November 13, 2019

Mr. Joshua Ivey
Milwaukee Holdings, LLC
913 29th Street
Des Moines, Iowa 50301

RE: Additional Remedial Action Plan (RAP) Information
Former Comedy Club Café
615 E. Brady Street
Milwaukee, Wisconsin 53202
UEC Project No. 17028.5
BRRTS No. 02-41-553001

Dear Mr. Ivey:

In a July 3, 2018 letter, Nancy Ryan of the Wisconsin Department of Natural Resources (WDNR) requested additional information from United Engineering Consultants, Inc. (United) prior to approval of the Revised Remedial Action Plan (RAP) report dated May 23, 2018 submitted to the WDNR on May 24, 2018. The following paragraphs discuss the six (6) items outlined in the WDNR correspondence. A summary of each WDNR request is italicized.

The WDNR requested additional detail regarding the abandonment and replacement of underground utilities at the subject property. Specifically, the WDNR requested the submittal of a site map indicating the former and current location of the potable water and natural gas service and a discussion of their abandonment and installation procedures. In addition, a discussion of the combined sanitary and storm sewer upgrades including the catch basin located along the western property line was requested. The WDNR also requested a description of any soil management activities related to the removal and replacement of the underground utilities including soil disposal documentation, if applicable.

The underground potable water and natural gas laterals which extended to the former Comedy Club Café building at 615 E. Brady Street from mains in the N. Jackson Street right-of-way were disconnected at the western elevation of the existing structure and abandoned in-place. No spoil was generated during the abandonment of these utilities.

New potable water and natural gas laterals were extended in a common trench from the N. Jackson Street mains to the northwest corner of the structure at 1684 N. Jackson Street. The excavated soil was transported to Waste Management's Metro RDF in Franklin, Wisconsin for proper off-site disposal under profile V128792WI. The combined sanitary and storm sewer was re-fitted with Polyvinyl Chloride (PVC) piping installed from the building to the main in N. Jackson Street. Minimal to no spoil was generated during the combined sewer upgrade.

The brick catch basin located at the southwest corner of the 615 E. Brady Street parcel was removed. Visible observations performed during its removal indicated it was not connected to the municipal sewer system or the on-site combined sanitary and storm sewer lateral. The material removed immediately adjacent to the abandoned brick catch basin consisted of gravel which was transported to Metro RDF for disposal under profile V128792WI.

The former location of these underground utilities is indicated in the attached Figure 2: Site Plan Map. Their current location is indicated on the attached Figure 17: Building Addition, Patio, Cooler and Dumpster Corral Location Map.

The WDNR stated that due to the absence of laboratory analysis of the soil removed beneath the former floor slab to an approximate depth of two (2) feet at the 615 E. Brady Street building, further discussion of compliance with the criteria described in Wisconsin Administrative Code (WAC) NR 722.09(2)(d)1 and NR 726.05(8) should be provided.

The materials removed within two (2) feet of the bottom of the former floor slab at the 615 E. Brady Street building consisted of concrete rubble from underlying additional floor slabs, foundations and limestone and gravel. Laboratory analysis of these materials was not practical due to the absence of sand or fines (silt and clay) throughout the majority of the footprint of the commercial structure.

TCE and PCE impacted soil at concentrations in exceedance of their respective Non-Industrial Direct Contact and Groundwater Pathway RCLs remain within the former building footprint at approximate depths ranging from three (3) to at least eight (8) feet below the existing floor slab. However, these soils were not accessible to typical excavation techniques due to the immediately adjacent eastern perimeter wall footing of the former and existing commercial structure which is founded at approximately two (2) feet below the bottom of the former floor slab. United concluded that driven sheet piling or comparable shoring and bracing techniques would have been required to facilitate the removal of impacted soil below two (2) feet without adverse impact to the adjacent foundation, alleyway pavement section and underground utilities.

TCE and PCE are also present in the soil at approximate depths ranging from seven (7) to nine (9) feet at concentrations in exceedance of their respective Non-Industrial Direct Contact and/or Groundwater Pathway RCLs north of the duplex and at the southwest corner of the subject property. These soils were also not accessible to typical excavation techniques due to the adjacent northern duplex wall footing reportedly founded approximately four (4) feet below the existing grade and the presence of the immediately adjacent N. Jackson Street right-of-way. United concluded that driven sheet piling or comparable shoring and bracing techniques would be required to facilitate the removal of the impacted soil without adverse impact to the duplex foundation and N. Jackson Street right-of-way.

WAC NR 722.09 states that at sites or facilities where vapors have migrated from the source of contamination, active remedial actions shall be taken to limit or prevent, to the extent practicable, potential and actual hazardous substance discharges and environmental pollution that may attain or exceed vapor action levels. Although the soil with the highest documented TCE and PCE concentrations is not accessible to typical excavation techniques throughout the site, the removal of 788.15 tons of soil during development activities should be considered an active remedial action and the mass and concentration of volatile compounds has been reduced to the extent practicable.

WAC NR 726.05(8) states that a site or facility is not eligible for closure until the following criteria have been met: (a) the vapor exposure pathway has been investigated in accordance with s. NR 716.11(5)(g); and (b) where vapors were present above the vapor risk screening level: 1. A remedial action has been conducted and reduced the mass and concentration of volatile compounds to the extent practicable; and 2. The vapor exposure pathway has been interrupted or mitigated.

The vapor exposure pathway has been investigated in accordance with s. NR 716.11(5)(g) with the results of the assessment indicating the presence of PCE and/or TCE in the sub-slab vapor at concentrations in exceedance of their respective small commercial and residential Vapor Risk Screening Levels (VRSLs) in the commercial building and duplex. Although the soil with the highest documented TCE and PCE concentrations is not accessible to typical excavation techniques throughout the site, the removal of 788.15 tons of soil during development activities should be considered an active remedial action and the mass and concentration of volatile compounds has been reduced to the extent practicable. In addition, the vapor exposure pathway is interrupted or mitigated based on the installation of a sub-slab depressurization system in the commercial building and the duplex.

The WDNR requested a description of the soil excavation activities performed within the building footprint including dates of excavation, conditions encountered during the excavation and documentation of soil characterization and disposal. In addition, the WDNR requested a hazardous waste determination of the soil removed from within the building footprint.

The initial planned renovation of the existing building did not include the removal of the existing concrete floor slab(s). However, upon inspection of the integrity and condition of the concrete slabs by the General Contractor and United, it was determined that the floor slabs would require removal to facilitate the proposed renovation. The majority of the materials present within two (2) feet of the bottom of the former floor slabs at the 615 E. Brady Street building consisted of concrete rubble, limestone and gravel which was excavated and transported to Metro RDF for disposal under profile V128792WI.

The excavation activities within the building footprint were performed with a backhoe in late February and early March of 2018. The excavation depth was terminated at approximately two (2) feet due to the immediately adjacent eastern perimeter wall footing of the former and current commercial structure which is founded at approximately two (2) feet below the bottom of the former floor slab. Any excavated material containing sand or fines was stockpiled and covered with four (4) mil polyethylene sheeting within the building footprint for subsequent composite sampling and laboratory Toxicity Characteristic Leaching Procedure (TCLP) analysis. A composite sample of the soil stockpiled within the building footprint was collected on March 7, 2018 and included petroleum impacted soil encountered during Underground Storage Tank (UST) removal activities.

The results of the composite sample analysis indicated a TCLP PCE concentration of 0.00675 mg/L. TCE was not present at a concentration at or above its method detection limit of 0.00450 mg/L. Total Volatile Organic Compound (VOC) analysis on the composite sample indicated PCE and TCE concentrations of two hundred twelve (212) and 27.9 µg/kg, respectively. These soils were subsequently approved for disposal by Waste Management under previously issued Profile 128792WI (See attached Soil Analytical Results and Chain of Custody Form – March 7, 2018.)

The WDNR requested a revised Figure 18 – Remedial Action Map to include the approximate excavation depths for the addition foundation and the foundation reinforcement of the southern and western perimeter building wall footings. The WDNR also requested a description of the soil removed from around the former catch basin located along the western property line and to provide any soil characterization and disposal documentation. In addition, the WDNR requested submittal of disposal documentation for all excavated soil.

The excavations for the northern building addition, the reinforcement of the western wall footing and the removal and replacement of the southern wall footing for the 615 E. Brady Street structure extended approximately five (5) feet below the current concrete floor elevation (See attached Revised Figure 18: Commercial Building Excavation Limits Map) The backfill soil removed adjacent to the western and southern wall footings predominantly consisted of gravel. The soil excavated for the northern building addition consisted of brown clayey silt to silty clay with varying amounts of sand and gravel. The material removed immediately adjacent to the abandoned brick catch basin consisted of gravel. These materials were transported to Metro RDF for off-site disposal under Profile V128792WI.

The attached customer summary report issued by Waste Management indicates 788.15 tons of special waste containing VOC was transported to Metro RDF from February 26, 2018 to March 23, 2018 for disposal under Profile V128792WI.

The WDNR requested confirmation that the sub-slab depressurization systems have been installed below the floor slab in the commercial building at 615 E. Brady Street and the basement floor slab in the duplex at 1684 N. Jackson Street. The WDNR stated that following construction and initial operation of the systems, commissioning must be completed for each system to comply with section NR 726.05(g) of the WAC.

In addition, the WDNR indicated that performance verification should be conducted following the guidelines provided in WDNR publication RR-800, Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin. The WDNR requested the submittal of documentation of each system design, verification monitoring and base conditions. A system operation, maintenance an inspection plan will also be required since the systems will require operation as a continuing obligation of case closure.

The system for the commercial building consists of four (4) inch diameter triple wall, perforated PVC schedule 40 piping located around the interior foundation perimeter. The holes in the PVC piping face downward and laterally and the piping is surrounded by #1 stone with a minimum of two (2) inches of stone below and adjacent to the piping. Six (6) inches of #1 stone extends across the entire building footprint to insure total air flow beneath the concrete slab (See attached Figure 20: Sub-Slab Vapor Mitigation System Component Location Map). The piping and #1 stone is overlain by twelve (12) inch lapped forty (40) mil polyethylene plastic and a four (4) inch concrete slab. The lapping is caulked and taped.

The horizontal perforated piping is connected to a four (4) inch diameter vertical pipe located at the southeast corner of the proposed commercial structure which extends above the planned roof line to an exterior earth gas fan. One hundred ten (110) volt at 1.5 amp maximum wire extends from the building to a 15A exterior rated outlet installed adjacent to the exterior fan. A manometer is located along the interior of the eastern wall of the commercial structure for monthly inspection.

The system for the duplex consists of four (4) inch diameter triple wall, perforated PVC schedule 40 piping placed in a U shaped trench ranging in width from approximately twelve (12) to twenty (20) inches and about ten (10) to twelve (12) inches in depth (See Figure 20: Sub-Slab Vapor Mitigation System Component Location Map). The holes in the piping face downward and laterally and the piping is surrounded by a minimum of two (2) inches of #1 stone below and adjacent to the piping. The piping is overlain by forty (40) mil polyethylene plastic and a four (4) inch concrete slab.

The horizontal, perforated piping is connected to a vertical four (4) inch diameter PVC pipe located at the northeast corner of the duplex which extends above the planned roof line. The exterior earth gas fan is located at the bottom of the vertical pipe. One hundred ten (110) volt at 1.5 amp maximum wire extends from the duplex to a 15A exterior rated outlet installed adjacent to the exterior fan. A manometer is located along the interior of the northern wall of the duplex for monthly inspection.

Following initial operation of the duplex sub-slab depressurization system, adequate sub-slab vacuum testing will be performed to confirm negative pressure beneath the entire duplex basement concrete slab. Sub-slab vacuum testing of the commercial building is not recommended subsequent to initial system operation due to anticipated unrestricted air flow throughout the uniform six (6) inch stone sub-base. It is estimated that approximately two hundred fifty (250) to three hundred (300) Cubic Feet per Minute (CFM) of air flow will be generated beneath the four thousand (4000) square foot floor slab.

The sub-slab depressurization systems were installed in stages during the renovation of the commercial building and duplex from April 2018 to August 2018. The electrical service to power the systems was installed in May and June of 2019. The systems design and final construction specifications as well as an Operations and Maintenance (O&M) plan will be submitted in a separate report and documented in attachment D of the Case Closure – GIS Registry Form 4400-202.

The WDNR requested a description and the date of the abandonment of the previously installed vapor mitigation trench located immediately north of the duplex at 1684 N. Jackson Street.

The PVC piping was removed from the trench on July 15, 2018. The void space was filled with #1 stone. Concrete was placed above the former vapor mitigation trench.

Sub-Slab Vapor Sampling – October 23, 2018

On October 23, 2018, five (5) sub-slab vapor samples were collected within the commercial building and the duplex. The samples were analyzed for the presence of Chlorinated Volatile Organic Compounds (CVOC) utilizing method TO-15.

The results of the laboratory analysis indicates the presence of TCE and PCE in the commercial building in the immediate area of the former dry cleaning machine (SS-PC2) at concentrations of eight hundred forty four (844) µg/m^3 and twenty two thousand eight hundred (22,800) µg/m^3, respectively. These concentrations are in exceedance of the residential and small commercial sub-slab VRSLs for TCE and PCE. TCE and PCE are present in the commercial structure immediately north of the former dry cleaning machine (SS-PC1) at concentrations which exceed their residential sub-slab VRSLs. TCE and PCE are not present at concentrations in exceedance of their residential and commercial sub-slab VRSLs along the western wall (SS-PC5) of the commercial building.

TCE is present in the duplex at both sampled locations at concentrations of four hundred eighty three (483) µg/m^3 and one thousand three hundred forty (1340) µg/m^3 which are in exceedance of its residential and small commercial sub-slab VRSLs. PCE is present at the sampled locations at concentrations of three thousand forty (3040) µg/m^3 and five thousand three hundred ten (5310) µg/m^3 which exceed its residential sub-slab VRSL (See attached Table 7 – Vapor Analytical Results – Volatile Organic Compounds, Figure 4: Ambient and Sub-Slab Vapor Sample Location Map and Vapor Analytical Results – October 23, 2018).

Sincerely,
United Engineering Consultants, Inc.

