51 Franklin Street, Suite 400
Annapolis, Maryland 21401

Installation of overhead polyvinyl chloride (PVC) lines to connect the new extraction wells and the original extraction wells (SV-21-C and SV-23-C) to the system, completed on April 19, 2013

Installation of system-effluent overhead pipe and mist-eliminator pad, and completion of system discharge-stack piping modifications, completed on April 23, 2013

Installation of replacement blower skid with heat exchanger and associated appurtenances on April 23, 2013

Installation of post-heat-exchanger moisture separator on April 24, 2013

Relocation and connection of the vapor-treatment units to the system, completed on April 24, 2013

Pre-startup inspection and testing of equipment and piping on April 29, 2013

Installation of two-inch-diameter steel bollards at three new well locations (SV-30-C, SV-31-C, and SV-32-C) on April 25, 2013

Installation of two-inch-diameter steel bollards around the system on April 30, 2013

Construction of frame for blower-skid soundproof enclosure on April 30, 2013

Subcontractor demobilization on April 30, 2013

System startup testing and balancing on May 01, 2013

Collection of air samples from all new extraction wells (including SV-26-C, SV-27-C, SV-28-C, and SV-29-C, which were installed during the first-phase expansion) on May 02, 2013

Installation of blower-skid soundproof enclosure, completed on May 08, 2013

Pre-startup full-day system-test run on May 10, 2013

Operational readiness review conference call with Lockheed Martin Corporation and CDM Smith on May 14, 2013

Installation of additional foam board in the interior of the soundproof enclosure on May 16, 2013

Startup of expanded system on May 16, 2013

Shipment of the drum of waste generated during the expansion to off-site disposal on May 17, 2013

The air samples were collected from each monitoring point a few hours after the SSDS restart during start-up testing on May 02, 2013. Air samples were collected directly from each extraction well's sampling port using one-liter Summa® canisters. Samples were shipped to

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Annapolis, Maryland 21401

TestAmerica in Knoxville, Tennessee for VOC analysis by United States Environmental Protection Agency (USEPA) Method TO-15; results are summarized as follows:

Summary of Analytical Detections (µ/m^3)
in Extractle0(a)-(e)-1342(t)7mngl2ni2(a5.04 Td6.40zc)2(t)a4(st)-3(i)-2li5(A

TETRA TECH

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Annapolis, Maryland 21401

System samples (influent, mid-GAC, and effluent) were collected on May 10, 2013, approximately one week after the air samples from the extraction point samples were taken. The system samples were also collected using one-liter Summa® canisters and were shipped to TestAmerica in Knoxville, Tennessee for VOC analysis by USEPA Method TO-15. The analytical results are summarized in the following table. Total VOCs in the system influent increased from 117 µ/m^3 on April 08, 2013 to 3,020 µ/m^3 on May 10, 2013 after startup of the expanded system with the new extraction points.

Summary of Analytical Detections (µ/m^3)
in Sub-Slab Depressurization System Samples
May 10, 2013
Building C, Middle River Complex, Middle River, Maryland

Sample	Influent	Mid-GAC	Effluent
Benzene	ND	ND	9.9
cis-1,2-Dichloroethene	120	ND	ND
Trichloroethene	2900	87	34
Total VOCs	3020	87	44

All concentrations are in micrograms per cubic meter air (µ/m^3).
GAC—

TETRA TECH

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Annapolis, Maryland 21401

Attachments:

(1) Figure 1—Vacuum Influence, May 20, 2013

(2) Table 1—Summary of Construction Activities

(3) "As-Built Drawings"

(4) SV-30-C, SV-31-C, SV-32-C, SV-33-C, and SV-34-C Construction Logs

(5) *TestAmerica Analytical Report—*

ATTACHMENT 1

FIGURE 1—VACUUM INFLUENCE

May 20, 2013

TABLE 1
Summary of Construction Activities

TABLE 1
Summary of Construction Activities
Second-Phase Expansion of the Building C Sub-Slab Depressurization System
Middle River Complex, Middle River, Maryland

Date	Building C Sub-Slab Depressurization System Expansion Activity
23 April 2013	Installed system effluent pipe at new system location and tied-in to existing 6-inch diameter effluent header pipe. Completed 4-inch and 6-inch diameter system effluent piping on south wall including installation of mist eliminator pad. Connected 4-inch diameter effluent pipe to ex0(i)5(p)2(e)-287(to)-27res292(c)-6(8p)2(t)-a5(n)2(c)-6(

TABLE 1
Summary of Construction Activities
Second-Phase Expansion of the Building C Sub-Slab Depressurization System
Middle River Complex, Middle River, Maryland

