Status Update Report-October 2022

For Site:

WALMART STORE #5667
222 N. Chicago Avenue
South Milwaukee
Milwaukee County, Wisconsin 53172
WDNR BRRTS Nos. 02-41-556117 & 02-41-556175

Prepared for:

WALMART, INC.
702 SW 8th Street
Bentonville, AR 72716

Prepared by:

Professional Service Industries, Inc.
821 Corporate Court
Waukesha, WI 53189
Telephone (262) 521-2125

PSI Project Number 00542644

January 9, 2023

Patrick J. Patterson, P.E., P.G.
Senior Engineer

Larry Raether, P.E.
Principal Consultant

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Professional Service Industries, Inc.
821 Corporate Court
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WDNR-Remediation and Redevelopment Program
1027 West St. Paul Avenue
Milwaukee, Wisconsin 53233

Attn: Eric Amadi
Advanced Hydrogeologist
Eric.Amadi@Wisconsin.gov

Re: Status Update Report-PFAS Groundwater Sampling-August 2022
CITY OF S. MILWAUKEE VACANT PARCEL AND MIDWEST TANNING CORP. (FMR)
222 N. Chicago Avenue
South Milwaukee, Wisconsin 53172
WDNR BRRTS No. 02-41-556117 & 02-41-556175
PSI Project Number: 00542644

Dear Mr. Amadi:

In August 2022, Professional Service Industries, Inc. (PSI), an Intertek Company, performed a groundwater sampling event on the groundwater wells associated with the above referenced City of S. Milwaukee Vacant Parcel and Midwest Tanning Corp. (Fmr) parcels (Subject Property) for Walmart, Inc. These services also included an evaluation for the potential presence of TCE contaminants on these parcels. These activities have been completed in accordance with WDNR PFAS sampling requirements. The following is a summary of the work performed, and a field data evaluation and review of the laboratory analytical results for this sampling event.

If you have any questions or comments, please call us at (262) 521-2125.

Respectfully submitted,

PROFESSIONAL SERVICE INDUSTRIES, INC.

Patrick J. Patterson, P.E., P.G.
Senior Engineer

Larry Raether, P.E.
Principal Consultant

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1.0 EXECUTIVE SUMMARY

The Subject Property consists of an approximate 9.6-acre commercial parcel located at 222 N. Chicago Avenue in the City of South Milwaukee, Wisconsin. An approximate 113,000 square foot commercial structure is situated in the western portion of the parcel. Asphalt parking areas, concrete drives and sidewalks, and isolated landscaped areas are present generally located to the north, east and west of the building. The Subject Property is currently used as Walmart Supercenter #5667 and these services were performed for Walmart, Inc.

The surrounding properties to the north, east, and south are generally occupied by commercial, manufacturing facilities and multifamily properties. An existing railroad line is present to the west of the Subject Property.

Two Phase I Environmental Site Assessments (Phase I ESA) were performed by PSI in 2010 for Walmart. One of the Phase I ESAs was completed on the eastern parking lot portion of the existing Walmart property (Subject Property), which was historically occupied by several manufacturing and commercial facilities and residences. One of the manufacturing facilities included the former Rapco Leather Company. The other Phase I ESA was completed on the western portion of the Subject Property that is currently occupied by the existing Walmart store, which was historically occupied by Midwest Tanning Corporation.

Numerous site investigation activities have been completed on the entire Walmart property from the 1990s through present day. Contamination from previous historical property usages on both parcels has been detected in both soils and groundwater. These contaminants generally consist of RCRA Metals, Polynuclear Aromatic Hydrocarbons (PAHs), Volatile Organic Compounds (VOCs), and other compounds. During the site development of the existing Walmart Store #5667, approximately 95,000 tons of impacted soils were removed from the Subject Property and disposed of at a WDNR licensed disposal facility. Residual soil contamination remains on the property within the upper 4-feet, but the residual contamination is covered with at least two feet of landscaped lawn surface, existing building pad, or asphalt parking area which addresses the direct contact exposure pathway.

In a letter issued August 17, 2020, the WDNR stated that responsible parties (RPs) are required to assess for emerging contaminants and their potential impacts on all sites that have not yet been closed. Emerging contaminants include perfluoroalkyl and polyfluoroalkyl substances (PFAS), 1,4-dioxane and other compounds. If a property is deemed a potential source of an emerging contaminants, an evaluation of potential PFAS compounds and other applicable emerging contaminants that were historically or are presently produced, used, handled, stored, or disposed at the site, per Wis. Admin. Code § NR 716.07 and Wis. Admin. Code § NR 716.09 would need to be performed.

Because of the August 17, 2020 WDNR letter and since both parcels were formerly occupied by tanning facilities or facilities that handled tanned products, a potential exists that PFAS containing materials were used, handled, stored or disposed on these parcels. As such, it was recommended that associated investigative activities be performed to evaluate the presence of PFASs within the groundwater associates with six existing wells present on the Walmart property. These wells consist of MW-1 and MW-2 that are present in the eastern portion of the Subject Property and MW-4 through MW-7 that are present in the western portion of the Subject Property. The previous well MW-3 was present on the Burger King restaurant parcel located on the northwest corner of N. Chicago Avenue and Davis Avenue, but was abandoned prior to the development of the restaurant. In review of the historical property information, no obvious evidence of the use, handling, storage

or the disposal of 1,4-dioxane or other compounds on the Subject Property was observed or apparent within the evaluated data. As such, further evaluation for the presence of 1,4-dioxane or other compounds is not warranted.

In accordance with a letter issued by the WDNR on April 6, 2021, which indicated that vaporized Trichloroethene (TCE) in indoor air is more toxic than previously understood, specifically in situations where women of child-bearing years are present, an evaluation of the potential presence of TCE contaminants was performed. The evaluation included the review of available historical property usage documents, aerial photographs, Sanborn fire insurance maps and other historical resources for the past usage of TCE. PSI also reviewed available analytical test results for TCE that are associated with previous and recent investigative activities.

In review of the available historical property use information and other collected environmental data, the previous property usage does not have the likely potential for the presence of vaporized TCE. In addition, no obvious evidence was collected that indicated that the onsite subsurface material contained vaporized TCE contaminants. Based upon the soil and groundwater analytical testing and the petroleum impacted soil remedial activities performed on the Subject Property, there is no obvious evidence that vaporized TCE is present on the Subject Property. Further, in review of the vapor analytical testing of the samples collected from subsurface vapor points, no vaporized TCE was detected in any of the collected vapor samples.

This summary is not to be used alone. The report must be read in its entirety.

2.0 INTRODUCTION AND BACKGROUND

2.1 SITE DESCRIPTION

The Subject Property consists of an approximate 9.6-acre commercial parcel located at 222 N. Chicago Avenue in the City of South Milwaukee, Wisconsin. An approximate 113,000 square foot commercial structure is situated in the western portion of the parcel. Asphalt parking areas, concrete drives and sidewalks, and isolated landscaped areas are present generally located to the north, east and west of the building. The Subject Property is currently used as Walmart Supercenter #5667. The general location of the Subject Property is shown on the Site Location Map in the Appendix.

The surrounding properties to the north, east, and south are generally occupied by commercial and manufacturing facilities and multifamily properties. An existing railroad line is present to the west of the Subject Property. A diagram showing the general site features is also included in the Appendix.

2.2 PROJECT BACKGROUND

Two Phase I Environmental Site Assessments (Phase I ESA) were performed by PSI in 2010 for Walmart. One of the Phase I ESAs was completed on the eastern parking lot portion of the existing Walmart property (Subject Property), which was historically occupied by several manufacturing and commercial facilities and residences. One of the manufacturing facilities included the former Rapco Leather Company. This portion of the Subject Property is referenced by the WDNR as "City of South Milwaukee Vacant Parcel" and assigned BRRTS No. 02-41-556175. The other Phase I ESA was completed on the western portion of the Subject Property that is currently occupied by Walmart Store #5667, which was historically occupied by Midwest Tanning Corporation. This portion of the Subject Property is referenced by the WDNR as "Midwest Tanning Corp. (Fmr)" and assigned BRRTS No. 02-41-556175.

Numerous site investigation activities have been completed on the entire Walmart property from the 1990s through present day. Contamination from previous historical property usages on both parcels have been detected in both soils and groundwater. These contaminants generally consist of RCRA Metals, Polynuclear Aromatic Hydrocarbons (PAHs), Volatile Organic Compounds (VOCs), and other compounds. During the site development of the existing Walmart Store #5667 in 2012, approximately 95,000 tons of impacted soils were removed from large areas of the Subject Property and disposed of at a WDNR licensed disposal facility. Residual soil contamination remains on the property within the upper 4-feet, but the residual contamination is covered with at least two feet of landscaped lawn surface, existing building pad, or asphalt parking area which addresses the direct contact exposure pathway.

In a letter issued August 17, 2020, the WDNR stated that responsible parties (RPs) are required to assess for emerging contaminants and their potential impacts on all sites that have not yet been closed. Emerging contaminants include perfluoroalkyl and polyfluoroalkyl substances (PFAS), 1,4-dioxane and other compounds. If a property is deemed a potential source of an emerging contaminants, an evaluation of potential PFAS compounds and other applicable emerging contaminants that were historically or are presently produced,

used, handled, stored, or disposed at the site, per Wis. Admin. Code § NR 716.07 and Wis. Admin. Code § NR 716.09 would need to be performed.