Nick Anderson
Nicholas J. Anderson, P.E.
Staff Engineer

Timothy J. Anderson
Timothy J. Anderson, P.E.
Principal

Attachments: Figure 2: Site Plan Map
Figure 17: Building Addition, Patio, Cooler and Dumpster
Corral Location Map
Soil Analytical Results and Chain of Custody Form – March 7, 2018.
Figure 18: Commercial Building Excavation Limits Map
Waste Management Customer Summary Report – Profile: V128792WI
Figure 20: Sub-Slab Vapor Mitigation System Component Location Map
Table 7 – Vapor Analytical Results – Volatile Organic Compounds
Figure 4: Ambient and Sub-Slab Vapor Sample Location Map
Vapor Analytical Results – October 23, 2018

ATTACHMENTS

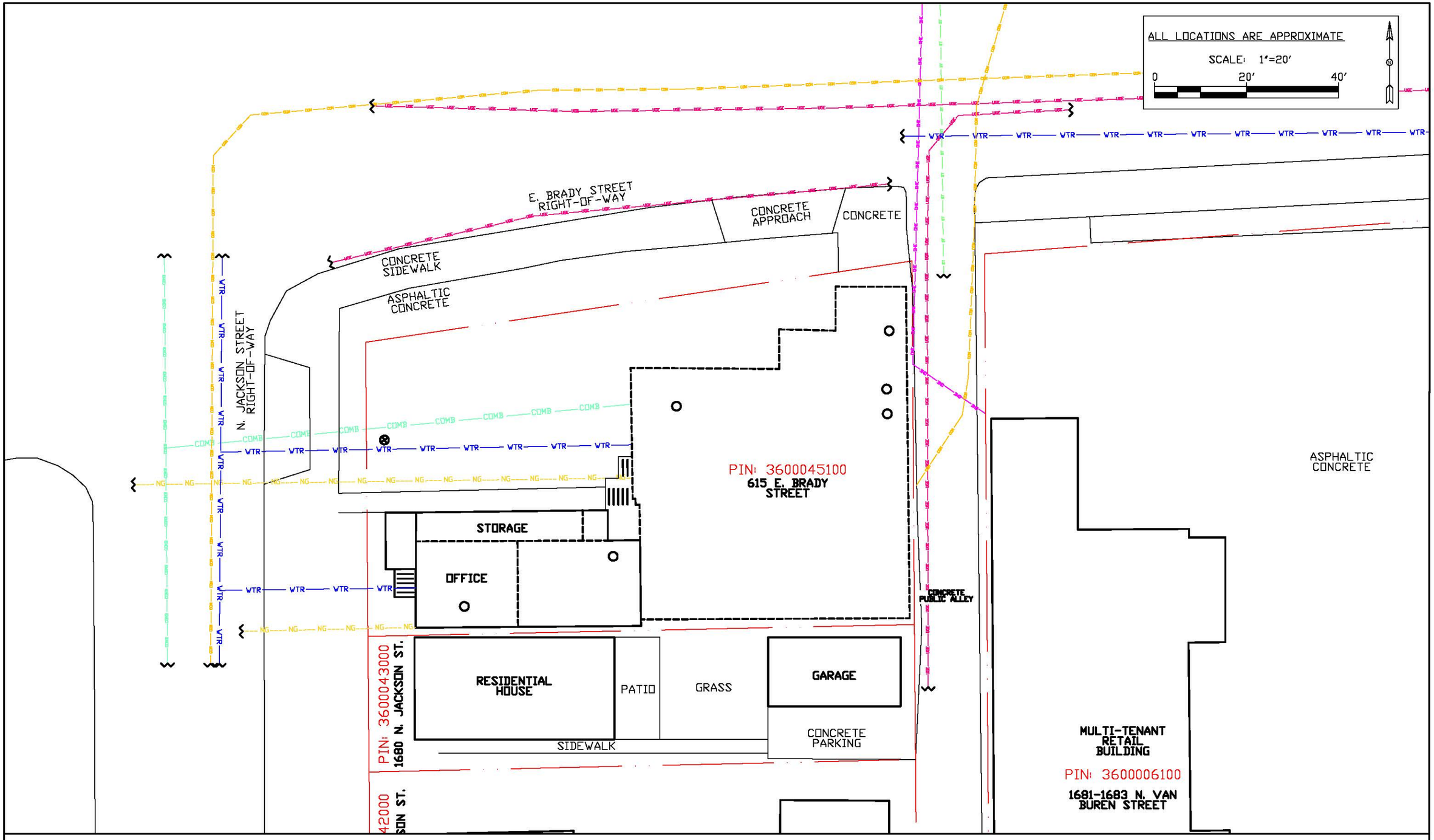

Figure 2: Site Plan Map

United Engineering Consultants, Inc.

16237 W. Ryerson Road
New Berlin, WI 53151
Tel. (262) 785-1447
Fax (262) 706-4400

#17028

DRAWN BY: NJA

DATE: 11/11/2019

Remedial Action Plan (RAP)
Former Comedy Club Cafe
615 E. Brady Street
Milwaukee, WI 53202

Legend

- Property Line
- Underground Natural Gas Line
- Underground Water Line
- Overhead Electric Line
- Underground Electric Line
- Underground Communication Line
- Underground Storm Sewer Line
- Combined Sewer Line
- Former or Existing Floor Drain
- Former Catach Basin

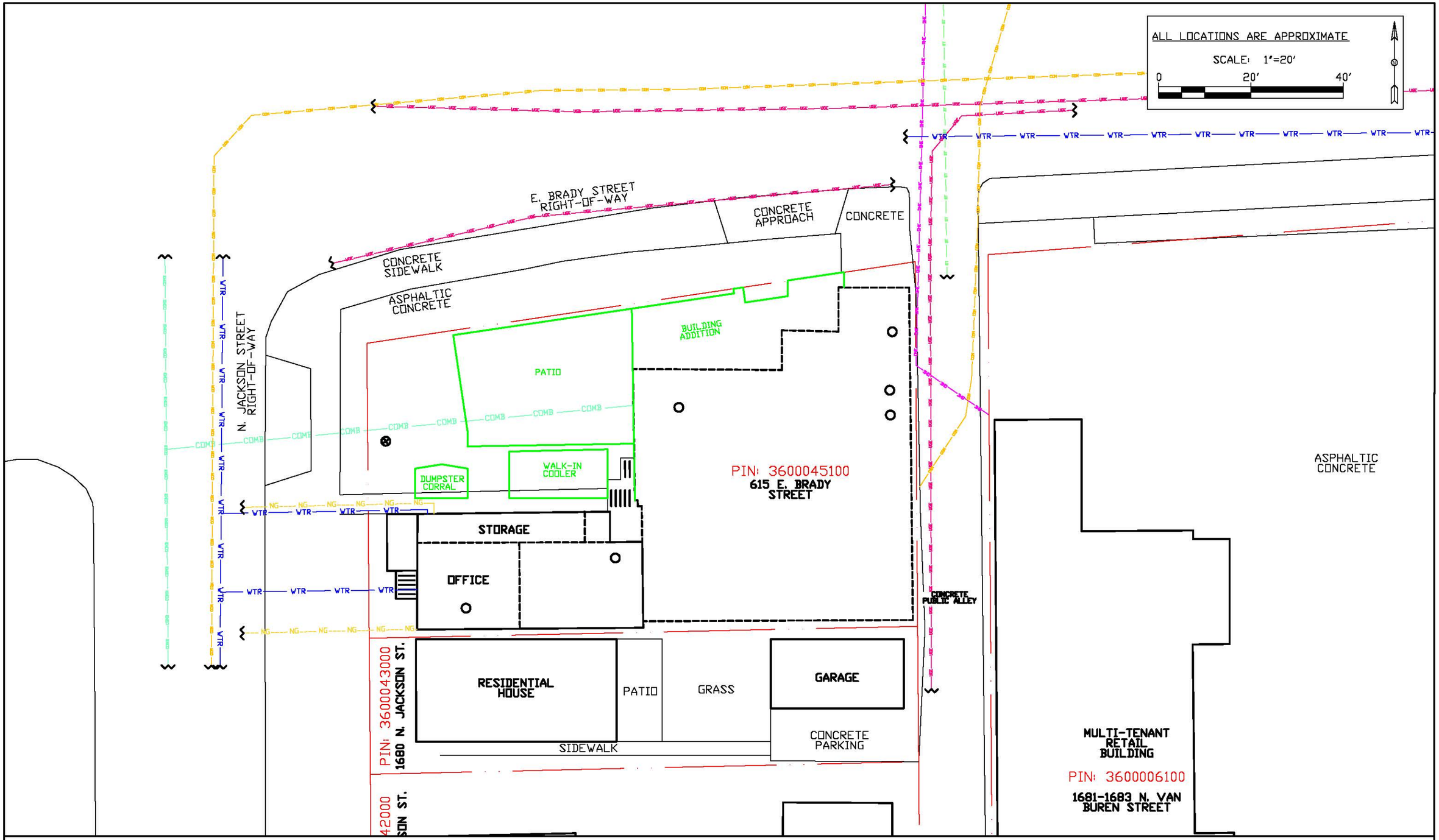

Figure 17: Building Addition, Patio, Cooler and Dumpster Corral Location Map

United Engineering Consultants, Inc.
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DRAWN BY: NJA
DATE: 11/11/2019

Remedial Action Plan (RAP)
Former Comedy Club Cafe
615 E. Brady Street
Milwaukee, WI 53202

Legend

- Property Line
- Underground Natural Gas Line
- Underground Water Line
- Overhead Electric Line
- Underground Electric Line
- Underground Communication Line
- Underground Storm Sewer Line
- Combined Sewer Line
- Proposed Addition

Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 **P** 847.967.6666 800.246.0663 **F** 847.967.6735 www.emt.com

Analytical Report

Timothy J. Anderson
United Engineering Consultants, Inc.
16237 W. Ryerson Road
New Berlin, WI 53151

March 22, 2018

Work Order: 18C0468

RE: Waste Characterization
18006/18009

Dear Timothy J. Anderson:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

Sincerely,

Katherine Langfoss
Project Manager
847.967.6666
klangfoss@emt.com
Approved for release: 3/22/2018 1:02:14PM

Approved by,

Matthew Gregory
Technical Manager

State of Wisconsin Dept of Natural Resources, Cert No. 999888890

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Sample Summary

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-615	18C0468-01	Soil	03/07/18 11:00	03/13/18 17:15
FO-BROADWAY	18C0468-02	Soil	03/08/18 12:00	03/13/18 17:15
PE-E	18C0468-03	Soil	03/07/18 10:45	03/13/18 17:15
PE-C	18C0468-04	Soil	03/07/18 10:50	03/13/18 17:15
PE-W	18C0468-05	Soil	03/07/18 10:55	03/13/18 17:15

Environmental Monitoring and Technologies, Inc.

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Case Narrative

Client: United Engineering Consultants, Inc. **Date:** 03/22/2018
Project: Waste Characterization
18006/18009
Work Order: 18C0468

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

Sample results only relate to the sample(s) received at the laboratory and analytes of interest tested.

Work Order: 18C0468
The samples were received on 03/13/18 17:15. The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was

Cooler	Temp C°
Default Cooler	2.0

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

GC/MS Semivolatiles
Method: 8270D_SVOC_TCLP, B8C0637-BS1: The recovery for two compounds in the blank spike were below the laboratory control limit, However, the BSD recoveries were within acceptable laboratory control limits.

Method: 8270D_SVOC_TCLP, B8C0637-BS1/BSD1: The relative percent difference (RPD) for two spike compounds were outside of the 20% limit. However, the compounds in question were not detected in the sample.

Environmental Monitoring and Technologies, Inc.

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Client Sample Results

Client: United Engineering Consultants, Inc.
Project: Waste Characterization 18006/18009
Work Order: 18C0468

Client Sample ID: SP-615
Report Date: 03/22/2018
Collection Date: 03/07/2018 11:00
Matrix: Soil
Lab ID: 18C0468-01

Analyses	Result	EMT Reporting Limit	Qual	Units	Reg Limit	MDL	Date/Time Analyzed	Batch	Analyst	DF
Metals by ICP-AES										
Method: SW6010C / SW3015 / SW1311										
Lead, TCLP	< 0.0140	0.0500		mg/L	5	0.0140	03/15/18 19:41	B8C0526	GJ1	1
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030 / SW1311										
1,1-Dichloroethene, TCLP	< 0.00585	0.0200		mg/L		0.00585	03/22/18 07:21	B8C0737	JL	1
1,2-Dichloroethane, TCLP	< 0.00725	0.0400		mg/L		0.00725	03/22/18 07:21	B8C0737	JL	1
1,4-Dichlorobenzene, TCLP	< 0.00430	0.0200		mg/L		0.00430	03/22/18 07:21	B8C0737	JL	1
2-Butanone, TCLP	< 0.0477	0.200		mg/L		0.0477	03/22/18 07:21	B8C0737	JL	1
Benzene, TCLP	< 0.00470	0.0200		mg/L		0.00470	03/22/18 07:21	B8C0737	JL	1
Carbon tetrachloride, TCLP	< 0.00425	0.0200		mg/L		0.00425	03/22/18 07:21	B8C0737	JL	1
Chlorobenzene, TCLP	< 0.00305	0.0200		mg/L		0.00305	03/22/18 07:21	B8C0737	JL	1
Chloroform, TCLP	< 0.00650	0.0400		mg/L		0.00650	03/22/18 07:21	B8C0737	JL	1
Tetrachloroethene, TCLP	**0.00675**	0.0200	J	mg/L		0.00510	03/22/18 07:21	B8C0737	JL	1
Trichloroethene, TCLP	< 0.00450	0.0200		mg/L		0.00450	03/22/18 07:21	B8C0737	JL	1
Vinyl chloride, TCLP	< 0.00525	0.0200		mg/L		0.00525	03/22/18 07:21	B8C0737	JL	1
Surrogate: Dibromofluoromethane, TCLP				*Recovery: 111%*		*Limits: 78-119*	*03/22/18 07:21*	*B8C0737*	*JL*	*1*
Surrogate: 1,2-Dichloroethane-d4, TCLP				*Recovery: 131%*		*Limits: 71-136*	*03/22/18 07:21*	*B8C0737*	*JL*	*1*
Surrogate: Fluorobenzene, TCLP				*Recovery: 98%*		*Limits: 81-114*	*03/22/18 07:21*	*B8C0737*	*JL*	*1*
Surrogate: Toluene-d8, TCLP				*Recovery: 91%*		*Limits: 85-116*	*03/22/18 07:21*	*B8C0737*	*JL*	*1*
Surrogate: 4-Bromofluorobenzene, TCLP				*Recovery: 102%*		*Limits: 79-119*	*03/22/18 07:21*	*B8C0737*	*JL*	*1*
Surrogate: 1,2-Dichlorobenzene-d4, TCLP				*Recovery: 106%*		*Limits: 80-120*	*03/22/18 07:21*	*B8C0737*	*JL*	*1*
Semivolatile Organic Compounds by GC/MS										
Method: SW8270D / SW3510 / SW1311										
Cresols, Total, TCLP	< 0.0040	0.0177		mg/L	200	0.0040	03/21/18 05:38	B8C0637	JN1	2
1,4-Dichlorobenzene, TCLP	< 0.0014	0.0088		mg/L	7.5	0.0014	03/21/18 05:38	B8C0637	JN1	2
2,4,5-Trichlorophenol, TCLP	< 0.0051	0.0442		mg/L	400	0.0051	03/21/18 05:38	B8C0637	JN1	2
2,4,6-Trichlorophenol, TCLP	< 0.0057	0.0442		mg/L	2	0.0057	03/21/18 05:38	B8C0637	JN1	2
2,4-Dinitrotoluene, TCLP	< 0.0032	0.0221		mg/L	0.13	0.0032	03/21/18 05:38	B8C0637	JN1	2
2-Methylphenol, TCLP	< 0.0020	0.0088		mg/L	200	0.0020	03/21/18 05:38	B8C0637	JN1	2
3 & 4-Methylphenol, TCLP	< 0.0020	0.0088		mg/L	200	0.0020	03/21/18 05:38	B8C0637	JN1	2
Hexachlorobenzene, TCLP	< 0.0017	0.0088		mg/L	0.13	0.0017	03/21/18 05:38	B8C0637	JN1	2
Hexachlorobutadiene, TCLP	< 0.0053	0.0442		mg/L	0.5	0.0053	03/21/18 05:38	B8C0637	JN1	2
Hexachloroethane, TCLP	< 0.0056	0.0442		mg/L	3	0.0056	03/21/18 05:38	B8C0637	JN1	2
Nitrobenzene, TCLP	< 0.0026	0.0177		mg/L	2	0.0026	03/21/18 05:38	B8C0637	JN1	2
Pentachlorophenol, TCLP	< 0.0335	0.221		mg/L	100	0.0335	03/21/18 05:38	B8C0637	JN1	2
Pyridine, TCLP	< 0.0160	0.110		mg/L	5	0.0160	03/21/18 05:38	B8C0637	JN1	2
Surrogate: 2-Fluorophenol, TCLP				*Recovery: 42%*		*Limits: 4-108*	*03/21/18 05:38*	*B8C0637*	*JN1*	*2*
Surrogate: Phenol-d5, TCLP				*Recovery: 36%*		*Limits: 1-101*	*03/21/18 05:38*	*B8C0637*	*JN1*	*2*
Surrogate: Nitrobenzene-d5, TCLP				*Recovery: 50%*		*Limits: 23-119*	*03/21/18 05:38*	*B8C0637*	*JN1*	*2*
Surrogate: 2-Fluorobiphenyl, TCLP				*Recovery: 44%*		*Limits: 28-124*	*03/21/18 05:38*	*B8C0637*	*JN1*	*2*
Surrogate: 2,4,6-Tribromophenol, TCLP				*Recovery: 40%*		*Limits: 11-102*	*03/21/18 05:38*	*B8C0637*	*JN1*	*2*
Surrogate: 4-Terphenyl-d14, TCLP				*Recovery: 116%*		*Limits: 79-147*	*03/21/18 05:38*	*B8C0637*	*JN1*	*2*