Date	Building C Sub-Slab Depressurization System Expansion Activity
	Began system startup and testing: Tested new extraction wells for maximum possible flow. Opened SV-21-C, SV-23-C, SV-26-C, SV-27-C, SV-28-C, SV-29-C, and SV-30-C during testing to prevent system vacuum relief valve from opening due high vacuum. Leak observed at connection point of steel pipe and heat exchanger effluent. Left system OFF upon departure.
02 May 2013	Leak tested floor slab using dry ice; leaks detected in floor slab at SV-21-C, SV-23-C, and SV-24-C. Patched holes found during leak test and leak in SV-60-C with concrete patch. Patched previous system vent and effluent penetrations on south wall with foam sealant/insulation. Turned system ON and conducted a full round of measurements. Adjusted extraction wells to achieve higher flows: Closed SV-23-C. Possible leak detected at SV-26-C valve (to be checked during next visit). Collected vapor samples with 1-liter Summa canisters from all new extraction wells as well as wells installed during the first-phase expansion (SV-26-C through SV-34-C). Left system OFF upon departure.
07 May 2013	Retested new extraction wells for maximum possible; opened SV-21-C, SV-23-C, SV-26-C, SV-27-C, SV-28-C, and SV-29-C during testing to prevent system vacuum relief valve from opening due high vacuum. Left system OFF upon departure.
08 May 2013	Installed soundproof enclosure around system skid using flexible noise barrier, ½-inch plywood, 2x6-inch wood beams, and 1-inch thick foam board.
09 May 2013	Installed duct work and louver for heat exchanger fan. Set vacuum relief valve to 85 inches of water column.
10 May 2013	Conducted system test run.
14 May 2013	Conducted system Operational Readiness Review via teleconference. Reviewed draft As-Built Drawings and updated operation and maintenance manual. Copies of these documents placed on system control panel.
15 May 2013	Began installation of 1-inch thick foam board on interior sides of the soundproof enclosure.
16 May 2013	Completed installation of 1-inch thick foam board on interior sides of the soundproof enclosure. Started system up for continuous operation.
17 May 2013	Shipped waste soil drum (from extraction well installation) for off-site disposal.

