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REC'D SEP 26 2016

September 20, 2016

BRRTS #: 03-41-543343
PECFA #: 53218-5041-07-A

Greg Michael
Wisconsin Department of Natural Resources
141 NW. Barstow
Waukesha, WI 53188

Subject: Kipp's Auto & Towing Service – Summary Report

Dear Mr. Michael,

Enclosed is the Summary Report for the Kipp's Auto & Towing Service site located at 5507 W Hampton Avenue in Milwaukee, Wisconsin. **This completes the Public Bidding Deferred workscope approved on August 11, 2015.**

Vapor Sampling Workscope

On December 7-8, 2015, Fehr Graham Engineering and Environmental of Plymouth, WI collected two indoor air samples (IA-5431 and IA-5433) from the basement of the residences located at 5431 and 5433 West Hampton Avenue. The air samples were collected using a Suma canister with a flow regulator that allowed the air sample to be collected over a 24 hour period for VOC analysis.

On December 7, 2015, Fehr Graham-Engineering & Environmental installed one sub-slab vapor sampling port (SS-3) in the basement of residence 5431 West Hampton Avenue. The sub-slab vapor sampling port was constructed by drilling a ½-inch pilot hole through the concrete slab and several inches into the sub slab material with a hammer drill. A 1½-inch outer hole is then drilled to depths ranging from ¾ -inch to 1-inch, depending on the concrete slab thickness. The hole was cleaned of dust and drilling debris using a shop-vac. A stainless steel vapor pin is installed in the inner hole with a silicon sleeve to obtain an air tight seal with the concrete floor. The remainder of the hole is sealed with hydrated bentonite and a water dam test was conducted to confirm that the seal is air tight.

On December 7, 2015, Fehr Graham-Engineering & Environmental collected vapor sample from the sub-slab sampling port (SS-3) for VOC (TO-15) analysis. Vapor sample was collected by using a short length of Teflon tubing to connect the sampling port and a 6-liter Suma canister. The air sample was collected using a Suma canister with a flow regulator that allowed the sub-slab vapor sample to be collected over a 30 minute period. Prior to collecting the sub-slab vapor sample, a shut in test was conducted to assure that the fittings between the sample probe and sampling container are air tight. No leaks were detected. The sub-slab soil vapor sampling results are summarized in the attached data table.

Fehr Graham attempted to install a sub-slab vapor sampling port (SS-1) under the residence at 5433 W Hampton Ave. However after drilling through the basement slab, groundwater was

encountered immediately beneath the slab and a sub-slab vapor sample could not be collected. It was discovered that the basement sump was not working. Instead, METCO personnel collected a water sample from the sump (5433) for PVOC and Naphthalene analysis. The proposed sub-slab vapor sampling port (SS-2) beneath Aby's African Hair Braiding was not conducted as there was no basement underneath this section of the building.

Drilling Project

On December 7, 2015, Geiss Soil and Samples LLC, of Merrill, Wisconsin, conducted a drilling project under the supervision of METCO personnel. During the drilling project, one monitoring well (MW-8) was installed to 15 feet bgs. Four soil samples were collected during the drilling project for field (PID) and/or laboratory analysis (PVOC and Naphthalene). Upon completion, monitoring well MW-8 was properly developed.

Groundwater Monitoring Worksopce

On February 16, 2016, METCO personnel collected groundwater samples from seven monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-6, MW-7, and MW-8) for VOC (MW-8), PVOC, and Naphthalene analysis. Water level, dissolved oxygen, pH, ORP, specific conductance, and temperature measurements were collected from all sampled wells. Monitoring well MW-5 was not sampled during this round because it was covered by a pile of dirt. Monitoring well MW-8 was surveyed at this time.

On May 18, 2016, METCO personnel collected groundwater samples from eight monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, and MW-8) for PVOC and Naphthalene analysis. Water level, dissolved oxygen, pH, ORP, specific conductance, and temperature measurements were collected from all sampled wells.

Waste Disposal

On April 28, 2016, DKS Transport Services, LLC of Menomonie, Wisconsin picked up and disposed of one drum of soil cuttings at the Advanced Disposal – Seven Mile Creek Landfill in Eau Claire, Wisconsin.

Discussion of Results:

Discussion of Vapor Results:

Indoor Air Sample IA-5431: Showed no exceedances of the Residential Indoor Air Vapor Action Levels (VALs).

Indoor Air Sample IA-5433: Showed no exceedances of the Residential Indoor Air Vapor Action Levels (VALs).

Sub-Slab Vapor Sample SS-3: Showed no exceedances of the Residential Sub-Slab Vapor Action Levels (VALs).

Discussion of Soil Results:

Soil Sample G-8-2: Collected at a depth of 8 feet bgs, showed NR720 Groundwater RCL exceedences for Benzene (4.1 ppm), Ethylbenzene (4.0 ppm), Napthalene (4.4 ppm), and Trimethylbenzenes (1.49 ppm).

Discussion of Groundwater Results:

Monitoring Well MW-1: Currently shows NR140 Enforcement Standard (ES) exceedences for Benzene (3,010 ppb), Ethylbenzene (3,500 ppb), Naphthalene (340 ppb), and Trimethylbenzenes (525 ppb), as well as a NR140 Preventative Action Limit (PAL) exceedance for Xylene (892 ppb). Contaminant concentrations appear to be decreasing to stable.

Monitoring Well MW-2: Currently shows no detects for PVOC and Napthalene.

Monitoring Well MW-3: Currently shows no detects for PVOC and Napthalene.

Monitoring Well MW-4: Currently shows no detects for PVOC and Napthalene.

Monitoring Well MW-5: Currently shows no detects for PVOC and Napthalene.

Monitoring Well MW-6: Currently shows no detects for PVOC and Napthalene.

Monitoring Well MW-7: Currently shows no detects for PVOC and Napthalene.

Monitoring Well MW-8: Currently shows NR140 ES exceedences for Benzene (96 ppb) and Naphthalene (272 ppb), as well as a NR140 PAL exceedance for Ethylbenzene (320 ppb).

Sump 5433: Currently shows no detects for PVOC and Napthalene.

Conclusions/Recommendations

Due to an increase in contaminant levels in monitoring well MW-1 and that monitoring well MW-8 has only had two rounds collected from it, the WDNR will likely require additional groundwater monitoring prior to closure.

Also prior to closure, residual soil contamination will need to be addressed via a cap maintenance plan.

It should also be noted that, based on vapor results and groundwater samples from neighboring property sumps the risk of vapor intrusion appears unlikely.

Per WDNR response, METCO will proceed with the project.

A Detailed Site Map, Groundwater Flow Maps, Groundwater Contamination Map, Data Tables, Drilling Documents, Vapor Documents, and Laboratory Documents have been attached.

If you have any questions or comments please feel free to call (608-781-8879) or email at jasonp@metcohq.com.

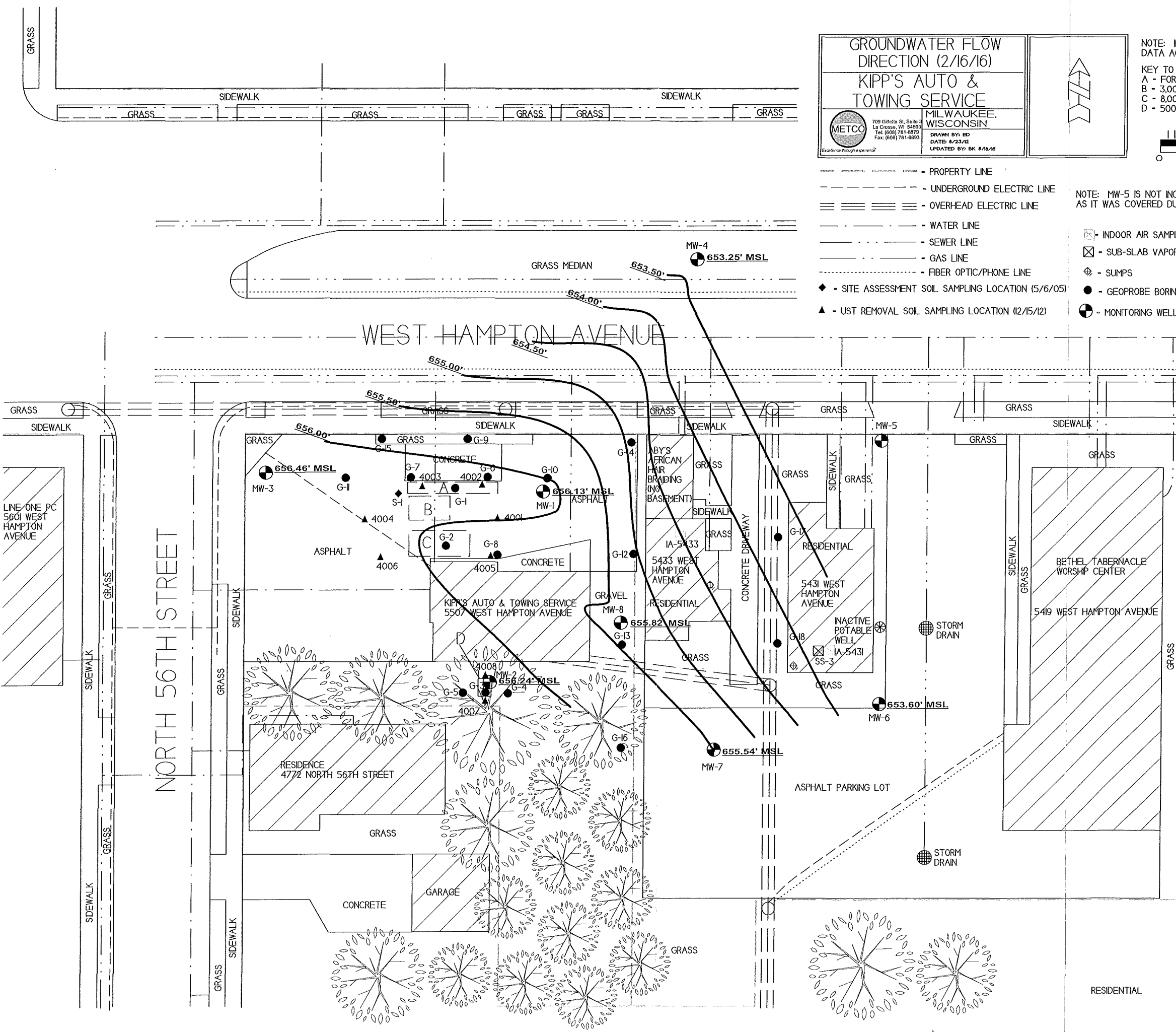
Sincerely,

A handwritten signature in black ink that reads "Jason T. Powell". The signature is fluid and cursive, with a long horizontal stroke extending to the left.

Jason T. Powell
Staff Scientist

Attachments

c: Melvin Kipp – Client
David Bent – Bethel Tabernacle Worship Center



**GROUNDWATER FLOW
DIRECTION (2/16/16)**

**KIPP'S AUTO &
TOWING SERVICE**

METCO
709 Gellatue St. Suite 2
La Crosse, WI 54603
Tel: (608) 781-8879
Fax: (608) 781-8893

**MILWAUKEE,
WISCONSIN**
DRAWN BY: ED
DATE: 8/23/12
UPDATED BY: BK 8/18/16

NOTE: INFORMATION BASED ON AVAILABLE DATA ACTUAL CONDITIONS MAY DIFFER

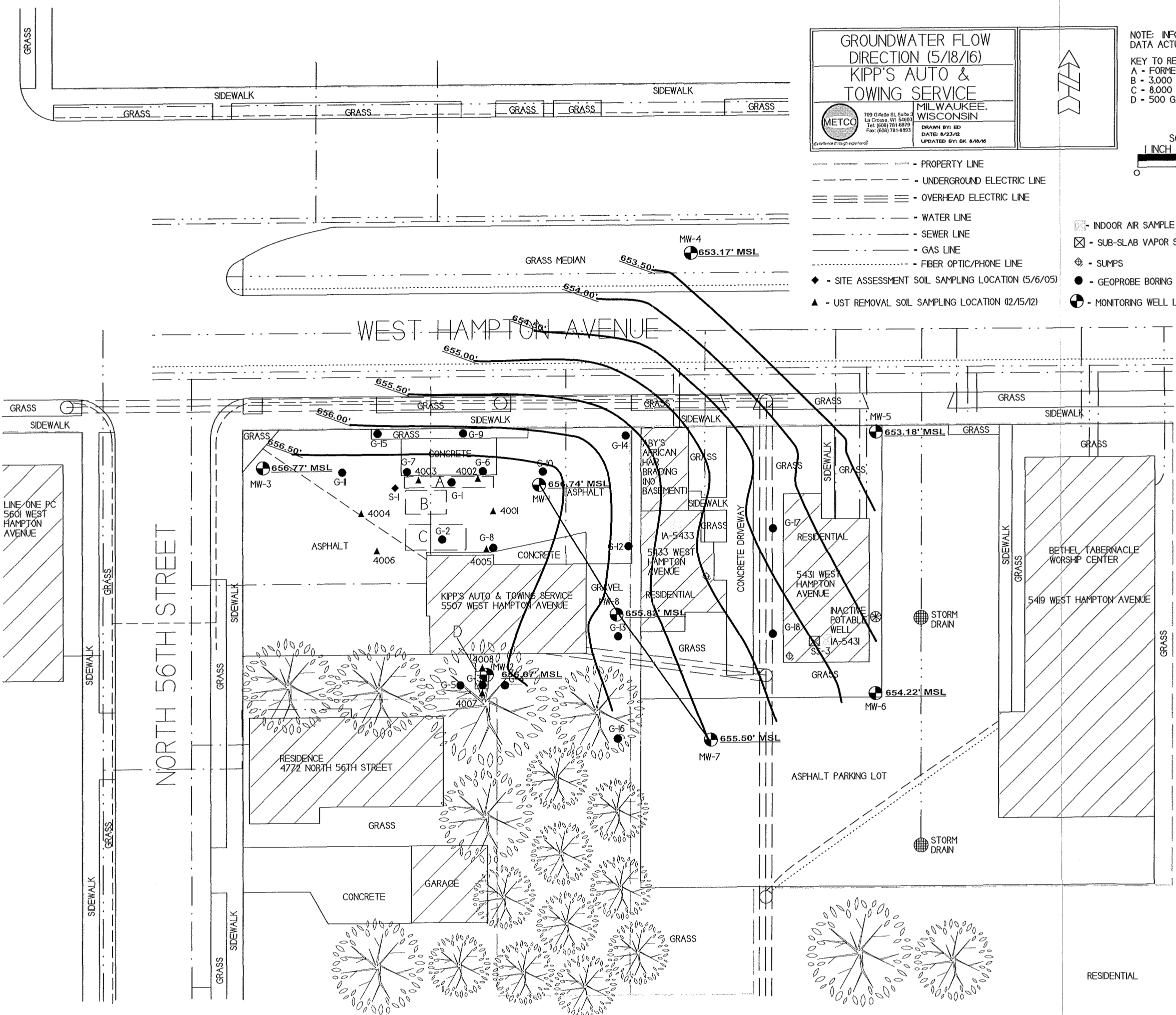
KEY TO REMOVED UST SYSTEMS
 A - FORMER PUMP ISLAND
 B - 3,000 GALLON GASOLINE UST
 C - 8,000 GALLON GASOLINE UST
 D - 500 GALLON WASTE OIL

SCALE:
 1 INCH = 30 FEET

- — — — — PROPERTY LINE
- - - - - UNDERGROUND ELECTRIC LINE
- ≡ ≡ ≡ ≡ ≡ OVERHEAD ELECTRIC LINE
- — — — — WATER LINE
- — — — — SEWER LINE
- — — — — GAS LINE
- · — · — FIBER OPTIC/PHONE LINE
- ◆ - SITE ASSESSMENT SOIL SAMPLING LOCATION (5/6/05)
- ▲ - UST REMOVAL SOIL SAMPLING LOCATION (12/15/12)

NOTE: MW-5 IS NOT INCLUDED IN FLOW CALCULATIONS AS IT WAS COVERED DURING THIS ROUND OF SAMPLING

- ⊠ - INDOOR AIR SAMPLE LOCATION
- ⊞ - SUB-SLAB VAPOR SAMPLE LOCATION
- ⊕ - SUMPS
- - GEOPROBE BORING LOCATION
- ⊙ - MONITORING WELL LOCATION



**GROUNDWATER FLOW
DIRECTION (5/18/16)
KIPP'S AUTO &
TOWING SERVICE**

METCO
709 Cottage St. Suite 2
La Crosse, WI 54603
Tel. (608) 781-8879
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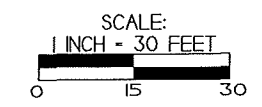
Experience through experience

**MILWAUKEE,
WISCONSIN**

DRAWN BY: ED
DATE: 8/23/12
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A - FORMER PUMP ISLAND
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- PROPERTY LINE
- UNDERGROUND ELECTRIC LINE
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- ▲ - UST REMOVAL SOIL SAMPLING LOCATION (12/15/12)
- ⊗ - INDOOR AIR SAMPLE LOCATION
- ⊠ - SUB-SLAB VAPOR SAMPLE LOCATION
- ⊕ - SUMPS
- - GEOPROBE BORING LOCATION
- ⊙ - MONITORING WELL LOCATION

