	10.0		118	70-130	3.72	25	
cis-1,2-Dichloroethylene	11.8	0.50	µg/L	10.0		118	70-130	1.01	25	
trans-1,2-Dichloroethylene	11.0	0.50	µg/L	10.0		110	70-130	1.62	25	
1,2-Dichloropropane	11.0	0.50	µg/L	10.0		110	70-130	0.364	25	
1,3-Dichloropropane	11.4	0.50	µg/L	10.0		114	70-130	1.06	25	
2,2-Dichloropropane	10.3	0.50	µg/L	10.0		103	70-130	0.389	25	†
1,1-Dichloropropene	11.6	0.50	µg/L	10.0		116	70-130	3.97	25	
cis-1,3-Dichloropropene	9.85	0.50	µg/L	10.0		98.5	70-130	1.12	25	
trans-1,3-Dichloropropene	8.03	0.50	µg/L	10.0		80.3	70-130	0.876	25	
Diisopropyl Ether (DIPE)	12.5	0.50	µg/L	10.0		125	70-130	1.03	25	
Ethylbenzene	9.86	0.50	µg/L	10.0		98.6	70-130	1.33	25	
2-Hexanone (MBK)	124	5.0	µg/L	100		124	70-130	6.48	25	†
Isopropylbenzene (Cumene)	10.1	0.50	µg/L	10.0		101	70-130	2.92	25	
p-Isopropyltoluene (p-Cymene)	9.64	0.50	µg/L	10.0		96.4	70-130	3.48	25	
Methyl tert-Butyl Ether (MTBE)	10.0	0.50	µg/L	10.0		100	70-130	0.398	25	
Methylene Chloride	10.6	5.0	µg/L	10.0		106	70-130	4.80	25	
4-Methyl-2-pentanone (MIBK)	123	5.0	µg/L	100		123	70-130	5.59	25	†
Naphthalene	7.72	0.50	µg/L	10.0		77.2	70-130	14.1	25	†
n-Propylbenzene	10.4	0.50	µg/L	10.0		104	70-130	2.64	25	
Styrene	10.0	0.50	µg/L	10.0		100	70-130	1.81	25	
1,1,2,2-Tetrachloroethane	10.0	0.50	µg/L	10.0		100	70-130	2.42	25	
Tetrachloroethylene	11.8	0.50	µg/L	10.0		118	70-130	3.10	25	
Toluene	11.6	0.50	µg/L	10.0		116	70-130	0.517	25	
1,2,3-Trichlorobenzene	8.52	0.50	µg/L	10.0		85.2	70-130	14.1	25	
1,2,4-Trichlorobenzene	7.52	0.50	µg/L	10.0		75.2	70-130	7.88	25	
1,1,1-Trichloroethane	9.77	0.50	µg/L	10.0		97.7	70-130	2.17	25	
1,1,2-Trichloroethane	11.8	0.50	µg/L	10.0		118	70-130	2.23	25	
Trichloroethylene	11.8	0.50	µg/L	10.0		118	70-130	1.79	25	
Trichlorofluoromethane (Freon 11)	11.7	0.50	µg/L	10.0		117	70-130	2.50	25	
1,2,3-Trichloropropane	9.51	0.50	µg/L	10.0		95.1	70-130	4.08	25	
1,2,4-Trimethylbenzene	8.97	0.50	µg/L	10.0		89.7	70-130	2.83	25	
1,3,5-Trimethylbenzene	9.99	0.50	µg/L	10.0		99.9	70-130	3.88	25	
Vinyl Acetate	134	5.0	µg/L	100		134	* 70-130	0.172	25	L-02
Vinyl Chloride	12.4	0.50	µg/L	10.0		124	60-140	3.79	25	†