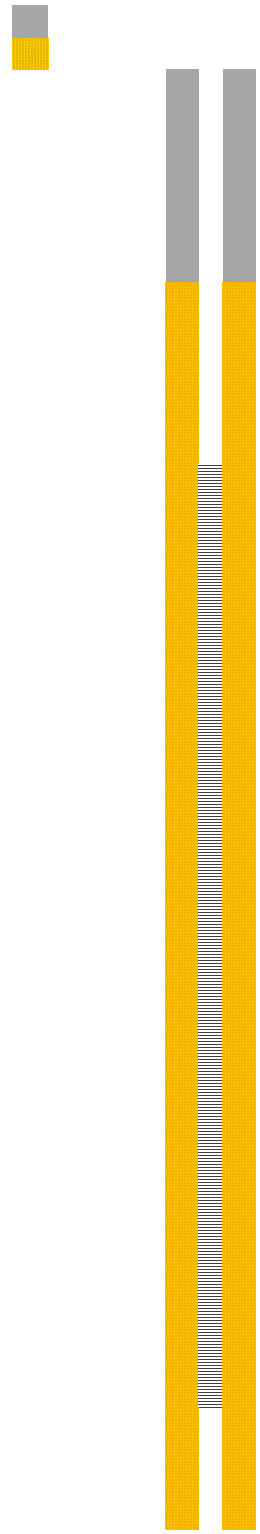
ATTACHMENT 3

AS-BUILT DRAWINGS

ATTACHMENT 4

CONSTRUCTION LOGS

SV-30-C, SV-31-C, SV-32-C, SV-33-C, SV-34-C



JOB NO.
117-0507537

CLIENT: LOCKHEED MARTIN CORPORATION

DRILLING METHOD: HAND AUGER

COMPANY: S&S TECHNOLOGIES

OPERATOR: #N/A

SHEET
1 OF 1

SAMPLING METHOD: #N/A

WELL SCREEN: 2-INCH DIA. SCH. 40 PVC, 0.020 INCH SLOTTED

RISER: 2-INCH DIA. SCH. 40 PVC, SOLID CASING

FILTER PACK: 3/8-INCH WASHED PEA GRAVEL

SEAL/GROUT: 10 OZ. BENTONITE, 60 LBS. CONCRETE, ~1 GAL. WATER

LOGGED BY: TETRA TECH/DAWN MONICO

WELL DEPTH: 15.75 INCHES

DATUM: #N/A N/L: #N/A E/L: #N/A

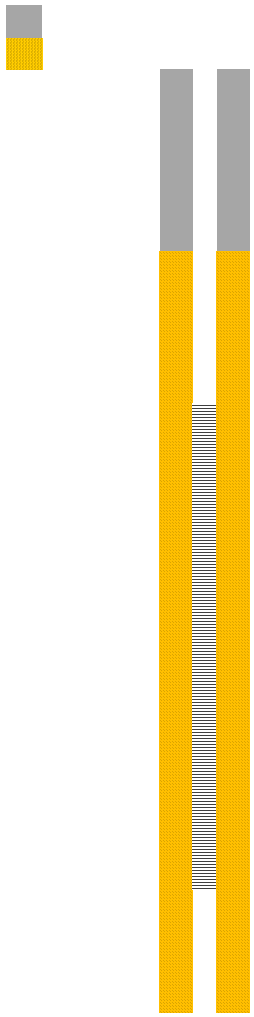
START DATE

FINISH DATE

PERMIT NO.: #N/A

4/11/2013

NOTE: N/A



JOB NO.
117-0507537

CLIENT: LOCKHEED MARTIN CORPORATION

DRILLING METHOD: HAND AUGER

COMPANY: S&S TECHNOLOGIES

OPERATOR: #N/A

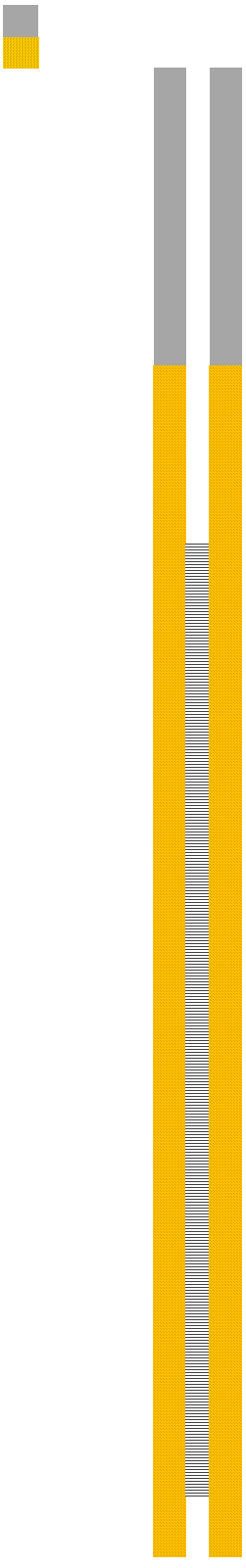
SAMPLING METHOD: #N/A

WELL SCREEN: 2-INCH DIA. SCH. 40 PVC, 0.020 INCH SLOTTED

RISER: 2-INCH DIA. SCH. 40 PVC, SOLID CASING

FILTER PACK: 3/8-INCH WAS /CS36 csTEWKEG(T)2(I)8(VW)3-3(/)8(8)31E3VAV9T-219(M)5(E)9CK:

LOGGED BY: TETRA TECH/DAWN MONICO



PROJECT: BUILDING C SUB-SLAB DEPRESSURIZATION SYSTEM
SECOND-PHASE EXPANSION
LOCKHEED MARTIN MIDDLE RIVER COMPLEX

JOB NO.
117-0507537

CLIENT: LOCKHEED MARTIN CORPORATION

DRILLING METHOD: HAND AUGER
COMPANY: S&S TECHNOLOGIES
OPERATOR: #N/A
SAMPLING METHOD: #N/A

SHEET
1 OF 1

WELL SCREEN: 2-INCH DIA. SCH. 40 PVC, 0.020 INCH SLOTTED
RISER: 2-INCH DIA. SCH. 40 PVC, SOLID CASING
FILTER PACK: 3/8-INCH WASHED PEA GRAVEL
SEAL/GROUT: 10 OZ. BENTONITE, 60 LBS. CONCRETE, ~1 GAL. WATER

NOTE: SUB-SLAB VAPOR EXTRACTION WELL

LOGGED BY: TETRA TECH/DAWN MONICO
WELL DEPTH: 26.0 INCHES
DATUM: #N/A N/L: #N/A E/L: #N/A
PERMIT NO.: #N/A
GROUND ELEVATION: #N/A

DRILLING
START DATE 4/9/2013
FINISH DATE 4/9/2013

DEPTH (INCHES)	SAMPLE INTERVAL	RECOVERY (INCHES)	BLOW COUNT "N"	MOISTURE CONTENT	PID READING (ppm)