A.1 Groundwater Analytical Table
 (Geoprobe)
 Kipp's Auto & Towing Service BRRS# 03-41-543343

Sample ID	Date	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
G-1-W	04/22/13	101	123	58	52	34	80	399
G-2-W	04/22/13	14	18.9	38	9.0	2.24	23.1	21.41
G-3-W	04/22/13	5.5	5.9	8.0	3.5	1.28	55.1	14.7
G-4-W	04/22/13	<0.27	<0.82	5.4	0.053	<0.8	<1.69	<2.41
G-5-W	04/22/13	0.42	<0.82	25.8	0.032	<0.8	<1.69	<2.41
G-6-W	04/22/13	65	1230	105	1070	13.9	803	716.3
G-7-W	04/22/13	42	580	65	350	<8	615	244.4
G-8-W	04/22/13	34	16.5	90	6.5	3.2	23.2	29.7
G-9-W	04/22/13	57	2880	78	780	28.9	3362	2620.1
G-10-W	04/22/13	5600	4700	155	630	1220	4230	13730
G-11-W	04/22/13	1.97	3.15	3.9	<1.2	1.18	2.25-3.11	7.11
G-12-W	04/22/13	46	206	10.9	103	3.3	14.6	22.24
G-13-W	04/22/13	121	1200	<3.7	460	<8	220	65-73.1
G-14-W	04/22/13	19.5	112	10.7	43	1.51	8.89	6.40-7.21
G-15-W	04/23/13	14.4	269	<1.85	208	21.6	86.4	133.1
G-16-W	04/23/13	3.3	12.7	13.6	6.7	24.3	36.7	81.2
ENFORCEMENT STANDARD ES = Bold		5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = <i>Italics</i>		0.5	140	12	10	160	96	400

NS = Not Sampled
 (ppb) = parts per billion (ppm) = parts per million
 DRO = Diesel Range Organics
 GRO = Gasoline Range Organics

A.1 Groundwater Analytical Table
 (Geoprobe PAH)
 Kipp's Auto & Towing Service BRRTS# 03-41-543343

Sample	Date	Acenaph- thene (ppb)	Acenaph- thylene (ppb)	Anthracene (ppb)	Benzo(a) anthracene (ppb)	Benzo(a) pyrene (ppb)	Benzo(b) fluoranthene (ppb)	Benzo(g,h,i) perylene (ppb)	Benzo(k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h) anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd) pyrene (ppb)	1-Methyl- naphthalene (ppb)	2-Methyl- naphthalene (ppb)	Naph- thalene (ppb)	Phenan- threne (ppb)	Pyrene (ppb)
G-1-W	04/22/13																		
G-2-W	04/22/13																		
G-3-W	04/22/13	0.038	0.032	0.022	0.030	0.025	0.030	0.091	<0.027	0.03	<0.023	0.027	0.036	<0.027	4.1	1.31	3.5	0.086	0.06
G-4-W	04/22/13	<0.021	<0.02	<0.02	<0.025	<0.018	<0.02	<0.023	<0.027	<0.018	<0.023	<0.026	<0.02	<0.027	0.033	0.031	0.053	<0.018	<0.025
G-5-W	04/22/13	<0.021	<0.02	<0.02	<0.025	<0.018	<0.02	<0.023	<0.027	<0.018	<0.023	<0.026	<0.02	<0.027	0.035	0.019	0.032	<0.018	<0.025
G-6-W	04/22/13																		
G-7-W	04/22/13																		
G-8-W	04/22/13																		
G-9-W	04/22/13																		
G-10-W	04/22/13																		
G-11-W	04/22/13																		
G-12-W	04/22/13																		
G-13-W	04/22/13																		
G-14-W	04/22/13																		
G-15-W	04/23/13																		
G-16-W	04/23/13																		
ENFORCE MENT STANDARD = ES - Bold		-	-	3000	-	0.2	0.2	-	-	0.2	-	400	400	-	-	-	100	-	250
PREVENTIVE ACTION LIMIT = <i>PAL</i> - <i>Italics</i>		-	-	600	-	0.02	0.02	-	-	0.02	-	80	80	-	-	-	10	-	50

NS = Not Sampled

(ppb) = parts per billion (ppm) = parts per million

A.1 Groundwater Analytical Table
 Kipp's Auto & Towing Service BRRTS# 03-41-543343

Well MW-1
 PVC Elevation = 660.40 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
09/23/14	656.01	4.39	1.5	2010	<4.4	52	370	83	591	1448
12/17/14	655.00	5.40	1.9	2010	2280	70	340	103	602	1261
02/16/16	656.13	4.27	NS	2350	2440	63	194	116	389	808
05/18/16	656.74	3.66	NS	3010	3500	<22	340	106	525	892
ENFORCE MENT STANDARD ES = Bold			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = Italics			1.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million
 ns = not sampled nm = not measured
 Note: Elevations are presented in feet mean sea level (msl).

Well MW-2
 PVC Elevation = 663.75 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
09/23/14	654.03	9.72	<0.06	0.74	<0.55	5.2	<1.7	<0.69	<3.6	<1.32
12/17/14	655.02	8.73	NS	1.39	<0.82	4	NS	<0.8	<1.69	<2.41
02/16/16	656.24	7.51	NS	0.48	<0.73	1.62	<2.6	<0.39	<1.51	<2.06
05/18/16	656.67	7.08	NS	<0.44	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
ENFORCE MENT STANDARD ES = Bold			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = Italics			1.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million
 ns = not sampled nm = not measured
 Note: Elevations are presented in feet mean sea level (msl).

Well MW-3
 PVC Elevation = 661.94 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
09/23/14	656.59	5.35	<0.06	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
12/17/14	656.11	5.83	NS	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
02/16/16	656.46	5.48	NS	<0.46	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
05/18/16	656.77	5.17	NS	<0.44	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
ENFORCE MENT STANDARD ES = Bold			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = Italics			1.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million
 ns = not sampled nm = not measured
 Note: Elevations are presented in feet mean sea level (msl).

A.1 Groundwater Analytical Table
Kipp's Auto & Towing Service BRRTS# 03-41-543343

Well MW-4

PVC Elevation = 659.99 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
09/23/14	652.73	7.26	<0.06	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
12/17/14	652.35	7.64	NS	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
02/16/16	653.25	6.74	NS	<0.46	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
05/18/16	653.17	6.82	NS	<0.44	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
ENFORCE MENT STANDARD ES = Bold			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = Italics			1.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million
ns = not sampled nm = not measured

Note: Elevations are presented in feet mean sea level (msl).

Well MW-5

PVC Elevation = 658.49 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
09/23/14	652.73	5.76	<0.06	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
12/17/14	652.79	5.70	NS	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
02/16/16	UNDER DIRT PILE									
05/18/16	653.18	5.31	NS	<0.44	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
ENFORCE MENT STANDARD ES = Bold			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = Italics			1.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million
ns = not sampled nm = not measured

Note: Elevations are presented in feet mean sea level (msl).

Well MW-6

PVC Elevation = 657.87 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
09/23/14	653.23	4.64	<0.06	0.57	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
12/17/14	653.27	4.60	NS	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
02/16/16	653.60	4.27	NS	<0.46	<0.73	<0.49	<2.6	0.50	<1.51	<2.06
05/18/16	654.22	3.65	NS	<0.44	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
ENFORCE MENT STANDARD ES = Bold			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = Italics			1.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million
ns = not sampled nm = not measured

Note: Elevations are presented in feet mean sea level (msl).

A.1 Groundwater Analytical Table
 Kipp's Auto & Towing Service BRRTS# 03-41-543343

Well MW-7
 PVC Elevation = 657.75 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
09/23/14	653.02	4.73	<0.06	<0.24	<0.55	15.8	<1.7	<0.69	<3.6	<1.32
12/17/14	654.24	3.51	NS	0.53	<0.82	3.3	NS	<0.8	<1.69	<2.41
02/16/16	655.54	2.21	NS	0.64	<0.73	3.4	<2.6	<0.39	<1.51	<2.06
05/18/16	655.50	2.25	NS	<0.44	<0.71	5.4	<1.6	<0.44	<3.1	<3.1
ENFORCEMENT STANDARD ES = Bold			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = Italics			1.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million
 ns = not sampled nm = not measured
 Note: Elevations are presented in feet mean sea level (msl).

Well MW-8
 PVC Elevation = 660.84 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
02/16/16	655.38	5.46	NS	91	225	<1.1	192	2.5	3.13-4.73	6.1-7
05/18/16	655.82	5.02	NS	96	320	<11	272	<4.4	<31	<31
ENFORCEMENT STANDARD ES = Bold			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = Italics			1.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million
 ns = not sampled nm = not measured
 Note: Elevations are presented in feet mean sea level (msl).

5431 Sump

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
09/23/14	NM	NM	NS	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
12/17/14	NOT SAMPLED									
02/16/16	NOT SAMPLED									
05/18/16	NOT SAMPLED									
ENFORCEMENT STANDARD ES = Bold			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = Italics			1.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million
 ns = not sampled nm = not measured
 Note: Elevations are presented in feet mean sea level (msl).

5433 Sump

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
09/23/14	NM	NM	NS	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
12/17/14	NOT SAMPLED									
12/07/15	NM	NM	NS	<0.44	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
02/16/16	NOT SAMPLED									
05/18/16	NOT SAMPLED									
ENFORCEMENT STANDARD ES = Bold			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = Italics			1.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million
 ns = not sampled nm = not measured
 Note: Elevations are presented in feet mean sea level (msl).

A.1 Groundwater Analytical Table
(PAH)
Kipp's Auto & Towing Service BRRTS# 03-41-543343

Well MW-1

Date	Ace-naphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo(a)anthracene (ppb)	Benzo(a)pyrene (ppb)	Benzo(b)fluoranthene (ppb)	Benzo(g,h,i)Perylene (ppb)	Benzo(k)fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h)anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd)pyrene (ppb)	1-Methylnaphthalene (ppb)	2-Methylnaphthalene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)	
09/23/14	NOT SAMPLED																		
12/17/14	NOT SAMPLED																		
ENFORCEMENT STANDARD = ES - Bold				3000	-	0.2	0.2	-	-	0.2	-	400	400	-	-	-	100	-	250
PREVENTIVE ACTION LIMIT = PAL - Italics				600	-	0.02	0.02	-	-	0.02	-	80	80	-	-	-	10	-	50

(ppb) = parts per billion (ppm) = parts per million
ns = not sampled nm = not measured
Note: Elevations are presented in feet mean sea level (msl).

Well MW-2

Date	Ace-naphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo(a)anthracene (ppb)	Benzo(a)pyrene (ppb)	Benzo(b)fluoranthene (ppb)	Benzo(g,h,i)Perylene (ppb)	Benzo(k)fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h)anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd)pyrene (ppb)	1-Methylnaphthalene (ppb)	2-Methylnaphthalene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)	
09/23/14	<0.018	<0.02	<0.018	<0.023	<0.02	<0.019	<0.024	<0.027	<0.018	<0.028	<0.022	<0.022	<0.027	<0.021	<0.024	0.046	<0.018	<0.022	
12/17/14	SAMPLE BOTTLE RECEIVED BROKEN																		
ENFORCEMENT STANDARD = ES - Bold				3000	-	0.2	0.2	-	-	0.2	-	400	400	-	-	-	100	-	250
PREVENTIVE ACTION LIMIT = PAL - Italics				600	-	0.02	0.02	-	-	0.02	-	80	80	-	-	-	10	-	50

(ppb) = parts per billion (ppm) = parts per million
ns = not sampled nm = not measured
Note: Elevations are presented in feet mean sea level (msl).

Well MW-3

Date	Ace-naphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo(a)anthracene (ppb)	Benzo(a)pyrene (ppb)	Benzo(b)fluoranthene (ppb)	Benzo(g,h,i)Perylene (ppb)	Benzo(k)fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h)anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd)pyrene (ppb)	1-Methylnaphthalene (ppb)	2-Methylnaphthalene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)	
09/23/14	NOT SAMPLED																		
12/17/14	NOT SAMPLED																		
ENFORCEMENT STANDARD = ES - Bold				3000	-	0.2	0.2	-	-	0.2	-	400	400	-	-	-	100	-	250
PREVENTIVE ACTION LIMIT = PAL - Italics				600	-	0.02	0.02	-	-	0.02	-	80	80	-	-	-	10	-	50

(ppb) = parts per billion (ppm) = parts per million
ns = not sampled nm = not measured
Note: Elevations are presented in feet mean sea level (msl).

A.1 Groundwater Analytical Table
(PAH)
Kipp's Auto & Towing Service BRRS# 03-41-543343

Well MW-4

Date	Ace-naphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo(a)anthracene (ppb)	Benzo(a)pyrene (ppb)	Benzo(b)fluoranthene (ppb)	Benzo(g,h,i)Perylene (ppb)	Benzo(k)fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h)anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd)pyrene (ppb)	1-Methylnaphthalene (ppb)	2-Methylnaphthalene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
09/23/14	NOT SAMPLED																	
12/17/14	NOT SAMPLED																	
ENFORCEMENT STANDARD = ES - Bold			3000	-	0.2	0.2	-	-	0.2	-	400	400	-	-	-	100	-	250
PREVENTIVE ACTION LIMIT = PAL - Italics			600	-	0.02	0.02	-	-	0.02	-	80	80	-	-	-	10	-	50

(ppb) = parts per billion (ppm) = parts per million
ns = not sampled nm = not measured
Note: Elevations are presented in feet mean sea level (msl).

Well MW-5

Date	Ace-naphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo(a)anthracene (ppb)	Benzo(a)pyrene (ppb)	Benzo(b)fluoranthene (ppb)	Benzo(g,h,i)Perylene (ppb)	Benzo(k)fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h)anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd)pyrene (ppb)	1-Methylnaphthalene (ppb)	2-Methylnaphthalene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
09/23/14	NOT SAMPLED																	
12/17/14	NOT SAMPLED																	
ENFORCEMENT STANDARD = ES - Bold			3000	-	0.2	0.2	-	-	0.2	-	400	400	-	-	-	100	-	250
PREVENTIVE ACTION LIMIT = PAL - Italics			600	-	0.02	0.02	-	-	0.02	-	80	80	-	-	-	10	-	50

(ppb) = parts per billion (ppm) = parts per million
ns = not sampled nm = not measured
Note: Elevations are presented in feet mean sea level (msl).

Well MW-6

Date	Ace-naphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo(a)anthracene (ppb)	Benzo(a)pyrene (ppb)	Benzo(b)fluoranthene (ppb)	Benzo(g,h,i)Perylene (ppb)	Benzo(k)fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h)anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd)pyrene (ppb)	1-Methylnaphthalene (ppb)	2-Methylnaphthalene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
09/23/14	NOT SAMPLED																	
12/17/14	NOT SAMPLED																	
ENFORCEMENT STANDARD = ES - Bold			3000	-	0.2	0.2	-	-	0.2	-	400	400	-	-	-	100	-	250
PREVENTIVE ACTION LIMIT = PAL - Italics			600	-	0.02	0.02	-	-	0.02	-	80	80	-	-	-	10	-	50

(ppb) = parts per billion (ppm) = parts per million
ns = not sampled nm = not measured
Note: Elevations are presented in feet mean sea level (msl).

A.1 Groundwater Analytical Table
(PAH)
Kipp's Auto & Towing Service BRTS# 03-41-543343

Well MW-7

Date	Ace-naphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo(a)anthracene (ppb)	Benzo(a)pyrene (ppb)	Benzo(b)fluoranthene (ppb)	Benzo(g,h,i)Perylene (ppb)	Benzo(k)fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h)anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd)pyrene (ppb)	1-Methylnaphthalene (ppb)	2-Methylnaphthalene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
09/23/14	<0.018	<0.02	<0.018	0.037	0.034	0.076	0.042	0.032	0.059	<0.028	0.126	<0.022	0.03	<0.021	<0.024	0.027	0.045	0.096
12/17/14	SAMPLE BOTTLE RECEIVED BROKEN																	
ENFORCEMENT STANDARD = ES - Bold																		
			3000	-	0.2	0.2	-	-	0.2	-	400	400	-	-	-	100	-	250
PREVENTIVE ACTION LIMIT = <i>PAL - Italics</i>																		
			<i>600</i>	-	<i>0.02</i>	<i>0.02</i>	-	-	<i>0.02</i>	-	<i>80</i>	<i>80</i>	-	-	-	<i>10</i>	-	<i>50</i>

(ppb) = parts per billion (ppm) = parts per million
ns = not sampled nm = not measured
Note: Elevations are presented in feet mean sea level (msl).