Environmental Monitoring and Technologies, Inc.

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Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: Waste Characterization
18006/18009
Work Order: 18C0468

Client Sample ID: FO-BROADWAY
Report Date: 03/22/2018
Collection Date: 03/08/2018 12:00
Matrix: Soil
Lab ID: 18C0468-02

Analyses	Result	EMT Reporting Limit	Qual	Units	Reg Limit	MDL	Date/Time Analyzed	Batch	Analyst	DF
Wet Chemistry										
Method: SM2540G										
Total Solids	**97.5**	0.100		% (Percent)		0.00700	03/14/18 17:30	B8C0504	JJ2	1
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5035										
Benzene	< 5.89	45.3		ug/Kg dry		5.89	03/16/18 00:48	B8C0554	FP1	50
Surrogate: Fluorobenzene				*Recovery: 97%*		*Limits: 91-106*	*03/16/18 00:48*	*B8C0554*	*FP1*	*50*
Surrogate: Toluene-d8				*Recovery: 85%*		*Limits: 71-112*	*03/16/18 00:48*	*B8C0554*	*FP1*	*50*
Surrogate: 4-Bromofluorobenzene				*Recovery: 98%*		*Limits: 85-119*	*03/16/18 00:48*	*B8C0554*	*FP1*	*50*

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Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: Waste Characterization
18006/18009
Work Order: 18C0468

Client Sample ID: PE-E
Report Date: 03/22/2018
Collection Date: 03/07/2018 10:45
Matrix: Soil
Lab ID: 18C0468-03

Analyses	Result	EMT Reporting Limit	Qual	Units	Reg Limit	MDL	Date/Time Analyzed	Batch	Analyst	DF
Wet Chemistry										
Method: SM2540G										
Total Solids	**93.5**	0.100		% (Percent)		0.00700	03/14/18 17:32	B8C0504	JJ2	1
PVOC Compounds by GC PID/FID										
Method: WI(95)-GRO/PVOC: PUBL-SW-140										
1,2,4-Trimethylbenzene	< 42.6	42.6		ug/Kg dry		42.6	03/15/18 17:21	B8C0564	FP1	50
1,3,5-Trimethylbenzene	< 25.0	25.0		ug/Kg dry		21.0	03/15/18 17:21	B8C0564	FP1	50
Benzene	< 38.6	38.6		ug/Kg dry		38.6	03/15/18 17:21	B8C0564	FP1	50
Ethylbenzene	< 25.2	25.2		ug/Kg dry		25.2	03/15/18 17:21	B8C0564	FP1	50
m,p-Xylene	< 25.0	25.0		ug/Kg dry		23.1	03/15/18 17:21	B8C0564	FP1	50
Methyl tert-butyl ether	< 66.3	66.3		ug/Kg dry		66.3	03/15/18 17:21	B8C0564	FP1	50
Naphthalene	**165**	44.8		ug/Kg dry		44.8	03/15/18 17:21	B8C0564	FP1	50
o-Xylene	< 31.7	31.7		ug/Kg dry		31.7	03/15/18 17:21	B8C0564	FP1	50
Toluene	< 46.3	46.3		ug/Kg dry		46.3	03/15/18 17:21	B8C0564	FP1	50
Xylenes, Total	< 53.6	53.6		ug/Kg dry		53.6	03/15/18 17:21	B8C0564	FP1	50
Surrogate: 1,4-Dichlorobenzene-d4				*Recovery: 101%*		*Limits: 70-130*	*03/15/18 17:21*	*B8C0564*	*FP1*	*50*

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Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: Waste Characterization 18006/18009
Work Order: 18C0468

Client Sample ID: PE-C
Report Date: 03/22/2018
Collection Date: 03/07/2018 10:50
Matrix: Soil
Lab ID: 18C0468-04

Analyses	Result	EMT Reporting Limit	Qual	Units	Reg Limit	MDL	Date/Time Analyzed	Batch	Analyst	DF
Wet Chemistry										
Method: SM2540G										
Total Solids	**93.7**	0.100		% (Percent)		0.00700	03/14/18 17:34	B8C0504	JJ2	1
PVOC Compounds by GC PID/FID										
Method: WI(95)-GRO/PVOC: PUBL-SW-140										
1,2,4-Trimethylbenzene	< 42.6	42.6		ug/Kg dry		42.6	03/15/18 17:56	B8C0564	FP1	50
1,3,5-Trimethylbenzene	< 25.0	25.0		ug/Kg dry		21.0	03/15/18 17:56	B8C0564	FP1	50
Benzene	< 38.6	38.6		ug/Kg dry		38.6	03/15/18 17:56	B8C0564	FP1	50
Ethylbenzene	< 25.2	25.2		ug/Kg dry		25.2	03/15/18 17:56	B8C0564	FP1	50
m,p-Xylene	< 25.0	25.0		ug/Kg dry		23.1	03/15/18 17:56	B8C0564	FP1	50
Methyl tert-butyl ether	< 66.3	66.3		ug/Kg dry		66.3	03/15/18 17:56	B8C0564	FP1	50
Naphthalene	**116**	44.8		ug/Kg dry		44.8	03/15/18 17:56	B8C0564	FP1	50
o-Xylene	< 31.7	31.7		ug/Kg dry		31.7	03/15/18 17:56	B8C0564	FP1	50
Toluene	< 46.3	46.3		ug/Kg dry		46.3	03/15/18 17:56	B8C0564	FP1	50
Xylenes, Total	< 53.6	53.6		ug/Kg dry		53.6	03/15/18 17:56	B8C0564	FP1	50
Surrogate: 1,4-Dichlorobenzene-d4				*Recovery: 106%*		*Limits: 70-130*	*03/15/18 17:56*	*B8C0564*	*FP1*	*50*

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Client Sample Results

(Continued)

Client: United Engineering Consultants, Inc.
Project: Waste Characterization 18006/18009
Work Order: 18C0468

Client Sample ID: PE-W
Report Date: 03/22/2018
Collection Date: 03/07/2018 10:55
Matrix: Soil
Lab ID: 18C0468-05

Analyses	Result	EMT Reporting Limit	Qual	Units	Reg Limit	MDL	Date/Time Analyzed	Batch	Analyst	DF
Wet Chemistry										
Method: SM2540G										
Total Solids	**83.9**	0.100		% (Percent)		0.00700	03/14/18 17:36	B8C0504	JJ2	1
PVOC Compounds by GC PID/FID										
Method: WI(95)-GRO/PVOC: PUBL-SW-140										
1,2,4-Trimethylbenzene	< 42.6	42.6		ug/Kg dry		42.6	03/15/18 18:32	B8C0564	FP1	50
1,3,5-Trimethylbenzene	< 25.0	25.0		ug/Kg dry		21.0	03/15/18 18:32	B8C0564	FP1	50
Benzene	< 38.6	38.6		ug/Kg dry		38.6	03/15/18 18:32	B8C0564	FP1	50
Ethylbenzene	< 25.2	25.2		ug/Kg dry		25.2	03/15/18 18:32	B8C0564	FP1	50
m,p-Xylene	< 25.0	25.0		ug/Kg dry		23.1	03/15/18 18:32	B8C0564	FP1	50
Methyl tert-butyl ether	< 66.3	66.3		ug/Kg dry		66.3	03/15/18 18:32	B8C0564	FP1	50
Naphthalene	**134**	44.8		ug/Kg dry		44.8	03/15/18 18:32	B8C0564	FP1	50
o-Xylene	< 31.7	31.7		ug/Kg dry		31.7	03/15/18 18:32	B8C0564	FP1	50
Toluene	< 46.3	46.3		ug/Kg dry		46.3	03/15/18 18:32	B8C0564	FP1	50
Xylenes, Total	< 53.6	53.6		ug/Kg dry		53.6	03/15/18 18:32	B8C0564	FP1	50
Surrogate: 1,4-Dichlorobenzene-d4				*Recovery: 94%*		*Limits: 70-130*	*03/15/18 18:32*	*B8C0564*	*FP1*	*50*

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8100 N. Austin Avenue Morton Grove, IL 60053-3203 **P** 847.967.6666 800.246.0663 **F** 847.967.6735 www.emt.com

Dates Report

Client: United Engineering Consultants, Inc.
Project: Waste Characterization
18006/18009
Work Order: 18C0468

Report Date: 03/22/2018

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
18C0468-01	SP-615	03/07/18	Soil	Lead, TCLP ICP-AES	03/14/18 11:32	03/15/18 12:29	03/15/18 19:41	B8C0526	S8C0247
				Semivolatile Organic Compounds TCLP by GC/MS	03/14/18 11:32	03/20/18 08:50	03/21/18 05:38	B8C0637	S8C0327
				Volatile Organic Compounds TCLP by GC/MS	03/16/18 16:02	03/21/18 12:07	03/22/18 07:21	B8C0737	S8C0332
18C0468-02	FO-BROADWAY	03/08/18		Total Solids / Percent Moisture		03/14/18 17:09	03/14/18 17:30	B8C0504	
				Volatile Organic Compounds by GC/MS		03/15/18 13:00	03/16/18 00:48	B8C0554	S8C0249
18C0468-03	PE-E	03/07/18		Total Solids / Percent Moisture		03/14/18 17:09	03/14/18 17:32	B8C0504	
				PVOC (WDNR) by GC/FID		03/15/18 09:00	03/15/18 17:21	B8C0564	S8C0253
18C0468-04	PE-C	03/07/18		Total Solids / Percent Moisture		03/14/18 17:09	03/14/18 17:34	B8C0504	
				PVOC (WDNR) by GC/FID		03/15/18 09:00	03/15/18 17:56	B8C0564	S8C0253
18C0468-05	PE-W	03/07/18		Total Solids / Percent Moisture		03/14/18 17:09	03/14/18 17:36	B8C0504	
				PVOC (WDNR) by GC/FID		03/15/18 09:00	03/15/18 18:32	B8C0564	S8C0253

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Quality Control

Client: United Engineering Consultants, Inc.
Project: Waste Characterization
18006/18009
Work Order: 18C0468

Report Date: 03/22/2018
Matrix: Solid

Wet Chemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
Batch: B8C0504											
Blank (B8C0504-BLK1)				*Prepared: 03/14/2018 17:09*			*Analyzed: 03/14/2018 17:42*				
Total Solids	< 0.00700	0.100	%								1
LCS (B8C0504-BS1)				*Prepared: 03/14/2018 17:09*			*Analyzed: 03/14/2018 17:44*				
Total Solids	0.189	0.100	%	0.2000		94.6	80.2-112				1

Environmental Monitoring and Technologies, Inc.