SURFACE CONDITIONS: CONCRETE

WELL INSTALLATION

USCS

BENTONITE GROUT

PEA GRAVEL

PROJECT:	BUILDING C SUB-SLAB DEPRESSURIZATION SYSTEM SECOND-PHASE EXPANSION LOCKHEED MARTIN MIDDLE RIVER COMPLEX	JOB NO. 117-0507537	WELL NUMBER SV-33-C	CLIENT: LOCKHEED MARTIN CORPORATION
		DRILLING METHOD: HAND AUGER		
LOCATION:	2323 EASTERN BOULEVARD, MIDDLE RIVER MARYLAND 21220	COMPANY: S&S TECHNOLOGIES		
		OPERATOR: #N/A		SHEET 1 OF 1
		SAMPLING METHOD: #N/A		
WELL SCREEN: 2-INCH DIA. SCH. 40 PVC, 0.020 INCH SLOTTED				
RISER: 2-INCH DIA. SCH. 40 PVC, SOLID CASING		LOGGED BY: TETRA TECH/DAWN MONICO		DRILLING
FILTER PACK: 3/8-INCH WASHED PEA GRAVEL		WELL DEPTH: 27.0 INCHES		START DATE: 4/11/2013 — FINISH DATE: 4/11/2013
SEAL/GROUT: 10 OZ. BENTONITE, 60 LBS. CONCRETE, ~1 GAL. WATER		DATUM: #N/A	N/L: #N/A E/L: #N/A	
		PERMIT NO.: #N/A		
NOTE: SUB-SLAB VAPOR EXTRACTION WELL		GROUND ELEVATION: #N/A		

DEPTH (INCHES)	SAMPLE INTERVAL	RECOVERY (INCHES)	BLOW COUNT "N"	MOISTURE CONTENT	PID READING (ppm)	SURFACE CONDITIONS: CONCRETE BENTONITE GROUT PEA GRAVEL	USCS	WELL INSTALLATION
1–9				N/A	N/A	CONCRETE	N/A	CASING; COUPLING
10				SLIGHT MOIST	4.0	UNKNOWN BLACK MATERIAL		
11–23	N/A	N/A	N/A	SLIGHT MOIST	4.0	RED-BROWN, LIGHT GRAY, YELLOW-BROWN, CLAY, MOTTLED, HARD, LOW PLASTICITY	CL	SCREEN
24–25				SLIGHT MOIST	4.0	RED-BROWN, CLAY, HARD, LOW PLASTICITY		

PROJECT:	BUILDING C SUB-SLAB DEPRESSURIZATION SYSTEM SECOND-PHASE EXPANSION LOCKHEED MARTIN MIDDLE RIVER COMPLEX	JOB NO. 117-0507537	WELL NUMBER SV-33-C	CLIENT: LOCKHEED MARTIN CORPORATION
		DRILLING METHOD: HAND AUGER		
LOCATION:	2323 EASTERN BOULEVARD, MIDDLE RIVER MARYLAND 21220	COMPANY: S&S TECHNOLOGIES		
		OPERATOR: #N/A		SHEET 1 OF 1
		SAMPLING METHOD: #N/A		
WELL SCREEN: 2-INCH DIA. SCH. 40 PVC, 0.020 INCH SLOTTED				
RISER: 2-INCH DIA. SCH. 40 PVC, SOLID CASING		LOGGED BY: TETRA TECH/DAWN MONICO		DRILLING
FILTER PACK: 3/8-INCH WASHED PEA GRAVEL		WELL DEPTH: 27.0 INCHES		START DATE / FINISH DATE
SEAL/GROUT: 10 OZ. BENTONITE, 60 LBS. CONCRETE, ~1 GAL. WATER		DATUM: #N/A	N/L: #N/A E/L: #N/A	
		PERMIT NO.: #N/A		4/11/2013 / 4/11/2013
NOTE: SUB-SLAB VAPOR EXTRACTION WELL		GROUND ELEVATION: #N/A		

DEPTH (INCHES)	SAMPLE INTERVAL	RECOVERY (INCHES)	BLOW COUNT "N"	MOISTURE CONTENT	PID READING (ppm)	SURFACE CONDITIONS: CONCRETE	USCS	WELL INSTALLATION
						BENTONITE GROUT PEA GRAVEL		
25						RED BROWN, CLAY, HARD, LOW PLASTICITY		
26								END CAP
27								
END OF BORING = 27.0 INCHES								