Because of the August 17, 2020 WDNR letter and since both parcels were formerly occupied by tanning facilities or facilities that handled tanned products, a potential exists that PFAS containing materials were used, handled, stored or disposed on these parcels. As such, it was recommended that associated investigative activities be performed to evaluate the presence of PFASs within the groundwater associates with six existing wells present on the Walmart property. These wells consist of MW-1 and MW-2 that are present in the eastern portion of the Subject Property and MW-4 through MW-7 that are present in the western portion of the Subject Property. The previous well MW-3 was present on the Burger King restaurant parcel located on the northwest corner of N. Chicago Avenue and Davis Avenue, but was abandoned prior to the development of the restaurant.

In review of the historical property information, no obvious evidence of the use, handling, storage or the disposal of 1,4-dioxane or other compounds on the Subject Property was observed or apparent within the evaluated data. As such, further evaluation for the presence of 1,4-dioxane or other compounds is not warranted.

A Site Investigation Workplan, dated July 29, 2022, was prepared in accordance with WDNR requirements and submitted to the WDNR for inclusion into their files on August 12, 2022. The WDNR subsequently contacted PSI to briefly discuss the SIWP. They indicated that they concur that groundwater sampling for the presence of PFAS should occur, but they indicated that additional site investigative activities may be required in the future to complete the site investigation of the Subject Property.

In accordance with a letter issued by the WDNR on April 6, 2021, which indicated that vaporized Trichloroethene (TCE) in indoor air is more toxic than previously understood, specifically in situations where women of child-bearing years are present, an evaluation of the potential presence of TCE contaminants was performed. The evaluation included the review of available historical property usage documents, aerial photographs, Sanborn fire insurance maps and other historical resources for the past usage of TCE. PSI also reviewed available analytical test results for TCE that are associated with previous and recent investigative activities.

Because of the emerging contaminant requirements and based upon the historical usage of the Subject Property as tanning facilities, groundwater sampling activities for the presence of PFASs were completed in August 2022 for Walmart, Inc. and are discussed in the following paragraphs.

2.3 PURPOSE

The purpose of this report is to present the groundwater conditions encountered during the August 2022 groundwater sampling event of five of the existing six groundwater wells, and laboratory test results of submitted groundwater samples. The laboratory analyses included testing for the presence of PFASs/PFOSs. One of the groundwater monitoring wells was dry at the time of the sampling event and not sampled. Groundwater elevations were not obtained during these recent activities since the long-term groundwater flow direction as been previously determined.

The activities were not intended to be an all-inclusive search for hazardous substances, and do not necessarily preclude the presence of other compounds or contaminants in this or other areas of the Subject Property. These environmental services also included the evaluation of the historical property usage and a review of historical analytical test results for the potential use of Trichloroethene (TCE) on the Subject Property or the evidence of the presence of high concentrations of TCE within previously collected soil, groundwater and soil vapor samples from historical investigative activities.

3.0 GROUNDWATER INVESTIGATIVE ACTIVITIES

3.1 SCOPE SUMMARY

The scope of services described in this report included the purging of five wells, the collection and laboratory testing of groundwater samples from MW-1 and MW-4 through MW-7 on August 19, 2022, and an evaluation of the data obtained. MW-2 was dry at the time of the August 2022 sampling event. The groundwater samples were submitted for analysis for the presence of PFASs/PFOSs. A well location diagram is included in the Appendix.

3.2 PREVIOUS FIELD EXPLORATION

Site investigative activities have been performed within the area of the Subject Property from the early 1990s through about 2014. This data was subsequently submitted to the WDNR for their review and comment in several documents and WDNR forms. Two separate Wisconsin Department of Natural Resources' (WDNR) Bureau of Remediation and Redevelopment Tracking (BRRTS) cases were created for the Subject Property. They consisted of the Former Midwest Tanning Corporation Parcel (BRRTS No. 02-41-556117) with a former address of 1200 Davis Avenue and is situated in the western portion of the site, and the City of South Milwaukee Vacant Parcel (BRRTS No. 02-41-556175), which is situated in the eastern portion of the site. Both sites have been investigated from the 1990s through 2014. In addition, remedial actions have been performed on the Subject Property prior to and during the existing site development of the Walmart Store in 2012.

Following the past investigative and remedial activities, PSI submitted case closure requests to the WDNR for the Former Midwest Tanning Corporation parcel in 2016 and for the City of South Milwaukee Vacant Parcel in 2018. In the Midwest Tanning Corp case, the WDNR requested that additional investigation be performed around a previous soil boring completed by another consultant with high levels of Chromium to further evaluate for the presence of Hexavalent Chromium, Trivalent Chromium and Total Chromium in soil and groundwater and also to evaluate for the presence of Cyanide in soil. In the City of South Milwaukee Vacant Parcel case, the WDNR requested revisions be completed for the submitted case closure document and an evaluation of potential for vapor intrusion along migration pathways pertaining to requirements expressed in the WDNR document RR-800 "Addressing Vapor intrusion".

PSI completed additional site investigation activities on both BRRTS cases associated with the Subject Property in January and February 2021. These services included the installation of five soil vapor points, the installation of a sample port on a vent stack pipe associated with an existing subsurface passive venting system, sampling collected soil vapor samples for Petroleum Volatile Organic Compounds (PVOCs) and Naphthalene, monitoring for Methane and volatile vapors on the City of South Milwaukee Parcel (BRRTS No. 02-41-556175), the

installation of a NR141-compliant groundwater well, soil and groundwater collection and testing for the presence of Chromium, Hexavalent Chromium, Trivalent Chromium, and Cyanide on the former Midwest Tanning Corp. Parcel (BRRTS No. 02-41-556117).

The results of the additional site investigation activities performed on the City of South Milwaukee Parcel indicated that no PVOCs and Naphthalene vapors were detected within the five soil vapor points or the existing vent stack that exceed current WDNR Vapor Risk Screening Levels. In addition, no Methane was detected at levels that would be considered as explosive levels. Further, no other volatile vapors were detected utilizing a Photoionization Detector.

The results of the additional site investigation activities performed on the Former Midwest Tanning Corp. Parcel indicated that no Dissolved Chromium, Hexavalent Chromium, Trivalent Chromium, and Cyanide were detected above the laboratory limit of detection (LOD) within the groundwater sample collected from the newly installed well (MW-7). In addition, no Hexavalent Chromium and Cyanide were detected above the laboratory LOD in the soil sample and the detected Total Chromium and the calculated Trivalent Chromium levels are below the current NR720 BTV for Chromium.

3.3 QUALITY ASSURANCE/QUALITY CONTROL MEASURES

All equipment decontamination, sample collection, sample custody records, and analysis were performed in general accordance with methods prescribed by the United States EPA and the WDNR for the sampling of PFASs/PFOSs in groundwater. Single-use disposable Nitrile™ gloves and PFAS-free disposable bailers were used for each well attempting to eliminate cross-contamination between sampling locations. Samples were placed in laboratory supplied containers and canisters. All samples were placed in a cooler packed with ice and transported under chain-of-custody to Pace Analytical Services, LLC. (Pace) in Green Bay, Wisconsin for chemical analysis.

3.4 LABORATORY ANALYSIS

Based upon the August 17, 2020 WDNR letter, groundwater samples collected on August 19, 2022 from the five specific wells were submitted for analytical testing for the presence of specific WDNR PFAS/PFOS. As previously mentioned, MW-2 was dry at the time of the August 2022 sampling event. These samples were placed into PFAS-free, laboratory provided plastic containers. The samples were placed on ice, chain of custody procedures initiated, and the samples were submitted to Pace Analytical. The analytical report and chain of custody form are included in the Appendix.

3.5 TRICHLOROETHENE INTRUSION RISK EVALUATION RESULTS

In accordance with a letter issued by the WDNR on April 6, 2021, which indicated that vaporized Trichloroethene (TCE) in indoor air is more toxic than previously understood, specifically in situations where women of child-bearing years are present, an evaluation of the potential presence of TCE contaminants and potential migration pathways was performed. The evaluation included the review of available historical property usage documents, aerial photographs, Sanborn fire insurance maps and other historical resources for the past usage of TCE. PSI also reviewed available analytical test results for the presence of TCE that are associated with previous and recent investigative activities. Copies of these historical soil and groundwater test result tables are included in the Appendix.

In review of the available historical property use information and other collected environmental data, the previous property usage does not have the likely potential for the presence of vaporized TCE. In addition, no obvious evidence was collected that indicated that the fill material or the nature soils contained vaporized TCE contaminants.

4.0 DATA ANALYSIS AND INTERPRETATION

4.1 FIELD AND LABORATORY DATA ANALYSIS

Analysis and interpretation of the groundwater data generated during the sampling events is presented in the following sections. Where appropriate, the results are compared with regulatory limits for the chemicals identified in the applicable media. Copies of the laboratory analytical reports and chain-of-custody documentation are provided in the Appendix.