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Quality Control

(Continued)

Client: United Engineering Consultants, Inc.
Project: Waste Characterization 18006/18009
Work Order: 18C0468

Report Date: 03/22/2018
Matrix: Solid

PVOC Compounds by GC PID/FID

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
Batch: B8C0564											
Blank (B8C0564-BLK1)				*Prepared: 03/15/2018 09:00*			*Analyzed: 03/15/2018 10:59*				
1,2,4-Trimethylbenzene	< 42.6	42.6	ug/Kg wet								50
1,3,5-Trimethylbenzene	< 25.0	25.0	ug/Kg wet								50
Benzene	< 38.6	38.6	ug/Kg wet								50
Ethylbenzene	< 25.2	25.2	ug/Kg wet								50
m,p-Xylene	< 25.0	25.0	ug/Kg wet								50
Methyl tert-butyl ether	< 66.3	66.3	ug/Kg wet								50
Naphthalene	< 44.8	44.8	ug/Kg wet								50
o-Xylene	< 31.7	31.7	ug/Kg wet								50
Toluene	< 46.3	46.3	ug/Kg wet								50
Xylenes, Total	< 53.6	53.6	ug/Kg wet								50
Surrogate: 1,4-Dichlorobenzene-d4	*19.7*		*ug/Kg*	*20.00*		*98*	*70-130*				*50*
LCS (B8C0564-BS1)				*Prepared: 03/15/2018 09:00*			*Analyzed: 03/15/2018 16:44*				
1,2,4-Trimethylbenzene	4570	128	ug/Kg wet	5000		91	80-120				50
1,3,5-Trimethylbenzene	4560	63.1	ug/Kg wet	5000		91	80-120				50
Benzene	4580	116	ug/Kg wet	5000		92	80-120				50
Ethylbenzene	4610	75.6	ug/Kg wet	5000		92	80-120				50
m,p-Xylene	9290	69.2	ug/Kg wet	10000		93	80-120				50
Methyl tert-butyl ether	4770	199	ug/Kg wet	5000		95	80-120				50
Naphthalene	4610	134	ug/Kg wet	5000		92	80-120				50
o-Xylene	4650	95.0	ug/Kg wet	5000		93	80-120				50
Toluene	4610	139	ug/Kg wet	5000		92	80-120				50
Xylenes, Total	13900	161	ug/Kg wet	15000		93	80-120				50
Surrogate: 1,4-Dichlorobenzene-d4	*20.2*		*ug/Kg*	*20.00*		*101*	*70-130*				*50*
LCS Dup (B8C0564-BSD1)				*Prepared: 03/15/2018 09:00*			*Analyzed: 03/15/2018 19:08*				
1,2,4-Trimethylbenzene	5570	128	ug/Kg wet	5000		111	80-120	20	20		50
1,3,5-Trimethylbenzene	5550	63.1	ug/Kg wet	5000		111	80-120	19	20		50
Benzene	5580	116	ug/Kg wet	5000		112	80-120	20	20		50
Ethylbenzene	5620	75.6	ug/Kg wet	5000		112	80-120	20	20		50
m,p-Xylene	11300	69.2	ug/Kg wet	10000		113	80-120	20	20		50
Methyl tert-butyl ether	5760	199	ug/Kg wet	5000		115	80-120	19	20		50
Naphthalene	5460	134	ug/Kg wet	5000		109	80-120	17	20		50
o-Xylene	5640	95.0	ug/Kg wet	5000		113	80-120	19	20		50
Toluene	5630	139	ug/Kg wet	5000		113	80-120	20	20		50
Xylenes, Total	17000	161	ug/Kg wet	15000		113	80-120	20	20		50
Surrogate: 1,4-Dichlorobenzene-d4	*20.2*		*ug/Kg*	*20.00*		*101*	*70-130*				*50*

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Quality Control

(Continued)

Client: United Engineering Consultants, Inc.
Project: Waste Characterization 18006/18009
Work Order: 18C0468

Report Date: 03/22/2018
Matrix: Solid

Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
Batch: B8C0554 - SW5035											
Blank (B8C0554-BLK1)				*Prepared: 03/15/2018 13:00*			*Analyzed: 03/15/2018 14:16*				
Benzene	< 12.8	98.4	ug/Kg wet								50
Surrogate: Fluorobenzene	*19.3*		*ug/Kg*	*20.00*		*96*	*91-106*				*50*
Surrogate: Toluene-d8	*17.5*		*ug/Kg*	*20.00*		*87*	*71-112*				*50*
Surrogate: 4-Bromofluorobenzene	*10.7*		*ug/Kg*	*10.00*		*107*	*85-119*				*50*
LCS (B8C0554-BS1)				*Prepared: 03/15/2018 13:00*			*Analyzed: 03/15/2018 15:16*				
Benzene	4680	97.5	ug/Kg wet	3899		120	77-121				50
Surrogate: Fluorobenzene	*20.2*		*ug/Kg*	*20.00*		*101*	*91-106*				*50*
Surrogate: Toluene-d8	*20.8*		*ug/Kg*	*20.00*		*104*	*71-112*				*50*
Surrogate: 4-Bromofluorobenzene	*9.07*		*ug/Kg*	*10.00*		*91*	*85-119*				*50*
LCS Dup (B8C0554-BSD1)				*Prepared: 03/15/2018 13:00*			*Analyzed: 03/15/2018 15:46*				
Benzene	4510	99.2	ug/Kg wet	3969		114	77-121	4	20		50
Surrogate: Fluorobenzene	*20.3*		*ug/Kg*	*20.00*		*102*	*91-106*				*50*
Surrogate: Toluene-d8	*20.9*		*ug/Kg*	*20.00*		*104*	*71-112*				*50*
Surrogate: 4-Bromofluorobenzene	*9.66*		*ug/Kg*	*10.00*		*97*	*85-119*				*50*
Batch: B8C0737 - SW5030											
Blank (B8C0737-BLK1)				*Prepared: 03/21/2018 12:07*			*Analyzed: 03/22/2018 05:12*				
1,1-Dichloroethene	< 0.00117	0.00400	mg/L								1
1,2-Dichloroethane	< 0.00145	0.00800	mg/L								1
1,4-Dichlorobenzene	< 0.000860	0.00400	mg/L								1
2-Butanone	< 0.00954	0.0400	mg/L								1
Benzene	< 0.000940	0.00400	mg/L								1
Carbon tetrachloride	< 0.000850	0.00400	mg/L								1
Chlorobenzene	< 0.000610	0.00400	mg/L								1
Chloroform	< 0.00130	0.00800	mg/L								1
Tetrachloroethene	< 0.00102	0.00400	mg/L								1
Trichloroethene	< 0.000900	0.00400	mg/L								1
Vinyl chloride	< 0.00105	0.00400	mg/L								1
Surrogate: Dibromofluoromethane	*18.7*		*ug/L*	*20.00*		*93*	*78-119*				*1*
Surrogate: 1,2-Dichloroethane-d4	*19.8*		*ug/L*	*20.00*		*99*	*71-136*				*1*
Surrogate: Fluorobenzene	*19.4*		*ug/L*	*20.00*		*97*	*81-114*				*1*
Surrogate: Toluene-d8	*20.0*		*ug/L*	*20.00*		*100*	*85-116*				*1*
Surrogate: 4-Bromofluorobenzene	*10.6*		*ug/L*	*10.00*		*106*	*79-119*				*1*
Surrogate: 1,2-Dichlorobenzene-d4	*21.6*		*ug/L*	*20.00*		*108*	*80-120*				*1*

Environmental Monitoring and Technologies, Inc.

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Quality Control

(Continued)

Client: United Engineering Consultants, Inc.
Project: Waste Characterization 18006/18009
Work Order: 18C0468

Report Date: 03/22/2018
Matrix: Solid

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
Batch: B8C0737 - SW5030 *(Continued)*											
LCS (B8C0737-BS1)				*Prepared: 03/21/2018 12:07*			*Analyzed: 03/22/2018 02:29*				
1,1-Dichloroethene	0.0980	0.00400	mg/L	0.08000		123	71-131				1
1,2-Dichloroethane	0.0884	0.00800	mg/L	0.08000		111	73-128				1
1,4-Dichlorobenzene	0.0912	0.00400	mg/L	0.08000		114	84-129				1
2-Butanone	0.256	0.0400	mg/L	0.2800		92	71-119				1
Benzene	0.0852	0.00400	mg/L	0.08000		106	79-120				1
Carbon tetrachloride	0.0862	0.00400	mg/L	0.08000		108	75-125				1
Chlorobenzene	0.0870	0.00400	mg/L	0.08000		109	82-118				1
Chloroform	0.0939	0.00800	mg/L	0.08000		117	79-124				1
Tetrachloroethene	0.0810	0.00400	mg/L	0.08000		101	74-129				1
Trichloroethene	0.0868	0.00400	mg/L	0.08000		108	84-129				1
Vinyl chloride	0.106	0.00400	mg/L	0.08000		132	58-137				1
Surrogate: Dibromofluoromethane	*17.8*		*ug/L*	*20.00*		*89*	*78-119*				*1*
Surrogate: 1,2-Dichloroethane-d4	*17.5*		*ug/L*	*20.00*		*88*	*71-136*				*1*
Surrogate: Fluorobenzene	*18.5*		*ug/L*	*20.00*		*92*	*81-114*				*1*
Surrogate: Toluene-d8	*17.4*		*ug/L*	*20.00*		*87*	*85-116*				*1*
Surrogate: 4-Bromofluorobenzene	*8.14*		*ug/L*	*10.00*		*81*	*79-119*				*1*
Surrogate: 1,2-Dichlorobenzene-d4	*17.8*		*ug/L*	*20.00*		*89*	*80-120*				*1*
LCS Dup (B8C0737-BSD1)				*Prepared: 03/21/2018 12:07*			*Analyzed: 03/22/2018 03:02*				
1,1-Dichloroethene	0.0719	0.00400	mg/L	0.08000		90	71-131	31	20	P	1
1,2-Dichloroethane	0.0777	0.00800	mg/L	0.08000		97	73-128	13	20		1
1,4-Dichlorobenzene	0.0815	0.00400	mg/L	0.08000		102	84-129	11	20		1
2-Butanone	0.274	0.0400	mg/L	0.2800		98	71-119	7	20		1
Benzene	0.0832	0.00400	mg/L	0.08000		104	79-120	2	20		1
Carbon tetrachloride	0.0793	0.00400	mg/L	0.08000		99	75-125	8	20		1
Chlorobenzene	0.0868	0.00400	mg/L	0.08000		108	82-118	0.3	20		1
Chloroform	0.0915	0.00800	mg/L	0.08000		114	79-124	3	20		1
Tetrachloroethene	0.0783	0.00400	mg/L	0.08000		98	74-129	3	20		1
Trichloroethene	0.0755	0.00400	mg/L	0.08000		94	84-129	14	20		1
Vinyl chloride	0.0772	0.00400	mg/L	0.08000		97	58-137	31	20	P	1
Surrogate: Dibromofluoromethane	*23.7*		*ug/L*	*20.00*		*119*	*78-119*				*1*
Surrogate: 1,2-Dichloroethane-d4	*22.2*		*ug/L*	*20.00*		*111*	*71-136*				*1*
Surrogate: Fluorobenzene	*20.4*		*ug/L*	*20.00*		*102*	*81-114*				*1*
Surrogate: Toluene-d8	*21.5*		*ug/L*	*20.00*		*107*	*85-116*				*1*
Surrogate: 4-Bromofluorobenzene	*10.9*		*ug/L*	*10.00*		*109*	*79-119*				*1*
Surrogate: 1,2-Dichlorobenzene-d4	*23.5*		*ug/L*	*20.00*		*117*	*80-120*				*1*

Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 **P** 847.967.6666 800.246.0663 **F** 847.967.6735 www.emt.com

Quality Control

(Continued)

Client: United Engineering Consultants, Inc.
Project: Waste Characterization 18006/18009
Work Order: 18C0468

Report Date: 03/22/2018
Matrix: Water

Metals by ICP-AES

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
Batch: B8C0526 - SW3015											
Blank (B8C0526-BLK1)				*Prepared: 03/15/2018 12:29*			*Analyzed: 03/15/2018 18:59*				
Lead	< 0.0140	0.0500	mg/L								1
TCLP Blank (B8C0526-BLK2)				*Prepared: 03/15/2018 12:29*			*Analyzed: 03/15/2018 19:12*				
Lead	< 0.0140	0.0500	mg/L								1
LCS (B8C0526-BS1)				*Prepared: 03/15/2018 12:29*			*Analyzed: 03/15/2018 19:03*				
Lead	1.24	0.0500	mg/L	1.250		98.9	86-113				1
Serial Dilution (B8C0526-DUP1)		**Source: 18C0466-01**		*Prepared: 03/15/2018 12:29*			*Analyzed: 03/15/2018 20:02*				
Lead	< 0.0700	0.250	mg/L		ND				10		5
MRL Check (B8C0526-MRL1)				*Prepared: 03/15/2018 12:29*			*Analyzed: 03/15/2018 19:08*				
Lead	0.0682	0.0500	mg/L	0.06250		109	70-130				1
Matrix Spike (B8C0526-MS1)		**Source: 18C0466-01**		*Prepared: 03/15/2018 12:29*			*Analyzed: 03/15/2018 19:50*				
Lead	1.16	0.0500	mg/L	1.250	0.0186	91.6	75-125				1
Matrix Spike Dup (B8C0526-MSD1)		**Source: 18C0466-01**		*Prepared: 03/15/2018 12:29*			*Analyzed: 03/15/2018 19:54*				
Lead	1.18	0.0500	mg/L	1.250	0.0186	92.5	75-125	0.940	20		1
Post Spike (B8C0526-PS1)		**Source: 18C0466-01**		*Prepared: 03/15/2018 12:29*			*Analyzed: 03/15/2018 19:58*				
Lead	0.662	0.0556	mg/L	0.6944	0.0186	92.7	80-120				1

Environmental Monitoring and Technologies, Inc.