JOB NO.
117-0507537

CLIENT: LOCKHEED MARTIN CORPORATION

DRILLING METHOD: HAND AUGER

COMPANY: S&S TECHNOLOGIES

OPERATOR: #N/A

SAMPLING METHOD: #N/A

SHEET
1 OF 1

WELL SCREEN: 2-INCH DIA. SCH. 40 PVC, 0.020 INCH SLOTTED

RISER: 2-INCH DIA. SCH. 40 PVC, SOLID CASING

FILTER PACK: 3/8-INCH WASHED PEA GRAVEL

SEAL/GROUT: 10 OZ. BENTONITE, 60 LBS. CONCRETE, ~1 GAL. WATER

NOTE: SUB-SLAB VAPOR EXTRACTION WELL

LOGGED BY: TETRA TECH/DAWN MONICO

WELL DEPTH: 28.0 INCHES

DATUM: #N/A N/L: #N/A E/L: #N/A

PERMIT NO.: #N/A

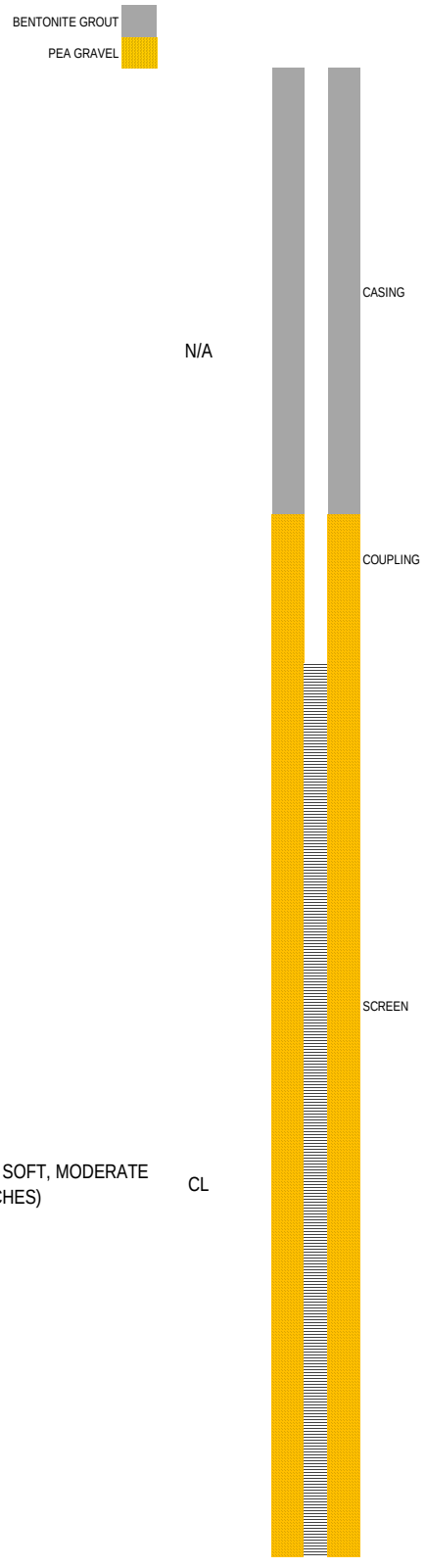
GROUND ELEVATION: #N/A

DRILLING

START DATE	FINISH DATE
4/10/2013	4/10/2013

DEPTH (INCHES)	SAMPLE INTERVAL	RECOVERY (INCHES)	BLOW COUNT "N"	MOISTURE CONTENT	PID READING (ppm)		USCS
1							
2							
3							
4							
5				N/A	N/A	CONCRETE	N/A
6							
7							
8							
9							
10							
11							
12							
13							
14	N/A	N/A	N/A				
15							
16							
17							
18							
19				MOIST	0.0	RED-BROWN, YELLOW-BROWN, SILTY CLAY, MOTTLED, SOFT, MODERATE PLASTICITY (BLACK MOTTLES IN TOP 3 INCHES)	CL
20							
21							
22							
23							
24							
25							

WELL INSTALLATION



JOB NO.
117-0507537

CLIENT: LOCKHEED MARTIN CORPORATION

DRILLING METHOD: HAND AUGER

COMPANY: S&S TECHNOLOGIES

OPERATOR: #N/A

SHEET
1 OF 1

SAMPLING METHOD: #N/A

WELL SCREEN: 2-INCH DIA. SCH. 40 PVC, 0.020 INCH SLOTTED

RISER: 2-INCH DIA. SCH. 40 PVC, SOLID CASING

FILTER PACK: 3/8-INCH WASHED PEA GRAVEL

SEAL/GROUT: 10 OZ. BENTONITE, 60 LBS. CONCRETE, ~1 GAL. WATER

LOGGED BY: TETRA TECH/DAWN MONICO

WELL DEPTH: 28.0 INCHES

DATUM: #N/A

N/L: #N/A

E/L: #N/A

START DATE

FINISH DATE

ATTACHMENT 5

TESTAMERICA ANALYTICAL REPORT—

EXTRACTION-WELL AIR SAMPLING

Tetra Tech GEO

Client Sample ID: SV-30-C

GC/MS Volatiles

Lot-Sample #	H3E080423 - 001	**Work Order #**	M0R0C1AA	**Matrix.....:**	AIR
Date Sampled...:	05/02/2013	**Date Received..:**	05/08/2013		
Prep Date.....:	05/10/2013	**Analysis Date...**	05/11/2013		
Prep Batch #.....:	3133018				
Dilution Factor.:	124.78	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppbo5405/10/2		RESULTS (ug/m3)	