A.1 Groundwater Analytical Table
Kipp's Auto & Towing Service BRRTS# 03-41-543343

Well Sampling Conducted on: 09/23/14 09/23/14 09/23/14 09/23/14 09/23/14 09/23/14 09/23/14 02/16/16

VOC's Well Name	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	ENFORCEMENT STANDARD = ES - Bold	PREVENTIVE ACTION LIMIT = PAL - <i>Italics</i>
Lead, dissolved/ppb	1.5 "J"	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	NS	15	<i>1.5</i>
Benzene/ppb	2010	0.74 "J"	< 0.24	< 0.24	< 0.24	0.57 "J"	< 0.24	91	5	<i>0.5</i>
Bromobenzene/ppb	< 3.2	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.48	==	==
Bromodichloromethane/ppb	< 3.7	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.46	0.6	<i>0.06</i>
Bromoforn/ppb	< 3.5	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.46	4.4	<i>0.44</i>
tert-Butylbenzene/ppb	< 3.6	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 1.1	==	==
sec-Butylbenzene/ppb	14.8	1.07	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	10.4	==	==
n-Butylbenzene/ppb	39	0.53 "J"	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	18.9	==	==
Carbon Tetrachloride/ppb	< 3.3	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.51	5	<i>0.5</i>
Chlorobenzene/ppb	< 2.4	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	==	==
Chloroethane/ppb	< 6.3	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.65	400	<i>80</i>
Chloroform/ppb	< 2.8	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	6	<i>0.6</i>
Chloromethane/ppb	< 8.1	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	30	<i>3</i>
2-Chlorotoluene/ppb	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.4	==	==
4-Chlorotoluene/ppb	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.63	==	==
1,2-Dibromo-3-chloropropane/ppb	< 8.8	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 1.4	0.2	<i>0.02</i>
Dibromochloromethane/ppb	< 2.2	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.45	60	<i>6</i>
1,4-Dichlorobenzene/ppb	< 3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.49	75	<i>15</i>
1,3-Dichlorobenzene/ppb	< 2.8	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.52	600	<i>120</i>
1,2-Dichlorobenzene/ppb	< 3.6	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.46	600	<i>60</i>
Dichlorodifluoromethane/ppb	< 4.4	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.87	1000	<i>200</i>
1,2-Dichloroethane/ppb	< 4.1	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.48	5	<i>0.5</i>
1,1-Dichloroethane/ppb	< 3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 1.1	850	<i>85</i>
1,1-Dichloroethene/ppb	< 4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	7	<i>0.7</i>
cis-1,2-Dichloroethane/ppb	< 3.8	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.45	70	<i>7</i>
trans-1,2-Dichloroethane/ppb	< 3.5	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	100	<i>20</i>
1,2-Dichloropropane/ppb	< 3.2	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.43	5	<i>0.5</i>
2,2-Dichloropropane/ppb	< 3.6	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 3.1	==	==
1,3-Dichloropropane/ppb	< 3.3	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.42	==	==
Di-isopropyl ether/ppb	< 2.3	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.44	==	==
EDB (1,2-Dibromoethane)/ppb	< 4.4	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.63	0.05	<i>0.005</i>
Ethylbenzene/ppb	1970	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	225	700	<i>140</i>
Hexachlorobutadiene/ppb	< 15	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 2.2	==	==
Isopropylbenzene/ppb	84	4.4	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	54	==	==
p-Isopropyltoluene/ppb	6.7 "J"	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	5.3	==	==
Methylene chloride/ppb	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3	5	<i>0.5</i>
Methyl tert-butyl ether (MTBE)/ppb	52	5.2	< 0.23	< 0.23	< 0.23	< 0.23	15.8	< 1.1	60	<i>12</i>
Naphthalene/ppb	370	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	192	100	<i>10</i>
n-Propylbenzene/ppb	230	1.36	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	135	==	==
1,1,2,2-Tetrachloroethane/ppb	< 4.5	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.52	0.2	<i>0.02</i>
1,1,1,2-Tetrachloroethane/ppb	< 3.3	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.48	70	<i>7</i>
Tetrachloroethene (PCE)/ppb	< 3.3	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.49	5	<i>0.5</i>
Toluene/ppb	83	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	2.5	800	<i>160</i>
1,2,4-Trichlorobenzene/ppb	< 9.8	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 1.7	70	<i>14</i>
1,2,3-Trichlorobenzene/ppb	< 18	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 2.7	==	==
1,1,1-Trichloroethane/ppb	< 3.3	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.84	200	<i>40</i>
1,1,2-Trichloroethane/ppb	< 3.4	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.48	5	<i>0.5</i>
Trichloroethene (TCE)/ppb	< 3.3	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.47	5	<i>0.5</i>
Trichlorofluoromethane/ppb	< 7.1	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.87	==	==
1,2,4-Trimethylbenzene/ppb	480	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 1.6	==	==
1,3,5-Trimethylbenzene/ppb	111	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	3.13 "J"	Total TMB's 480	<i>Total TMB's 96</i>
Vinyl Chloride/ppb	< 1.8	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.17	0.2	<i>0.02</i>
m&p-Xylene/ppb	1380	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	6.1 "J"	==	==
o-Xylene/ppb	68	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.9	Total Xylenes 2000	<i>Total Xylenes 400</i>

NS = not sampled, NM = Not Measured

Q = Analyte detected above laboratory method detection limit but below practical quantitation limit.

== = No Exceedences

(ppb) = parts per billion

(ppm) = parts per million

"J" Flag: Analyte detected between LOD and LOQ. LOD Limit of Detection LOQ Limit of Quantitation

A.2 Soil Analytical Results Table
Kipp's Auto & Towing Service BRRTS# 03-41-543343

Sample ID	Depth (feet)	Saturation U/S	Date	PID	Cadmium, Total (ppm)	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl Benzene (ppm)	MTBE (ppm)	Naphthalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	Other VOC's (ppm)	DIRECT CONTACT PVOC & PAH COMBINED			
																		Exceedance Count	Hazard Index	Cumulative Cancer Risk	
S-1-3	7.0	S	05/06/05	NS	NS	NS	15	69	NOT SAMPLED								NS				
4071954001	5.0	U	12/15/12	NS	NS	NS	NS	10.4	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.050	NS				
4071954002	5.0	U	12/15/12	NS	NS	NS	NS	108	<0.025	<0.025	<0.025	0.238	<0.025	<0.025	0.278	0.503	NS				
4071954003	5.0	U	12/15/12	NS	NS	NS	NS	34.6	<0.025	0.118	<0.025	0.293	<0.025	<0.025	0.1249	0.0368	NS				
4071954004	5.0	U	12/15/12	NS	NS	NS	NS	152	<0.025	0.555	<0.025	0.983	<0.025	<0.025	0.692	0.478	NS				
4071954005	5.0	U	12/15/12	NS	NS	NS	NS	302	<0.100	<0.100	<0.100	0.500	<0.025	<0.025	0.565	0.680	NS				
4071954006	5.0	U	12/15/12	NS	NS	NS	NS	<3.3	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.058	<0.050	NS				
4071954007	5.0	U	12/15/12	NS	NS	NS	72.2	<3.2	<0.025	<0.025	<0.025	0.0597	<0.025	<0.025	0.359	<0.050	NS				
4071954008	5.0	U	12/15/12	NS	NS	NS	4140	847	<0.250	3.12	<0.250	1.14	<0.025	<0.025	85.89	7.7	NS				
G-1-1	3.5	U	04/22/13	0	NS	1.48	NS	35	0.510	0.076	<0.025	0.266	0.035	0.069	0.228	0.273	NS	0	1.11E-02	4.0E-07	
G-1-2	8.0	S	04/22/13	50	NS				NOT SAMPLED								NS				
G-1-3	9.5	S	04/22/13	70	NS	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS				
G-2-1	3.5	U	04/22/13	30	NS	4.68	NS	11.0	0.123	<0.025	<0.025	0.164	<0.025	0.032	0.077	0.108	NS	0	1.43E-02	1.1E-07	
G-2-2	8.0	S	04/22/13	50	NS				NOT SAMPLED								NS				
G-2-3	12.0	S	04/22/13	50	NS	NS	NS	<10	0.034	0.063	0.070	0.930	<0.025	<0.025	<0.025	<0.075	NS				
G-3-1	3.5	U	04/22/13	0	<0.08	135	401	NS	<0.025	<0.025	<0.025	<0.025	0.075	0.043	0.0289	0.156	NS	3	3.38E-01	1.0E-05	
G-3-2	8.0	U	04/22/13	20	NS	NS	<10	NS	0.077	0.034	<0.025	<0.025	0.051	<0.025	<0.025	<0.075	NS				
G-3-3	12.0	S	04/22/13	5	NS	NS	<10	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS				
G-4-1	3.5	U	04/22/13	0	<0.08	13.30	<10	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	1	3.33E-02	2.8E-06	
G-4-2	4-8		04/22/13						NO RECOVERY								NS				
G-4-3	12.0	S	04/22/13	0	NS	NS	<10	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS				
G-4-4	16.0	S	04/22/13	0	NS	NS	<10	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS				
G-5-1	3.5	U	04/22/13	0	<0.08	9.42	<10	NS	<0.025	<0.025	<0.025	<0.025	0.041	0.0252	<0.025	0.041-0.091	NS	0	2.39E-02		
G-5-2	8.0	U	04/22/13	0	NS	NS	<10	NS	0.031	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS				
G-5-3	12.0	S	04/22/13	0	NS	NS	<10	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS				
G-5-4	16.0	S	04/22/13	0	NS	NS	<10	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS				
G-6-1	3.5	U	04/22/13	420	NS	10.0	NS	630	<0.092	6.8	<0.300	12.5	<0.200	44	0.41	5200-5510	SEE VOC SPREAD-SHEET	2	6.43E+00	3.3E-06	
G-6-2	8.0	S	04/22/13	200	NS	NS	NS	74	0.400	8.1	<0.025	3.9	0.065	0.171	0.570	1.118	NS				
G-6-3	12.0	S	04/22/13	100	NS	NS	NS	<10	0.035	<0.025	0.053	<0.025	<0.025	<0.025	<0.025	<0.075	NS				
G-7-1	3.5	U	04/22/13	0	NS	6.30	NS	<10	<0.025	<0.025	<0.025	0.0298	<0.025	<0.025	<0.025	<0.075	NS	0	1.59E-02	5.8E-09	
G-7-2	8.0	S	04/22/13	270	NS	NS	NS	162	1.14	5.5	<0.025	4.6	0.257	1.06	1.93	1.65	NS				
G-7-3	12.0	S	04/22/13	160	NS	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS				
G-8-1	3.5	U	04/22/13	0	NS	57.9	NS	<10	0.263	0.210	<0.025	<0.025	0.140	0.294	0.141	0.894	NS	0	1.52E-01	1.8E-07	
G-8-2	8.0	S	04/22/13	100	NS	NS	NS	101	1.93	0.460	<0.025	1.3	0.147	0.154	0.231	0.912	NS				
G-8-3	12.0	S	04/22/13	40	NS	NS	NS	<10	0.032	<0.025	0.181	<0.025	<0.025	<0.025	<0.025	<0.075	NS				
G-9-1	3.5	U	04/22/13	0	NS	6.70	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	1.68E-02		
G-9-2	8.0	S	04/22/13	300	NS	NS	NS	199	0.860	10.9	<0.025	4.5	0.128	11	1.38	8.415	NS				
G-9-3	12.0	S	04/22/13	130	NS	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS				
G-10-1	3.5	U	04/22/13	0	NS	13.6	NS	<10	0.520	0.194	<0.025	0.076	0.0276	0.043	0.035	0.139	NS	0	3.98E-02	3.9E-07	
G-10-2	8.0	S	04/22/13	280	NS	NS	NS	96	1.01	5.2	<0.025	2.3	0.177	7	2.54	4.22	NS				
G-10-3	12.0	S	04/22/13	90	NS	NS	NS	<10	0.092	0.292	0.218	0.266	0.038	0.690	0.268	0.911	NS				
G-11-1	3.5	U	04/22/13	0	NS	7.30	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	1.83E-02		
G-11-2	8.0	S	04/22/13	0	NS	NS	NS	<10	0.079	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS				
G-11-3	12.0	S	04/22/13	0	NS	NS	NS	<10	<0.025	<0.025	0.087	<0.025	<0.025	<0.025	<0.025	<0.075	NS				
G-12-1	3.5	U	04/22/13	0	NS				NOT SAMPLED								NS				
G-12-2	6.0	S	04/22/13	210	NS	NS	NS	470	6.2	1.83	<0.025	5.1	0.301	0.089	0.510	3.21	NS				
G-12-3	12.0	S	04/22/13	0	NS				NOT SAMPLED								NS				
G-13-1	3.5	U	04/22/13	0	NS				NOT SAMPLED								NS				
G-13-2	8.0	U	04/22/13	300	NS	NS	NS	173	1.55	5.2	<0.025	5.8	0.089	0.520	1	0.740	NS				
G-13-3	12.0	S	04/22/13	0	NS				NOT SAMPLED								NS				
G-14-1	3.5	U	04/22/13	0	NS				NOT SAMPLED								NS				
G-14-2	8.0	S	04/22/13	260	NS	NS	NS	540	10.6	13.1	<0.025	4.6	0.710	0.111	1.56	2.67	NS				
G-14-3	12.0	S	04/22/13	0	NS				NOT SAMPLED								NS				
G-15-1	3.5	U	04/23/13	0	NS				NOT SAMPLED								NS				
G-15-2	7.0	S	04/23/13	170	NS	NS	NS	286	1.41	4.7	<0.025	3.7	0.185	0.301	0.530	1.599	NS				
G-15-3	12.0	S	04/23/13	10	NS				NOT SAMPLED								NS				
G-16-1	3.5	U	04/23/13	0	NS				NOT SAMPLED								NS				
G-16-2	8.0	S	04/23/13	0	NS				NOT SAMPLED								NS				
G-16-3	12.0	S	04/23/13	0	NS				NOT SAMPLED								NS				
G-16-4	16.0	S	04/23/13	0	NS				NOT SAMPLED								NS				
Groundwater RCL					0.752	27	-	-	0.00512	1.57	0.027	0.659	1.11	1.38		3.94	-				
Non-Industrial Direct Contact RCL					70.2	400	-	-	1.49	7.47	59.4	5.15	818	89.8	182	258	-			1.00E+00	1.00E-05
Soil Saturation Concentration (C-sat)*					-	-	-	-	1820*	480*	8870*	-	818*	219*	182*	258*	-				

Bold = Groundwater RCL Exceedance
 Bold & Underline = Non Industrial Direct Contact RCL Exceedance
 Bold & Asteric * = C-sat Exceedance (ppm) = parts per million
 NS = Not Sampled NM = Not Measured VOC's = Volatile Organic Compounds
 (ppm) = parts per million
 DRO = Diesel Range Organics
 GRO = Gasoline Range Organics
 PID = Photoionization

A.2. Pre-remedial Soil Analytical Table
 Kipp's Auto & Towing Service BRRTS# 03-41-543343

Sample ID	Depth (feet)	Saturation U/S	Date	PID	Cadmium, Total (ppm)	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl Benzene (ppm)	MTBE (ppm)	Naphthalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	Other VOC's (ppm)	PVOC & PAH COMBINED		
																		Individual Exceedance Count	Hazard Index	Cumulative Cancer Risk
MW-3-1					NO RECOVERY															
MW-3-2	8.0	S	03/31/14	0	NS													NS		
MW-3-3	12.0	S	03/31/14	0	NS													NS		
MW-4-1	3.5	U	03/31/14	0	NS													NS		
MW-4-2	8.0	S	03/31/14	0	NS													NS		
MW-4-3	12.0	S	03/31/14	0	NS													NS		
MW-5-1	3.5	U	03/31/14	0	NS													NS		
MW-5-2	8.0	S	03/31/14	0	NS													NS		
MW-5-3	12.0	S	03/31/14	0	NS													NS		
MW-6-1	3.5	U	03/31/14	0	NS													NS		
MW-6-2	8.0	S	03/31/14	0	NS													NS		
MW-6-3	12.0	S	03/31/14	0	NS													NS		
MW-6-4	16.0	S	03/31/14	0	NS													NS		
MW-7-1	3.5	U	03/31/14	0	NS													NS		
MW-7-2	8.0	S	03/31/14	0	NS													NS		
MW-7-3	12.0	S	03/31/14	0	NS													NS		
G-17-1	3.5	U	03/31/14	0	NS													NS		
G-17-2	8.0	S	03/31/14	0	NS	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	NS		
G-17-3	11.0	S	03/31/14	0	NS	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	NS		
G-18-1	3.5	U	03/31/14	0	NS													NS		
G-18-2	8.0	S	03/31/14	160	NS	NS	NS	NS	7.5	1.54	<0.025	1.29	0.530	19.1	7.1	7.02		NS		
G-18-3	12.0	S	03/31/14	3	NS	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	NS		
MW-1-1	3.5	U	04/01/14	80	NS													NS		
MW-1-2	8.0	S	04/01/14	515	NS													TCLP LEAD <0.45 TCLP BENZENE <0.05		
MW-1-3	12.0	S	04/01/14	60	NS													NS		
MW-2-1	3.5	U	04/01/14	0	NS													NS		
MW-2-2	8.0	U	04/01/14	10	NS													NS		
MW-2-3	12.0	S	04/01/14	0	NS													NS		
G-8-1	3.5		12/07/15	0	NS													NS		
G-8-2	8.0		12/07/15	550	NS	NS	NS	NS	4.1	4.0	<0.025	4.4	0.41	0.41	1.08	1.89		NS		
G-8-3	12.0		12/07/15	20	NS													NS		
G-8-4	15.0		12/07/15	40	NS													NS		
Groundwater RCL					0.752	27	-	-	0.00512	1.57	0.027	0.659	1.11	1.38		3.94	-			
Non-Industrial Direct Contact RCL					70.2	400	-	-	1.49	7.47	59.4	5.15	818	89.8	182	258	-		1.00E+00	1.00E-05
Soil Saturation Concentration (C-sat)*					-	-	-	-	1820*	480*	8870*	-	818*	219*	182*	258*	-			