m+p Xylene	19.8	1.0	µg/L	20.0		99.0	70-130	1.07	25	
o-Xylene	9.50	0.50	µg/L	10.0		95.0	70-130	1.91	25	
Surrogate: 1,2-Dichloroethane-d4	23.1		µg/L	25.0		92.4	70-130			
Surrogate: Toluene-d8	26.7		µg/L	25.0		107	70-130			
Surrogate: 4-Bromofluorobenzene	25.7		µg/L	25.0		103	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B089931 - SW-846 5030B										
Blank (B089931-BLK1)										
Prepared & Analyzed: 02/06/14										
Acetone	ND	50	µg/L							
Benzene	ND	0.50	µg/L							
Bromobenzene	ND	0.50	µg/L							
Bromochloromethane	ND	0.50	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	0.50	µg/L							L-04
Bromomethane	ND	1.0	µg/L							R-05
2-Butanone (MEK)	ND	5.0	µg/L							
n-Butylbenzene	ND	0.50	µg/L							
sec-Butylbenzene	ND	0.50	µg/L							
tert-Butylbenzene	ND	0.50	µg/L							
Carbon Tetrachloride	ND	0.50	µg/L							
Chlorobenzene	ND	0.50	µg/L							
Ethanol	ND	50	µg/L							V-16
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	0.50	µg/L							
Chloroform	ND	0.50	µg/L							
Chloromethane	ND	0.50	µg/L							
2-Chlorotoluene	ND	0.50	µg/L							
4-Chlorotoluene	ND	0.50	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	0.50	µg/L							
1,3-Dichlorobenzene	ND	0.50	µg/L							
1,4-Dichlorobenzene	ND	0.50	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L							
1,1-Dichloroethane	ND	0.50	µg/L							
1,2-Dichloroethane	ND	0.50	µg/L							
1,1-Dichloroethylene	ND	0.50	µg/L							
cis-1,2-Dichloroethylene	ND	0.50	µg/L							
trans-1,2-Dichloroethylene	ND	0.50	µg/L							
1,2-Dichloropropane	ND	0.50	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	0.50	µg/L							
1,1-Dichloropropene	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
Ethylbenzene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	5.0	µg/L							
Isopropylbenzene (Cumene)	ND	0.50	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L							
Naphthalene	ND	0.50	µg/L							L-04
n-Propylbenzene	ND	0.50	µg/L							
Styrene	ND	0.50	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	0.50	µg/L							
Toluene	ND	0.50	µg/L							
1,2,3-Trichlorobenzene	ND	0.50	µg/L							
1,2,4-Trichlorobenzene	ND	0.50	µg/L							