Tetra Tech GEO

Client Sample ID: SV-30-C

GC/MS Volatiles

Lot-Sample # H3E080423 - 001 **Work Order #** M0R0C1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
m-Xylene & p-Xylene	ND	25	ND	110
o-Xylene	ND	25	ND	110

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	102	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Tetra Tech GEO

Client Sample ID: SV-26-C

GC/MS Volatiles

Lot-Sample #	H3E080423 - 002	**Work Order #**	M0R0D1AA	**Matrix.....:**	AIR
Date Sampled...:	05/02/2013	**Date Received..:**	05/08/2013		
Prep Date.....:	05/09/2013	**Analysis Date...**	05/10/2013		
Prep Batch #.....:	3130012				
Dilution Factor.:	10	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Benzene	ND	2.0	ND	6.4
Benzyl chloride	ND	4.0	ND	21
Bromomethane	ND	2.0	ND	7.8
			ND	

Tetra Tech GEO

Client Sample ID: SV-26-C

GC/MS Volatiles

Lot-Sample # H3E080423 - 002 **Work Order #** M0R0D1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
m-Xylene & p-Xylene	ND	2.0	ND	8.7
o-Xylene	ND	2.0	ND	8.7

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	96	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Tetra Tech GEO

Client Sample ID: SV-31-C

GC/MS Volatiles

Lot-Sample # H3E080423 - 003 **Work Order #** M0R0E1AA **Matrix.....:** AIR

Date Sampled...: 05/02/2013 **Date Received..:** 05/08/2013
Prep Date.....: 05/09/2013 **Analysis Date...** 05/10/2013
Prep Batch #.....: 3130012
Dilution Factor.: 10 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Benzene	ND	2.0	ND	6.4
Benzyl chloride	ND	4.0	ND	21
Bromomethane	ND	2.0	ND	7.8
			ND	

Tetra Tech GEO

Client Sample ID: SV-31-C

GC/MS Volatiles

Lot-Sample # H3E080423 - 003 **Work Order #** M0R0E1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
m-Xylene & p-Xylene	ND	2.0	ND	8.7
o-Xylene	ND	2.0	ND	8.7

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	97	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Tetra Tech GEO

Client Sample ID: SV-27-C

GC/MS Volatiles

Lot-Sample # H3E080423 - 004 **Work Order #** M0R0F1AA **Matrix.....:** AIR

Date Sampled...: 05/02/2013 **Date Received..:** 05/08/2013
Prep Date.....: 05/09/2013 **Analysis Date...** 05/10/2013
Prep Batch #.....: 3130012
Dilution Factor.: 10 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Benzene	ND	2.0	ND	6.4
Benzyl chloride	ND	4.0	ND	21
Bromomethane	ND	2.0	ND	7.8
Carbon tetrachloride	ND	2.0	ND	13
Chlorobenzene	ND	2.0	ND	9.2
Chloroethane	ND	2.0	ND	5.3
Chloroform	ND	2.0	ND	9.8
Chloromethane	ND	5.0	ND	10
1,2-Dibromoethane (EDB)	ND	2.0	ND	15
1,2-Dichlorobenzene	ND	2.0	ND	12
1,3-Dichlorobenzene	ND	2.0	ND	12
1,4-Dichlorobenzene	ND	2.0	ND	12
Dichlorodifluoromethane	ND	2.0	ND	9.9
1,1-Dichloroethane	ND	2.0	ND	8.1
1,2-Dichloroethane	ND	2.0	ND	8.1
cis-1,2-Dichloroethene	ND	2.0	ND	7.9
1,1-Dichloroethene	ND	2.0	ND	7.9
1,2-Dichloropropane	ND	2.0	ND	9.2
cis-1,3-Dichloropropene	ND	2.0	ND	9.1
trans-1,3-Dichloropropene	ND	2.0	ND	9.1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	2.0	ND	14
Ethylbenzene	ND	2.0	ND	8.7
Hexachlorobutadiene	ND	10	ND	110
Methylene chloride	ND	5.0	ND	17
Styrene	ND	2.0	ND	8.5
1,1,2,2-Tetrachloroethane	ND	2.0	ND	14
Tetrachloroethene	ND	2.0	ND	14
Toluene	**2.7**	**2.0**	**10**	**7.5**
1,2,4-Trichlorobenzene	ND	10	ND	74
1,1,1-Trichloroethane	ND	2.0	ND	11
1,1,2-Trichloroethane	ND	2.0	ND	11
Trichloroethene	**75**	**2.0**	**400**	**11**
Trichlorofluoromethane	ND	2.0	ND	11
1,1,2-Trichloro-1,2,2-trifluoroethane	**16**	**2.0**	**120**	**15**
1,2,4-Trimethylbenzene	ND	2.0	ND	9.8
1,3,5-Trimethylbenzene	ND	2.0	ND	9.8
Vinyl chloride	ND	2.0	ND	5.1