Bold = Groundwater RCL Exceedance
Bold & Underline = Non Industrial Direct Contact RCL Exceedance
Bold & Asteric * = C-sat Exceedance (ppm) = parts per million
 NS = Not Sampled NM = Not Measured VOC's = Volatile Organic Compounds
 (ppm) = parts per million
 DRO = Diesel Range Organics
 GRO = Gasoline Range Organics
 PID = Photoionization Detector
 PVOC's = Petroleum Volatile Organic Compounds

A.2. Soil Analytical Results Table
(PAH)

Kipp's Auto & Towing Service BRRS# 03-41-543343

Sample	Depth (feet)	Saturation U/S	Date	Acenaph-thene (ppm)	Acenaph-thylene (ppm)	Anthracene (ppm)	Benzo(a) anthracene (ppm)	Benzo(a) pyrene (ppm)	Benzo(b) fluoranthene (ppm)	Benzo(g,h,i) perylene (ppm)	Benzo(k) fluoranthene (ppm)	Chrysene (ppm)	Dibenzo(a,h) anthracene (ppm)	Fluoranthene (ppm)	Fluorene (ppm)	Indeno(1,2,3-cd) pyrene (ppm)	1-Methyl-naphthalene (ppm)	2-Methyl-naphthalene (ppm)	Naphthalene (ppm)	Phenan-threne (ppm)	Pyrene (ppm)	DIRECT CONTACT PVOC & PAH COMBINED		
																						Exceedance Count	Hazard Index	Cumulative Cancer Risk
G-3-1	3.5	U	04/22/13	<0.0218	<0.0192	<0.0195	0.063	0.094	0.163	0.370	0.049	0.082	0.0231	0.085	<0.0222	0.114	<0.0207	0.0207	<0.0221	0.035	0.126	3	3.38E-01	1.0E-05
G-4-1	3.5	U	04/22/13	<0.0218	<0.0192	<0.0195	0.0246	0.0297	0.059	0.047	0.023	0.04	<0.0223	0.0269	<0.0222	0.03	<0.0207	<0.0206	<0.0221	<0.0224	0.0316	1	3.33E-02	2.8E-06
G-5-1	3.5	U	04/22/13	<0.0218	<0.0192	<0.0195	<0.0229	<0.0174	<0.0196	0.0241	<0.0216	<0.0181	<0.0223	<0.0211	<0.0222	<0.239	<0.0207	<0.0206	<0.0221	<0.0224	<0.0231			
Groundwater RCL				---	---	197	---	0.47	0.48	---	---	0.145	---	88.8	14.8	---	---	---	0.659	---	54.5			
Non-Industrial Direct Contact RCL				3440	---	17200	0.148	0.0148	0.148	---	1.48	14.8	0.0148	2290	2290	0.148	15.6	229	5.15	---	1720		1.00E+00	1.00E-05
Soil Saturation Concentration (C-sat)*				---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			

Bold = Groundwater RCL Exceedance

Bold & Underline = Industrial Direct Contact RCL Exceedance

Bold & Asteric * = C-sat Exceedance

NS = Not Sampled

(ppm) = parts per million

PAH = Polynuclear Aromatic Hydrocarbons

PID = Photoionization Detector

VOC's = Volatile Organic Compounds

A.2. Soil Analytical Results Table
 Kipp's Auto & Towing Service BRRTS# 03-41-543343

Sampling Conducted on April 22, 2013

VOC's		Bold = Groundwater RCL	Underline & Bold = Direct Contact RCL	Asteric * & Bold =Soil Saturation (C-sat) RCL
Sample ID#	G-6-1			
Sample Depth/ft.	3.5			
Solids Percent	78.4			
Lead/ppm	10.0	27	400	= =
Gasoline Range Organics/ppm	630	= =	= =	= =
Benzene/ppb	<0.092	0.00512	1.49	1820
Bromobenzene/ppb	<0.130	= =	354	= =
Bromodichloromethane/ppb	<0.270	0.000326	0.39	= =
Bromoform/ppb	<0.300	0.00233	61.6	= =
tert-Butylbenzene/ppb	<0.200	= =	183	183
sec-Butylbenzene/ppb	2.09	= =	145	145
n-Butylbenzene/ppb	7.1	= =	108	108
Carbon Tetrachloride/ppb	<0.250	0.00388	0.85	= =
Chlorobenzene/ppb	<0.160	= =	392	= =
Chloroethane/ppb	<0.420	0.227	= =	= =
Chloroform/ppb	<0.490	0.0033	0.42	= =
Chloromethane/ppb	<1.810	0.0155	171	= =
2-Chlorotoluene/ppb	<0.160	= =	= =	= =
4-Chlorotoluene/ppb	<0.140	= =	= =	= =
1,2-Dibromo-3-chloropropane/ppb	<0.480	0.000173	0.01	= =
Dibromochloromethane/ppb	<0.140	0.032	0.93	= =
1,4-Dichlorobenzene/ppb	<0.330	0.144	3.48	= =
1,3-Dichlorobenzene/ppb	<0.300	1.15	297	297
1,2-Dichlorobenzene/ppb	<0.380	1.17	376	376
Dichlorodifluoromethane/ppb	<0.570	3.08	135	= =
1,2-Dichloroethane/ppb	<0.360	0.00284	0.61	540
1,1-Dichloroethane/ppb	<0.190	0.484	4.72	= =
1,1-Dichloroethene/ppb	<0.210	0.00502	342	= =
cis-1,2-Dichloroethene/ppb	<0.240	0.0412	156	= =
trans-1,2-Dichloroethene/ppb	<0.290	0.0588	211	= =
1,2-Dichloropropane/ppb	<0.095	0.00332	1.33	= =
2,2-Dichloropropane/ppb	<0.460	= =	527	527
1,3-Dichloropropane/ppb	<0.210	= =	1490	1490
Di-isopropyl ether/ppb	<0.110	= =	2260	2260
EDB (1,2-Dibromoethane)/ppb	<0.200	0.0000282	0.05	= =
Ethylbenzene/ppb	6.8	1.57	7.47	480
Hexachlorobutadiene/ppb	<0.950	= =	6.23	= =
Isopropylbenzene/ppb	2.62	= =	= =	= =
p-Isopropyltoluene/ppb	1.3	= =	162	162
Methylene chloride/ppb	<0.570	0.00256	60.7	= =
Methyl tert-butyl ether (MTBE)/ppb	<0.300	0.027	59.4	8870
Naphthalene/ppb	12.5	0.659	5.15	= =
n-Propylbenzene/ppb	12	= =	= =	= =
1,1,2,2-Tetrachloroethane/ppb	<0.120	0.000156	0.75	= =
1,1,1,2-Tetrachloroethane/ppb	<0.230	0.0533	2.59	= =
Tetrachloroethene (PCE)/ppb	<0.490	0.00454	30.7	= =
Toluene/ppb	<0.200	1.11	818	818
1,2,4-Trichlorobenzene/ppb	<0.790	0.408	22.1	= =
1,2,3-Trichlorobenzene/ppb	<1.290	= =	48.9	= =
1,1,1-Trichloroethane/ppb	<0.380	0.14	= =	= =
1,1,2-Trichloroethane/ppb	<0.230	0.00324	1.48	= =
Trichloroethene (TCE)/ppb	<0.280	0.00358	0.64	= =
Trichlorofluoromethane/ppb	<0.860	= =	1120	= =
1,2,4-Trimethylbenzene/ppb	44	1.38	89.8	219
1,3,5-Trimethylbenzene/ppb	0.410	= =	182	182
Vinyl Chloride/ppb	<0.210	0.000138	0.07	= =
m&p-Xylene/ppb	5.2	3.94	258	258
o-Xylene/ppb	<0.310	= =	= =	= =

NS = not sampled, NM = Not Measured
 (ppm) = parts per million
 DRO = Diesel Range Organics
 GRO = Gasoline Range Organics
 = = No Exceedences

A.4 Vapor Analytical Table
 Sub-Slab Sampling Data Table for Kipp's Auto & Towing
 BY METCO

Sub-Slab Sampling conducted on December 7, 2015

WDNR

Residential
 Sub-Slab Vapor Action
 Levels for Various VOCs

Quick Look-Up Table
 Updated May, 2016
 (ug/m³)

Sample ID

Sample ID	SS-3		
Benzene – ug/m ³	0.81	120	c
Carbon Tetrachloride – ug/m ³	<0.32	160	c
Chloroform – ug/m ³	<0.32	40	c
Chloromethane – ug/m ³	<0.18	3100	n
Dichlorodifluoromethane – ug/m ³	2.3	3300	n
1,1-Dichloroethane (1,1-DCA) – ug/m ³	<0.26	600	c
1,2-Dichloroethane (1,2-DCA) - ug/m ³	<0.34	37	c
1,1-Dichloroethylene (1,1-DCE) – ug/m ³	<0.40	7000	n
1,2-Dichloroethylene (cis and mixed) - ug/m ³	<0.41	NA	n
1,2-Dichloroethylene (trans) - ug/m ³	<0.65	NA	n
Ethylbenzene – ug/m ³	2.3	370	c
Methylene chloride – ug/m ³	<0.91	21000	n
Methyl Tert-Butyl Ether (MTBE) – ug/m ³	<0.51	3700	c
Naphthalene – ug/m ³	3.9J	28	c
Tetrachloroethylene -ug/m ³	5.2	1400	n
Toluene – ug/m ³	3.1	170000	n
1,1,1-Trichloroethane – ug/m ³	<0.41	170000	n
Trichloroethylene – ug/m ³	<0.46	70	n
Trichlorofluoromethane (Halcarbon 11) – ug/m ³	1.5J	NA	n
Trimethylbenzene (1,2,4) – ug/m ³	14.5	240	n
Trimethylbenzene (1,3,5) – ug/m ³	3.7	NA	n
Vinyl chloride – ug/m ³	<0.33	57	c
Xylene (total) -ug/m ³	16.7	3300	n

ug/m³ = Micrograms per cubic meter.

< = Less than the reporting limit indicated in parentheses.

Bold = Exceedence of state standards

c = Carcinogen

Underline = Sub-Slab Standard Exceedance

J = between Limit of Detection (LOD) and Limit of Quantitaion (LOQ)

* Please note that other VOCs were detected that are not on the WDNR Sub-Slab Vapor Action Levels Quick Look-Up Table.

B = Compound was found in th blank and sample

A.4 Vapor Analytical Table

Indoor Air Sampling Data Table for Kipp's Auto & Towing Service
BY METCO

Indoor Air Sampling conducted on:	12/7-8/15	12/7-8/15	WDNR Residential Indoor Air Vapor Action Levels for Various VOCs Quick Look-Up Table Updated May, 2016 (ug/m ³)	
	IA-5431	IA-5433		
Sample ID				
Benzene – ug/m ³	0.85	1.4	3.6	c
Carbon Tetrachloride – ug/m ³	<0.49	<0.27	4.7	c
Chloroform – ug/m ³	<0.48	<0.26	1.2	c
Chloromethane – ug/m ³	<0.27	<0.15	94	n
Dichlorodifluoromethane – ug/m ³	2.1J	2.0	100	n
1,1-Dichloroethane (1,1-DCA) – ug/m ³	<0.40	<0.33	18	c
1,2-Dichloroethane (1,2-DCA) – ug/m ³	<0.52	<0.28	1.1	c
1,1-Dichloroethylene (1,1-DCE) – ug/m ³	<0.60	<0.33	210	n
1,2-Dichloroethylene (cis and trans) – ug/m ³	<1.59	<0.87	NA	n
Ethylbenzene – ug/m ³	<1.1	0.69J	11	c
Methylene chloride – ug/m ³	5.2J	2.7J	630	n
Methyl Tert-Butyl Ether (MTBE) – ug/m ³	<0.76	<0.42	110	c
Naphthalene – ug/m ³	<0.77	<0.42	0.83	c
Tetrachloroethylene -ug/m ³	<0.70	<0.39	42	n
Toluene – ug/m ³	4.5	3.3	5200	n
1,1,1-Trichloroethane – ug/m ³	<0.62	<0.34	5200	n
Trichloroethylene – ug/m ³	<0.70	<0.38	2.1	n
Trichlorofluoromethane (Halcarbon 11) – ug/m ³	1.5J	1.7	NA	n
Trimethylbenzene (1,2,4) – ug/m ³	3.2	2.4	7.3	n
Trimethylbenzene (1,3,5) – ug/m ³	<0.46	<0.25	NA	n
Vinyl chloride – ug/m ³	<0.49	<0.27	1.7	c
Xylene (total) -ug/m ³	<2.88	3.32	100	n

ug/m³ = Micrograms per cubic meter.

< = Less than the reporting limit indicated in parentheses.

Bold = Exceedence of state standards

c = Carcinogen

Underline = Indoor Residential Air Standard Exceedance

J = between Limit of Detection (LOD) and Limit of Quantitation (LOQ)

* Please note that other VOCs were detected that are not on the WDNR Indoor Air Vapor Action Levels Quick Look-Up Table.

B = Compound was found in th blank and sample

A.6 Water Level Elevations
Kipp's Auto & Towing Service BRRTS# 03-41-543343
Milwaukee, Wisconsin

	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8
Ground Surface (feet msl)	660.70	660.90	662.30	660.58	658.80	658.25	658.08	NM
PVC top (feet msl)	660.40	663.75	661.94	659.99	658.49	657.87	657.75	660.84
Well Depth (feet)	15.00	15.00	15.00	15.00	15.00	16.00	14.00	15
Top of screen (feet msl)	655.40	658.75	656.94	654.99	653.49	651.87	653.75	NM
Bottom of screen (feet msl)	645.40	648.75	646.94	644.99	643.49	641.87	643.75	NM
Depth to Water From Top of PVC (feet)								
09/23/14	4.39	9.72	5.35	7.26	5.76	4.64	4.73	NI
12/17/14	5.40	8.73	5.83	7.64	5.70	4.60	3.51	NI
02/16/16	4.27	7.51	5.48	6.74	CNL	4.27	2.21	5.46
05/18/16	3.66	7.08	5.17	6.82	5.31	3.65	2.25	5.02
Depth to Water From Ground Surface (feet)								
09/23/14	4.69	6.87	5.71	7.85	6.07	5.02	5.06	NI
12/17/14	5.70	5.88	6.19	8.23	6.01	4.98	3.84	NI
02/16/16	4.57	4.66	5.84	7.33	CNL	4.65	2.54	NM
05/18/16	3.96	4.23	5.53	7.41	5.62	4.03	2.58	NM
Groundwater Elevation (feet msl)								
09/23/14	656.01	654.03	656.59	652.73	652.73	653.23	653.02	NI
12/17/14	655.00	655.02	656.11	652.35	652.79	653.27	654.24	NI
02/16/16	656.13	656.24	656.46	653.25	CNL	653.60	655.54	655.38
05/18/16	656.74	656.67	656.77	653.17	653.18	654.22	655.50	655.82

Note: Elevations are presented in feet mean sea level (msl).
 CNL = Could Not Locate
 NM = Not Measured

A.7 Other

Groundwater NA Indicator Results

Kipp's Auto & Towing Service BRRTS# 03-41-543343

Well MW-1

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
09/23/14	1.06	6.09	20	18.4	1629	0.21	11.7	0.32	621
12/17/14	2.18	5.47	86	7.1	1	NS	NS	NS	NS
02/16/16	2.12	7.28	16	7.6	611	NS	NS	NS	NS
05/18/16	2.84	7.28	not working	12.9	1286	NS	NS	NS	NS
ENFORCE MENT STANDARD = ES – Bold						10	-	-	300
PREVENTIVE ACTION LIMIT = PAL - Italics						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million
 ns = not sampled nm = not measured
 Note: Elevations are presented in feet mean sea level (msl).

Well MW-2

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
09/23/14	1.11	6.98	51	15.6	962	0.21	121	<0.06	1160
12/17/14	2.78	6.07	204	8.5	.8	NS	NS	NS	NS
02/16/16	3.16	7.18	97	7.1	1410	NS	NS	NS	NS
05/18/16	3.73	6.99	not working	12.0	645	NS	NS	NS	NS
ENFORCE MENT STANDARD = ES – Bold						10	-	-	300
PREVENTIVE ACTION LIMIT = PAL - Italics						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million
 ns = not sampled nm = not measured
 Note: Elevations are presented in feet mean sea level (msl).

Well MW-3

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
09/23/14	1.82	6.02	176	18.6	1846	9.33	88.5	<0.06	437
12/17/14	3.16	7.09	206	9.0	2310	NS	NS	NS	NS
02/16/16	4.17	6.02	168	7.8	1844	NS	NS	NS	NS
05/18/16	4.71	6.96	not working	12.4	839	NS	NS	NS	NS
ENFORCE MENT STANDARD = ES – Bold						10	-	-	300
PREVENTIVE ACTION LIMIT = PAL - Italics						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million
 ns = not sampled nm = not measured
 Note: Elevations are presented in feet mean sea level (msl).