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Quality Control

(Continued)

Client: United Engineering Consultants, Inc.
Project: Waste Characterization 18006/18009
Work Order: 18C0468

Report Date: 03/22/2018
Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
Batch: B8C0637 - SW3510											
Blank (B8C0637-BLK1)				*Prepared: 03/20/2018 08:50*			*Analyzed: 03/21/2018 00:55*				
Cresols, Total	< 0.0021	0.0092	mg/L								1
1,4-Dichlorobenzene	< 0.0007	0.0046	mg/L								1
2,4,5-Trichlorophenol	< 0.0027	0.0231	mg/L								1
2,4,6-Trichlorophenol	< 0.0030	0.0231	mg/L								1
2,4-Dinitrotoluene	< 0.0017	0.0116	mg/L								1
2-Methylphenol	< 0.0011	0.0046	mg/L								1
3 & 4-Methylphenol	< 0.0010	0.0046	mg/L								1
Hexachlorobenzene	< 0.0009	0.0046	mg/L								1
Hexachlorobutadiene	< 0.0028	0.0231	mg/L								1
Hexachloroethane	< 0.0029	0.0231	mg/L								1
Nitrobenzene	< 0.0014	0.0092	mg/L								1
Pentachlorophenol	< 0.0176	0.116	mg/L								1
Pyridine	< 0.0084	0.0578	mg/L								1
Surrogate: 2-Fluorophenol	*0.0291*		*mg/L*	*0.09634*		*30*	*4-108*				*1*
Surrogate: Phenol-d5	*0.0236*		*mg/L*	*0.09634*		*24*	*1-101*				*1*
Surrogate: Nitrobenzene-d5	*0.0330*		*mg/L*	*0.09634*		*34*	*23-119*				*1*
Surrogate: 2-Fluorobiphenyl	*0.0326*		*mg/L*	*0.09634*		*34*	*28-124*				*1*
Surrogate: 2,4,6-Tribromophenol	*0.0179*		*mg/L*	*0.09634*		*19*	*11-102*				*1*
Surrogate: 4-Terphenyl-d14	*0.0981*		*mg/L*	*0.09634*		*102*	*79-147*				*1*
LCS (B8C0637-BS1)				*Prepared: 03/20/2018 08:50*			*Analyzed: 03/21/2018 02:57*				
Cresols, Total	0.0361	0.0040	mg/L	0.1000		36	8-74				1
1,4-Dichlorobenzene	0.0139	0.0020	mg/L	0.05000		28	23-137				1
2,4,5-Trichlorophenol	0.0263	0.0100	mg/L	0.05000		53	33-161				1
2,4,6-Trichlorophenol	0.0212	0.0100	mg/L	0.05000		42	36-149				1
2,4-Dinitrotoluene	0.0353	0.0050	mg/L	0.05000		71	31-151				1
2-Methylphenol	0.0187	0.0020	mg/L	0.05000		37	36-131				1
3 & 4-Methylphenol	0.0174	0.0020	mg/L	0.05000		35	30-137				1
Hexachlorobenzene	0.0336	0.0020	mg/L	0.05000		67	39-139				1
Hexachlorobutadiene	0.0150	0.0100	mg/L	0.05000		30	36-128			S	1
Hexachloroethane	0.0128	0.0100	mg/L	0.05000		26	33-126			S	1
Nitrobenzene	0.0185	0.0040	mg/L	0.05000		37	30-143				1
Pentachlorophenol	0.0322	0.0500	mg/L	0.05000		64	37-112			J	1
Pyridine	0.0105	0.0250	mg/L	0.05000		21	16-133			J	1
Surrogate: 2-Fluorophenol	*0.00977*		*mg/L*	*0.03334*		*29*	*4-108*				*1*
Surrogate: Phenol-d5	*0.00713*		*mg/L*	*0.03334*		*21*	*1-101*				*1*
Surrogate: Nitrobenzene-d5	*0.0126*		*mg/L*	*0.03334*		*38*	*23-119*				*1*
Surrogate: 2-Fluorobiphenyl	*0.0132*		*mg/L*	*0.03334*		*40*	*28-124*				*1*
Surrogate: 2,4,6-Tribromophenol	*0.0245*		*mg/L*	*0.03334*		*74*	*11-102*				*1*
Surrogate: 4-Terphenyl-d14	*0.0352*		*mg/L*	*0.03334*		*106*	*79-147*				*1*

Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 **P** 847.967.6666 800.246.0663 **F** 847.967.6735 www.emt.com

Quality Control

(Continued)

Client: United Engineering Consultants, Inc.
Project: Waste Characterization
18006/18009
Work Order: 18C0468

Report Date: 03/22/2018
Matrix: Water

Semivolatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
Batch: B8C0637 - SW3510 *(Continued)*											
LCS Dup (B8C0637-BSD1)				*Prepared: 03/20/2018 08:50*			*Analyzed: 03/21/2018 03:37*				
Cresols, Total	0.0420	0.0040	mg/L	0.1000		42	8-74	15	20		1
1,4-Dichlorobenzene	0.0182	0.0020	mg/L	0.05000		36	23-137	26	20	P	1
2,4,5-Trichlorophenol	0.0307	0.0100	mg/L	0.05000		61	33-161	15	20		1
2,4,6-Trichlorophenol	0.0268	0.0100	mg/L	0.05000		54	36-149	23	20	P	1
2,4-Dinitrotoluene	0.0402	0.0050	mg/L	0.05000		80	31-151	13	20		1
2-Methylphenol	0.0221	0.0020	mg/L	0.05000		44	36-131	17	20		1
3 & 4-Methylphenol	0.0199	0.0020	mg/L	0.05000		40	30-137	13	20		1
Hexachlorobenzene	0.0386	0.0020	mg/L	0.05000		77	39-139	14	20		1
Hexachlorobutadiene	0.0182	0.0100	mg/L	0.05000		36	36-128	19	20		1
Hexachloroethane	0.0167	0.0100	mg/L	0.05000		33	33-126	27	20	P	1
Nitrobenzene	0.0246	0.0040	mg/L	0.05000		49	30-143	28	20	P	1
Pentachlorophenol	0.0359	0.0500	mg/L	0.05000		72	37-112	11	20	J	1
Pyridine	0.0140	0.0250	mg/L	0.05000		28	16-133	29	20	P, J	1
Surrogate: 2-Fluorophenol	*0.0114*		*mg/L*	*0.03334*		*34*	*4-108*				*1*
Surrogate: Phenol-d5	*0.00788*		*mg/L*	*0.03334*		*24*	*1-101*				*1*
Surrogate: Nitrobenzene-d5	*0.0164*		*mg/L*	*0.03334*		*49*	*23-119*				*1*
Surrogate: 2-Fluorobiphenyl	*0.0172*		*mg/L*	*0.03334*		*52*	*28-124*				*1*
Surrogate: 2,4,6-Tribromophenol	*0.0270*		*mg/L*	*0.03334*		*81*	*11-102*				*1*
Surrogate: 4-Terphenyl-d14	*0.0370*		*mg/L*	*0.03334*		*111*	*79-147*				*1*

Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 **P** 847.967.6666 800.246.0663 **F** 847.967.6735 www.emt.com

Certified Analyses included in this Report

Analyte	CAS #	Certifications
SM2540G in Solid		
Total Solids	Moist	WDNR
SW6010C in Water		
Lead, TCLP	7439-92-1	AKDEC,ISO,WDNR,DoD,ILEPA
SW8260B in Solid		
1,1-Dichloroethene, TCLP	75-35-4	AKDEC,LELAP,WDNR,DoD,ILEPA
1,2-Dichloroethane, TCLP	107-06-2	AKDEC,LELAP,WDNR,DoD,ILEPA
1,4-Dichlorobenzene, TCLP	106-46-7	LELAP,WDNR,DoD,ILEPA
2-Butanone, TCLP	78-93-3	LELAP,WDNR,DoD,ILEPA
Benzene, TCLP	71-43-2	LELAP,WDNR,DoD,ILEPA
Carbon tetrachloride, TCLP	56-23-5	AKDEC,LELAP,WDNR,DoD,ILEPA
Chlorobenzene, TCLP	108-90-7	AKDEC,LELAP,WDNR,DoD,ILEPA
Chloroform, TCLP	67-66-3	AKDEC,LELAP,WDNR,DoD,ILEPA
Tetrachloroethene, TCLP	127-18-4	LELAP,WDNR,DoD,ILEPA
Trichloroethene, TCLP	79-01-6	AKDEC,LELAP,WDNR,DoD,ILEPA
Vinyl chloride, TCLP	75-01-4	AKDEC,LELAP,WDNR,DoD,ILEPA
Benzene	71-43-2	LELAP,WDNR,DoD,ILEPA
SW8270D in Water		
Cresols, Total, TCLP	1319-77-3	DoD,WDNR
1,4-Dichlorobenzene, TCLP	106-46-7	DoD,WDNR,ILEPA
2,4,5-Trichlorophenol, TCLP	95-95-4	DoD,WDNR,ILEPA
2,4,6-Trichlorophenol, TCLP	88-06-2	DoD,WDNR,ILEPA
2,4-Dinitrotoluene, TCLP	121-14-2	DoD,WDNR,ILEPA
2-Methylphenol, TCLP	95-48-7	DoD,WDNR,ILEPA
3 & 4-Methylphenol, TCLP	84989-04-8	DoD,WDNR,ILEPA
Hexachlorobenzene, TCLP	118-74-1	DoD,WDNR,ILEPA
Hexachlorobutadiene, TCLP	87-68-3	DoD,WDNR,ILEPA
Hexachloroethane, TCLP	67-72-1	DoD,WDNR,ILEPA
Nitrobenzene, TCLP	98-95-3	DoD,WDNR,ILEPA
Pentachlorophenol, TCLP	87-86-5	DoD,WDNR,ILEPA
Pyridine, TCLP	110-86-1	DoD,WDNR,ILEPA
WI(95)-GRO/PVOC: PUBL-SW-140 in Solid		
1,2,4-Trimethylbenzene	95-63-6	WDNR
1,3,5-Trimethylbenzene	108-67-8	WDNR
Benzene	71-43-2	WDNR
Ethylbenzene	100-41-4	WDNR
m,p-Xylene	179601-23-1	WDNR
Methyl tert-butyl ether	1634-04-4	WDNR
Naphthalene	91-20-3	WDNR
o-Xylene	95-47-6	WDNR
Toluene	108-88-3	WDNR
Xylenes, Total	1330-20-7	WDNR

Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 **P** 847.967.6666 800.246.0663 **F** 847.967.6735 www.emt.com

List of Certifications

Code	Description	Number	Expires
AKDEC	State of Alaska, Dept. Environmental Conservation	UST-105	04/30/2018
CPSC	US Consumer Product Safety Commission, Accredited by PJLA Lab No. 1050	L14-56	04/30/2018
DoD	Department of Defense, Accredited by PJLA	L14-55	04/30/2018
ILEPA	State of Illinois, NELAP Accredited Lab No. 100256	003674	08/08/2018
ISO	ISO/IEC 17025, Accredited by PJLA	L14-56	04/30/2018
LELAP	State of Louisiana, NELAP Accredited Lab No. 171344	05015	06/30/2018
NJDEP	State of New Jersey, NELAP Accredited Lab No. IL010	NLC160001	06/30/2018
WDNR	State of Wisconsin Dept of Natural Resources	999888890	08/31/2018

Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 **P** 847.967.6666 800.246.0663 **F** 847.967.6735 www.emt.com

Qualifiers and Definitions

Item	Description
J	Estimated Value
P	The %RPD result is above the laboratory control limits.
S	The recovery is outside of the laboratory control limits.
%Rec	Percent Recovery
MDL	In the state of Wisconsin MDL is equivalent to LOD; in all other applications MDL is equivalent to MDL. In the state of Wisconsin LOQ is equivalent to Reporting Limit.

ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203

18C0468
PM: Katherine Langfoss
United Engineering Consultants, Inc.
UEC Analysis

ustody Record

TURNAROUND TIME:
☐ RUSH
___ day turnaround
☑ ROUTINE

Due Date: ___-___-___ COC #: 157954

Company: UNITED ENGINEERING CONSULTANTS, INC.
Address: 16237 W. RYERSON ROAD
NEW BERLIN, WI 53151

Phone #: (262) 785-1447 Fax #: (262) 706-4400
P.O. #: Proj.#: -
Client Contact:
Project ID / Location: 18006/18009

Sample Type:
1. Waste Water 4. Sludge 7. Groundwater (filtered)
2. Drinking Water 5. Oil 8. Other
3. Soil 6. Groundwater

Container Type:
P - Plastic V - VOC Vial O - Other
G - Glass B - Tedlar Bag

Preservative:
1. None 4. NaOH 7. Zn Ace
2. H_2SO_4 5. HCl 8. Other
3. HNO_3 6. MeOH

Analyses

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	pH	Temp.	Preservation Field	Preservation Lab	TCLP-LEAD	TCLP-VOC	TCLP-SVOC	TOTAL BENZENE	TOTAL SOLIDS	PVOC+NAPHTHALENE	EMT USE ONLY / EMT WORKORDER # 18C0468
SO-615	3	20Z	G	4	N/A	3/7/18	AM	-	-	1.		✓	✓				✓	C1ABCD
FO-BROADWAY	3	40ML	G	2	↓	3/6/18	PM	-	-	6.				✓	✓	✓		C2AB
PE-E	3	↓	↓	↓		3/7/18	AM	-	-	6					✓	✓		C3AB
PE-C	3							-	-	6					✓	✓		C4AB
PE-W	3	✓	✓	✓	✓	✓	✓	-	-	6					✓	✓		C5AB

Relinquished By:	Date: 3-13-18 Time: 1:35 PM	Received By:	Date: 3-13-18 Time: 1335	EMT USE ONLY Client Code:
Relinquished By:	Date: 3-13-18 Time: 1715	Received By:	Date: - - Time: :	EMT Project I.D.
Relinquished By:	Date: - - Time: :	Received For Lab By:	Date: 3-13-18 Time: 17:15	Jar Lot No.

☐ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE (Must be recorded if sampling was greater than 6 hrs. prior to sample receipt)
2.0

EMT SAMPLE RETURN POLICY ON BACK

SPECIAL INSTRUCTIONS: 13 GRAMS ADDED TO "FO-BROADWAY" BY PLASTIC MOULD)
PVOC+NAP ONLY ON "PE" SAMPLES

Sample Receipt Checklist

Work Order: 18C0468

Printed: 3/14/2018 7:59:26AM

Client:	**United Engineering Consultants, Inc.**	**Date Due:**	**03/20/18 17:00 (5 day TAT)**
Project:	**Waste Characterization**		

Received By:	**Steven Legacki**	**Date Received:**	**03/13/18 17:15**
Logged In By:	**Steven Legacki**	**Date Logged In:**	**03/13/18 18:00**

Samples Received at:	**2°C**
How were samples received?	EMT
Custody Seals Present	No
Custody Seals Intact	NA
Sample Cont/Cooler Intact	Yes
COC Present/Complete	Yes
COC/Labels Agree	Yes
Proper Cont/Preservation checked	No
Sufficient Sample Volume	Yes
Samples Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	No
VOA Water Vials/Zero Headspace	NA
PM or Client Contacted	Yes