4.2 GROUNDWATER QUALITY STANDARDS

The Enforcement Standards (ESs) and Preventive Action Limits (PALs) are Groundwater Quality Standards for several Per- and Polyfluoroalkyl Substances (PFAS) which have been recommended by the Department of Health Services to be included in NR140 of the Wisconsin Administrative Code. The WDNR is in the process of evaluating the recommended standards for inclusion into the NR140 standard table. The DHS recommends a combined ES of 20 ng/L and combined PAL of 2 ng/L for FOSA, NEtFOSE, NEtFOSA, NEtFOSAA, PFOS, and PFOA. These recommended standards are referenced when evaluating the need for further study or remedial activities. The PAL is the more stringent guideline, in terms of being lesser in magnitude than the ES but will typically require less response action when exceeded. The required action is determined by WDNR regulations, based on various site-specific considerations.

4.3 LABORATORY GROUNDWATER RESULTS

The August 2022 groundwater test results indicated the presence of several PFAS/PFOS in the collected samples from the wells. However, concentrations of only four PFASs were above current DHS-recommended NR 140 standards. Perfluorooctanesulfonic acid (PFOS) was detected in the water samples collected from MW-1, MW-4, MW-5, and MW-7 at levels of 28 nanograms per liter (ng/l), 64 ng/l, 940D ng/l, and 48I ng/l, respectively, which are above their recommended NR140 ES of 20 ng/l. Perfluorooctanoic acid (PFOA) was detected in the water samples collected from MW-4, MW-5, and MW-7 at levels of 100 nanograms per liter (ng/l), 180 ng/l, and 120 ng/l, respectively, which are above their recommended NR140 ES of 20 ng/l and a level of 2.2 ng/l detected in the water sample from MW-6, which is above its recommended NR140 PAL of 2.0 ng/l. Perfluorohexanesulfonic acid (PFHxS) was detected in the water samples collected from MW-5, and MW-7 at levels of 92 ng/l and 43 ng/l, respectively, which are above their recommended NR140 ES of 40 ng/l and a level of 28 ng/l detected in the water sample from MW-4, which is above its recommended NR140 PAL of 4.0 ng/l. Perfluorononanoic acid (PFNA) was detected in the water sample collected from MW-5 at a level of 3.9 ng/l, which is above its recommended NR140 PAL of 3.0 ng/l, but below its recommended NR140 ES of 30 ng/l. Other PFASs were detected but were at concentrations below recommended NR140 groundwater quality standards or no NR140 standards have been recommended.

The results of the laboratory analyses of the collected water samples and their respective DHS-recommended NR140 standards are summarized on the groundwater analytical table included in the Appendix. The analytical laboratory test report and chain of custody form are included in the Appendix.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based upon the historical property uses, no obvious evidence of the widespread use of TCE on the Subject Property was apparent. In review of the historical soil and groundwater analytical testing and the soil remedial activities performed on the Subject Property to date, TCE was not detected in any of the submitted soil or groundwater samples collected from the property occupied by the existing Walmart Store #5667. As such, there is no evidence that vaporized TCE is present on the Subject Property and is not a concern and additional investigative activities associated with TCE is not warranted.

Based upon the historical remedial actions performed during the 2012 site development, the placement of an engineered cap/barrier that covers the entire Subject Property with at least a two-foot layer of imported soil fill or concrete/asphalt pavement, and the current property use, investigative activities for evaluating the subsurface soils for the presence of PFASs is not warranted.

Based upon the analytical test results of the recent groundwater sampling event which indicated the presence of PFASs, it is recommended that at least one additional groundwater sampling event be performed on the existing wells to further evaluate the presence of the PFAS-impacted groundwater contamination.

The recommended additional groundwater sampling event of the above-mentioned wells should be completed in February 2023.

6.0 REPRESENTATIONS

6.1 WARRANTY

The field observations, measurements, and research reported herein are considered sufficient in detail and scope to form a reasonable basis for the work performed at this site. The assessment, conclusions, and recommendations presented herein are based upon the subjective evaluation of limited data. They may not represent all conditions at the Subject Property as they reflect the information gathered from specific locations. PSI warrants that the findings and conclusions contained herein have been promulgated in accordance with generally accepted environmental investigation methodology and only for the site described in this report.

The soil and groundwater investigation of this site has been developed to provide the client with information regarding apparent indications of environmental concerns relating to the Subject Property. It is necessarily limited to the conditions observed and to the information available at the time of the work.

Due to the limited nature of the work, there is a possibility that there may exist conditions which could not be identified within the scope of the assessment or which were not apparent at the time of report preparation. It is also possible that the testing methods employed at the time of the report may later be superseded by other methods. The description, type, and composition of what are commonly referred to as "hazardous materials or

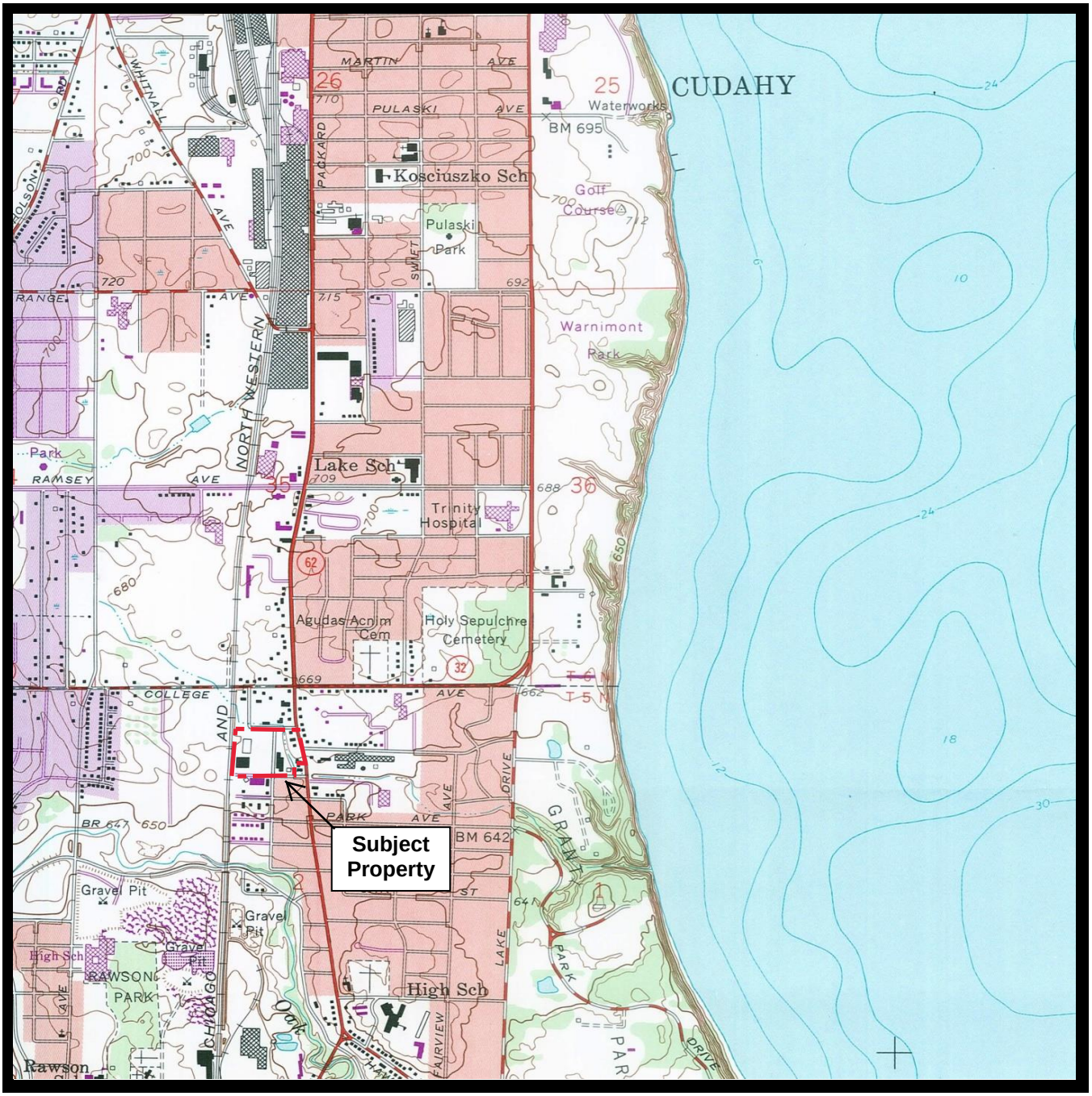
conditions" can also change over time. PSI does not accept responsibility for changes in the state of the art, nor for changes in the scope of various lists of hazardous materials or conditions. PSI believes that the findings and conclusions provided in this report are reasonable.

6.2 THIRD PARTY USE

This report was prepared pursuant to the contract PSI has with Walmart, Inc. Because of the importance of the communication between PSI and its client, reliance or any use of this report by anyone other than Walmart, Inc.; and their respective successors, assigns, affiliates and subsidiaries, under the same conditions as if it had been prepared for them, is prohibited and therefore not foreseeable to PSI.