Well MW-4

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
09/23/14	1.09	6.21	162	18.4	5.19	0.98	87.2	<0.06	477
12/17/14	3.04	7.18	241	9.3	1010	NS	NS	NS	NS
02/16/16	4.92	6.79	181	7.6	1245	NS	NS	NS	NS
05/18/16	5.30	6.67	not working	12.3	916	NS	NS	NS	NS
ENFORCE MENT STANDARD = ES – Bold						10	-	-	300
PREVENTIVE ACTION LIMIT = PAL - Italics						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million
 ns = not sampled nm = not measured
 Note: Elevations are presented in feet mean sea level (msl).

A.7 Other

Groundwater NA Indicator Results

Kipp's Auto & Towing Service BRRTS# 03-41-543343

Well MW-5

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
09/23/14	1.36	6.98	239	18.6	1056	18.7	48.2	<0.06	183
12/17/14	3.39	6.06	228	9.4	885	NS	NS	NS	NS
02/16/16	UNDER DIRT PILE								
05/18/16	4.89	6.57	not working	12.5	418	NS	NS	NS	NS
ENFORCE MENT STANDARD = ES - Bold						10	-	-	300
PREVENTIVE ACTION LIMIT = <i>PAL - Italics</i>						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million

ns = not sampled nm = not measured

Note: Elevations are presented in feet mean sea level (msl).

Well MW-6

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
09/23/14	1.38	6.72	259	19.0	1152	0.78	71.8	<0.06	219
12/17/14	2.63	13.84	247	10.0	1.1	NS	NS	NS	NS
02/16/16	4.33	6.89	171	7.9	1011	NS	NS	NS	NS
05/18/16	4.11	6.73	not working	12.1	897	NS	NS	NS	NS
ENFORCE MENT STANDARD = ES - Bold						10	-	-	300
PREVENTIVE ACTION LIMIT = <i>PAL - Italics</i>						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million

ns = not sampled nm = not measured

Note: Elevations are presented in feet mean sea level (msl).

Well MW-7

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
09/23/14	1.40	7.01	183	18.1	1044	<0.15	104	<0.06	338
12/17/14	2.94	7.56	221	8.5	1	NS	NS	NS	NS
02/16/16	4.09	6.91	146	7.4	1437	NS	NS	NS	NS
05/18/16	4.03	6.82	not working	12.4	738	NS	NS	NS	NS
ENFORCE MENT STANDARD = ES - Bold						10	-	-	300
PREVENTIVE ACTION LIMIT = <i>PAL - Italics</i>						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million

ns = not sampled nm = not measured

Note: Elevations are presented in feet mean sea level (msl).

Well MW-8

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
02/16/16	2.80	7.06	29	7.6	819	NS	NS	NS	NS
05/18/16	3.10	7.13	not working	12.7	916	NS	NS	NS	NS
ENFORCE MENT STANDARD = ES - Bold						10	-	-	300
PREVENTIVE ACTION LIMIT = <i>PAL - Italics</i>						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million

ns = not sampled nm = not measured

Note: Elevations are presented in feet mean sea level (msl).

Route To: _____ Watershed / Wastewater: _____ Waste Management: _____
Remediation / Redevelopment: **X** Other: _____

Facility / Project Name		License / Permit / Monitoring Number		Boring Number
Kipp's Auto & Towing Service				MW-8
Boring Drilled By: Name of crew chief (first, last) and Firm		Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice		12/07/2015	12/07/2015	Geoprobe/HSA
Firm: Geiss Soil & Samples, LLC		MM/DD/YYYY	MM/DD/YYYY	
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation
VP353		MW-8	650 Feet MSL	660 Feet MSL
Local Grid Origin (estimated X) or Boring Location				Borehole Diameter
State Plane N, E		Lat 43° 6' 15.9"		8 inches
NW¼ of NW¼ of Section 02, T 07 N, R 21 E		Long 87° 58' 55.6"		
Facility ID		County	County Code	Civil Town / City / Village
241199530		Milwaukee	41	Milwaukee

Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties					P 200	RQD / Comments
								PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index		
MW-8-1 (0-4 feet)	48 24		2	Tan sandy clay	CL	See Well Construction Form		0		M				No Petro Odor
MW-8-2 (4-8 feet)	48 24		6	Tan to gray sandy clay	CL			550		M/W				Petro Odor from 6-8 feet
MW-8-3 (8-12 feet)	48 48		10	Tan sandy clay	CL			20		W				Slight Petro Odor
MW-8-4 (12-15 feet)	36		12	Tan clayey sand with gravel (12-14 feet)	SC			40		W				Slight Petro Odor
			14	Tan sandy clay (14-15 feet)	CL									
			16	EOB @ 15 feet. Installed monitoring well MW-8 to 15 feet.										

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature: 

Firm: **METCO**

Facility/Project Name Kieps Auto & Towing		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.		Well Name MW-8	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. _____ "Long. _____" or _____		Wis. Unique Well No. VP353 DNR Well ID No. _____	
Facility ID		St. Plane _____ ft. N. _____ ft. E. S/C/N		Date Well Installed 12, 07, 2015 m m d d y y y y	
Type of Well Well Code 11, MW		Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. <input type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm Darrin Prentice Geiss Soil & Samples LLC	
Distance from Waste/Source _____ ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number _____	

A. Protective pipe, top elevation _____ ft. MSL		1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL		2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation _____ ft. MSL		d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or _____ ft.		3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>		f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99		6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____		7. Fine sand material: Manufacturer, product name & mesh size a. #15 Red Flint b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): _____		8. Filter pack material: Manufacturer, product name & mesh size a. #40 Red Flint b. Volume added _____ ft ³
E. Bentonite seal, top _____ ft. MSL or 5 ft.		9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or 3 ft.		10. Screen material: PVC a. Screen type: Factory cut <input type="checkbox"/> 11 Continuous slot <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
G. Filter pack, top _____ ft. MSL or 4 ft.		b. Manufacturer Johnson
H. Screen joint, top _____ ft. MSL or 5 ft.		c. Slot size: 0.010 in.
I. Well bottom _____ ft. MSL or 15 ft.		d. Slotted length: 16 ft.
J. Filter pack, bottom _____ ft. MSL or 15.5 ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Other <input checked="" type="checkbox"/>	
K. Borehole, bottom _____ ft. MSL or 15.5 ft.		
L. Borehole, diameter 8.25 in.		
M. O.D. well casing 2.40 in.		
N. I.D. well casing 2.06 in.		

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature **Darrin Prentice** Firm **Geiss Soil & Samples LLC**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Kipp's Auto & Towing Service	County Name MILWAUKEE	Well Name MW-8
Facility License, Permit or Monitoring Number	County Code 41	Wis. Unique Well Number VP353
		DNR Well ID Number

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - Other

3. Time spent developing well 40 min.

4. Depth of well (from top of well casing) 15 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 0.1 gal.

7. Volume of water removed from well 5 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

17. Additional comments on development:

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>13.42</u> ft.	<u>13.52</u> ft.
Date	b. <u>12 / 07 / 2015</u>	<u>12 / 7 / 2015</u>
Time	c. <u>11 : 55</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>12 : 35</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) _____ Tan _____	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) _____ Light Tan _____
	High Turbidity _____	Low Turbidity _____

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids _____ mg/l _____ mg/l

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Eric Last Name: Dahl

Firm: METCO

Name and Address of Facility Contact /Owner/Responsible Party

First Name: Melvin Last Name: Kipp

Facility/Firm: _____

Street: 5507 West Hampton Avenue

City/State/Zip: Milwaukee WI 53218-

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: 

Print Name: Jon Jensen

Firm: METCO

METLO
KIPPS
5567 W-HAMPTON
Milw

D.O
44-508-0423

12/7/15
15-1488
31° Fog
WIND @ 4 mph S

0930 on site

Metro not here yet, drillers are

0940 ERIC w/ Metro onsite. Site owner not around. he needs to take care of that 1st

5433 W-HAMPTON

African hair braiding by Aly's

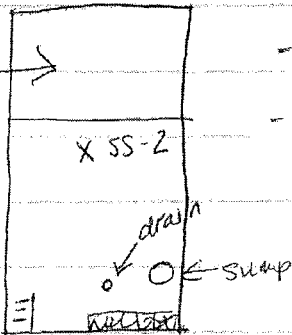
CO = 0 ppm

SO2 = 0

O2 = 20.9

SL = 0%

ID = 0.0



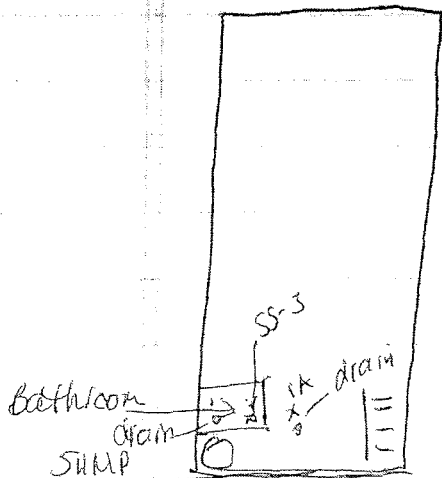
- Salon, slab on grade

- sump NOT working, tried to plug in somewhere else. Still doesn't work

- SS-1 Concrete 4" water directly under slab. H2O came up 1" in hole \Rightarrow DTW = 3" from top of slab.

- called Matt, no way to get vapor sample. will still get INDOOR AIR

5431 W-Hampton



- tenant says occasionally smells petro odor

- sump is working.

- 2 drains + sump

5431

Melco - KIPPS CON'T

12/7/15
15-1488

AMBIENT

CO = 0 ppm H₂S = 0 O₂ = 20.9 LEL = 3-4%

PID = 0.0

- SS-3 drilled in bathroom

11:25 SS-3

CO = 0 ppm H₂S = 0 O₂ = 20.9 LEL = 5% PID 0.0

Purge 5 min w/ PID

11:30

Can # 782

Reg. # ??

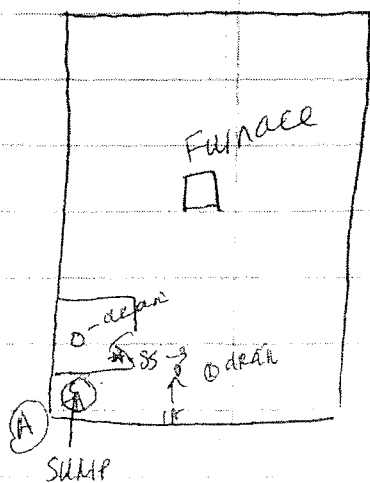
start @ 11:30 w/ -28

end 12:00 w/ -7

1A-5431 (indoor air) placed by ceiling support
b/wn Bathroom ^{drain} ~~floor~~ + washer drain

Can # 952 Reg # 748

start 12:05 @ -28



Datum = (A)

N/S of w/

SS-3 6'N 3'E

Bathroom drain 7'N 1'E

washer drain 6.5'N 10'E

SUMP 1'N 1'E 24" diamet.

concrete cover

Metco - Klips

Cent

12/1/15

5431 AIR

Bathroom drain

CO = 0 ppm $H_2S = 0$ $O_2 = 20.9$ LEL = 4% PID 0.0

Washer drain

CO = 0 ppm $O_2 = 20.9$ $H_2S = 0$ LEL 4% PID 0.0

SUMP

CO = 0 ppm $H_2S = 0$ $O_2 = 20.9$ LEL 5% PID 0.0

Furnace (Running)

CO = 0 ppm $H_2S = 0$ $O_2 = 20.9$ LEL = 4% PID 0.0

off site

1220

Synergy Environmental Lab,

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

MELVIN KIPP
KIPPS AUTO & TOWING
5507 W. HAMPTON AVENUE
MILWAUKEE, WI 53218

Report Date 18-Dec-15

Project Name KIPP'S TOWING
Project #

Invoice # E30192

Lab Code 5030192A
Sample ID METH BLANK
Sample Matrix Soil
Sample Date 12/7/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		12/15/2015	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		12/15/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		12/15/2015	CJR	1
Naphthalene	< 0.025	mg/kg	0.0094	0.03	1	GRO95/8021		12/15/2015	CJR	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		12/15/2015	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		12/15/2015	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		12/15/2015	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		12/15/2015	CJR	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		12/15/2015	CJR	1

Lab Code 5030192B
Sample ID MW-8-2
Sample Matrix Soil
Sample Date 12/7/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	81.3	%			1	5021		12/11/2015	DJL	1
Organic										
PVOC + Naphthalene										
Benzene	4.1	mg/kg	0.014	0.046	1	GRO95/8021		12/15/2015	CJR	1
Ethylbenzene	4.0	mg/kg	0.014	0.045	1	GRO95/8021		12/15/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		12/15/2015	CJR	1
Naphthalene	4.4	mg/kg	0.0094	0.03	1	GRO95/8021		12/15/2015	CJR	1
Toluene	0.41	mg/kg	0.015	0.048	1	GRO95/8021		12/15/2015	CJR	1
1,2,4-Trimethylbenzene	0.41	mg/kg	0.011	0.036	1	GRO95/8021		12/15/2015	CJR	1
1,3,5-Trimethylbenzene	1.08	mg/kg	0.012	0.038	1	GRO95/8021		12/15/2015	CJR	1
m&p-Xylene	1.14	mg/kg	0.023	0.074	1	GRO95/8021		12/15/2015	CJR	1
o-Xylene	0.75	mg/kg	0.024	0.078	1	GRO95/8021		12/15/2015	CJR	1

Project Name KIPP'S TOWING

Invoice # E30192

Project #

Lab Code 5030192C
Sample ID TRIP BLANK
Sample Matrix Water
Sample Date 12/7/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		12/15/2015	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		12/15/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		12/15/2015	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		12/15/2015	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		12/15/2015	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		12/15/2015	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		12/15/2015	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		12/15/2015	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		12/15/2015	CJR	1

Lab Code 5030192D
Sample ID SUMP 5433
Sample Matrix Water
Sample Date 12/7/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		12/17/2015	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		12/17/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		12/17/2015	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		12/17/2015	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		12/17/2015	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		12/17/2015	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		12/17/2015	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		12/17/2015	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		12/17/2015	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code Comment

1 Laboratory QC within limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

Michael Ricker



December 21, 2015

Matt Dahlem
Alpha Terra Science
1237 Pilgrim Rd
Plymouth, WI 53073

RE: Project: 15-1488 Metco-Kipps
Pace Project No.: 10332815

Dear Matt Dahlem:

Enclosed are the analytical results for sample(s) received by the laboratory on December 10, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

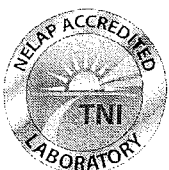
Sincerely,

Carolynne Trout

Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures

cc: Megan Hansen, Alpha Terra Science



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 15-1488 Metco-Kipps
Pace Project No.: 10332815

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 15-1488 Metco-Kipps
Pace Project No.: 10332815

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10332815001	IA-5433	Air	12/08/15 13:10	12/10/15 11:25
10332815002	IA-5431	Air	12/08/15 13:15	12/10/15 11:25
10332815003	SS-3	Air	12/08/15 11:30	12/10/15 11:25

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SAMPLE ANALYTE COUNT

Project: 15-1488 Metco-Kipps
Pace Project No.: 10332815

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10332815001	IA-5433	TO-15	MJL	61	PASI-M
10332815002	IA-5431	TO-15	MJL	61	PASI-M
10332815003	SS-3	TO-15	MJL	61	PASI-M

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-1488 Metco-Kipps
Pace Project No.: 10332815