REPRODUCTION

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B089931 - SW-846 5030B										
Blank (B089931-BLK1) Prepared & Analyzed: 02/06/14										
1,1,1-Trichloroethane	ND	0.50	µg/L							
1,1,2-Trichloroethane	ND	0.50	µg/L							
Trichloroethylene	ND	0.50	µg/L							
Trichlorofluoromethane (Freon 11)	ND	0.50	µg/L							
1,2,3-Trichloropropane	ND	0.50	µg/L							
1,2,4-Trimethylbenzene	ND	0.50	µg/L							
1,3,5-Trimethylbenzene	ND	0.50	µg/L							
Vinyl Acetate	ND	5.0	µg/L							
Vinyl Chloride	ND	0.50	µg/L							
m+p Xylene	ND	1.0	µg/L							
o-Xylene	ND	0.50	µg/L							
Surrogate: 1,2-Dichloroethane-d4	24.7		µg/L	25.0		98.9	70-130			
Surrogate: Toluene-d8	25.7		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	24.2		µg/L	25.0		96.6	70-130			
LCS (B089931-BS1) Prepared & Analyzed: 02/06/14										
Acetone	93.6	50	µg/L	100		93.6	70-130			†
Benzene	12.0	0.50	µg/L	10.0		120	70-130			
Bromobenzene	10.6	0.50	µg/L	10.0		106	70-130			
Bromochloromethane	11.8	0.50	µg/L	10.0		118	70-130			
Bromodichloromethane	9.03	0.50	µg/L	10.0		90.3	70-130			
Bromoform	6.87	0.50	µg/L	10.0		68.7	* 70-130			L-04
Bromomethane	18.8	1.0	µg/L	10.0		188	* 60-140			L-07A, R-05 †
2-Butanone (MEK)	114	5.0	µg/L	100		114	70-130			†
n-Butylbenzene	10.5	0.50	µg/L	10.0		105	70-130			
sec-Butylbenzene	11.8	0.50	µg/L	10.0		118	70-130			
tert-Butylbenzene	11.0	0.50	µg/L	10.0		110	70-130			
Carbon Tetrachloride	8.72	0.50	µg/L	10.0		87.2	70-130			
Chlorobenzene	11.4	0.50	µg/L	10.0		114	70-130			
Ethanol	88.8	50	µg/L	100		88.8	70-130			V-16
Chlorodibromomethane	8.00	0.50	µg/L	10.0		80.0	70-130			
Chloroethane	9.85	0.50	µg/L	10.0		98.5	60-140			
Chloroform	11.1	0.50	µg/L	10.0		111	70-130			
Chloromethane	12.2	0.50	µg/L	10.0		122	60-140			†
2-Chlorotoluene	10.9	0.50	µg/L	10.0		109	70-130			
4-Chlorotoluene	10.9	0.50	µg/L	10.0		109	70-130			
1,2-Dibromoethane (EDB)	11.1	0.50	µg/L	10.0		111	70-130			
1,2-Dichlorobenzene	10.8	0.50	µg/L	10.0		108	70-130			
1,3-Dichlorobenzene	11.0	0.50	µg/L	10.0		110	70-130			
1,4-Dichlorobenzene	10.8	0.50	µg/L	10.0		108	70-130			
Dichlorodifluoromethane (Freon 12)	15.8	0.50	µg/L	10.0		158	* 60-140			L-07 †
1,1-Dichloroethane	11.1	0.50	µg/L	10.0		111	70-130			
1,2-Dichloroethane	10.4	0.50	µg/L	10.0		104	70-130			
1,1-Dichloroethylene	10.4	0.50	µg/L	10.0		104	70-130			
cis-1,2-Dichloroethylene	11.0	0.50	µg/L	10.0		110	70-130			
trans-1,2-Dichloroethylene	11.4	0.50	µg/L	10.0		114	70-130			
1,2-Dichloropropane	11.0	0.50	µg/L	10.0		110	70-130			
1,3-Dichloropropane	11.1	0.50	µg/L	10.0		111	70-130			
2,2-Dichloropropane	7.62	0.50	µg/L	10.0		76.2	70-130			†
1,1-Dichloropropene	11.0	0.50	µg/L	10.0		110	70-130			
cis-1,3-Dichloropropene	9.04	0.50	µg/L	10.0		90.4	70-130			
trans-1,3-Dichloropropene	7.26	0.50	µg/L	10.0		72.6	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B089931 - SW-846 5030B										
LCS (B089931-BS1) Prepared & Analyzed: 02/06/14										