Reliance or use by any such third party without explicit authorization in the report does not make said third party a third-party beneficiary to PSI's contract with Walmart, Inc. Any such unauthorized reliance on or use of this report, including any of its information or conclusions, will be at third party's risk. For the same reasons, no warranties or representations, expressed or implied in this report, are made to any such third party.

APPENDIX



Source: United States Geological Survey, South Milwaukee, Wisconsin, 7.5-Minute Topographic Maps, 1958, photorevised 1971, photoinspected 1976

N

SCALE 1:24,000
APPROXIMATE SCALE

0 1 2

0 1000 2000 3000 4000 5000 6000 7000 8000 FEET

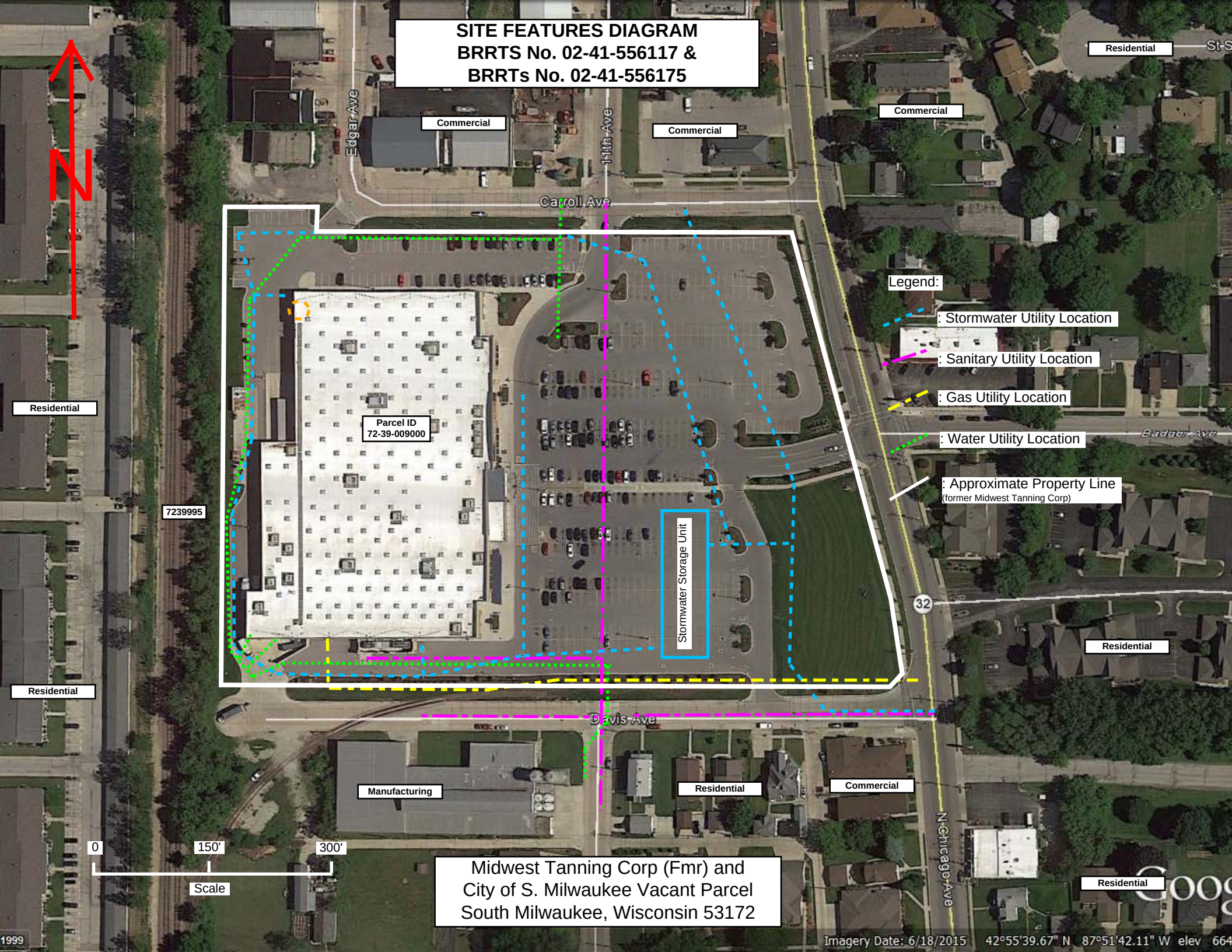
0 1 2 KILOMETERS

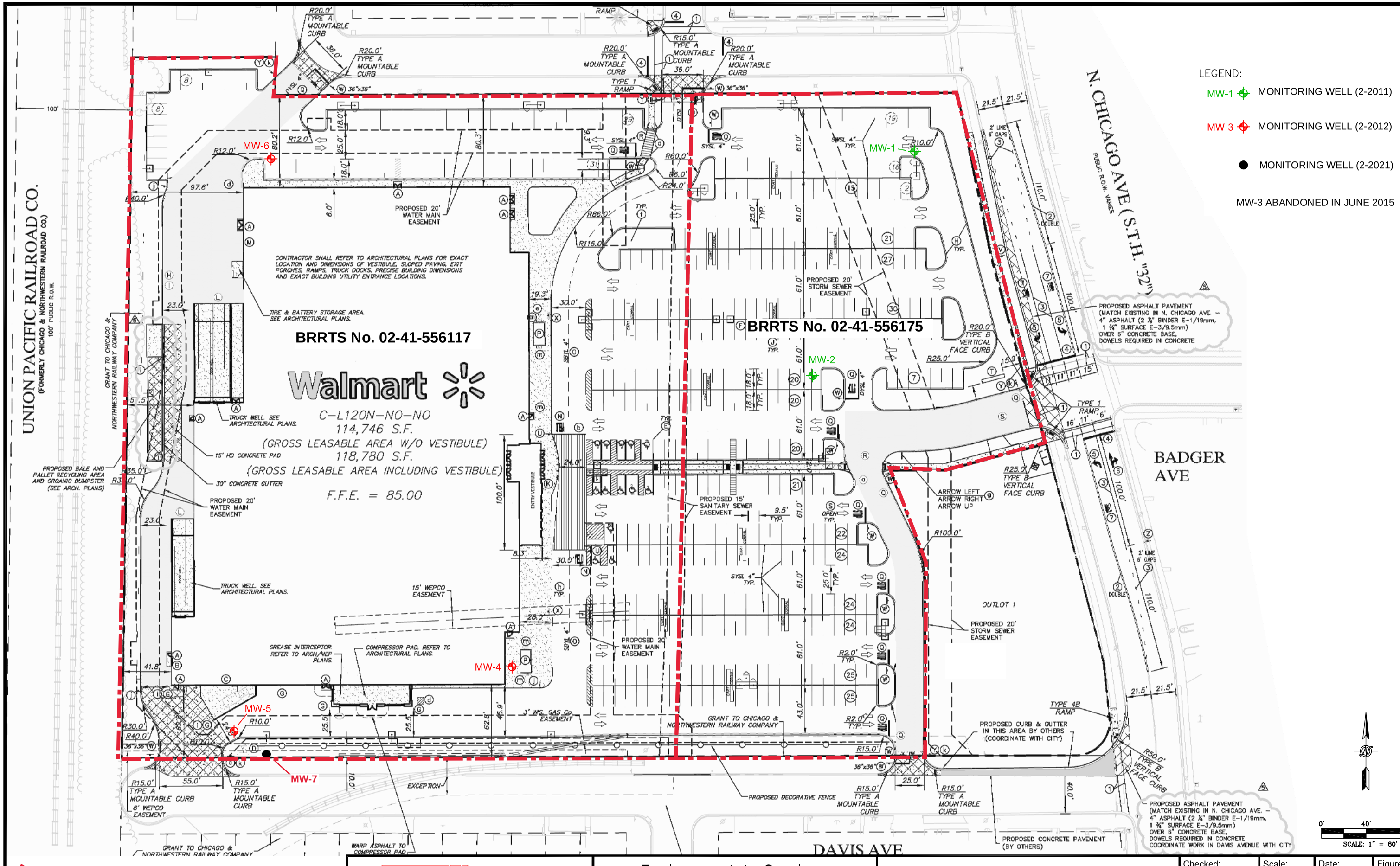
CONTOUR INTERVAL 10 FEET

Northeast 1/4 of the Northwest 1/4, Section 2, Township 5 North, Range 22 East

BRRTS No. 02-41-556117 & 02-41-556175

psi Information To Build On Engineering • Consulting • Testing	Environmental Services 821 Corporate Court Waukesha, Wisconsin 53189 (262) 347-0898 Fax (262) 521-2471	Wal-Mart Store #5667-00 222 N Chicago Ave, South Milwaukee Milwaukee County, Wisconsin 53172 **Site Location Map**	DATE: 10/27/2022 **Figure 1**	PROJECT NO: 00542644