Sample: IA-5433 Lab ID: 10332815001 Collected: 12/08/15 13:10 Received: 12/10/15 11:25 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	17.1	ug/m3	3.4	1.2	1.39		12/17/15 18:20	67-64-1	
Benzene	1.4	ug/m3	0.45	0.17	1.39		12/17/15 18:20	71-43-2	
Benzyl chloride	<0.23	ug/m3	1.5	0.23	1.39		12/17/15 18:20	100-44-7	
Bromodichloromethane	<0.27	ug/m3	1.9	0.27	1.39		12/17/15 18:20	75-27-4	
Bromoform	<1.3	ug/m3	2.9	1.3	1.39		12/17/15 18:20	75-25-2	
Bromomethane	<0.43	ug/m3	1.1	0.43	1.39		12/17/15 18:20	74-83-9	
1,3-Butadiene	<0.24	ug/m3	0.63	0.24	1.39		12/17/15 18:20	106-99-0	
2-Butanone (MEK)	1.7J	ug/m3	4.2	0.32	1.39		12/17/15 18:20	78-93-3	
Carbon disulfide	<0.14	ug/m3	0.88	0.14	1.39		12/17/15 18:20	75-15-0	
Carbon tetrachloride	<0.27	ug/m3	0.89	0.27	1.39		12/17/15 18:20	56-23-5	
Chlorobenzene	<0.19	ug/m3	1.3	0.19	1.39		12/17/15 18:20	108-90-7	
Chloroethane	<0.27	ug/m3	0.75	0.27	1.39		12/17/15 18:20	75-00-3	
Chloroform	<0.26	ug/m3	0.69	0.26	1.39		12/17/15 18:20	67-66-3	
Chloromethane	<0.15	ug/m3	0.58	0.15	1.39		12/17/15 18:20	74-87-3	
Cyclohexane	3.2	ug/m3	0.97	0.44	1.39		12/17/15 18:20	110-82-7	
Dibromochloromethane	<1.2	ug/m3	2.4	1.2	1.39		12/17/15 18:20	124-48-1	
1,2-Dibromoethane (EDB)	<1.1	ug/m3	2.2	1.1	1.39		12/17/15 18:20	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/m3	1.7	0.71	1.39		12/17/15 18:20	95-50-1	
1,3-Dichlorobenzene	<0.74	ug/m3	1.7	0.74	1.39		12/17/15 18:20	541-73-1	
1,4-Dichlorobenzene	3.5	ug/m3	1.7	0.69	1.39		12/17/15 18:20	106-46-7	
Dichlorodifluoromethane	2.0	ug/m3	1.4	0.67	1.39		12/17/15 18:20	75-71-8	
1,1-Dichloroethane	<0.22	ug/m3	1.1	0.22	1.39		12/17/15 18:20	75-34-3	
1,2-Dichloroethane	<0.28	ug/m3	0.57	0.28	1.39		12/17/15 18:20	107-06-2	
1,1-Dichloroethene	<0.33	ug/m3	1.1	0.33	1.39		12/17/15 18:20	75-35-4	
cis-1,2-Dichloroethene	<0.34	ug/m3	1.1	0.34	1.39		12/17/15 18:20	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/m3	1.1	0.53	1.39		12/17/15 18:20	156-60-5	
1,2-Dichloropropane	<0.38	ug/m3	1.3	0.38	1.39		12/17/15 18:20	78-87-5	
cis-1,3-Dichloropropene	<0.51	ug/m3	1.3	0.51	1.39		12/17/15 18:20	10061-01-5	
trans-1,3-Dichloropropene	<0.36	ug/m3	1.3	0.36	1.39		12/17/15 18:20	10061-02-6	
Dichlorotetrafluoroethane	<0.43	ug/m3	2.0	0.43	1.39		12/17/15 18:20	76-14-2	
Ethanol	13.5	ug/m3	1.3	0.37	1.39		12/17/15 18:20	64-17-5	
Ethyl acetate	<0.48	ug/m3	1.0	0.48	1.39		12/17/15 18:20	141-78-6	
Ethylbenzene	0.69J	ug/m3	1.2	0.59	1.39		12/17/15 18:20	100-41-4	
4-Ethyltoluene	<0.26	ug/m3	1.4	0.26	1.39		12/17/15 18:20	622-96-8	
n-Heptane	1.7	ug/m3	1.2	0.39	1.39		12/17/15 18:20	142-82-5	
Hexachloro-1,3-butadiene	<0.90	ug/m3	3.1	0.90	1.39		12/17/15 18:20	87-68-3	
n-Hexane	3.1	ug/m3	1.0	0.50	1.39		12/17/15 18:20	110-54-3	
2-Hexanone	<0.57	ug/m3	5.8	0.57	1.39		12/17/15 18:20	591-78-6	
Methylene Chloride	2.7J	ug/m3	4.9	0.75	1.39		12/17/15 18:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.30	ug/m3	5.8	0.30	1.39		12/17/15 18:20	108-10-1	
Methyl-tert-butyl ether	<0.42	ug/m3	5.1	0.42	1.39		12/17/15 18:20	1634-04-4	
Naphthalene	<0.42	ug/m3	3.7	0.42	1.39		12/17/15 18:20	91-20-3	
2-Propanol	<0.33	ug/m3	3.5	0.33	1.39		12/17/15 18:20	67-63-0	
Propylene	<0.19	ug/m3	0.49	0.19	1.39		12/17/15 18:20	115-07-1	
Styrene	<0.27	ug/m3	1.2	0.27	1.39		12/17/15 18:20	100-42-5	
1,1,2,2-Tetrachloroethane	<0.46	ug/m3	0.97	0.46	1.39		12/17/15 18:20	79-34-5	

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ANALYTICAL RESULTS

Project: 15-1488 Metco-Kipps

Pace Project No.: 10332815

Sample: IA-5433 Lab ID: 10332815001 Collected: 12/08/15 13:10 Received: 12/10/15 11:25 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Tetrachloroethene	<0.39	ug/m3	0.96	0.39	1.39		12/17/15 18:20	127-18-4	
Tetrahydrofuran	<0.17	ug/m3	0.83	0.17	1.39		12/17/15 18:20	109-99-9	
Toluene	3.3	ug/m3	1.1	0.21	1.39		12/17/15 18:20	108-88-3	
1,2,4-Trichlorobenzene	<1.3	ug/m3	5.2	1.3	1.39		12/17/15 18:20	120-82-1	
1,1,1-Trichloroethane	<0.34	ug/m3	1.5	0.34	1.39		12/17/15 18:20	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/m3	0.76	0.34	1.39		12/17/15 18:20	79-00-5	
Trichloroethene	<0.38	ug/m3	0.76	0.38	1.39		12/17/15 18:20	79-01-6	
Trichlorofluoromethane	1.7	ug/m3	1.6	0.18	1.39		12/17/15 18:20	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.42	ug/m3	2.2	0.42	1.39		12/17/15 18:20	76-13-1	
1,2,4-Trimethylbenzene	2.4	ug/m3	1.4	0.17	1.39		12/17/15 18:20	95-63-6	
1,3,5-Trimethylbenzene	<0.25	ug/m3	1.4	0.25	1.39		12/17/15 18:20	108-67-8	
Vinyl acetate	<0.46	ug/m3	1.0	0.46	1.39		12/17/15 18:20	108-05-4	
Vinyl chloride	<0.27	ug/m3	0.36	0.27	1.39		12/17/15 18:20	75-01-4	
m&p-Xylene	2.5	ug/m3	2.5	1.1	1.39		12/17/15 18:20	179601-23-1	
o-Xylene	0.82J	ug/m3	1.2	0.49	1.39		12/17/15 18:20	95-47-6	

Sample: IA-5431 Lab ID: 10332815002 Collected: 12/08/15 13:15 Received: 12/10/15 11:25 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Acetone	35.1	ug/m3	6.1	2.1	2.52		12/17/15 18:48	67-64-1	
Benzene	0.85	ug/m3	0.82	0.31	2.52		12/17/15 18:48	71-43-2	
Benzyl chloride	<0.42	ug/m3	2.6	0.42	2.52		12/17/15 18:48	100-44-7	
Bromodichloromethane	<0.49	ug/m3	3.4	0.49	2.52		12/17/15 18:48	75-27-4	
Bromoform	<2.3	ug/m3	5.3	2.3	2.52		12/17/15 18:48	75-25-2	
Bromomethane	<0.78	ug/m3	2.0	0.78	2.52		12/17/15 18:48	74-83-9	
1,3-Butadiene	<0.44	ug/m3	1.1	0.44	2.52		12/17/15 18:48	106-99-0	
2-Butanone (MEK)	2.4J	ug/m3	7.6	0.57	2.52		12/17/15 18:48	78-93-3	
Carbon disulfide	<0.25	ug/m3	1.6	0.25	2.52		12/17/15 18:48	75-15-0	
Carbon tetrachloride	<0.49	ug/m3	1.6	0.49	2.52		12/17/15 18:48	56-23-5	
Chlorobenzene	<0.34	ug/m3	2.4	0.34	2.52		12/17/15 18:48	108-90-7	
Chloroethane	<0.49	ug/m3	1.4	0.49	2.52		12/17/15 18:48	75-00-3	
Chloroform	<0.48	ug/m3	1.2	0.48	2.52		12/17/15 18:48	67-66-3	
Chloromethane	<0.27	ug/m3	1.1	0.27	2.52		12/17/15 18:48	74-87-3	
Cyclohexane	2.4	ug/m3	1.8	0.80	2.52		12/17/15 18:48	110-82-7	
Dibromochloromethane	<2.2	ug/m3	4.4	2.2	2.52		12/17/15 18:48	124-48-1	
1,2-Dibromoethane (EDB)	<2.0	ug/m3	3.9	2.0	2.52		12/17/15 18:48	106-93-4	
1,2-Dichlorobenzene	<1.3	ug/m3	3.1	1.3	2.52		12/17/15 18:48	95-50-1	
1,3-Dichlorobenzene	<1.3	ug/m3	3.1	1.3	2.52		12/17/15 18:48	541-73-1	
1,4-Dichlorobenzene	6.6	ug/m3	3.1	1.3	2.52		12/17/15 18:48	106-46-7	
Dichlorodifluoromethane	2.1J	ug/m3	2.5	1.2	2.52		12/17/15 18:48	75-71-8	
1,1-Dichloroethane	<0.40	ug/m3	2.1	0.40	2.52		12/17/15 18:48	75-34-3	
1,2-Dichloroethane	<0.52	ug/m3	1.0	0.52	2.52		12/17/15 18:48	107-06-2	

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ANALYTICAL RESULTS

Project: 15-1488 Metco-Kipps
Pace Project No.: 10332815

Sample: IA-5431 Lab ID: 10332815002 Collected: 12/08/15 13:15 Received: 12/10/15 11:25 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,1-Dichloroethene	<0.60	ug/m3	2.0	0.60	2.52		12/17/15 18:48	75-35-4	
cis-1,2-Dichloroethene	<0.62	ug/m3	2.0	0.62	2.52		12/17/15 18:48	156-59-2	
trans-1,2-Dichloroethene	<0.97	ug/m3	2.0	0.97	2.52		12/17/15 18:48	156-60-5	
1,2-Dichloropropane	<0.68	ug/m3	2.4	0.68	2.52		12/17/15 18:48	78-87-5	
cis-1,3-Dichloropropene	<0.93	ug/m3	2.3	0.93	2.52		12/17/15 18:48	10061-01-5	
trans-1,3-Dichloropropene	<0.66	ug/m3	2.3	0.66	2.52		12/17/15 18:48	10061-02-6	
Dichlorotetrafluoroethane	<0.78	ug/m3	3.6	0.78	2.52		12/17/15 18:48	76-14-2	
Ethanol	148	ug/m3	2.4	0.67	2.52		12/17/15 18:48	64-17-5	
Ethyl acetate	<0.88	ug/m3	1.8	0.88	2.52		12/17/15 18:48	141-78-6	
Ethylbenzene	<1.1	ug/m3	2.2	1.1	2.52		12/17/15 18:48	100-41-4	
4-Ethyltoluene	<0.47	ug/m3	2.5	0.47	2.52		12/17/15 18:48	622-96-8	
n-Heptane	<0.70	ug/m3	2.1	0.70	2.52		12/17/15 18:48	142-82-5	
Hexachloro-1,3-butadiene	<1.6	ug/m3	5.5	1.6	2.52		12/17/15 18:48	87-68-3	
n-Hexane	2.0	ug/m3	1.8	0.90	2.52		12/17/15 18:48	110-54-3	
2-Hexanone	<1.0	ug/m3	10.5	1.0	2.52		12/17/15 18:48	591-78-6	
Methylene Chloride	5.2J	ug/m3	8.9	1.4	2.52		12/17/15 18:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.55	ug/m3	10.5	0.55	2.52		12/17/15 18:48	108-10-1	
Methyl-tert-butyl ether	<0.76	ug/m3	9.2	0.76	2.52		12/17/15 18:48	1634-04-4	
Naphthalene	<0.77	ug/m3	6.7	0.77	2.52		12/17/15 18:48	91-20-3	
2-Propanol	13.4	ug/m3	6.3	0.60	2.52		12/17/15 18:48	67-63-0	
Propylene	<0.34	ug/m3	0.88	0.34	2.52		12/17/15 18:48	115-07-1	
Styrene	<0.49	ug/m3	2.2	0.49	2.52		12/17/15 18:48	100-42-5	
1,1,2,2-Tetrachloroethane	<0.83	ug/m3	1.8	0.83	2.52		12/17/15 18:48	79-34-5	
Tetrachloroethene	<0.70	ug/m3	1.7	0.70	2.52		12/17/15 18:48	127-18-4	
Tetrahydrofuran	<0.30	ug/m3	1.5	0.30	2.52		12/17/15 18:48	109-99-9	
Toluene	4.5	ug/m3	1.9	0.39	2.52		12/17/15 18:48	108-88-3	
1,2,4-Trichlorobenzene	<2.3	ug/m3	9.5	2.3	2.52		12/17/15 18:48	120-82-1	
1,1,1-Trichloroethane	<0.62	ug/m3	2.8	0.62	2.52		12/17/15 18:48	71-55-6	
1,1,2-Trichloroethane	<0.62	ug/m3	1.4	0.62	2.52		12/17/15 18:48	79-00-5	
Trichloroethene	<0.70	ug/m3	1.4	0.70	2.52		12/17/15 18:48	79-01-6	
Trichlorofluoromethane	1.5J	ug/m3	2.9	0.33	2.52		12/17/15 18:48	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.76	ug/m3	4.0	0.76	2.52		12/17/15 18:48	76-13-1	
1,2,4-Trimethylbenzene	3.2	ug/m3	2.5	0.32	2.52		12/17/15 18:48	95-63-6	
1,3,5-Trimethylbenzene	<0.46	ug/m3	2.5	0.46	2.52		12/17/15 18:48	108-67-8	
Vinyl acetate	<0.83	ug/m3	1.8	0.83	2.52		12/17/15 18:48	108-05-4	
Vinyl chloride	<0.49	ug/m3	0.66	0.49	2.52		12/17/15 18:48	75-01-4	
m&p-Xylene	<2.0	ug/m3	4.5	2.0	2.52		12/17/15 18:48	179601-23-1	
o-Xylene	<0.88	ug/m3	2.2	0.88	2.52		12/17/15 18:48	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-1488 Metco-Kipps
Pace Project No.: 10332815

Sample: **SS-3** Lab ID: **10332815003** Collected: 12/08/15 11:30 Received: 12/10/15 11:25 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	35.7	ug/m3	4.1	1.4	1.68		12/17/15 19:17	67-64-1	
Benzene	0.81	ug/m3	0.55	0.20	1.68		12/17/15 19:17	71-43-2	
Benzyl chloride	<0.28	ug/m3	1.8	0.28	1.68		12/17/15 19:17	100-44-7	
Bromodichloromethane	<0.33	ug/m3	2.3	0.33	1.68		12/17/15 19:17	75-27-4	
Bromoform	<1.5	ug/m3	3.5	1.5	1.68		12/17/15 19:17	75-25-2	
Bromomethane	<0.52	ug/m3	1.3	0.52	1.68		12/17/15 19:17	74-83-9	
1,3-Butadiene	<0.30	ug/m3	0.76	0.30	1.68		12/17/15 19:17	106-99-0	
2-Butanone (MEK)	3.7J	ug/m3	5.0	0.38	1.68		12/17/15 19:17	78-93-3	
Carbon disulfide	0.98J	ug/m3	1.1	0.17	1.68		12/17/15 19:17	75-15-0	
Carbon tetrachloride	<0.32	ug/m3	1.1	0.32	1.68		12/17/15 19:17	56-23-5	
Chlorobenzene	<0.23	ug/m3	1.6	0.23	1.68		12/17/15 19:17	108-90-7	
Chloroethane	<0.33	ug/m3	0.91	0.33	1.68		12/17/15 19:17	75-00-3	
Chloroform	<0.32	ug/m3	0.83	0.32	1.68		12/17/15 19:17	67-66-3	
Chloromethane	<0.18	ug/m3	0.71	0.18	1.68		12/17/15 19:17	74-87-3	
Cyclohexane	3.1	ug/m3	1.2	0.53	1.68		12/17/15 19:17	110-82-7	
Dibromochloromethane	<1.4	ug/m3	2.9	1.4	1.68		12/17/15 19:17	124-48-1	
1,2-Dibromoethane (EDB)	<1.3	ug/m3	2.6	1.3	1.68		12/17/15 19:17	106-93-4	
1,2-Dichlorobenzene	<0.86	ug/m3	2.0	0.86	1.68		12/17/15 19:17	95-50-1	
1,3-Dichlorobenzene	6.4	ug/m3	2.0	0.89	1.68		12/17/15 19:17	541-73-1	
1,4-Dichlorobenzene	3.8	ug/m3	2.0	0.84	1.68		12/17/15 19:17	106-46-7	
Dichlorodifluoromethane	2.3	ug/m3	1.7	0.81	1.68		12/17/15 19:17	75-71-8	
1,1-Dichloroethane	<0.26	ug/m3	1.4	0.26	1.68		12/17/15 19:17	75-34-3	
1,2-Dichloroethane	<0.34	ug/m3	0.69	0.34	1.68		12/17/15 19:17	107-06-2	
1,1-Dichloroethene	<0.40	ug/m3	1.4	0.40	1.68		12/17/15 19:17	75-35-4	
cis-1,2-Dichloroethene	<0.41	ug/m3	1.4	0.41	1.68		12/17/15 19:17	156-59-2	
trans-1,2-Dichloroethene	<0.65	ug/m3	1.4	0.65	1.68		12/17/15 19:17	156-60-5	
1,2-Dichloropropane	<0.45	ug/m3	1.6	0.45	1.68		12/17/15 19:17	78-87-5	
cis-1,3-Dichloropropene	<0.62	ug/m3	1.5	0.62	1.68		12/17/15 19:17	10061-01-5	
trans-1,3-Dichloropropene	<0.44	ug/m3	1.5	0.44	1.68		12/17/15 19:17	10061-02-6	
Dichlorotetrafluoroethane	<0.52	ug/m3	2.4	0.52	1.68		12/17/15 19:17	76-14-2	
Ethanol	33.6	ug/m3	1.6	0.45	1.68		12/17/15 19:17	64-17-5	
Ethyl acetate	<0.58	ug/m3	1.2	0.58	1.68		12/17/15 19:17	141-78-6	
Ethylbenzene	2.3	ug/m3	1.5	0.71	1.68		12/17/15 19:17	100-41-4	
4-Ethyltoluene	6.5	ug/m3	1.7	0.32	1.68		12/17/15 19:17	622-96-8	
n-Heptane	1.7	ug/m3	1.4	0.47	1.68		12/17/15 19:17	142-82-5	
Hexachloro-1,3-butadiene	<1.1	ug/m3	3.7	1.1	1.68		12/17/15 19:17	87-68-3	
n-Hexane	2.2	ug/m3	1.2	0.60	1.68		12/17/15 19:17	110-54-3	
2-Hexanone	0.80J	ug/m3	7.0	0.69	1.68		12/17/15 19:17	591-78-6	
Methylene Chloride	<0.91	ug/m3	5.9	0.91	1.68		12/17/15 19:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	1.7J	ug/m3	7.0	0.36	1.68		12/17/15 19:17	108-10-1	
Methyl-tert-butyl ether	<0.51	ug/m3	6.2	0.51	1.68		12/17/15 19:17	1634-04-4	
Naphthalene	3.9J	ug/m3	4.5	0.51	1.68		12/17/15 19:17	91-20-3	
2-Propanol	40.9	ug/m3	4.2	0.40	1.68		12/17/15 19:17	67-63-0	
Propylene	<0.23	ug/m3	0.59	0.23	1.68		12/17/15 19:17	115-07-1	
Styrene	<0.32	ug/m3	1.5	0.32	1.68		12/17/15 19:17	100-42-5	
1,1,1,2-Tetrachloroethane	<0.55	ug/m3	1.2	0.55	1.68		12/17/15 19:17	79-34-5	