Diisopropyl Ether (DIPE)	11.6	0.50	µg/L	10.0		116	70-130			
Ethylbenzene	11.4	0.50	µg/L	10.0		114	70-130			
2-Hexanone (MBK)	113	5.0	µg/L	100		113	70-130			†
Isopropylbenzene (Cumene)	11.5	0.50	µg/L	10.0		115	70-130			
p-Isopropyltoluene (p-Cymene)	11.4	0.50	µg/L	10.0		114	70-130			
Methyl tert-Butyl Ether (MTBE)	9.28	0.50	µg/L	10.0		92.8	70-130			
Methylene Chloride	13.4	5.0	µg/L	10.0		134 *	70-130			L-07
4-Methyl-2-pentanone (MIBK)	115	5.0	µg/L	100		115	70-130			†
Naphthalene	6.86	0.50	µg/L	10.0		68.6 *	70-130			L-04 †
n-Propylbenzene	11.8	0.50	µg/L	10.0		118	70-130			
Styrene	11.5	0.50	µg/L	10.0		115	70-130			
1,1,2,2-Tetrachloroethane	11.2	0.50	µg/L	10.0		112	70-130			
Tetrachloroethylene	11.7	0.50	µg/L	10.0		117	70-130			
Toluene	11.7	0.50	µg/L	10.0		117	70-130			
1,2,3-Trichlorobenzene	7.70	0.50	µg/L	10.0		77.0	70-130			
1,2,4-Trichlorobenzene	7.25	0.50	µg/L	10.0		72.5	70-130			
1,1,1-Trichloroethane	9.22	0.50	µg/L	10.0		92.2	70-130			
1,1,2-Trichloroethane	11.3	0.50	µg/L	10.0		113	70-130			
Trichloroethylene	11.7	0.50	µg/L	10.0		117	70-130			
Trichlorofluoromethane (Freon 11)	11.1	0.50	µg/L	10.0		111	70-130			
1,2,3-Trichloropropane	10.4	0.50	µg/L	10.0		104	70-130			
1,2,4-Trimethylbenzene	10.8	0.50	µg/L	10.0		108	70-130			
1,3,5-Trimethylbenzene	11.3	0.50	µg/L	10.0		113	70-130			
Vinyl Acetate	120	5.0	µg/L	100		120	70-130			
Vinyl Chloride	11.8	0.50	µg/L	10.0		118	60-140			†
m+p Xylene	22.8	1.0	µg/L	20.0		114	70-130			
o-Xylene	10.9	0.50	µg/L	10.0		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	24.0		µg/L	25.0		96.1	70-130			
Surrogate: Toluene-d8	27.0		µg/L	25.0		108	70-130			
Surrogate: 4-Bromofluorobenzene	25.6		µg/L	25.0		102	70-130			
LCS Dup (B089931-BS1) Prepared & Analyzed: 02/06/14										
Acetone	80.5	50	µg/L	100		80.5	70-130	15.0	25	†
Benzene	11.5	0.50	µg/L	10.0		115	70-130	4.19	25	
Bromobenzene	10.4	0.50	µg/L	10.0		104	70-130	2.29	25	
Bromochloromethane	11.1	0.50	µg/L	10.0		111	70-130	6.03	25	
Bromodichloromethane	8.98	0.50	µg/L	10.0		89.8	70-130	0.555	25	
Bromoform	6.61	0.50	µg/L	10.0		66.1 *	70-130	3.86	25	L-04
Bromomethane	12.0	1.0	µg/L	10.0		120	60-140	44.7 *	25	R-05 †
2-Butanone (MEK)	96.6	5.0	µg/L	100		96.6	70-130	16.2	25	†
n-Butylbenzene	10.2	0.50	µg/L	10.0		102	70-130	3.58	25	
sec-Butylbenzene	11.4	0.50	µg/L	10.0		114	70-130	3.19	25	
tert-Butylbenzene	10.8	0.50	µg/L	10.0		108	70-130	2.02	25	
Carbon Tetrachloride	8.06	0.50	µg/L	10.0		80.6	70-130	7.87	25	
Chlorobenzene	11.0	0.50	µg/L	10.0		110	70-130	3.30	25	
Ethanol	71.3	50	µg/L	100		71.3	70-130	21.8	25	V-16
Chlorodibromomethane	7.85	0.50	µg/L	10.0		78.5	70-130	1.89	25	
Chloroethane	9.54	0.50	µg/L	10.0		95.4	60-140	3.20	25	
Chloroform	10.6	0.50	µg/L	10.0		106	70-130	4.62	25	
Chloromethane	11.3	0.50	µg/L	10.0		113	60-140	7.80	25	†
2-Chlorotoluene	10.6	0.50	µg/L	10.0		106	70-130	2.70	25	
4-Chlorotoluene	10.5	0.50	µg/L	10.0		105	70-130	3.46	25	