SITE FEATURES DIAGRAM
BRRTS No. 02-41-556117 &
BRRTs No. 02-41-556175
N
Edgar Ave
11th Ave
Carroll Ave
Commercial
Commercial
Commercial
Residential
Residential
Residential
Residential
Residential
Residential
Residential
Parcel ID
72-39-009000
7239995
Stormwater Storage Unit
Legend:
: Stormwater Utility Location
: Sanitary Utility Location
: Gas Utility Location
: Water Utility Location
: Approximate Property Line
(former Midwest Tanning Corp)
Badger Ave
32
Davis Ave
Manufacturing
Residential
Commercial
N Chicago Ave
0
150'
300'
Scale
Midwest Tanning Corp (Fmr) and
City of S. Milwaukee Vacant Parcel
South Milwaukee, Wisconsin 53172
1999
Imagery Date: 6/18/2015 42°55'39.67" N 87°51'42.11" W elev 664



BRRTS Case Boundary Lines

ALL LOCATIONS ARE APPROXIMATE

psi *Information To Build On*
Engineering • Consulting • Testing

Environmental Services

EXISTING MONITORING WELL LOCATION DIAGRAM

Wal-Mart Superstore # 5667
222 N. Chicago Avenue, City of South Milwaukee
Milwaukee County, Wisconsin 53172

Checked:	Scale:	Date:	Figure:
	1" = 80'	10-27-2022	1

Drawn:	Project Number:
C. Moran 0054357-1 prop well locs.dwg	00542644

Groundwater Analytical Results Table

City of S. Milwaukee Vacant Parcel and Midwest Tanning Corp. (FMR)
222 N. Chicago Avenue
South Milwaukee, Wisconsin 53172
PSI Project No. 00542644

BRRTS No. 02-41-556175 & 02-41-556117

Analytical Par	Location / Date / Units	MW-1 8/19/22	MW-4 8/19/22	MW-5 8/19/22	MW-6 8/19/22	MW-7 8/19/22	Recommended NR140 ES	Recommended NR140 PAL
Detected PFAS/PFOS								
PFBA	ng/l	6.6	16	14	5.2	18	**10,000**	*2,000*
PFPeA	ng/l	3.2	15	11	2.9	18	**---**	---
PFBS	ng/l	0.64J	18	20	2.4	23	**450,000**	*90,000*
PFHxA	ng/l	<0.89	35	24	3.1	45	**150,000**	*30,000*
PFPeS	ng/l	<0.59	12	24	<0.6	17	**---**	---
PFHpA	ng/l	<0.68	17	22	1.3J	24	**---**	---
PFHxS	ng/l	<0.52	*28*	**92**	<0.53	**43**	**40**	*4*
PFOA	ng/l	1.1J	**100**	**180**	*2.2*	**120**	**a**	*a*
6:2 FTS	ng/l	<0.66	0.95J	<0.65	<0.67	<0.7	**---**	---
PFHpS	ng/l	<0.65	3.2	25	<0.66	7.5	**---**	---
PFNA	ng/l	<0.78	1.1J	*3.9*	<0.79	1.5J	**30**	*3*
PFOSAm	ng/l	<0.56	4.3	46	<0.71	<0.74	**---**	---
PFOS	ng/l	**28**	**64**	**940D**	<0.66	**48I**	**a**	*a*
MePOSA	ng/l	<0.54	0.79J	<0.53	<0.55	<0.57	**---**	---
PFDA	ng/l	<0.6	<0.6	0.96J	<0.6	<0.63	**300**	*60*
NMeFOSAA	ng/l	<0.68	78	17	<0.69	<0.72	**---**	---
NEtFOSAA	ng/l	1.3J	**17**	**8**	<0.81	<0.84	**a**	*a*

Notes:

Bold concentrations exceed DHS Recommended NR 140 Enforcement Standards (ESs)

Italicized/underlined concentrations exceed DHS Recommended NR 140 Preventive Action Limits (PALs)

--- - Not analyzed/Not Established

ng/l -nanograms per liter

a - DHS recommends a combined ES of 20 ng/L and combined PAL of 2 ng/L for FOSA, NEtFOSE, NEtFOSA, NEtFOSAA, PFOS, and PFOA

D - result obtained from analysis of diluted sample

I - isotope ratio out of specification

J - laboratory estimated concentration detected between the laboratory Limit of Detection and the Limit of Quantitation

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

October 04, 2022

Patrick Patterson
PSI
821 Corporate Ct.
Suite 102
Waukesha, WI 53189

RE: Project: 00542644-WALMART
Pace Project No.: 40250233

Dear Patrick Patterson:

Enclosed are the analytical results for sample(s) received by the laboratory on August 23, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

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

Sincerely,

Angela Lane
angela.lane@pacelabs.com
(920)469-2436
Project Manager

Enclosures

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 00542644-WALMART
Pace Project No.: 40250233

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40250233001	**MW-1**	Water	08/19/22 11:20	08/23/22 08:10
40250233002	**MW-4**	Water	08/19/22 11:45	08/23/22 08:10
40250233003	**MW-5**	Water	08/19/22 12:05	08/23/22 08:10
40250233004	**MW-6**	Water	08/19/22 12:20	08/23/22 08:10
40250233005	**MW-7**	Water	08/19/22 12:30	08/23/22 08:10
40250233006	**FIELD BLANK**	Water	08/19/22 12:00	08/23/22 08:10

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PROJECT NARRATIVE

Project:
Pace Project No.:

Method:
Description:
Client:
Date:

This data package has been reviewed for quality and completeness and is approved for release.

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here: 40250233

ALL SHADED AREAS are for LAB USE ONLY

Company: PSI, Inc	Billing Information: Same
Address: 821 Corporate Ct, Waukesha	
Report To: Pat Patterson	Email To:
Copy To:	Site Collection Info/Address: South Milwaukee
Customer Project Name/Number: 00542644 - Walmart	State: WI County/City: Time Zone Collected: [ ]PT [ ]MT [ ]CT [ ]ET
Phone: 262-521-2125 Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Kay Herpel	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature): Kay Herpel	Turnaround Date Required: Immediately Packed on Ice: [ ] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

Container Preservative Type **: U

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: PFAS	Lab Profile/Line
MW-1	GW		8/19	1120				2	X	001
MW-2 - Dry				—						
MW-4				1145				2	X	002
MW-5				1205				2	X	003
MW-6				1220				2	X	004
MW-7	V			1230				2	X	005
Field Blank	OT		V	1200				2	X	006

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips:			
Sample pH Acceptable	Y	N	NA
pH Strips:			
Sulfide Present	Y	N	NA
Lead Acetate Strips:			

LAB USE ONLY:
Lab Sample # / Comments:

SEE SCVR VP 8/23/22

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2824987

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#:
Cooler 1 Temp Upon Receipt: +0 oC
Cooler 1 Therm Corr. Factor: oC
Cooler 1 Corrected Temp: oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Kay Herpel / PSI	8/22/22		
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
CS Logistics	8/23/22 0810	Thuy A Pro	8/23/22 0810
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Sample Preservation Receipt Form

Client Name: PSI

Project # 40250233

All containers needing preservation have been checked and noted below: ☐Yes ☐No ☑N/A

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):

Initial when completed:

Date/ Time:

Pace Lab #	Glass: AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	Plastic: BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	Vials: VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	JG9U	WGFU	WPFU	General: SP5T	ZPLC	GN 1	GN 2	VOA Vials (>6mm)*	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001									2																									2.5 / 5
002									2																									2.5 / 5
003									2																									2.5 / 5
004									2																									2.5 / 5
005									2																									2.5 / 5
006									2																									2.5 / 5
007																																		2.5 / 5
008																																		2.5 / 5
009																																		2.5 / 5
010																																		2.5 / 5
011																																		2.5 / 5
012																																		2.5 / 5
013																																		2.5 / 5
014																																		2.5 / 5
015																																		2.5 / 5
016																																		2.5 / 5
017																																		2.5 / 5
018																																		2.5 / 5
019																																		2.5 / 5
020																																		2.5 / 5

JP 8/23/22

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:

Headspace in VOA Vials (>6mm): ☐Yes ☐No ☑N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

Page 1 of 2

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40250233

40250233

Client Name: PSI

Courier: ☑ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco
☐ Client ☐ Pace Other: _____

Tracking #: —

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used SR - 118 **Type of Ice:** (Wet) Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: 5 /Corr: 5.5

Temp Blank Present: ☑ yes ☐ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:
Date: 8/23/22 /Initials: TP

Labeled By Initials: NK

Chain of Custody Present:	☑Yes ☐No ☐N/A	1. +2CC TP 8/23/22
Chain of Custody Filled Out:	☐Yes ☑No ☐N/A	2. PO# TP 8/23/22
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- DI VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD: ☐Yes ☑No ☐N/A		8.
Correct Containers Used:	☑Yes ☐No	9.
Correct Type: Pace Green Bay, Pace IR, Non-Pace		
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☐Yes ☑No ☐N/A	12. no times TP 8/23/22
Trip Blank Present:	☐Yes ☐No ☑N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, LLC.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Report Prepared for:

Angela Lane
PACE Wisconsin
1241 Bellevue Street
Green Bay WI 54302

REPORT OF LABORATORY ANALYSIS FOR PFAAs

Report Information:

Pace Project #: 10622794
Sample Receipt Date: 08/24/2022
Client Project #: 40250233 PSI Waukesha
Client Sub PO #: N/A
State Cert #: 999407970

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PFAA Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Scott Unze, your Pace Project Manager.