COMMENTS

Chain says vials have MeOH, vials do not say they are preserved

3/13/18

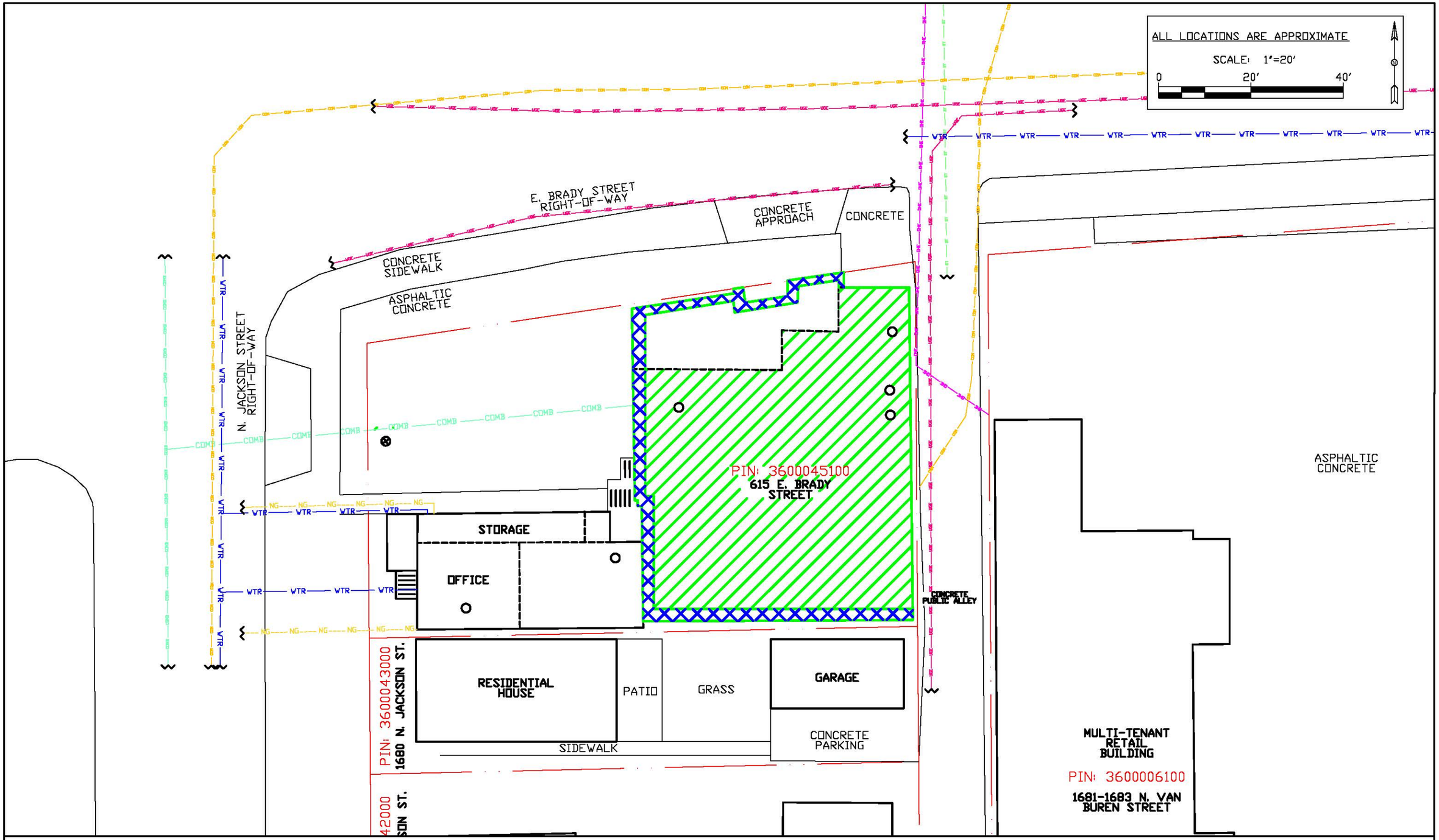

Figure 18: Commerical Building Excavation Limits Map

United Engineering Consultants, Inc.
16237 W. Ryerson Road
New Berlin, WI 53151
Tel. (262) 785-1447
Fax (262) 706-4400

#17028
DRAWN BY: NJA
DATE: 11/11/2019

Remedial Action Plan (RAP)
Former Comedy Club Cafe
615 E. Brady Street
Milwaukee, WI 53202

Legend

- Property Line
- Underground Natural Gas Line
- Underground Water Line
- Overhead Electric Line
- Underground Electric Line
- Underground Communication Line
- Underground Storm Sewer Line
- Combined Sewer Line
- Floor Slab Excavation Limits (Depth: 2 Feet)
- Footing Excavation Limits (Depth: 5 Feet)

Customer Summary Report
Criteria: 02/15/2018 12:00 AM to 05/22/2018 11:59 PM
Business Unit Name: Metro RDF - S03948 (USA)
Profile: V128792WI

Ticket Date	Ticket ID	Cust Code	MAS Unique ID	Customer	Generator	Manifest	Profile	Truck	Material	Material Description	Tons
2/26/2018	913713	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	22618302	V128792WI	89	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	17.44
2/27/2018	913864	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	22718104	V128792WI	98	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	26.59
2/27/2018	913875	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	22718121	V128792WI	89	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	19.67
2/27/2018	913909	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	22718249	V128792WI	98	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	20.53
2/27/2018	913920	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	22718309	V128792WI	89	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	14.11
2/28/2018	913950	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	22818738	V128792WI	89	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	15.55
2/28/2018	913954	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	22818814	V128792WI	98	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	20.88
2/28/2018	913976	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	22818914	V128792WI	89	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	14.18
2/28/2018	914010	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	228181053	V128792WI	89	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	14.74
2/28/2018	914015	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	228181115	V128792WI	98	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	17.93
2/28/2018	914034	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	228181221	V128792WI	89	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	15.55
3/1/2018	914171	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	30118951	V128792WI	98	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	17.28
3/1/2018	914300	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	30118342	V128792WI	98	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	22.47
3/2/2018	914336	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	30218837	V128792WI	9	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	22.2
3/2/2018	914346	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	30218902	V128792WI	89	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	16.46
3/2/2018	914350	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	30218906	V128792WI	98	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	21.28
3/2/2018	914377	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	302181008	V128792WI	9	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	20.85

3/2/2018	914395	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	302181053	V128792WI	89	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	13.86
3/2/2018	914410	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	302181133	V128792WI	98	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	18.39
3/2/2018	914414	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	32181152	V128792WI	9	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	24.57
3/2/2018	914437	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	302181234	V128792WI	89	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	18.86
3/2/2018	914498	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	30218309	V128792WI	89	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	16.5
3/5/2018	914695	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	30518223	V128792WI	98	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	7.78
3/7/2018	914926	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	30718905	V128792WI	61	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	20.25
3/7/2018	914935	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	30718935	V128792WI	98	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	23.21
3/7/2018	914968	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	307181113	V128792WI	61	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	23.94
3/7/2018	915002	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	37181245	V128792WI	61	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	24.33
3/7/2018	915004	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	37181253	V128792WI	98	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	12.59
3/14/2018	915884	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	31418928	V128792WI	214	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	23.74
3/14/2018	915895	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	31418949	V128792WI	89	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	15.26
3/14/2018	915922	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	314181114	V128792WI	214	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	21.49
3/14/2018	915928	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	314181132	V128792WI	89	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	17.82
3/14/2018	915948	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	314181243	V128792WI	214	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	21.48
3/14/2018	915967	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	31418130	V128792WI	89	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	14.88
3/14/2018	916013	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	31418410	V128792WI	214	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	14.91
3/15/2018	916023	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	31518738	V128792WI	89	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	14.28
3/15/2018	916066	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	31518957	V128792WI	101	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	20.42

3/15/2018	916103	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	315181222	V128792WI	89	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	7.11
3/22/2018	916988	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	32218902	V128792WI	89	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	16.53
3/22/2018	917028	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	322181045	V128792WI	89	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	17.88
3/22/2018	917067	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	322181251	V128792WI	89	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	17.52
3/22/2018	917122	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	32218307	V128792WI	89	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	15.7
3/23/2018	917173	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	32318755	V128792WI	89	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	15.74
3/23/2018	917248	0003979	196185543000	MILWAUKEE HOLDINGS LLC	136-COMEDYCAFE	323181145	V128792WI	89	Spwaste VOC-Tons	Special Waste containing VOC (VolatileOrganic Compounds)	11.4
Material Total	44										788.15
Customer Total	45										788.15
Ticket Totals	45										788.15

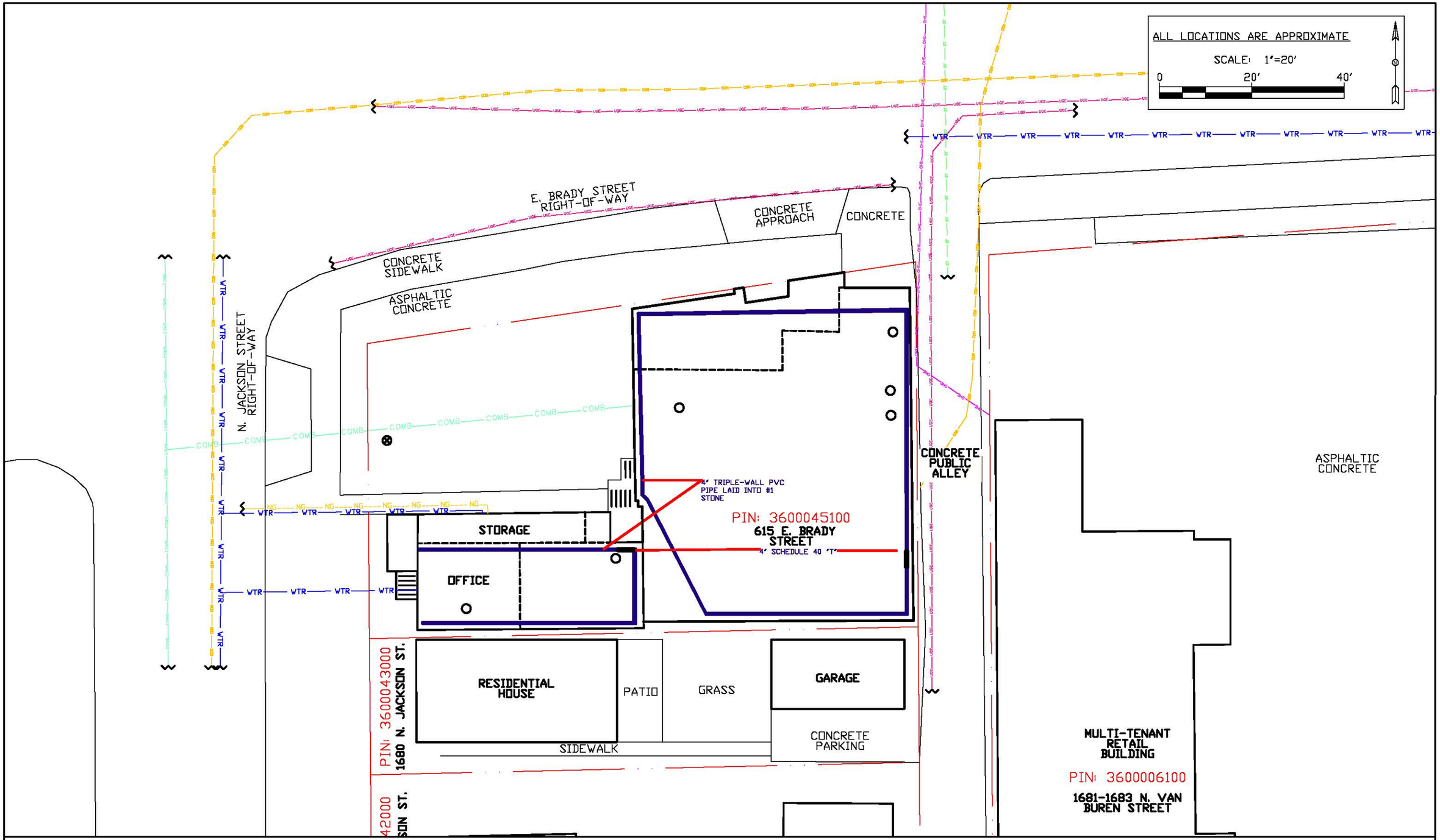

Figure 20: Sub-Slab Vapor Mitigation System Component Location Map

United Engineering Consultants, Inc.

16237 W. Ryerson Road
New Berlin, WI 53151
Tel. (262) 785-1447
Fax (262) 706-4400

#17028

DRAWN BY: NJA

DATE: 05/20/2018

Remedial Action Plan (RAP)
Former Comedy Club Cafe
615 E. Brady Street
Milwaukee, WI 53202

Legend

- Property Line
- Underground Natural Gas Line
- Underground Water Line
- Overhead Electric Line
- Underground Electric Line
- Underground Communication Line
- Underground Storm Sewer Line
- Combined Sewer Line

Table 7
Vapor Analytical Results - Volatile Organic Compounds
Former Comedy Club Cafe
615 E. Brady Street
Milwaukee, Wisconsin 53202

Sample Identification	SS-PC1	SS-PC2	SS-PC3	SS-PC4	SS-PC5	Residential	Small Commercial
Sample Type	**SS**	**SS**	**SS**	**SS**	**SS**		
Sample Date	**10/23/18**	**10/23/18**	**10/23/18**	**10/23/18**	**10/23/18**		
Sample Duration (Hours)	0.5	0.5	0.5	0.5	0.5		
Location	Bar	Bar	Bar	Duplex	Duplex	**Sub-Slab VRSL**	**Sub-Slab VRSL**
Chlorinated Volatile Organic Compounds (CVOC) (Method: TO-15)							
Carbon tetrachloride	<0.79	<246	<0.75	<0.79	<0.79	160	670
Chloroform	1.00	<112	<0.34	2.0	1.1	40	180
Chloromethane	0.51J	<89.4	<0.27	1.9	0.86	3100	13000
1,1-Dichloroethane	<0.41	<129	<0.39	<0.41	<0.41	600	2600
1,1-Dichloroethene	<0.50	<157	<0.48	<0.50	<0.50	7000	29000
cis-1,2-Dichloroethene	62.8	352J	<0.28	149	462	-	-
trans-1,2-Dichloroethene	6.9	<163	<0.50	4.3	5.8	-	-
Methylene chloride	3.7J	<541	3.0J	4.1J	8.9	21000	87000
Tetrachloroethene	5750	**22800**	9.0	3040	5310	1400	6000
1,1,1-Trichloroethane	<0.57	<177	<0.54	<0.57	<0.57	170000	730000
Trichloroethene	261	**844**	1.0J	**483**	**1340**	70	290
Vinyl Chloride	<0.23	<72.2	<0.22	<0.23	<0.23	57	930

Notes: All results expressed as µg/m3
VRSL Vapor Risk Screening Level (November 2017 Version)
Residential Sub-slab VRSL exceedances in underline (AF=0.03)
Commercial Sub-slab VRSL exceedances in **bold** (AF=0.03)
- Sub-slab VRSL not established for this compound
J Analyte detected below limit of quatitation
6 Liter Summa Canister
Water Dam Method: Pass
Communication testing not performed
All analysis completed by Pace Analytical Services
Tracer gas was not present in any samples