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B089931 - SW-846 5030B										
LCS Dup (B089931-BSD1)										
Prepared & Analyzed: 02/06/14										
1,2-Dibromoethane (EDB)	10.5	0.50	µg/L	10.0		105	70-130	5.00	25	
1,2-Dichlorobenzene	10.6	0.50	µg/L	10.0		106	70-130	1.86	25	
1,3-Dichlorobenzene	10.7	0.50	µg/L	10.0		107	70-130	2.49	25	
1,4-Dichlorobenzene	10.5	0.50	µg/L	10.0		105	70-130	3.10	25	
Dichlorodifluoromethane (Freon 12)	13.1	0.50	µg/L	10.0		131	60-140	18.4	25	†
1,1-Dichloroethane	10.5	0.50	µg/L	10.0		105	70-130	4.91	25	
1,2-Dichloroethane	10.1	0.50	µg/L	10.0		101	70-130	3.02	25	
1,1-Dichloroethylene	9.97	0.50	µg/L	10.0		99.7	70-130	4.13	25	
cis-1,2-Dichloroethylene	10.6	0.50	µg/L	10.0		106	70-130	3.89	25	
trans-1,2-Dichloroethylene	10.9	0.50	µg/L	10.0		109	70-130	4.76	25	
1,2-Dichloropropane	10.6	0.50	µg/L	10.0		106	70-130	3.78	25	
1,3-Dichloropropane	10.6	0.50	µg/L	10.0		106	70-130	4.89	25	
2,2-Dichloropropane	7.38	0.50	µg/L	10.0		73.8	70-130	3.20	25	†
1,1-Dichloropropene	10.2	0.50	µg/L	10.0		102	70-130	8.11	25	
cis-1,3-Dichloropropene	8.96	0.50	µg/L	10.0		89.6	70-130	0.889	25	
trans-1,3-Dichloropropene	7.16	0.50	µg/L	10.0		71.6	70-130	1.39	25	
Diisopropyl Ether (DIPE)	11.1	0.50	µg/L	10.0		111	70-130	4.75	25	
Ethylbenzene	11.0	0.50	µg/L	10.0		110	70-130	2.77	25	
2-Hexanone (MBK)	95.1	5.0	µg/L	100		95.1	70-130	16.9	25	†
Isopropylbenzene (Cumene)	11.1	0.50	µg/L	10.0		111	70-130	3.18	25	
p-Isopropyltoluene (p-Cymene)	11.0	0.50	µg/L	10.0		110	70-130	3.67	25	
Methyl tert-Butyl Ether (MTBE)	8.63	0.50	µg/L	10.0		86.3	70-130	7.26	25	
Methylene Chloride	12.0	5.0	µg/L	10.0		120	70-130	11.7	25	
4-Methyl-2-pentanone (MIBK)	99.4	5.0	µg/L	100		99.4	70-130	14.7	25	†
Naphthalene	5.82	0.50	µg/L	10.0		58.2 *	70-130	16.4	25	L-04 †
n-Propylbenzene	11.3	0.50	µg/L	10.0		113	70-130	4.60	25	
Styrene	11.2	0.50	µg/L	10.0		112	70-130	2.56	25	
1,1,2,2-Tetrachloroethane	10.1	0.50	µg/L	10.0		101	70-130	10.1	25	
Tetrachloroethylene	11.2	0.50	µg/L	10.0		112	70-130	4.98	25	
Toluene	11.3	0.50	µg/L	10.0		113	70-130	3.30	25	
1,2,3-Trichlorobenzene	6.45	0.50	µg/L	10.0		64.5 *	70-130	17.7	25	L-07
1,2,4-Trichlorobenzene	6.39	0.50	µg/L	10.0		63.9 *	70-130	12.6	25	L-07
1,1,1-Trichloroethane	8.61	0.50	µg/L	10.0		86.1	70-130	6.84	25	
1,1,2-Trichloroethane	10.9	0.50	µg/L	10.0		109	70-130	3.60	25	
Trichloroethylene	11.2	0.50	µg/L	10.0		112	70-130	3.93	25	
Trichlorofluoromethane (Freon 11)	9.87	0.50	µg/L	10.0		98.7	70-130	11.6	25	
1,2,3-Trichloropropane	9.50	0.50	µg/L	10.0		95.0	70-130	8.85	25	
1,2,4-Trimethylbenzene	10.7	0.50	µg/L	10.0		107	70-130	0.464	25	
1,3,5-Trimethylbenzene	11.0	0.50	µg/L	10.0		110	70-130	2.33	25	
Vinyl Acetate	106	5.0	µg/L	100		106	70-130	12.0	25	
Vinyl Chloride	10.8	0.50	µg/L	10.0		108	60-140	9.56	25	†
m+p Xylene	22.2	1.0	µg/L	20.0		111	70-130	2.40	25	
o-Xylene	10.6	0.50	µg/L	10.0		106	70-130	3.25	25	
Surrogate: 1,2-Dichloroethane-d4	23.3		µg/L	25.0		93.2	70-130			
Surrogate: Toluene-d8	26.8		µg/L	25.0		107	70-130			
Surrogate: 4-Bromofluorobenzene	25.5		µg/L	25.0		102	70-130			

FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
 - † Wide recovery limits established for difficult compound.
 - ‡ Wide RPD limits established for difficult compound.
 - # Data exceeded client recommended or regulatory level
- Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
No results have been blank subtracted unless specified in the case narrative section.
- J Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
 - L-02 Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
 - L-04 Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
 - L-07 Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
 - L-07A Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
 - R-05 Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
 - RL-11 Elevated reporting limit due to high concentration of target compounds.
 - V-16 Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

REPRODUCTION

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SM18-20 6200B in Water</i>	
Acetone	NC
Benzene	NC
Bromobenzene	NC
Bromochloromethane	NC
Bromodichloromethane	NC
Bromoform	NC
Bromomethane	NC
2-Butanone (MEK)	NC
n-Butylbenzene	NC
sec-Butylbenzene	NC
tert-Butylbenzene	NC
Carbon Tetrachloride	NC
Chlorobenzene	NC
Ethanol	NC
Chlorodibromomethane	NC
Chloroethane	NC
Chloroform	NC
Chloromethane	NC
2-Chlorotoluene	NC
4-Chlorotoluene	NC
1,2-Dibromoethane (EDB)	NC
1,2-Dichlorobenzene	NC
1,3-Dichlorobenzene	NC
1,4-Dichlorobenzene	NC
Dichlorodifluoromethane (Freon 12)	NC
1,1-Dichloroethane	NC
1,2-Dichloroethane	NC
1,1-Dichloroethylene	NC
cis-1,2-Dichloroethylene	NC
trans-1,2-Dichloroethylene	NC
1,2-Dichloropropane	NC
1,3-Dichloropropane	NC
2,2-Dichloropropane	NC
1,1-Dichloropropene	NC
cis-1,3-Dichloropropene	NC
trans-1,3-Dichloropropene	NC
Diisopropyl Ether (DIPE)	NC
Ethylbenzene	NC
2-Hexanone (MBK)	NC
Isopropylbenzene (Cumene)	NC
p-Isopropyltoluene (p-Cymene)	NC
Methyl tert-Butyl Ether (MTBE)	NC
Methylene Chloride	NC
4-Methyl-2-pentanone (MIBK)	NC
Naphthalene	NC
n-Propylbenzene	NC
Styrene	NC

REPRODUCTION

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SM18-20 6200B in Water</i>	
1,1,2,2-Tetrachloroethane	NC
Tetrachloroethylene	NC
Toluene	NC
1,2,3-Trichlorobenzene	NC
1,2,4-Trichlorobenzene	NC
1,1,1-Trichloroethane	NC
1,1,2-Trichloroethane	NC
Trichloroethylene	NC
Trichlorofluoromethane (Freon 11)	NC
1,2,3-Trichloropropane	NC
1,2,4-Trimethylbenzene	NC
1,3,5-Trimethylbenzene	NC
Vinyl Acetate	NC
Vinyl Chloride	NC
m+p Xylene	NC
o-Xylene	NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2014
NC	North Carolina Div. of Water Quality	652	12/31/2014
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014



Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com
 http://www.contestlabs.com

Company Name: Mid-Atlantic Assoc

Address: 409 Roger view Ct,

raleigh, N.C. 27601

Attention: Bob Hill

Project Location: Charlotte Airgraph

Sampled By: Cary A. Fischer

Project Proposal Provided? (for billing purposes)
 yes proposal date

Telephone: (919) 250-9918

Project # R2143.03

Client PO#

DATA DELIVERY (check all that apply)

FAX EMAIL WEBSITE

Fax #

Email:

Format: SRDF EXCEL OGIS

OTHER

Collection "Enhanced Data Package"

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code
-01	Trip blank		11/28/14				
-02	Equipment-Pipe blank		1/28/14/1010		X		
-03	MW-1		1/27/14/0915			6W	
-04	MW-5		11/13/14				
-05	MW-8		11/16/10				
-06	MW-9		11/15/20				
-07	MW-12		1/28/14/0730				
-08	MW-17A		1/27/14/1305				
-09	MW-21		11/10/50				
-10	MW-22		11/11/30				