This report has been reviewed by:

September 30, 2022

Kirsten Hogberg, Project Manager
(612) 607-6407
(612) 607-6444 (fax)
kirsten.hogberg@pacelabs.com

Report Prepared Date:
September 30, 2022

Report of Laboratory Analysis

DISCUSSION

This report presents the results from the analyses performed on six samples submitted by a representative of Pace Wisconsin. The samples were analyzed for thirty-three perfluorinated compounds using Wisconsin DNR guidance for PFAS. Reporting limits were set to MDL levels.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank was free of the target perfluorinated compounds at the reporting limits. This indicates that the sample processing procedures did not significantly contribute to the analyte content determined for the sample material.

Laboratory spike samples were also prepared with the sample batch using clean reference matrix that had been fortified with native standards. The recovery results were within the method limits. The RPDs (relative percent differences) between one designated spike and its duplicate were within the method limits. These spikes indicate that extraction performed as expected. A matrix spike was prepared with the sample batch using sample material from a separate project; results from that analysis will be provided upon request.

Diminished/elevated extracted internal standard (EIS) recovery ("R" flagged) were present in samples, however, the use of the isotope dilution method generally precludes any adverse impact on those individual native compounds that have a directly associated standard.

Several samples have elevated EIS recoveries ("R" flagged) for FTS. While the use of the isotope dilution method generally precludes any adverse impact on those individual native compounds that have a directly associated standard, in the case of the FTS compounds, the recoveries are anomalously high, and are adversely impacted by matrix. The results for these native compounds should be considered estimated.

Sample "MW-6" has recoveries less than 1% for selected EIS. The results for these native compounds should be considered estimated.

The four injection internal standards (13C4 PFOA, 13C4 PFOS, 13C2_PFDA, and 13C2_PFHxA) pass for each analysis in the batch verifying that the instrument detector is working as expected.

Results for selected analytes were taken from secondary dilutions of the sample extracts in order to bring the results within the calibration range. The affected values

DISCUSSION

were flagged "D" on the results tables.

Values were flagged "I" where incorrect isotope ratios were obtained. Results that were below the calibration range were flagged "J".

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
		Mississippi	MN00064
		Missouri	10100
A2LA	2926.01	Montana	CERT0092
Alabama	40770	Nebraska	NE-OS-18-06
Alaska-DW	MN00064	Nevada	MN00064
Alaska-UST	17-009	New Hampshire	2081
Arizona	AZ0014	New Jersey	MN002
Arkansas - WW	88-0680	New York	11647
Arkansas-DW	MN00064	North Carolina-	27700
California	2929	North Carolina-	530
Colorado	MN00064	North Dakota	R-036
Connecticut	PH-0256	Ohio-DW	41244
Florida	E87605	Ohio-VAP (170	CL101
Georgia	959	Ohio-VAP (180	CL110
Hawaii	MN00064	Oklahoma	9507
Idaho	MN00064	Oregon- rimary	MN300001
Illinois	200011	Oregon-Second	MN200001
Indiana	C-MN-01	Pennsylvania	68-00563
Iowa	368	Puerto Rico	MN00064
Kansas	E-10167	South Carolina	74003
Kentucky-DW	90062	Tennessee	TN02818
Kentucky-WW	90062	Texas	T104704192
Louisiana-DEQ	AI-84596	Utah	MN00064
Louisiana-DW	MN00064	Vermont	VT-027053137
Maine	MN00064	Virginia	460163
Maryland	322	Washington	C486
Michigan	9909	West Virginia-D	382
Minnesota	027-053-137	West Virginia-D	9952C
Minnesota-Ag	via MN 027-053	Wisconsin	999407970
Minnesota-Petr	1240	Wyoming-UST	via A2LA 2926.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Appendix A

Sample Management

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Sample ID Cross Reference

Client Sample ID	Pace Sample ID	Date Received	Sample Type
MW-1	40250233001	08/24/2022	Water
MW-4	40250233002	08/24/2022	Water
MW-5	40250233003	08/24/2022	Water
MW-6	40250233004	08/24/2022	Water
MW-7	40250233005	08/24/2022	Water
FIELD BLANK	40250233006	08/24/2022	Water

REPORT OF LABORATORY ANALYSIS

Internal Transfer Chain of Custody

WO# : 10622794

10622794

[X] Samples Pre-Logged into eCOC.

State Of Origin: WI

Cert. Needed: [X] Yes [ ] No

Workorder: 40250233 **Workorder Name:** 00542644-WALMART

Owner Received Date: 8/23/2022 Results Requested By: 9/22/2022

Report To	Subcontract To
Angela Lane Pace Analytical Green Bay 1241 Bellevue Street Suite 9 Green Bay, WI 54302 Phone (920)469-2436	Pace Analytical Minnesota 1700 Elm Street SE Suite 200 Minneapolis, MN 55414 Phone (612)607-1700

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Requested Analysis: WI PFAS=Groundwater	LAB USE ONLY
1	MW-1	PS	8/19/2022 11:20	40250233001	Water	2	X	001
2	MW-4	PS	8/19/2022 11:45	40250233002	Water	2	X	002
3	MW-5	PS	8/19/2022 12:05	40250233003	Water	2	X	003
4	MW-6	PS	8/19/2022 12:20	40250233004	Water	2	X	004
5	MW-7	PS	8/19/2022 12:30	40250233005	Water	2	X	005
6	FIELD BLANK	PS	8/19/2022 12:00	40250233006	Water	2	X	006

Transfers	Released By	Date/Time	Received By	Date/Time
1	Pace	8/23/22 16:18	Pace	8/24/22 13:40
2				
3				

Comments:

Cooler Temperature on Receipt 2.5 °C | Custody Seal (Y) or N | Received on Ice (Y) or N | Samples Intact (Y) or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.*

Sample Condition Upon Receipt

Client Name: Pace Green Bay

Project #: **WO#: 10622794**

PM: SCU **Due Date: 09/22/22**

CLIENT: PASI-WI

Courier: ☐ FedEx ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ SpeeDee ☑ Commercial

Tracking Number: 371349-3 ☐ See Exceptions ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No **Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other **Temp Blank?** ☑ Yes ☐ No

Thermometer: ☐ T1 (0461) ☐ T2 (1336) ☑ T3 (0459) ☐ T4 (0254) ☐ T5 (0178) ☐ 01339252/1710 **Type of Ice:** ☑ Wet ☐ Blue ☐ Dry ☐ None ☐ Melted

Did Samples Originate in West Virginia? ☐ Yes ☑ No **Were All Container Temps Taken?** ☐ Yes ☐ No ☑ N/A

Temp should be above freezing to 6 °C **Cooler temp Read w/Temp Blank:** 2.5 °C

Correction Factor: true **Cooler Temp Corrected w/temp blank:** 2.5 °C

Average Corrected Temp (no temp blank only): ____ °C ☐ See Exceptions ENV-FRM-MIN4-0142 ☐ 1 Container

JSDA Regulated Soil: (☑ N/A, water sample/other: ____) **Date/Initials of Person Examining Contents:** 8/24/22 ADC2

Did samples originate in a quarantine zone within the United States: AL, AR, AZ CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

Location (Check one): ☐ Duluth ☑ Minneapolis ☐ Virginia				**COMMENTS**
Chain of Custody Present and Filled Out?	☑ Yes	☐ No		1.
Chain of Custody Relinquished?	☑ Yes	☐ No		2.
Sampler Name and/or Signature on COC?	☐ Yes	☑ No	☐ N/A	3.
Samples Arrived within Hold Time?	☑ Yes	☐ No		4. If fecal: ☐ <8 hrs ☐ >8 hr, <24 ☐ No
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No		5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E.coli ☐ BOD/cBOD ☐ Hex Chrom ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other
Rush Turn Around Time Requested?	☐ Yes	☑ No		6.
Sufficient Sample Volume?	☑ Yes	☐ No		7.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	8.
-Pace Containers Used?	☑ Yes	☐ No		
Containers Intact?	☑ Yes	☐ No		9.
Field Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC? Matrix: ☑ Water ☐ Soil ☐ Oil ☐ Other	☑ Yes	☐ No		11. **If no, write ID/Date/Time of container below:** ☐ See Exceptions ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☑ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO3, H2SO4, <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide)	☐ Yes	☐ No	☑ N/A	☐ NaOH ☐ HNO3 ☐ H2SO4 ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxins/PFAS (*If adding preservative to a container, it must be added to associated field and equipment blanks--verify with PM first.)	☐ Yes	☐ No	☑ N/A	Positive for Residual Chlorine? ☐ Yes ☐ No ☐ See Exceptions ENV-FRM-MIN4-0142
				pH Paper Lot #
				Residual Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip
Headspace in Methyl Mercury Container?	☐ Yes	☐ No	☑ N/A	13.
Extra labels present on soil VOA or WIDRO containers?	☐ Yes	☐ No	☑ N/A	14. ☐ See Exceptions ENV-FRM-MIN4-0142
Headspace in VOA Vials (greater than 6mm)?	☐ Yes	☐ No	☑ N/A	
3 Trip Blanks Present?	☐ Yes	☐ No	☑ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	Pace Trip Blank Lot # (if purchased): ____