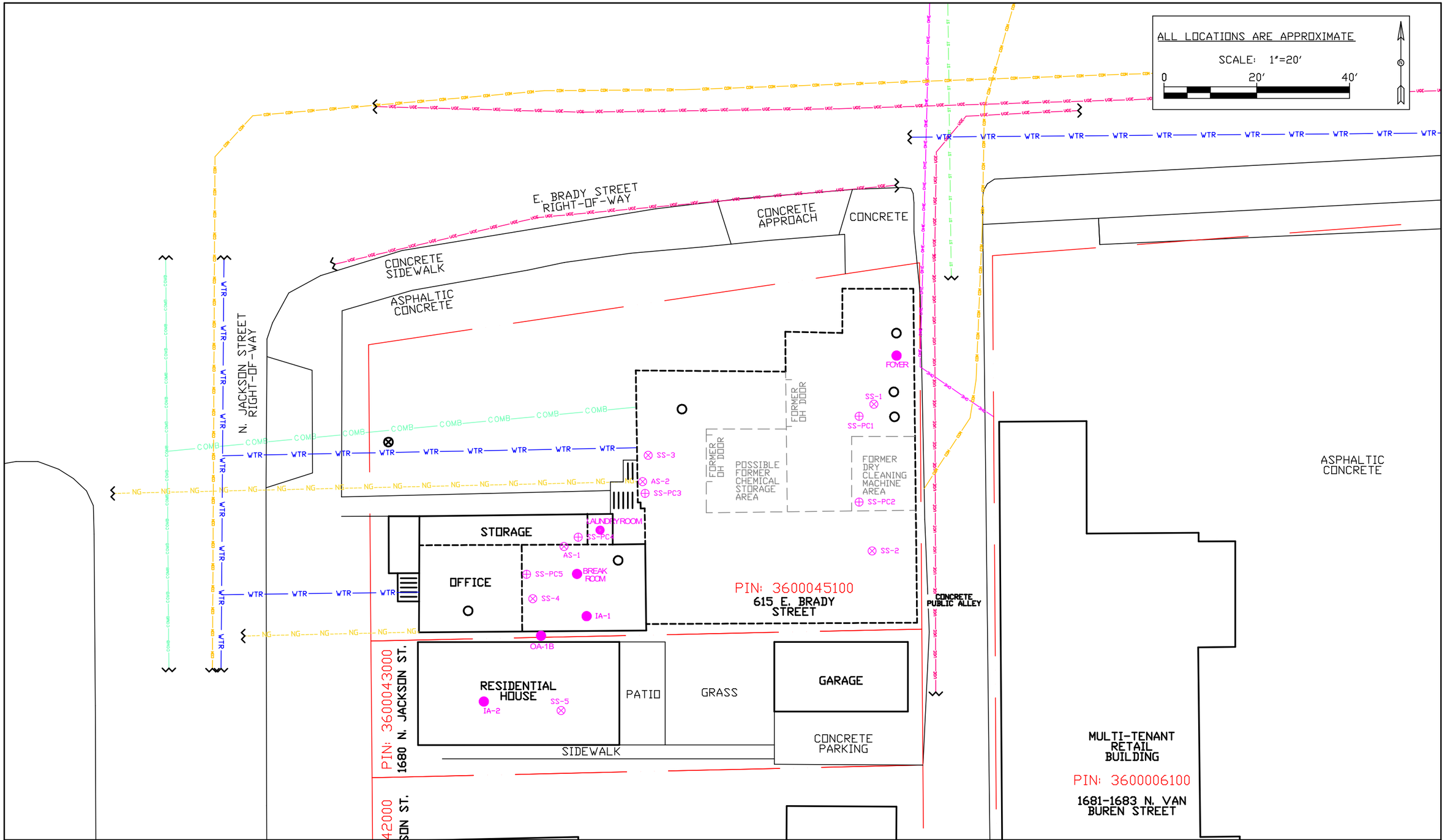

Figure 4: Ambient and Sub-Slab Vapor Sample Location Map

United Engineering Consultants, Inc.

16237 W. Ryerson Road
New Berlin, WI 53151
Tel. (262) 785-1447
Fax (262) 706-4400

#17028

DRAWN BY: NJA

DATE: 10/30/2018

Phase II Environmental Site Assessment
Former Comedy Club Cafe
615 E. Brady Street
Milwaukee, WI 53202

Legend

- Property Line
- Underground Natural Gas Line
- Underground Water Line
- Overhead Electric Line
- Underground Electric Line
- Underground Communication Line
- Underground Storm Sewer Line
- Combined Sewer Line
- BREAK ROOM — Ambient-Air Vapor Sample Location (KEY)
- IA-1 — Sub-Slab Vapor Sample Location (KEY)
- SS-PC1 — Sub-Slab Vapor Sample Location (UEC)

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

October 29, 2018

Mr. Timothy Anderson
United Engineering
16237 W. Ryerson Rd.
New Berlin, WI 53151

RE: Project: 17028
Pace Project No.: 10452878

Dear Mr. Anderson:
Enclosed are the analytical results for sample(s) received by the laboratory on October 24, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC 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,

Kirsten Hogberg
kirsten.hogberg@pacelabs.com
(612)607-1700
Project Manager

Enclosures

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 17028
Pace Project No.: 10452878

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

Pace Analytical Services, LLC
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SAMPLE SUMMARY

Project: 17028
Pace Project No.: 10452878

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10452878001	**SS-PC1**	Air	10/23/18 12:25	10/24/18 11:45
10452878002	**SS-PC2**	Air	10/23/18 12:37	10/24/18 11:45
10452878003	**SS-PC3**	Air	10/23/18 12:50	10/24/18 11:45
10452878004	**SS-PC4**	Air	10/23/18 13:06	10/24/18 11:45
10452878005	**SS-PC5**	Air	10/23/18 13:13	10/24/18 11:45

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SAMPLE ANALYTE COUNT

Project: 17028
Pace Project No.: 10452878

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10452878001	**SS-PC1**	TO-15	MG2	12	PASI-M
10452878002	**SS-PC2**	TO-15	MG2	12	PASI-M
10452878003	**SS-PC3**	TO-15	MJL	12	PASI-M
10452878004	**SS-PC4**	TO-15	MG2	12	PASI-M
10452878005	**SS-PC5**	TO-15	MG2	12	PASI-M

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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(612)607-1700

ANALYTICAL RESULTS

Project: 17028
Pace Project No.: 10452878

Sample: SS-PC1 **Lab ID: 10452878001** Collected: 10/23/18 12:25 Received: 10/24/18 11:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Carbon tetrachloride	**<0.79**	ug/m3	5.9	0.79	1.83		10/26/18 16:13	56-23-5	
Chloroform	**1.0**	ug/m3	0.91	0.36	1.83		10/26/18 16:13	67-66-3	
Chloromethane	**0.51J**	ug/m3	0.77	0.29	1.83		10/26/18 16:13	74-87-3	
1,1-Dichloroethane	**<0.41**	ug/m3	1.5	0.41	1.83		10/26/18 16:13	75-34-3	
1,1-Dichloroethene	**<0.50**	ug/m3	1.5	0.50	1.83		10/26/18 16:13	75-35-4	
cis-1,2-Dichloroethene	**62.8**	ug/m3	1.5	0.40	1.83		10/26/18 16:13	156-59-2	
trans-1,2-Dichloroethene	**6.9**	ug/m3	1.5	0.52	1.83		10/26/18 16:13	156-60-5	
Methylene Chloride	**3.7J**	ug/m3	6.5	1.7	1.83		10/26/18 16:13	75-09-2	
Tetrachloroethene	**5750**	ug/m3	202	91.9	292.8		10/27/18 13:27	127-18-4	
1,1,1-Trichloroethane	**<0.57**	ug/m3	2.0	0.57	1.83		10/26/18 16:13	71-55-6	
Trichloroethene	**261**	ug/m3	1.0	0.47	1.83		10/26/18 16:13	79-01-6	
Vinyl chloride	**<0.23**	ug/m3	0.48	0.23	1.83		10/26/18 16:13	75-01-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 17028
Pace Project No.: 10452878

Sample: SS-PC2 **Lab ID: 10452878002** Collected: 10/23/18 12:37 Received: 10/24/18 11:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Carbon tetrachloride	**<246**	ug/m3	733	246	572.8		10/28/18 01:31	56-23-5	
Chloroform	**<112**	ug/m3	284	112	572.8		10/28/18 01:31	67-66-3	
Chloromethane	**<89.4**	ug/m3	241	89.4	572.8		10/28/18 01:31	74-87-3	
1,1-Dichloroethane	**<129**	ug/m3	471	129	572.8		10/28/18 01:31	75-34-3	
1,1-Dichloroethene	**<157**	ug/m3	462	157	572.8		10/28/18 01:31	75-35-4	
cis-1,2-Dichloroethene	**352J**	ug/m3	462	125	572.8		10/28/18 01:31	156-59-2	
trans-1,2-Dichloroethene	**<163**	ug/m3	462	163	572.8		10/28/18 01:31	156-60-5	
Methylene Chloride	**<541**	ug/m3	2020	541	572.8		10/28/18 01:31	75-09-2	
Tetrachloroethene	**22800**	ug/m3	395	180	572.8		10/28/18 01:31	127-18-4	
1,1,1-Trichloroethane	**<177**	ug/m3	636	177	572.8		10/28/18 01:31	71-55-6	
Trichloroethene	**844**	ug/m3	625	147	572.8		10/28/18 01:31	79-01-6	
Vinyl chloride	**<72.2**	ug/m3	149	72.2	572.8		10/28/18 01:31	75-01-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 17028
Pace Project No.: 10452878

Sample: SS-PC3 **Lab ID: 10452878003** Collected: 10/23/18 12:50 Received: 10/24/18 11:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Carbon tetrachloride	**<0.75**	ug/m3	2.2	0.75	1.75		10/28/18 17:51	56-23-5	
Chloroform	**<0.34**	ug/m3	0.87	0.34	1.75		10/28/18 17:51	67-66-3	
Chloromethane	**<0.27**	ug/m3	0.74	0.27	1.75		10/28/18 17:51	74-87-3	
1,1-Dichloroethane	**<0.39**	ug/m3	1.4	0.39	1.75		10/28/18 17:51	75-34-3	
1,1-Dichloroethene	**<0.48**	ug/m3	1.4	0.48	1.75		10/28/18 17:51	75-35-4	
cis-1,2-Dichloroethene	**<0.38**	ug/m3	1.4	0.38	1.75		10/28/18 17:51	156-59-2	
trans-1,2-Dichloroethene	**<0.50**	ug/m3	1.4	0.50	1.75		10/28/18 17:51	156-60-5	
Methylene Chloride	**3.0J**	ug/m3	15.4	1.7	1.75		10/28/18 17:51	75-09-2	
Tetrachloroethene	**9.0**	ug/m3	2.4	0.55	1.75		10/28/18 17:51	127-18-4	
1,1,1-Trichloroethane	**<0.54**	ug/m3	1.9	0.54	1.75		10/28/18 17:51	71-55-6	
Trichloroethene	**1.0J**	ug/m3	1.9	0.45	1.75		10/28/18 17:51	79-01-6	
Vinyl chloride	**<0.22**	ug/m3	0.46	0.22	1.75		10/28/18 17:51	75-01-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(612)607-1700

ANALYTICAL RESULTS

Project: 17028
Pace Project No.: 10452878

Sample: SS-PC4 **Lab ID: 10452878004** Collected: 10/23/18 13:06 Received: 10/24/18 11:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Carbon tetrachloride	**<0.79**	ug/m3	5.9	0.79	1.83		10/26/18 17:36	56-23-5	
Chloroform	**2.0**	ug/m3	0.91	0.36	1.83		10/26/18 17:36	67-66-3	
Chloromethane	**1.9**	ug/m3	0.77	0.29	1.83		10/26/18 17:36	74-87-3	
1,1-Dichloroethane	**<0.41**	ug/m3	1.5	0.41	1.83		10/26/18 17:36	75-34-3	
1,1-Dichloroethene	**<0.50**	ug/m3	1.5	0.50	1.83		10/26/18 17:36	75-35-4	
cis-1,2-Dichloroethene	**149**	ug/m3	1.5	0.40	1.83		10/26/18 17:36	156-59-2	
trans-1,2-Dichloroethene	**4.3**	ug/m3	1.5	0.52	1.83		10/26/18 17:36	156-60-5	
Methylene Chloride	**4.1J**	ug/m3	6.5	1.7	1.83		10/26/18 17:36	75-09-2	
Tetrachloroethene	**3040**	ug/m3	101	46.0	146.4		10/27/18 15:59	127-18-4	
1,1,1-Trichloroethane	**<0.57**	ug/m3	2.0	0.57	1.83		10/26/18 17:36	71-55-6	
Trichloroethene	**483**	ug/m3	160	37.6	146.4		10/27/18 15:59	79-01-6	
Vinyl chloride	**<0.23**	ug/m3	0.48	0.23	1.83		10/26/18 17:36	75-01-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 17028
Pace Project No.: 10452878

Sample: SS-PC5 **Lab ID: 10452878005** Collected: 10/23/18 13:13 Received: 10/24/18 11:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Carbon tetrachloride	**<0.79**	ug/m3	5.9	0.79	1.83		10/26/18 18:04	56-23-5	
Chloroform	**1.1**	ug/m3	0.91	0.36	1.83		10/26/18 18:04	67-66-3	
Chloromethane	**0.86**	ug/m3	0.77	0.29	1.83		10/26/18 18:04	74-87-3	
1,1-Dichloroethane	**<0.41**	ug/m3	1.5	0.41	1.83		10/26/18 18:04	75-34-3	
1,1-Dichloroethene	**<0.50**	ug/m3	1.5	0.50	1.83		10/26/18 18:04	75-35-4	
cis-1,2-Dichloroethene	**462**	ug/m3	236	64.1	292.8		10/27/18 16:26	156-59-2	
trans-1,2-Dichloroethene	**5.8**	ug/m3	1.5	0.52	1.83		10/26/18 18:04	156-60-5	
Methylene Chloride	**8.9**	ug/m3	6.5	1.7	1.83		10/26/18 18:04	75-09-2	
Tetrachloroethene	**5310**	ug/m3	202	91.9	292.8		10/27/18 16:26	127-18-4	
1,1,1-Trichloroethane	**<0.57**	ug/m3	2.0	0.57	1.83		10/26/18 18:04	71-55-6	
Trichloroethene	**1340**	ug/m3	320	75.2	292.8		10/27/18 16:26	79-01-6	
Vinyl chloride	**<0.23**	ug/m3	0.48	0.23	1.83		10/26/18 18:04	75-01-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 17028
Pace Project No.: 10452878

QC Batch: 571802 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10452878001, 10452878004, 10452878005