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Detection Limit Requirements

North Carolina

2L GWPC SWSL OTHER

Turnaround**

5-Day 5-7-Day 10-Day RUSH* *24-Hr r *48-Hr *72-Hr r *4-Day Requires Lab Approval

Relinquished by: (signature)

Date/Time: 1/30/14 1600

Received by: (signature)

Date/Time: 1/30/14 1600

Relinquished by: (signature)

Date/Time: 1/30/14 1630

Received by: (signature)

Date/Time: 1/31/14 0920

TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN.

IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

CHAIN OF CUSTODY RECORD

39 Spruce Street
 East Longmeadow, MA 01028

Page 1 of 2

14A0878

# of Containers	
** Preservation	
*** Container Code	

Analysis Requested

Dissolved Metals
 Field Filtered
 Lab to Filter

***Cont. Code:
 A=amber glass
 G=glass
 P=plastic
 ST=sterile
 V= Vial
 S=summa can
 T=tetlar bag
 O=Other

**Preservation
 I = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium bisulfate
 X = Na hydroxide
 T = Na thiosulfate
 O = Other

*Matrix Code:
 GW= groundwater
 WW= wastewater
 DW= drinking water
 A = air
 S = soil/solid
 SL = sludge
 O = other

Program Information

DSCA IHSB Orphaned Landfill
 SWS Landfill UST REC
 Other:



NELAC & AIHA Certified
 WBE/DBE Certified

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT



con-test[®]
ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

14A0879

Company Name: Mid-Atlantic Assoc
Address: 429 Rogers View Ct,
Raleigh, N.C. 27610
Attention: Rob Hill
Project Location: Charlotte Aircraft
Sampled By: Gary H. Fischer

Telephone: (919) 250-9918
Project #: R 2143.03
Client PO#
DATA DELIVERY (check all that apply)
 FAX EMAIL WEBSITE
Fax #: (919) 250-9950
Email:
Format: PDF EXCEL GIS
 OTHER
 "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
 yes _____ proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection		Composite	Grab	*Matrix Code	Conc Code
		Beginning Date/Time	Ending Date/Time				
-11	DMW-1		1/27/14/0955		X	GW	
-12	DMW-2		1/28/14/0825				
-13	DMW-3		1/27/14/1445				
-14	DMW-4		1/28/14/0950				
-15	RW-1		1/1/145				

Analysis Requested

of Containers
** Preservation
*** Container Code

Dissolved Metals
 Field Filtered
 Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

6200B

REPRODUCTION

Comments: _____

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
.....
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) [Signature] Date/Time: 1/30/14 1600
Received by: (signature) [Signature] Date/Time: 1/30/14 1600
Relinquished by: (signature) [Signature] Date/Time: 1/30/14 1630
Received by: (signature) [Signature] Date/Time: 1/31/14 0929

Turnaround**
 5-Day
 5-7-Day
 10-Day
RUSH†
 †24-Hr r †48-Hr
 †72-Hr r †4-Day
*Requires Lab Approval

Detection Limit Requirements
North Carolina
 2L
 GWPC
 SWSL
 OTHER

Program Information
 DSCA IHSB Orphaned Landfill
 SWS Landfill UST REC
 Other: _____

ACCREDITED IN ACCORDANCE WITH

NELAC & AIHA Certified
WBE/DBE Certified

IMPORTANT!

Severe winter weather is causing delays and disruptions in the Southeast and Mid-Atlantic U.S. Learn More