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: ____ Date/Time: ____

Comments/Resolution: ____

Project Manager Review: Sara C. Mays **Date:** 08/25/22

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

Report No: 1062270_R336_DER

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here: 40250233

ALL SHADED AREAS are for LAB USE ONLY

Company: PSI, Inc	Billing Information: Same
Address: 821 Corporate Ct, Waukesha	
Report To: Pat Patterson	Email To:
Copy To:	Site Collection Info/Address: South Milwaukee
Customer Project Name/Number: 00542644 - Walmart	State: WI County/City: Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
Phone: 262-521-2125 Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Kay Herpel	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature): Kay Herpel	Turnaround Date Required: Immediately Packed on Ice: [ ] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)
	Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

Container Preservative Type **: U

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses: PFAS

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips:	
Sample pH Acceptable	Y N NA
pH Strips:	
Sulfide Present	Y N NA
Lead Acetate Strips:	

LAB USE ONLY: Lab Sample # / Comments:

0 See SCW TP 8/23/22

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Lab Sample # / Comments
MW-1	GW		8/19	1120				2	001
MW-2 - Dry				—					
MW-4				1145				2	002
MW-5				1205				2	003
MW-6				1220				2	004
MW-7				1230				2	005
Field Blank	OT			1200				2	006

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2824987

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#:

Cooler 1 Temp Upon Receipt: 0 oC

Cooler 1 Therm Corr. Factor: 0 oC

Cooler 1 Corrected Temp: _____oC

Comments:

Relinquished by/Company: (Signature) Kay Herpel / PSI	Date/Time: 8/22/22	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature) CS Logistics	Date/Time: 8/23/22 0810	Received by/Company: (Signature)	Date/Time: 8/23/22 0810
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY

Table #:

Acctnum:

Template:

Prelogin:

PM:

PB:

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: _____ of: _____

Sample Preservation Receipt Form

Client Name: PSI

Project # 40250233

All containers needing preservation have been checked and noted below: ☐Yes ☐No ☒N/A

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass: AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	Plastic: BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	Vials: VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	JG9U	WGFU	WPFU	General: SP5T	ZPLC	GN 1	GN 2	VOA Vials (>6mm) *	Initial when completed: H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	Date/Time: pH after adjusted	Volume (mL)
001									2																									2.5 / 5
002									2																									2.5 / 5
003									2																									2.5 / 5
004									2																									2.5 / 5
005									2																									2.5 / 5
006									2																									2.5 / 5
007																																		2.5 / 5
008																																		2.5 / 5
009																																		2.5 / 5
010																																		2.5 / 5
011																																		2.5 / 5
012																																		2.5 / 5
013																																		2.5 / 5
014																																		2.5 / 5
015																																		2.5 / 5
016																																		2.5 / 5
017																																		2.5 / 5
018																																		2.5 / 5
019																																		2.5 / 5
020																																		2.5 / 5

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:

Headspace in VOA Vials (>6mm) : ☐Yes ☐No ☒N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40250233

40250233

Client Name: PSI

Courier: ☑ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #: —

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - 118 **Type of Ice:** (Wet) Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: 5 /Corr: 5.5

Temp Blank Present: ☑ yes ☐ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:
Date: 8/23/22 /Initials: TP

Labeled By Initials:

Chain of Custody Present:	☑Yes ☐No ☐N/A	1. +2CC TP 8/23/22
Chain of Custody Filled Out:	☐Yes ☑No ☐N/A	2. PO# TP 8/23/22
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- DI VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD: ☐Yes ☑No ☐N/A		8.
Correct Containers Used:	☑Yes ☐No	9.
Correct Type: Pace Green Bay, Pace IR, Non-Pace		
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☐Yes ☑No ☐N/A	12. no times TP 8/23/22
Trip Blank Present:	☐Yes ☐No ☑N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir

Page 2 of 2

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40250233001	MW-1	SW3535	33848	PFAS-36	B220916B_01
40250233002	MW-4	SW3535	33848	PFAS-36	B220916B_01
40250233003	MW-5	SW3535	33848	PFAS-36	B220916B_01
40250233003	MW-5	SW3535	33848	PFAS-36	B220920A_00
40250233004	MW-6	SW3535	33848	PFAS-36	B220920A_00
40250233005	MW-7	SW3535	33848	PFAS-36	B220920A_00
40250233006	FIELD BLANK	SW3535	33855	PFAS-36	Q220921B_02

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Reporting Flags

A = Reporting Limit based on signal to noise (EDL)

B = Less than 10x higher than method blank level

C = Result obtained from confirmation analysis

D = Result obtained from analysis of diluted sample

E = Exceeds calibration range

I = Isotope ratio out of specification

J = Estimated value

L = Suppressive interference, analyte may be biased low

Nn = Value obtained from additional analysis

P = PCDE Interference

R = Recovery outside target range

S = Peak saturated

U = Analyte not detected

V = Result verified by confirmation analysis

X = %D Exceeds limits

Y = Calculated using average of daily RFs

* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Appendix B

Sample Analysis Summary

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	MW-1		
Lab Sample ID	40250233001		
Lab File ID	B220916B_022	Total Amount Extracted	255mL
Matrix	Non_Potable_Water	Ical ID	220831A02
Collected	08/19/2022 11:20	CCal File	B220916B_014
Received	08/24/2022 13:10	Ending CCal File	B220916B_025
Extraction Date	09/09/2022 16:07	Blank File	B220916B_012

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	6.6	2.0	0.49	0.49	1	375-22-4		09/16/2022 20:32
PFPeA	3.2	2.0	0.80	0.80	1	2706-90-3		09/16/2022 20:32
HFPO-DA	ND	2.0	0.48	0.48	1	13252-13-6		09/16/2022 20:32
PFBS	0.64 J	1.7	0.48	0.48	1	375-73-5		09/16/2022 20:32
PFHxA	ND	2.0	0.89	0.89	1	307-24-4		09/16/2022 20:32
4:2 FTS	ND	1.8	0.46	0.46	1	757124-72-4		09/16/2022 20:32
PFPeS	ND	1.8	0.59	0.59	1	2706-91-4		09/16/2022 20:32
PFHpA	ND	2.0	0.68	0.68	1	375-85-9		09/16/2022 20:32
DONA	ND	1.9	0.90	0.90	1	919005-14-4		09/16/2022 20:32
PFHxS	ND	1.8	0.52	0.52	1	355-46-4		09/16/2022 20:32
PFOA	1.1 J	2.0	0.84	0.84	1	335-67-1		09/16/2022 20:32
6:2 FTS	ND	1.9	0.66	0.66	1	27619-97-2		09/16/2022 20:32
PFHpS	ND	1.9	0.65	0.65	1	375-92-8		09/16/2022 20:32
PFNA	ND	2.0	0.78	0.78	1	375-95-1		09/16/2022 20:32
PFOSAm	ND	2.0	0.70	0.70	1	754-91-6		09/16/2022 20:32
PFOS	28	1.8	0.65	0.65	1	1763-23-1		09/16/2022 20:32
MeFOSA	ND	2.0	0.54	0.54	1	31506-32-8		09/16/2022 20:32
PFDA	ND	2.0	0.60	0.60	1	335-76-2		09/16/2022 20:32
EtFOSAm	ND	2.0	0.56	0.56	1	4151-50-2		09/16/2022 20:32
8:2 FTS	ND	1.9	0.49	0.49	1	39108-34-4		09/16/2022 20:32
9-Cl-PF3ON	ND	1.8	0.46	0.46	1	756426-58-1		09/16/2022 20:32
PFNS	ND	1.9	0.57	0.57	1	68259-12-1		09/16/2022 20:32
PFUnDA	ND	2.0	0.48	0.48	1	2058-94-8		09/16/2022 20:32
NMeFOSAA	ND	2.0	0.68	0.68	1	2355-31-9		09/16/2022 20:32
NEtFOSAA	1.3 J	2.0	0.80	0.80	1	2991-50-6		09/16/2022 20:32
PFDS	ND	1.9	0.63	0.63	1	335-77-3		09/16/2022 20:32
PFDOA	ND	2.0	0.47	0.47	1	307-55-1		09/16/2022 20:32
MeFOSE	ND	2.0	0.51	0.51	1	24448-09-7		09/16/2022 20:32
EtFOSE	ND	2.0	0.87	0.87	1	1691-99-2		09/16/2022 20:32
11-Cl-PF3OUdS	ND	1.8	0.54	0.54	1	763051-92-9		09/16/2022 20:32
PFTrDA	ND	2.0	0.61	0.61	1	72629-94-8		09/16/2022 20:32
PFDoS	ND	1.9	0.58	0.58	1	79780-39-5		09/16/2022 20:32
PFTDA	ND	2.0	0.59	0.59	1	376-06-7		09/16/2022 20:32

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	MW-1		
Lab Sample ID	40250233001		
Lab File ID	B220916B_022	Total Amount Extracted	255mL
Matrix	Non_Potable_Water	Ical ID	220831A02
Collected	08/19/2022 11:20	CCal File	B220916B_014
Received	08/24/2022 13:10	Ending CCal File	B220916B_025
Extraction Date	09/09/2022 16:07	Blank File	B220916B_012