METHOD BLANK: 3102301 Matrix: Air
Associated Lab Samples: 10452878001, 10452878004, 10452878005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.31	1.1	10/26/18 10:50	
1,1-Dichloroethane	ug/m3	<0.22	0.82	10/26/18 10:50	
1,1-Dichloroethene	ug/m3	<0.27	0.81	10/26/18 10:50	
Carbon tetrachloride	ug/m3	<0.43	3.2	10/26/18 10:50	
Chloroform	ug/m3	<0.20	0.50	10/26/18 10:50	
Chloromethane	ug/m3	<0.16	0.42	10/26/18 10:50	
cis-1,2-Dichloroethene	ug/m3	<0.22	0.81	10/26/18 10:50	
Methylene Chloride	ug/m3	<0.94	3.5	10/26/18 10:50	
Tetrachloroethene	ug/m3	<0.31	0.69	10/26/18 10:50	
trans-1,2-Dichloroethene	ug/m3	<0.28	0.81	10/26/18 10:50	
Trichloroethene	ug/m3	<0.26	0.55	10/26/18 10:50	
Vinyl chloride	ug/m3	<0.13	0.26	10/26/18 10:50	

LABORATORY CONTROL SAMPLE: 3102302

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	54.8	99	70-135	
1,1-Dichloroethane	ug/m3	41.1	41.6	101	70-134	
1,1-Dichloroethene	ug/m3	40.3	39.2	97	70-137	
Carbon tetrachloride	ug/m3	64	46.2	72	60-145	SS
Chloroform	ug/m3	49.6	48.3	97	70-132	
Chloromethane	ug/m3	21	18.2	87	58-140	
cis-1,2-Dichloroethene	ug/m3	40.3	38.0	94	70-136	
Methylene Chloride	ug/m3	177	166	94	67-132	
Tetrachloroethene	ug/m3	68.9	64.9	94	70-133	
trans-1,2-Dichloroethene	ug/m3	40.3	38.0	94	70-132	
Trichloroethene	ug/m3	54.6	53.8	99	70-135	
Vinyl chloride	ug/m3	26	23.9	92	70-141	

SAMPLE DUPLICATE: 3103527

Parameter	Units	10452907003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.44		25	
1,1-Dichloroethane	ug/m3	ND	<0.32		25	
1,1-Dichloroethene	ug/m3	ND	<0.39		25	
Carbon tetrachloride	ug/m3	ND	<0.62		25	
Chloroform	ug/m3	ND	<0.28		25	
Chloromethane	ug/m3	0.84	0.83	0	25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 17028
Pace Project No.: 10452878

SAMPLE DUPLICATE: 3103527

Parameter	Units	10452907003 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	<0.32		25	
Methylene Chloride	ug/m3	5.4	5.4	0	25	
Tetrachloroethene	ug/m3	ND	0.64J		25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.41		25	
Trichloroethene	ug/m3	ND	<0.37		25	
Vinyl chloride	ug/m3	ND	<0.18		25	

SAMPLE DUPLICATE: 3103528

Parameter	Units	10452907002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.44		25	
1,1-Dichloroethane	ug/m3	ND	<0.32		25	
1,1-Dichloroethene	ug/m3	ND	<0.39		25	
Carbon tetrachloride	ug/m3	ND	<0.62		25	
Chloroform	ug/m3	ND	<0.28		25	
Chloromethane	ug/m3	0.81	1.1	31	25	R1
cis-1,2-Dichloroethene	ug/m3	ND	<0.32		25	
Methylene Chloride	ug/m3	ND	4.6J		25	
Tetrachloroethene	ug/m3	ND	0.73J		25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.41		25	
Trichloroethene	ug/m3	ND	<0.37		25	
Vinyl chloride	ug/m3	ND	<0.18		25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 17028
Pace Project No.: 10452878

QC Batch: 571901
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10452878002

METHOD BLANK: 3103471 Matrix: Air
Associated Lab Samples: 10452878002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.31	1.1	10/27/18 10:42	
1,1-Dichloroethane	ug/m3	<0.22	0.82	10/27/18 10:42	
1,1-Dichloroethene	ug/m3	<0.27	0.81	10/27/18 10:42	
Carbon tetrachloride	ug/m3	<0.43	1.3	10/27/18 10:42	
Chloroform	ug/m3	<0.20	0.50	10/27/18 10:42	
Chloromethane	ug/m3	<0.16	0.42	10/27/18 10:42	
cis-1,2-Dichloroethene	ug/m3	<0.22	0.81	10/27/18 10:42	
Methylene Chloride	ug/m3	<0.94	3.5	10/27/18 10:42	
Tetrachloroethene	ug/m3	<0.31	0.69	10/27/18 10:42	
trans-1,2-Dichloroethene	ug/m3	<0.28	0.81	10/27/18 10:42	
Trichloroethene	ug/m3	<0.26	1.1	10/27/18 10:42	MN
Vinyl chloride	ug/m3	<0.13	0.26	10/27/18 10:42	

LABORATORY CONTROL SAMPLE: 3103472

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	51.0	92	70-135	
1,1-Dichloroethane	ug/m3	41.1	41.2	100	70-134	
1,1-Dichloroethene	ug/m3	40.3	36.3	90	70-137	
Carbon tetrachloride	ug/m3	64	55.4	87	60-145	
Chloroform	ug/m3	49.6	48.8	98	70-132	
Chloromethane	ug/m3	21	19.5	93	58-140	
cis-1,2-Dichloroethene	ug/m3	40.3	41.0	102	70-136	
Methylene Chloride	ug/m3	177	160	91	67-132	
Tetrachloroethene	ug/m3	68.9	70.9	103	70-133	
trans-1,2-Dichloroethene	ug/m3	40.3	41.8	104	70-132	
Trichloroethene	ug/m3	54.6	50.6	93	70-135	
Vinyl chloride	ug/m3	26	25.0	96	70-141	

SAMPLE DUPLICATE: 3103561

Parameter	Units	10452926001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.46		25	
1,1-Dichloroethane	ug/m3	ND	<0.34		25	
1,1-Dichloroethene	ug/m3	ND	<0.41		25	
Carbon tetrachloride	ug/m3	ND	<0.64		25	
Chloroform	ug/m3	ND	<0.29		25	
Chloromethane	ug/m3	0.66	0.96	38	25	R1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 17028
Pace Project No.: 10452878

SAMPLE DUPLICATE: 3103561

Parameter	Units	10452926001 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	<0.33		25	
Methylene Chloride	ug/m3	10.6	10.7	1	25	
Tetrachloroethene	ug/m3	ND	<0.47		25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.42		25	
Trichloroethene	ug/m3	ND	<0.38		25	
Vinyl chloride	ug/m3	ND	<0.19		25	

SAMPLE DUPLICATE: 3103562

Parameter	Units	10452926003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.45		25	
1,1-Dichloroethane	ug/m3	ND	<0.33		25	
1,1-Dichloroethene	ug/m3	ND	<0.40		25	
Carbon tetrachloride	ug/m3	ND	<0.63		25	
Chloroform	ug/m3	ND	<0.29		25	
Chloromethane	ug/m3	1.0	1.1	5	25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.32		25	
Methylene Chloride	ug/m3	7.4	7.5	1	25	
Tetrachloroethene	ug/m3	ND	<0.46		25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.42		25	
Trichloroethene	ug/m3	ND	<0.38		25	
Vinyl chloride	ug/m3	ND	<0.18		25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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(612)607-1700

QUALITY CONTROL DATA

Project: 17028
Pace Project No.: 10452878

QC Batch: 572006
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10452878003

METHOD BLANK: 3103785 Matrix: Air
Associated Lab Samples: 10452878003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.31	1.1	10/28/18 13:56	
1,1-Dichloroethane	ug/m3	<0.22	0.82	10/28/18 13:56	
1,1-Dichloroethene	ug/m3	<0.27	0.81	10/28/18 13:56	
Carbon tetrachloride	ug/m3	<0.43	1.3	10/28/18 13:56	
Chloroform	ug/m3	<0.20	0.50	10/28/18 13:56	
Chloromethane	ug/m3	<0.16	0.42	10/28/18 13:56	
cis-1,2-Dichloroethene	ug/m3	<0.22	0.81	10/28/18 13:56	
Methylene Chloride	ug/m3	<0.94	8.8	10/28/18 13:56	MN
Tetrachloroethene	ug/m3	<0.31	1.4	10/28/18 13:56	MN
trans-1,2-Dichloroethene	ug/m3	<0.28	0.81	10/28/18 13:56	
Trichloroethene	ug/m3	<0.26	1.1	10/28/18 13:56	MN
Vinyl chloride	ug/m3	<0.13	0.26	10/28/18 13:56	

LABORATORY CONTROL SAMPLE: 3103786

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	54.1	98	70-135	
1,1-Dichloroethane	ug/m3	41.1	38.9	95	70-134	
1,1-Dichloroethene	ug/m3	40.3	39.1	97	70-137	
Carbon tetrachloride	ug/m3	64	70.1	110	60-145	
Chloroform	ug/m3	49.6	46.4	94	70-132	
Chloromethane	ug/m3	21	20.9	100	58-140	
cis-1,2-Dichloroethene	ug/m3	40.3	38.5	96	70-136	
Methylene Chloride	ug/m3	177	165	94	67-132	
Tetrachloroethene	ug/m3	68.9	63.5	92	70-133	
trans-1,2-Dichloroethene	ug/m3	40.3	38.3	95	70-132	
Trichloroethene	ug/m3	54.6	50.4	92	70-135	
Vinyl chloride	ug/m3	26	27.1	104	70-141	

SAMPLE DUPLICATE: 3103803

Parameter	Units	10452781008 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.46		25	
1,1-Dichloroethane	ug/m3	ND	<0.34		25	
1,1-Dichloroethene	ug/m3	ND	<0.41		25	
Carbon tetrachloride	ug/m3	ND	<0.64		25	
Chloroform	ug/m3	ND	<0.29		25	
Chloromethane	ug/m3	2.8	2.7	2	25	

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REPORT OF LABORATORY ANALYSIS

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(612)607-1700

QUALITY CONTROL DATA

Project: 17028
Pace Project No.: 10452878

SAMPLE DUPLICATE: 3103803

Parameter	Units	10452781008 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	<0.33		25	
Methylene Chloride	ug/m3	ND	12.1J		25	
Tetrachloroethene	ug/m3	8.2	8.2	0	25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.42		25	
Trichloroethene	ug/m3	ND	<0.38		25	
Vinyl chloride	ug/m3	ND	<0.19		25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 17028
Pace Project No.: 10452878

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: 10452878003

[1]	The Total Hydrocarbon (THC) pattern occured in the second half of the chromatogram (after toluene).

ANALYTE QUALIFIERS

MN	The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.
R1	RPD value was outside control limits.
SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 17028
Pace Project No.: 10452878

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10452878001	**SS-PC1**	TO-15	571802		
10452878002	**SS-PC2**	TO-15	571901		
10452878003	**SS-PC3**	TO-15	572006		
10452878004	**SS-PC4**	TO-15	571802		
10452878005	**SS-PC5**	TO-15	571802		

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AIR: CHAIN-OF-CUSTODY /

The Chain-of-Custody is a LEGAL DOCUMENT. All relevan

WO# : 10452878

10452878

34310

Page: 1 of 1

Section A Required Client Information:

Company: UNITED ENGINEERING CONSULTANTS, INC
Address: 16237 W. RYERSON ROAD
NEW BERLIN, WI 53151
Email To: TAUEC@SBCGLOBAL.NET
Phone: 262-785-1447 Fax: 262-706-4400
Requested Due Date/TAT: N/A

Section B Required Project Information:

Report To: T. ANDERSON
Copy To:
Purchase Order No.:
Project Name: 17028
Project Number:

Section C Invoice Information:

Attention: T. ANDERSON
Company Name: SAME
Address: SAME
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #: 72083

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: WI

Reporting Units: ug/m³ X mg/m³ PPBV PPMV Other

Report Level II. III. IV. Other

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	SS-PC1	6LC		10/23/18	11:55	10/23/18	12:25	30	9	3481							✓				001
2	SS-PC2	6LC			12:07		12:37	30	7	3401							✓				002
3	SS-PC3	6LC			12:20		12:50	29.5	7	3516							✓				003
4	SS-PCH	6LC			12:36		13:06	29	7	3484							✓				004
5	SS-PC5	6LC		↓	12:43	↓	13:13	30	9	3492							✓				005
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments: 2 BOXES

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
UNITED ENGINEERING CONSULTANTS	10/23/18	14:45	[signature]	10/24/18	1145

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
~	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: NICHOLAS ANDERSON
SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 10/23/18

ORIGINAL

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 11Oct2018 Page 1 of 1
	Document No.: F-MN-A-106-rev.16	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: United Eng.

Project #: **WO#: 10452878**

PM: CT1 **Due Date: 10/31/18**

CLIENT: United Eng

Courier: [X] Fed Ex [ ] UPS [ ] Speedee [ ] Client [ ] Commercial [ ] Pace [ ] Other:

Tracking Number: 4545 9906 9336, 9367

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

Optional: Proj. Due Date: Proj. Name:

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

Temp. (TO17 and TO13 samples only) (°C): — Corrected Temp (°C): — Thermom. Used: [ ] G87A9170600254 [ ] G87A9155100842

Temp should be above freezing to 6°C Correction Factor: Date & Initials of Person Examining Contents: AG 10/24/18

Type of Ice Received [ ] Blue [ ] Wet [X] None

			Comments:
Chain of Custody Present?	[X] Yes	[ ] No	1.
Chain of Custody Filled Out?	[X] Yes	[ ] No	2.
Chain of Custody Relinquished?	[X] Yes	[ ] No	3.
Sampler Name and/or Signature on COC?	[X] Yes	[ ] No [ ] N/A	4.
Samples Arrived within Hold Time?	[X] Yes	[ ] No	5.
Short Hold Time Analysis (<72 hr)?	[ ] Yes	[X] No	6.
Rush Turn Around Time Requested?	[ ] Yes	[X] No	7.
Sufficient Volume?	[X] Yes	[ ] No	8.
Correct Containers Used?	[X] Yes	[ ] No	9.
-Pace Containers Used?	[X] Yes	[ ] No	
Containers Intact?	[X] Yes	[ ] No	10.
Media: (Air Can) Airbag Filter TDT Passive			11. Individually Certified Cans Y (N) (list which samples)
Is sufficient information available to reconcile samples to the COC?	[X] Yes	[ ] No	12.

Samples Received: FFFT

Pressure Gauge # 10AIR35

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
PC 1		1747	-8	+5					
" 2		1121	-7.5	"					
" 3		0639	-7	"					
" 4		1646	-8	"					
" 5		2802	-8	"					

CLIENT NOTIFICATION/RESOLUTION Field Data Required? [ ] Yes [ ] No

Person Contacted: Date/Time:

Comments/Resolution: Compound list in folder.

Project Manager Review: Kristen Hoffberg Date: 10/26/2018

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