797776507380

Ship (P/U) date :
Thur 1/30/2014 5:30 pm
RAL US



Actual delivery :
Fri 1/31/2014 9:29 am
MA US

Delivered

Signed for by: C COLLINS

2 Piece shipment

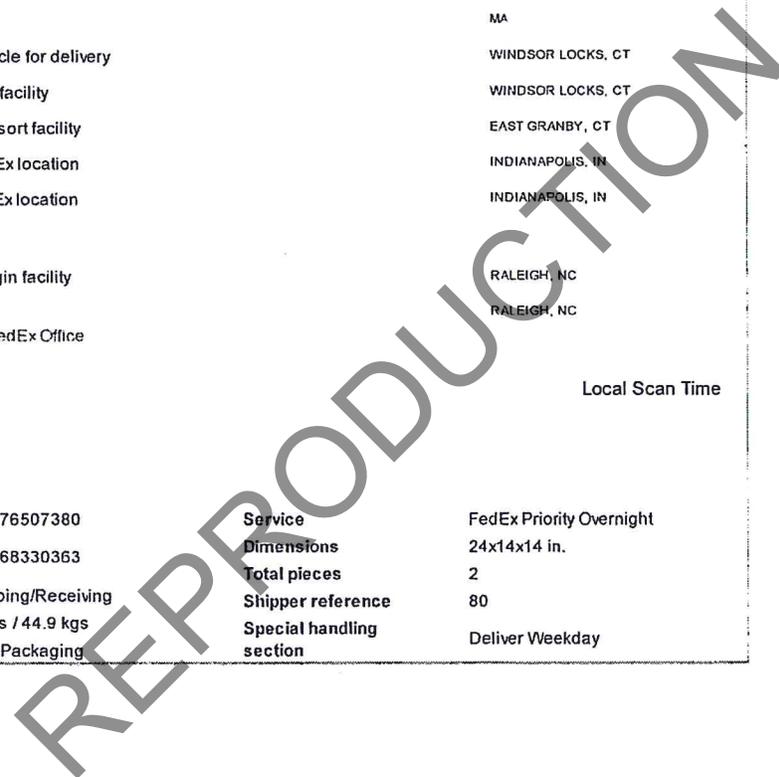
Travel History

Date/Time	Activity	Location
- 1/31/2014 - Friday		
9:29 am	Delivered	MA
8:03 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
7:06 am	At local FedEx facility	WINDSOR LOCKS, CT
5:59 am	At destination sort facility	EAST GRANBY, CT
4:31 am	Departed FedEx location	INDIANAPOLIS, IN
12:38 am	Arrived at FedEx location	INDIANAPOLIS, IN
- 1/30/2014 - Thursday		
8:31 pm	Left FedEx origin facility	RALEIGH, NC
5:30 pm	Picked up Tendered at FedEx Office	RALEIGH, NC

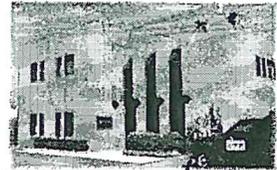
Local Scan Time

Shipment Facts

Tracking number	797776507380	Service	FedEx Priority Overnight
Master tracking number	803468330363	Dimensions	24x14x14 in.
Delivered To	Shipping/Receiving	Total pieces	2
Total shipment weight	99 lbs / 44.9 kgs	Shipper reference	80
Packaging	Your Packaging	Special handling section	Deliver Weekday



39 Spruce St.
 East Longmeadow, MA. 01028
 P: 413-525-2332
 F: 413-525-6405
 www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME: Mid Atlantic Assoc. RECEIVED BY: CEC DATE: 1/31/14

- 1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included
- 2) Does the chain agree with the samples? Yes No
 If not, explain: _____
- 3) Are all the samples in good condition? Yes No
 If not, explain: _____

4) How were the samples received:

On Ice Direct from Sampling Ambient In Cooler(s)

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 2.0°

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No
 (Walk-in clients only) if not already approved
 Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A

9) Do all samples have the proper Base pH: Yes No N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below	<u>45</u>	Perchlorate Kit	
Culisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl 45 # Methanol _____
 # Bisulfate _____ # DI Water _____
 # Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Login Sample Receipt Checklist
 (Rejection Criteria Listing - Using Sample Acceptance Policy)
 Any False statement will be brought to the attention of Client

Question	Answer (True/False)	Comment
	T/F/NA	
1) The cooler's custody seal, if present, is intact.	T	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	NA	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	T	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	T	
21) Samples do not require splitting or compositing.	T	

Doc #277 Rev. 4 August 2013

Who notified of False statements?

Log-In Technician Initials: CEC

Date/Time:

Date/Time:

1/31/14 0929