Tetra Tech GEO

Client Sample ID: SV-27-C

GC/MS Volatiles

Lot-Sample # H3E080423 - 004 **Work Order #** M0R0F1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
m-Xylene & p-Xylene	ND	2.0	ND	8.7
o-Xylene	ND	2.0	ND	8.7

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	98	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Tetra Tech GEO

Client Sample ID: SV-32-C

GC/MS Volatiles

Lot-Sample #	H3E080423 - 005	**Work Order #**	M0R0G1AA	**Matrix.....:**	AIR
		Date Received..:	05/08/2013		
		Analysis Date...	05/10/2013		
Prep Batch #.....:	3130012				
Dilution Factor.:	66.91	**Method.....:**	TO-15		

Tetra Tech GEO

Client Sample ID: SV-32-C

GC/MS Volatiles

Lot-Sample # H3E080423 - 005 **Work Order #** M0R0G1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
m-Xylene & p-Xylene	ND	13	ND	58
o-Xylene	ND	13	ND	58

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	96	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Tetra Tech GEO

Client Sample ID: SV-28-C

GC/MS Volatiles

Lot-Sample #	H3E080423 - 006	**Work Order #**	M0R0H1AA	**Matrix.....:**	AIR
Date Sampled...:	05/02/2013	**Date Received..:**	05/08/2013		
Prep Date.....:	05/09/2013	**Analysis Date...**	05/10/2013		
Prep Batch #.....:	3130012				
Dilution Factor.:	16.67	**Method.....:**	TO-15		

PARAMETER6p876 l h V

Tetra Tech GEO

Work Order # **Matrix.....:**

Tetra Tech GEO

Client Sample ID: SV-33-C

GC/MS Volatiles

Lot-Sample #	H3E080423 - 007	**Work Order #**	M0R0J1AA	**Matrix.....:**	AIR
			05/08/2013		
		Analysis Date...	05/10/2013		
		Method.....:	TO-15		

Tetra Tech GEO

Client Sample ID: SV-33-C

GC/MS Volatiles

Lot-Sample # H3E080423 - 007 **Work Order #** M0R0J1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
m-Xylene & p-Xylene	ND	230	ND	1000
o-Xylene	ND	230	ND	1000

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	102	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lot-Sample # H3E080423 - 008

Date Sampled...: 05/02/2013
Prep Date.....: 05/09/2013
Prep Batch #.....: 3130012
Dilution Factor.: 16.67

PARAMETER	RESULTS (ppb(v/v))	
Benzene	ND	
Benzyl chloride	ND	
Bromomethane	ND	3.3
Carbon tetrachloride	ND	3.3
Chlorobenzene	ND	3.3
Chloroethane	ND	3.3
Chloroform	ND	3.3

Tetra Tech GEO

Client Sample ID: SV-29-C

GC/MS Volatiles

Lot-Sample # H3E080423 - 008 **Work Order #** M0R0K1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
m-Xylene & p-Xylene	**220**	**3.3**	**970**	**14**
o-Xylene	**100**	**3.3**	**450**	**14**

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	92	60 - 140

Tetra Tech GEO

Client Sample ID: SV-34-C

GC/MS Volatiles

Lot-Sample #	H3E080423 - 009	**Work Order #**	M0R0L1AA	**Matrix.....:**	AIR
Date Sampled...:	05/02/2013	**Date Received..:**	05/08/2013		
Prep Date.....:	05/10/2013	**Analysis Date...**	05/11/2013		
Prep Batch #.....:	3133018				
Dilution Factor.:	55.44	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Benzene	ND	11	ND	35
Benzyl chloride	ND	22	ND	110
Bromomethane	ND	0 0 rg /TT1	ND	43

Tetra Tech GEO

Client Sample ID: SV-34-C

GC/MS Volatiles

Lot-Sample # H3E080423 - 009 **Work Order #** M0R0L1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
m-Xylene & p-Xylene	ND	11	ND	48
o-Xylene	ND	11	ND	48

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	103	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Tetra Tech GEO

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample #	H3E100000 - 012B	**Work Order #**	M0TEH1AA	**Matrix.....:**	AIR
		Date Received..:	05/08/2013		
	05/09/2013	**Analysis Date...**	05/10/2013		
Prep Batch #.....:	3130012				
Dilution Factor.:	1	**Method.....:**	TO-15		

Tetra Tech GEO

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H3E100000 - 012B **Work Order #** M0TEH1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
m-Xylene & p-Xylene	ND	0.20	ND	0.87
o-Xylene	ND	0.20	ND	0.87