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ANALYTICAL RESULTS

Project: 15-1488 Metco-Kipps
Pace Project No.: 10332815

Sample: **SS-3** Lab ID: **10332815003** Collected: 12/08/15 11:30 Received: 12/10/15 11:25 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Tetrachloroethene	5.2	ug/m3	1.2	0.47	1.68		12/17/15 19:17	127-18-4	
Tetrahydrofuran	<0.20	ug/m3	1.0	0.20	1.68		12/17/15 19:17	109-99-9	
Toluene	3.1	ug/m3	1.3	0.26	1.68		12/17/15 19:17	108-88-3	
1,2,4-Trichlorobenzene	<1.5	ug/m3	6.3	1.5	1.68		12/17/15 19:17	120-82-1	
1,1,1-Trichloroethane	<0.41	ug/m3	1.9	0.41	1.68		12/17/15 19:17	71-55-6	
1,1,2-Trichloroethane	<0.41	ug/m3	0.92	0.41	1.68		12/17/15 19:17	79-00-5	
Trichloroethene	<0.46	ug/m3	0.92	0.46	1.68		12/17/15 19:17	79-01-6	
Trichlorofluoromethane	1.5J	ug/m3	1.9	0.22	1.68		12/17/15 19:17	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.51	ug/m3	2.7	0.51	1.68		12/17/15 19:17	76-13-1	
1,2,4-Trimethylbenzene	14.5	ug/m3	1.7	0.21	1.68		12/17/15 19:17	95-63-6	
1,3,5-Trimethylbenzene	3.7	ug/m3	1.7	0.31	1.68		12/17/15 19:17	108-67-8	
Vinyl acetate	<0.55	ug/m3	1.2	0.55	1.68		12/17/15 19:17	108-05-4	
Vinyl chloride	<0.33	ug/m3	0.44	0.33	1.68		12/17/15 19:17	75-01-4	
m&p-Xylene	12.3	ug/m3	3.0	1.3	1.68		12/17/15 19:17	179601-23-1	
o-Xylene	4.4	ug/m3	1.5	0.59	1.68		12/17/15 19:17	95-47-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 15-1488 Metco-Kipps
Pace Project No.: 10332815

QC Batch: AIR/24874 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10332815001, 10332815002, 10332815003

METHOD BLANK: 2160986 Matrix: Air
Associated Lab Samples: 10332815001, 10332815002, 10332815003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.25	1.1	12/17/15 15:55	
1,1,2,2-Tetrachloroethane	ug/m3	<0.33	0.70	12/17/15 15:55	
1,1,2-Trichloroethane	ug/m3	<0.25	0.55	12/17/15 15:55	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.30	1.6	12/17/15 15:55	
1,1-Dichloroethane	ug/m3	<0.16	0.82	12/17/15 15:55	
1,1-Dichloroethene	ug/m3	<0.24	0.81	12/17/15 15:55	
1,2,4-Trichlorobenzene	ug/m3	<0.91	3.8	12/17/15 15:55	
1,2,4-Trimethylbenzene	ug/m3	<0.12	1.0	12/17/15 15:55	
1,2-Dibromoethane (EDB)	ug/m3	<0.77	1.6	12/17/15 15:55	
1,2-Dichlorobenzene	ug/m3	<0.51	1.2	12/17/15 15:55	
1,2-Dichloroethane	ug/m3	<0.20	0.41	12/17/15 15:55	
1,2-Dichloropropane	ug/m3	<0.27	0.94	12/17/15 15:55	
1,3,5-Trimethylbenzene	ug/m3	<0.18	1.0	12/17/15 15:55	
1,3-Butadiene	ug/m3	<0.18	0.45	12/17/15 15:55	
1,3-Dichlorobenzene	ug/m3	<0.53	1.2	12/17/15 15:55	
1,4-Dichlorobenzene	ug/m3	<0.50	1.2	12/17/15 15:55	
2-Butanone (MEK)	ug/m3	<0.23	3.0	12/17/15 15:55	
2-Hexanone	ug/m3	<0.41	4.2	12/17/15 15:55	
2-Propanol	ug/m3	<0.24	2.5	12/17/15 15:55	
4-Ethyltoluene	ug/m3	<0.19	1.0	12/17/15 15:55	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.22	4.2	12/17/15 15:55	
Acetone	ug/m3	<0.83	2.4	12/17/15 15:55	
Benzene	ug/m3	<0.12	0.32	12/17/15 15:55	
Benzyl chloride	ug/m3	<0.17	1.0	12/17/15 15:55	
Bromodichloromethane	ug/m3	<0.19	1.4	12/17/15 15:55	
Bromoform	ug/m3	<0.90	2.1	12/17/15 15:55	
Bromomethane	ug/m3	<0.31	0.79	12/17/15 15:55	
Carbon disulfide	ug/m3	<0.10	0.63	12/17/15 15:55	
Carbon tetrachloride	ug/m3	<0.19	0.64	12/17/15 15:55	
Chlorobenzene	ug/m3	<0.13	0.94	12/17/15 15:55	
Chloroethane	ug/m3	<0.19	0.54	12/17/15 15:55	
Chloroform	ug/m3	<0.19	0.50	12/17/15 15:55	
Chloromethane	ug/m3	<0.11	0.42	12/17/15 15:55	
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	12/17/15 15:55	
cis-1,3-Dichloropropene	ug/m3	<0.37	0.92	12/17/15 15:55	
Cyclohexane	ug/m3	<0.32	0.70	12/17/15 15:55	
Dibromochloromethane	ug/m3	<0.86	1.7	12/17/15 15:55	
Dichlorodifluoromethane	ug/m3	<0.48	1.0	12/17/15 15:55	
Dichlorotetrafluoroethane	ug/m3	<0.31	1.4	12/17/15 15:55	
Ethanol	ug/m3	<0.26	0.96	12/17/15 15:55	
Ethyl acetate	ug/m3	<0.35	0.73	12/17/15 15:55	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 15-1488 Metco-Kipps
Pace Project No.: 10332815

METHOD BLANK: 2160986 Matrix: Air
Associated Lab Samples: 10332815001, 10332815002, 10332815003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	<0.42	0.88	12/17/15 15:55	
Hexachloro-1,3-butadiene	ug/m3	<0.65	2.2	12/17/15 15:55	
m&p-Xylene	ug/m3	<0.79	1.8	12/17/15 15:55	
Methyl-tert-butyl ether	ug/m3	<0.30	3.7	12/17/15 15:55	
Methylene Chloride	ug/m3	<0.54	3.5	12/17/15 15:55	
n-Heptane	ug/m3	<0.28	0.83	12/17/15 15:55	
n-Hexane	ug/m3	<0.36	0.72	12/17/15 15:55	
Naphthalene	ug/m3	<0.30	2.7	12/17/15 15:55	
o-Xylene	ug/m3	<0.35	0.88	12/17/15 15:55	
Propylene	ug/m3	<0.14	0.35	12/17/15 15:55	
Styrene	ug/m3	<0.19	0.87	12/17/15 15:55	
Tetrachloroethene	ug/m3	<0.28	0.69	12/17/15 15:55	
Tetrahydrofuran	ug/m3	<0.12	0.60	12/17/15 15:55	
Toluene	ug/m3	<0.15	0.77	12/17/15 15:55	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	12/17/15 15:55	
trans-1,3-Dichloropropene	ug/m3	<0.26	0.92	12/17/15 15:55	
Trichloroethene	ug/m3	<0.28	0.55	12/17/15 15:55	
Trichlorofluoromethane	ug/m3	<0.13	1.1	12/17/15 15:55	
Vinyl acetate	ug/m3	<0.33	0.72	12/17/15 15:55	
Vinyl chloride	ug/m3	<0.20	0.26	12/17/15 15:55	

LABORATORY CONTROL SAMPLE: 2160987

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	54.3	98	72-140	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	73.2	105	68-137	
1,1,2-Trichloroethane	ug/m3	55.5	55.6	100	66-138	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	75.9	97	70-132	
1,1-Dichloroethane	ug/m3	41.2	40.1	97	68-137	
1,1-Dichloroethene	ug/m3	40.3	40.8	101	73-138	
1,2,4-Trichlorobenzene	ug/m3	75.5	67.4	89	48-150	
1,2,4-Trimethylbenzene	ug/m3	50	52.1	104	75-134	
1,2-Dibromoethane (EDB)	ug/m3	78.1	83.9	107	75-132	
1,2-Dichlorobenzene	ug/m3	61.2	61.4	100	71-129	
1,2-Dichloroethane	ug/m3	41.2	41.8	102	73-139	
1,2-Dichloropropane	ug/m3	47	46.6	99	70-130	
1,3,5-Trimethylbenzene	ug/m3	50	54.0	108	75-133	
1,3-Butadiene	ug/m3	22.5	21.6	96	66-135	
1,3-Dichlorobenzene	ug/m3	61.2	62.8	103	75-131	
1,4-Dichlorobenzene	ug/m3	61.2	61.1	100	69-135	
2-Butanone (MEK)	ug/m3	30	31.5	105	67-131	
2-Hexanone	ug/m3	41.7	47.1	113	72-130	
2-Propanol	ug/m3	25	27.2	109	66-133	
4-Ethyltoluene	ug/m3	50	51.6	103	75-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 15-1488 Metco-Kipps
Pace Project No.: 10332815

LABORATORY CONTROL SAMPLE: 2160987

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	44.4	107	68-134	
Acetone	ug/m3	24.2	22.7	94	63-144	
Benzene	ug/m3	32.5	32.4	100	64-139	
Benzyl chloride	ug/m3	52.5	51.5	98	75-129	
Bromodichloromethane	ug/m3	68.2	68.5	100	75-134	
Bromoform	ug/m3	105	117	111	72-130	
Bromomethane	ug/m3	39.5	36.3	92	71-132	
Carbon disulfide	ug/m3	31.7	30.1	95	56-139	
Carbon tetrachloride	ug/m3	64	65.0	102	75-150	
Chlorobenzene	ug/m3	46.8	50.9	109	71-132	
Chloroethane	ug/m3	26.8	26.9	100	71-129	
Chloroform	ug/m3	49.7	49.5	100	73-136	
Chloromethane	ug/m3	21	19.7	94	52-143	
cis-1,2-Dichloroethene	ug/m3	40.3	43.8	109	64-137	
cis-1,3-Dichloropropene	ug/m3	46.2	50.9	110	75-128	
Cyclohexane	ug/m3	35	31.6	90	62-143	
Dibromochloromethane	ug/m3	86.6	96.4	111	75-136	
Dichlorodifluoromethane	ug/m3	50.3	50.3	100	70-141	
Dichlorotetrafluoroethane	ug/m3	71.1	66.6	94	71-139	
Ethanol	ug/m3	19.2	25.4	132	60-144	
Ethyl acetate	ug/m3	36.6	35.9	98	64-137	
Ethylbenzene	ug/m3	44.2	46.4	105	71-136	
Hexachloro-1,3-butadiene	ug/m3	108	90.7	84	51-150	
m&p-Xylene	ug/m3	44.2	48.1	109	71-134	
Methyl-tert-butyl ether	ug/m3	36.7	37.1	101	73-134	
Methylene Chloride	ug/m3	35.3	35.3	100	64-130	
n-Heptane	ug/m3	41.7	42.7	103	63-135	
n-Hexane	ug/m3	35.8	25.1	70	69-135	
Naphthalene	ug/m3	53.3	52.6	99	43-150	
o-Xylene	ug/m3	44.2	46.5	105	75-134	
Propylene	ug/m3	17.5	16.5	94	58-135	
Styrene	ug/m3	43.3	47.9	111	75-133	
Tetrachloroethene	ug/m3	69	70.0	101	66-137	
Tetrahydrofuran	ug/m3	30	30.3	101	58-135	
Toluene	ug/m3	38.3	37.9	99	70-129	
trans-1,2-Dichloroethene	ug/m3	40.3	41.4	103	61-140	
trans-1,3-Dichloropropene	ug/m3	46.2	43.8	95	75-134	
Trichloroethene	ug/m3	54.6	53.3	98	70-134	
Trichlorofluoromethane	ug/m3	57.1	53.3	93	67-140	
Vinyl acetate	ug/m3	35.8	39.6	111	60-139	
Vinyl chloride	ug/m3	26	24.3	94	72-129	

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QUALITY CONTROL DATA

Project: 15-1488 Metco-Kipps
Pace Project No.: 10332815

SAMPLE DUPLICATE: 2162222

Parameter	Units	10332842001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.36		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.47		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.35		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	0.73J		25	
1,1-Dichloroethane	ug/m3	ND	<0.23		25	
1,1-Dichloroethene	ug/m3	ND	<0.34		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<1.3		25	
1,2,4-Trimethylbenzene	ug/m3	26.1	27.9	7	25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<1.1		25	
1,2-Dichlorobenzene	ug/m3	ND	<0.74		25	
1,2-Dichloroethane	ug/m3	ND	<0.30		25	
1,2-Dichloropropane	ug/m3	ND	<0.39		25	
1,3,5-Trimethylbenzene	ug/m3	8.7	9.1	4	25	
1,3-Butadiene	ug/m3	ND	<0.25		25	
1,3-Dichlorobenzene	ug/m3	ND	<0.76		25	
1,4-Dichlorobenzene	ug/m3	ND	<0.72		25	
2-Butanone (MEK)	ug/m3	14.3	14.3	0	25	
2-Hexanone	ug/m3	ND	<0.59		25	
2-Propanol	ug/m3	ND	14.3		25	
4-Ethyltoluene	ug/m3	8.6	9.0	4	25	
4-Methyl-2-pentanone (MIBK)	ug/m3	86.4	90.8	5	25	
Acetone	ug/m3	29.2	30.0	3	25	
Benzene	ug/m3	15.0	15.9	6	25	
Benzyl chloride	ug/m3	ND	<0.24		25	
Bromodichloromethane	ug/m3	ND	<0.28		25	
Bromoform	ug/m3	ND	<1.3		25	
Bromomethane	ug/m3	ND	<0.45		25	
Carbon disulfide	ug/m3	3.5	3.7	3	25	
Carbon tetrachloride	ug/m3	ND	<0.28		25	
Chlorobenzene	ug/m3	ND	<0.19		25	
Chloroethane	ug/m3	ND	<0.28		25	
Chloroform	ug/m3	ND	<0.27		25	
Chloromethane	ug/m3	ND	<0.16		25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.35		25	
cis-1,3-Dichloropropene	ug/m3	ND	<0.53		25	
Cyclohexane	ug/m3	9.8	10.5	7	25	
Dibromochloromethane	ug/m3	ND	<1.2		25	
Dichlorodifluoromethane	ug/m3	8760	1820	131	25	E,R1
Dichlorotetrafluoroethane	ug/m3	ND	<0.45		25	
Ethanol	ug/m3	195	200	2	25	
Ethyl acetate	ug/m3	ND	2.2		25	
Ethylbenzene	ug/m3	12.4	13.1	5	25	
Hexachloro-1,3-butadiene	ug/m3	ND	<0.94		25	
m&p-Xylene	ug/m3	29.4	30.8	5	25	
Methyl-tert-butyl ether	ug/m3	ND	<0.44		25	
Methylene Chloride	ug/m3	ND	<0.78		25	
n-Heptane	ug/m3	13.2	13.6	3	25	

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QUALITY CONTROL DATA

Project: 15-1488 Metco-Kipps
Pace Project No.: 10332815

SAMPLE DUPLICATE: 2162222

Parameter	Units	10332842001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	9.7	10.6	8	25	
Naphthalene	ug/m3	ND	1.6J		25	
o-Xylene	ug/m3	11.1	11.6	5	25	
Propylene	ug/m3	113	118	4	25	E
Styrene	ug/m3	3.5	3.8	9	25	
Tetrachloroethene	ug/m3	1.1	1.1	3	25	
Tetrahydrofuran	ug/m3	2.2	<0.17		25	
Toluene	ug/m3	38.9	40.8	5	25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.55		25	
trans-1,3-Dichloropropene	ug/m3	ND	<0.37		25	
Trichloroethene	ug/m3	ND	<0.40		25	
Trichlorofluoromethane	ug/m3	305	318	4	25	E
Vinyl acetate	ug/m3	ND	<0.48		25	
Vinyl chloride	ug/m3	ND	<0.28		25	

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QUALIFIERS

Project: 15-1488 Metco-Kipps
Pace Project No.: 10332815

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

SAMPLE QUALIFIERS

Sample: 10332815001

[1] The internal standard recoveries associated with this sample exceed the lower control limit. The reported results should be considered estimated values.