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	95	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Tetra Tech GEO

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H3E100000 - 012C **Work Order #** M0TEH1AC **Matrix.....:** AIR

	05/02/2013	**Date Received..:**	05/08/2013
Prep Date.....:	05/09/2013	**Analysis Date...**	05/09/2013
Prep Batch #.....:	3130012		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
Benzene	5.00	4.40	16	14.1	88	70 - 130
Benzyl chloride	5.00	3.88	26	20.1	78	70 - 130
Bromomethane	5.00	5.23	19	20.3	105	70 - 130
Carbon tetrachloride	5.00	5.55	31	34.9	111	70 - 130
Chlorobenzene	5.00	4.51	23	20.8	90	70 - 130
Chloroethane	5.00	5.40	13	14.2	108	70 - 130
Chloroform	5.00	4.56	24	22.3	91	70 - 130
Chloromethane	5.00	5.30	10	11.0	106	60 - 140
1,2-Dibromoethane (EDB)	5.00	4.56	38	35.0	91	70 - 130
1,2-Dichlorobenzene	5.00	4.40	30	26.5	88	70 - 130
1,3-Dichlorobenzene	5.00	4.32	30	26.0	86	70 - 130
						70 - 130

Tetra Tech GEO

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H3E100000 - 012C **Work Order #** M0TEH1AC **Matrix.....:** AIR

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
Vinyl chloride	5.00	5.29	13	13.5	106	70 - 130
	10.0	9.01	43	39.1		70 - 130

Tetra Tech GEO

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample #	H3E130000 - 018B	**Work Order #**	M0TP81AA	**Matrix.....:**	AIR
	05/06/2013	**Date Received..:**	05/09/2013		
Prep Date.....:	05/10/2013	**Analysis Date...**	05/10/2013		
Prep Batch #.....:	3133018				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Benzene	ND	0.20	ND	0.64
Benzyl chloride	ND	0.40	ND	2.1
Bromomethane	ND	0.20	ND	0.78
Carbon tetrachloride	ND	0.20	ND	1.3
Chlorobenzene	ND	0.20	ND	0.92
Chloroethane	ND	0.20	ND	0.53
Chloroform	ND	0.20	ND	0.98
Chloromethane	ND	0.50	ND	1.0
1,2-Dibromoethane (EDB)	ND	0.20	ND	1.5
1,2-Dichlorobenzene	ND	0.20	ND	1.2
1,3-Dichlorobenzene	ND	0.20	ND	1.2
1,4-Dichlorobenzene	ND	0.20	ND	1.2
Dichlorodifluoromethane	ND	0.20	ND	0.99
1,1-Dichloroethane	ND	0.20	ND	0.81
1,2-Dichloroethane	ND	0.20	ND	0.81
cis-1,2-Dichloroethene	ND	0.20	ND	0.79
1,1-Dichloroethene	ND	0.20	ND	0.79
0.05 0 0 0.TT1 179 Tf6Tf6T Q q 0.05 (			ND	0.92

Tetra Tech GEO

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H3E130000 - 018B **Work Order #** M0TP81AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/5 l h W r		RESULTS (ug/m3)	

Tetra Tech GEO

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H3E130000 - 018C **Work Order #** M0TP81AC **Matrix.....:** AIR

	05/06/2013	**Date Received..:**	05/09/2013
Prep Date.....:	05/10/2013	**Analysis Date...**	05/10/2013
Prep Batch #.....:	3133018		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
Benzene	5.00	3.83	16	12.2	77	70 - 130
Benzyl chloride	5.00	4.23	26	21.9	85	70 - 130
Bromomethane	5.00	4.10	19	15.9	82	70 - 130
Carbon tetrachloride	5.00	4.86	31	30.6	97	70 - 130
Chlorobenzene	5.00	4.02	23	18.5	80	70 - 130
Chloroethane	5.00	3.80	13	10.0	76	70 - 130
Chloroform	5.00	3.95	24	19.3	79	70 - 130
Chloromethane	5.00	3.66	10	7.56	73	60 - 140
1,2-Dibromoethane (EDB)	5.00	4.21	38	32.3	84	70 - 130
1,2-Dichlorobenzene	5.00	4.22	30	25.4	84	70 - 130
1,3-Dichlorobenzene	5.00	4.22	30	25.4	84	70 - 130
1,4-Dichlorobenzene	5.00	4.21	30	25.3	84	70 - 130
	5.00	4.54	25	22.5		60 - 140

ATTACHMENT 6

WASTE DISPOSAL DOCUMENTATION

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use

H. Handling Codes for Wastes Listed Above

Date

ATTACHMENT 7

UPDATED OPERATION AND MAINTENANCE MANUAL

(PROVIDED SEPARATELY)