Sample: 10332815002

[1] The internal standard recoveries associated with this sample exceed the lower control limit. The reported results should be considered estimated values.

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 15-1488 Metco-Kipps
Pace Project No.: 10332815

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10332815001	IA-5433	TO-15	AIR/24874		
10332815002	IA-5431	TO-15	AIR/24874		
10332815003	SS-3	TO-15	AIR/24874		

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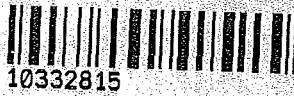
Document Name:
Air Sample Condition Upon Receipt
Document No.:
F-MN-A-106-rev.10

Document Revised: 29 June 2015
Page 1 of 1
Issuing Authority:
Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Fehr Graham Project #: _____

WO#: **10332815**



Courier: Fed Ex UPS Speedee Client
 Commercial Pace Other: walco

Tracking Number: _____

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Tin Can Other: _____ Temp Blank rec: Yes No

Temp. (TO17 and TO13 samples only) (°C): X Corrected Temp (°C): X Thermom. Used: B88A912167504 72337080
 B88A9132521491 80512447
Temp should be above freezing to 6°C Correction Factor: X Date & Initials of Person Examining Contents: 2/10/15

Type of ice Received Blue Wet None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Media: <u>Air Can</u> Airbag Filter TDT Passive		11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID
IA-5432	2138	1047			
IA-6431	0952	0748			
SS-3	0782	0563			

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: _____

Date: 2/10/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Synergy Environmental Lab,

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

MELVIN KIPP
KIPPS AUTO & TOWING
5507 W. HAMPTON AVENUE
MILWAUKEE, WI 53218

Report Date 29-Feb-16

Project Name KIPP'S AUTO&TOWING
Project #

Invoice # E30511

Lab Code 5030511A
Sample ID MW-3
Sample Matrix Water
Sample Date 2/16/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021	2/23/2016	2/23/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021	2/23/2016	2/23/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021	2/23/2016	2/23/2016	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021	2/23/2016	2/23/2016	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021	2/23/2016	2/23/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021	2/23/2016	2/23/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021	2/23/2016	2/23/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021	2/23/2016	2/23/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021	2/23/2016	2/23/2016	CJR	1

Lab Code 5030511B
Sample ID MW-4
Sample Matrix Water
Sample Date 2/16/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021	2/23/2016	2/23/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021	2/23/2016	2/23/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021	2/23/2016	2/23/2016	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021	2/23/2016	2/23/2016	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021	2/23/2016	2/23/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021	2/23/2016	2/23/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021	2/23/2016	2/23/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021	2/23/2016	2/23/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021	2/23/2016	2/23/2016	CJR	1

Project #

Lab Code 5030511C
 Sample ID MW-7
 Sample Matrix Water
 Sample Date 2/16/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	0.64 "J"	ug/l	0.46	1.5	1	GRO95/8021		2/23/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		2/23/2016	CJR	1
Methyl tert-butyl ether (MTBE)	3.4	ug/l	0.49	1.6	1	GRO95/8021		2/23/2016	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		2/23/2016	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		2/23/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		2/23/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		2/23/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		2/23/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		2/23/2016	CJR	1

Lab Code 5030511D
 Sample ID MW-6
 Sample Matrix Water
 Sample Date 2/16/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		2/25/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		2/25/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		2/25/2016	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		2/25/2016	CJR	1
Toluene	0.50 "J"	ug/l	0.39	1.2	1	GRO95/8021		2/25/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		2/25/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		2/25/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		2/25/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		2/25/2016	CJR	1

Lab Code 5030511E
 Sample ID MW-2
 Sample Matrix Water
 Sample Date 2/16/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	0.48 "J"	ug/l	0.46	1.5	1	GRO95/8021		2/25/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		2/25/2016	CJR	1
Methyl tert-butyl ether (MTBE)	1.62	ug/l	0.49	1.6	1	GRO95/8021		2/25/2016	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		2/25/2016	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		2/25/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		2/25/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		2/25/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		2/25/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		2/25/2016	CJR	1

Project

Lab Code 5030511F
 Sample ID MW-8
 Sample Matrix Water
 Sample Date 2/16/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	91	ug/l	0.44	1.4	1	8260B		2/23/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		2/23/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		2/23/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		2/23/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		2/23/2016	CJR	1
sec-Butylbenzene	10.4	ug/l	1.2	3.8	1	8260B		2/23/2016	CJR	1
n-Butylbenzene	18.9	ug/l	1	3.3	1	8260B		2/23/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		2/23/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		2/23/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		2/23/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		2/23/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		2/23/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		2/23/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		2/23/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		2/23/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/23/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		2/23/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		2/23/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		2/23/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/23/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/23/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		2/23/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		2/23/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		2/23/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		2/23/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		2/23/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		2/23/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		2/23/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		2/23/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		2/23/2016	CJR	1
Ethylbenzene	225	ug/l	7.1	23	10	8260B		2/26/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		2/23/2016	CJR	1
Isopropylbenzene	54	ug/l	0.82	2.6	1	8260B		2/23/2016	CJR	1
p-Isopropyltoluene	5.3	ug/l	1.1	3.5	1	8260B		2/23/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		2/23/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		2/23/2016	CJR	1
Naphthalene	192	ug/l	1.6	5.2	1	8260B		2/23/2016	CJR	1
n-Propylbenzene	135	ug/l	0.77	2.4	1	8260B		2/23/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		2/23/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/23/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		2/23/2016	CJR	1
Toluene	2.5	ug/l	0.44	1.4	1	8260B		2/23/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		2/23/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		2/23/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		2/23/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		2/23/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/23/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/23/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		2/23/2016	CJR	1
1,3,5-Trimethylbenzene	3.13 "J"	ug/l	1.5	4.8	1	8260B		2/23/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		2/23/2016	CJR	1
m&p-Xylene	6.1 "J"	ug/l	2.2	6.9	1	8260B		2/23/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		2/23/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	95	REC %				8260B		2/23/2016	CJR	1
SUR - 4-Bromofluorobenzene	105	REC %				8260B		2/23/2016	CJR	1
SUR - Dibromofluoromethane	100	REC %				8260B		2/23/2016	CJR	1
SUR - Toluene-d8	99	REC %				8260B		2/23/2016	CJR	1

Project Name KIPP'S AUTO&TOWING

Invoice # E30511

Project #

Lab Code 5030511G
 Sample ID MW-1
 Sample Matrix Water
 Sample Date 2/16/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	2350	ug/l	4.6	15	10	GRO95/8021		2/26/2016	CJR	1
Ethylbenzene	2440	ug/l	7.3	23	10	GRO95/8021		2/26/2016	CJR	1
Methyl tert-butyl ether (MTBE)	63	ug/l	4.9	16	10	GRO95/8021		2/26/2016	CJR	1
Naphthalene	194	ug/l	26	83	10	GRO95/8021		2/26/2016	CJR	1
Toluene	116	ug/l	3.9	12	10	GRO95/8021		2/26/2016	CJR	1
1,2,4-Trimethylbenzene	299	ug/l	6.8	22	10	GRO95/8021		2/26/2016	CJR	1
1,3,5-Trimethylbenzene	90	ug/l	8.3	26	10	GRO95/8021		2/26/2016	CJR	1
m&p-Xylene	770	ug/l	14	44	10	GRO95/8021		2/26/2016	CJR	1
o-Xylene	38	ug/l	6.6	21	10	GRO95/8021		2/26/2016	CJR	1

Lab Code 5030511H
 Sample ID TB
 Sample Matrix Water
 Sample Date 2/16/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		2/25/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		2/25/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		2/25/2016	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		2/25/2016	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		2/25/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		2/25/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		2/25/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		2/25/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		2/25/2016	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code Comment

1 Laboratory QC within limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

Michael Ricker

Synergy Environmental Lab,

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

MELVIN KIPP
KIPPS AUTO & TOWING
5507 W. HAMPTON AVENUE
MILWAUKEE, WI 53218

Report Date 02-Jun-16

Project Name KIPPS AUTO & TOWING
Project #

Invoice # E31095

Lab Code 5031095A
Sample ID MW-3
Sample Matrix Water
Sample Date 5/18/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B	5/28/2016	5/28/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B	5/28/2016	5/28/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B	5/28/2016	5/28/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B	5/28/2016	5/28/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B	5/28/2016	5/28/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B	5/28/2016	5/28/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B	5/28/2016	5/28/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B	5/28/2016	5/28/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B	5/28/2016	5/28/2016	CJR	1

Lab Code 5031095B
Sample ID MW-4
Sample Matrix Water
Sample Date 5/18/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B	5/26/2016	5/26/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B	5/26/2016	5/26/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B	5/26/2016	5/26/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B	5/26/2016	5/26/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B	5/26/2016	5/26/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B	5/26/2016	5/26/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B	5/26/2016	5/26/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B	5/26/2016	5/26/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B	5/26/2016	5/26/2016	CJR	1

Project #

Lab Code 5031095C
 Sample ID MW-5
 Sample Matrix Water
 Sample Date 5/18/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		5/26/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		5/26/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		5/26/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		5/26/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		5/26/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		5/26/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		5/26/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		5/26/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		5/26/2016	CJR	1

Lab Code 5031095D
 Sample ID MW-7
 Sample Matrix Water
 Sample Date 5/18/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		5/26/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		5/26/2016	CJR	1
Methyl tert-butyl ether (MTBE)	5.4	ug/l	1.1	3.7	1	8260B		5/26/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		5/26/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		5/26/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		5/26/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		5/26/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		5/26/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		5/26/2016	CJR	1

Lab Code 5031095E
 Sample ID MW-6
 Sample Matrix Water
 Sample Date 5/18/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		5/28/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		5/28/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		5/28/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		5/28/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		5/28/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		5/28/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		5/28/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		5/28/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		5/28/2016	CJR	1

Project Name KIPPS AUTO & TOWING

Invoice # E31095

Project #

Lab Code 5031095F
 Sample ID MW-2
 Sample Matrix Water
 Sample Date 5/18/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		5/28/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		5/28/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		5/28/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		5/28/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		5/28/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		5/28/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		5/28/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		5/28/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		5/28/2016	CJR	1

Lab Code 5031095G
 Sample ID MW-8
 Sample Matrix Water
 Sample Date 5/18/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	96	ug/l	4.4	14	10	8260B		5/31/2016	CJR	1
Ethylbenzene	320	ug/l	7.1	23	10	8260B		5/31/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 11	ug/l	11	37	10	8260B		5/31/2016	CJR	1
Naphthalene	272	ug/l	16	52	10	8260B		5/31/2016	CJR	3
Toluene	< 4.4	ug/l	4.4	14	10	8260B		5/31/2016	CJR	1
1,2,4-Trimethylbenzene	< 16	ug/l	16	50	10	8260B		5/31/2016	CJR	1
1,3,5-Trimethylbenzene	< 15	ug/l	15	48	10	8260B		5/31/2016	CJR	1
m&p-Xylene	< 22	ug/l	22	69	10	8260B		5/31/2016	CJR	1
o-Xylene	< 9	ug/l	9	29	10	8260B		5/31/2016	CJR	1

Lab Code 5031095H
 Sample ID MW-1
 Sample Matrix Water
 Sample Date 5/18/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	3010	ug/l	8.8	28	20	8260B		5/28/2016	CJR	1
Ethylbenzene	3500	ug/l	14.2	46	20	8260B		5/28/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 22	ug/l	22	74	20	8260B		5/28/2016	CJR	1
Naphthalene	340	ug/l	32	104	20	8260B		5/28/2016	CJR	1
Toluene	106	ug/l	8.8	28	20	8260B		5/28/2016	CJR	1
1,2,4-Trimethylbenzene	410	ug/l	32	100	20	8260B		5/28/2016	CJR	1
1,3,5-Trimethylbenzene	115	ug/l	30	96	20	8260B		5/28/2016	CJR	1
m&p-Xylene	850	ug/l	44	138	20	8260B		5/28/2016	CJR	1
o-Xylene	42 "J"	ug/l	18	58	20	8260B		5/28/2016	CJR	1

Project Name KIPPS AUTO & TOWING

Invoice # E31095

Project #

Lab Code 5031095I

Sample ID TB

Sample Matrix Water

Sample Date 5/18/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	<0.44	ug/l	0.44	1.4	1	8260B		5/28/2016	CJR	1
Ethylbenzene	<0.71	ug/l	0.71	2.3	1	8260B		5/28/2016	CJR	1
Methyl tert-butyl ether (MTBE)	<1.1	ug/l	1.1	3.7	1	8260B		5/28/2016	CJR	1
Naphthalene	<1.6	ug/l	1.6	5.2	1	8260B		5/28/2016	CJR	1
Toluene	<0.44	ug/l	0.44	1.4	1	8260B		5/28/2016	CJR	1
1,2,4-Trimethylbenzene	<1.6	ug/l	1.6	5	1	8260B		5/28/2016	CJR	1
1,3,5-Trimethylbenzene	<1.5	ug/l	1.5	4.8	1	8260B		5/28/2016	CJR	1
m&p-Xylene	<2.2	ug/l	2.2	6.9	1	8260B		5/28/2016	CJR	1
o-Xylene	<0.9	ug/l	0.9	2.9	1	8260B		5/28/2016	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code Comment

- 1 Laboratory QC within limits.
- 3 The matrix spike not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

Michael Ricker

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0831

Sample Handling Request	
_____	Rush Analysis Date Required (Rushes accepted only with prior authorization)
<input checked="" type="checkbox"/>	Normal Turn Around

Lab I.D. #	
Account No. :	Quote No.:
Project #:	
Sampler: (signature) <i>Jan Jan</i>	

Project (Name / Location): <u>Kipp's Auto & Towing</u>		Analysis Requested										Other Analysis				
Reports To: <u>Melvin Kipp</u>	Invoice To: <u>Melvin Kipp</u>	DFO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVC (EPA 8021)	PVCOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-ROPA METALS	PID/ FID
Company	Company															
Address	Address															
City State Zip	City State Zip															
Phone	Phone															
FAX	FAX															

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DFO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVC (EPA 8021)	PVCOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-ROPA METALS	PID/ FID	
<u>5031095A</u>	<u>MW-3</u>	<u>5-18</u>	<u>1030</u>				<u>3</u>	<u>GW</u>	<u>HELL</u>																
<u>B</u>	<u>MW-4</u>		<u>1050</u>																						
<u>C</u>	<u>MW-5</u>		<u>1110</u>																						
<u>D</u>	<u>MW-7</u>		<u>1130</u>																						
<u>E</u>	<u>MW-6</u>		<u>1150</u>																						
<u>F</u>	<u>MW-2</u>		<u>1210</u>																						
<u>G</u>	<u>MW-8</u>		<u>1230</u>																						
<u>H</u>	<u>MW-1</u>	<u>↓</u>	<u>1250</u>																						
<u>J</u>	<u>TB</u>																								

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Lab to send copy of report to METCO / Jason P. (Invoice to METCO)

* UTC Rates apply

* Agent Status

Sample Integrity - To be completed by receiving lab. Method of Shipment: <u>Refr</u> Temp. of Temp. Blank _____ °C On Ice <input checked="" type="checkbox"/> Cooler seal intact upon receipt. <input checked="" type="checkbox"/> Yes _____ No	Relinquished By: (sign) <u>Jan Jan</u>	Time <u>8:00 am</u>	Date <u>5-20-16</u>	Received By: (sign) _____	Time _____	Date _____
	Received in Laboratory By: <u>Chad</u>					
	Time: <u>8:00</u> Date: <u>5/23/16</u>					