Injection Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2_PFHxA	20	21	105	50-150		09/16/2022 20:32
13C4_PFOA	20	21	109	50-150		09/16/2022 20:32
13C2_PFDA	20	22	111	50-150		09/16/2022 20:32
13C4_PFOS	19	20	108	50-150		09/16/2022 20:32

Extracted Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4_PFBA	20	20	100	25-150		09/16/2022 20:32
13C5_PFPeA	20	19	98	25-150		09/16/2022 20:32
13C3_PFBS	18	18	98	25-150		09/16/2022 20:32
13C2_4:2FTS	18	18	98	25-150		09/16/2022 20:32
13C5_PFHxA	20	19	99	25-150		09/16/2022 20:32
13C4_PFHpA	20	18	94	25-150		09/16/2022 20:32
13C3_PFHxS	19	17	92	25-150		09/16/2022 20:32
13C2_6:2FTS	19	16	85	25-150		09/16/2022 20:32
13C8_PFOA	20	20	103	25-150		09/16/2022 20:32
13C9_PFNA	20	19	98	25-150		09/16/2022 20:32
13C8_PFOS	19	16	83	25-150		09/16/2022 20:32
13C2_8:2FTS	19	15	82	25-150		09/16/2022 20:32
13C6_PFDA	20	19	97	25-150		09/16/2022 20:32
d3-MeFOSAA	20	14	70	25-150		09/16/2022 20:32
13C8_PFOSA	20	6.4	32	25-150		09/16/2022 20:32
d5-EtFOSAA	20	13	68	25-150		09/16/2022 20:32
13C7_PFUdA	20	16	81	25-150		09/16/2022 20:32
13C2_PFDoA	20	31	**159**	25-150	R	09/16/2022 20:32
13C2_PFTeDA	20	14	69	25-150		09/16/2022 20:32
13C3_HFPO-DA	20	20	104	25-150		09/16/2022 20:32
d7-N-MeFOSE	20	2.9	15	10-150		09/16/2022 20:32
d9-N-EtFOSE	20	2.6	13	10-150		09/16/2022 20:32
d3-N-MeFOSA	20	0.11	**1**	10-150	R	09/16/2022 20:32
d5-N-EtFOSA	20	0.11	**1**	10-150	R	09/16/2022 20:32

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	MW-1		
Lab Sample ID	40250233001		
Lab File ID	B220916B_022	Total Amount Extracted	255mL
Matrix	Non_Potable_Water	Ical ID	220831A02
Collected	08/19/2022 11:20	CCal File	B220916B_014
Received	08/24/2022 13:10	Ending CCal File	B220916B_025
Extraction Date	09/09/2022 16:07	Blank File	B220916B_012

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2_PFHxA	N/A	N/A	5.70	5.72	20		09/16/2022 20:32
13C4_PFOA	N/A	N/A	6.85	6.87	26		09/16/2022 20:32
13C2_PFDA	N/A	N/A	8.06	8.08	20		09/16/2022 20:32
13C4_PFOS	N/A	N/A	8.48	8.49	23		09/16/2022 20:32

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4_PFBA	N/A	N/A	4.26	4.26	27		09/16/2022 20:32
13C5_PFPeA	N/A	N/A	5.10	5.10	25		09/16/2022 20:32
13C3_PFBS	N/A	N/A	5.89	5.90	13		09/16/2022 20:32
13C2_4:2FTS	N/A	N/A	5.46	5.47	28		09/16/2022 20:32
13C5_PFHxA	N/A	N/A	5.70	5.70	15		09/16/2022 20:32
13C4_PFHpA	N/A	N/A	6.27	6.27	15		09/16/2022 20:32
13C3_PFHxS	N/A	N/A	7.19	7.17	25		09/16/2022 20:32
13C2_6:2FTS	N/A	N/A	6.56	6.56	95		09/16/2022 20:32
13C8_PFOA	N/A	N/A	6.85	6.84	24		09/16/2022 20:32
13C9_PFNA	N/A	N/A	7.45	7.43	23		09/16/2022 20:32
13C8_PFOS	N/A	N/A	8.49	8.47	23		09/16/2022 20:32
13C2_8:2FTS	N/A	N/A	7.73	7.71	23		09/16/2022 20:32
13C6_PFDA	N/A	N/A	8.07	8.05	17		09/16/2022 20:32
d3-MeFOSAA	N/A	N/A	7.98	8.33	51		09/16/2022 20:32
13C8_PFOSA	N/A	N/A	10.64	10.64	10		09/16/2022 20:32
d5-EtFOSAA	N/A	N/A	8.27	8.27	15		09/16/2022 20:32
13C7_PFUdA	N/A	N/A	8.70	8.73	20		09/16/2022 20:32
13C2_PFDoA	N/A	N/A	9.34	9.36	21	R	09/16/2022 20:32
13C2_PFTeDA	N/A	N/A	10.56	10.57	87		09/16/2022 20:32
13C3_HFPO-DA	N/A	N/A	5.93	5.94	21		09/16/2022 20:32
d7-N-MeFOSE	N/A	N/A	12.47	12.45	33		09/16/2022 20:32
d9-N-EtFOSE	N/A	N/A	12.94	12.93	23		09/16/2022 20:32
d3-N-MeFOSA	N/A	N/A	12.67	12.67	12	R	09/16/2022 20:32
d5-N-EtFOSA	N/A	N/A	13.10	13.10	95	R	09/16/2022 20:32

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Sample Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	MW-1		
Lab Sample ID	40250233001		
Lab File ID	B220916B_022	Total Amount Extracted	255mL
Matrix	Non_Potable_Water	Ical ID	220831A02
Collected	08/19/2022 11:20	CCal File	B220916B_014
Received	08/24/2022 13:10	Ending CCal File	B220916B_025
Extraction Date	09/09/2022 16:07	Blank File	B220916B_012

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.26	4.26	14		09/16/2022 20:32
PFPeA	N/A	N/A	5.10	5.11	17		09/16/2022 20:32
HFPO-DA	0.00	0.25	0.00	5.94	ND		09/16/2022 20:32
PFBS	0.45	0.43	5.90	5.92	24	J	09/16/2022 20:32
PFHxA	0.08	0.07	5.71	5.73	ND		09/16/2022 20:32
4:2 FTS	0.00	0.83	0.00	5.49	ND		09/16/2022 20:32
PFPeS	0.41	0.41	6.55	6.58	ND		09/16/2022 20:32
PFHpA	0.25	0.30	6.28	6.31	ND		09/16/2022 20:32
DONA	0.00	0.56	0.00	6.52	ND		09/16/2022 20:32
PFHxS	0.27	0.37	7.18	7.21	ND		09/16/2022 20:32
PFOA	0.36	0.40	6.86	6.88	60	J	09/16/2022 20:32
6:2 FTS	1.10	0.90	6.56	6.58	ND		09/16/2022 20:32
PFHpS	0.48	0.39	7.85	7.87	ND		09/16/2022 20:32
PFNA	0.11	0.13	7.46	7.47	ND		09/16/2022 20:32
PFOSAm	N/A	N/A	10.65	10.67	ND		09/16/2022 20:32
PFOS	0.39	0.38	8.50	8.51	12		09/16/2022 20:32
MeFOSA	0.00	0.50	0.00	12.69	ND		09/16/2022 20:32
PFDA	0.14	0.19	8.08	8.09	ND		09/16/2022 20:32
EtFOSAm	0.00	0.53	0.00	13.12	ND		09/16/2022 20:32
8:2 FTS	0.00	0.99	0.00	7.75	ND		09/16/2022 20:32
9-Cl-PF3ON	0.00	0.06	0.00	9.00	ND		09/16/2022 20:32
PFNS	0.29	0.48	9.15	9.18	ND		09/16/2022 20:32
PFUnDA	0.00	0.13	0.00	8.74	ND		09/16/2022 20:32
NMeFOSAA	0.93	0.84	7.99	8.01	ND		09/16/2022 20:32
NEtFOSAA	0.63	0.62	8.28	8.29	11	J	09/16/2022 20:32
PFDS	0.34	0.36	9.76	9.80	ND		09/16/2022 20:32
PFDOA	0.21	0.18	9.34	9.39	ND		09/16/2022 20:32
MeFOSE	N/A	N/A	0.00	12.52	ND		09/16/2022 20:32
EtFOSE	0.00	0.00	0.00	12.98	ND		09/16/2022 20:32
11-Cl-PF3OUdS	0.00	0.02	0.00	10.23	ND		09/16/2022 20:32
PFTrDA	0.00	0.16	0.00	10.00	ND		09/16/2022 20:32
PFDoS	0.00	0.45	0.00	10.95	ND		09/16/2022 20:32
PFTDA	0.00	0.19	0.00	10.59	ND		09/16/2022 20:32

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	MW-4		
Lab Sample ID	40250233002		
Lab File ID	B220916B_023	Total Amount Extracted	254mL
Matrix	Non_Potable_Water	Ical ID	220831A02
Collected	08/19/2022 11:45	CCal File	B220916B_014
Received	08/24/2022 13:10	Ending CCal File	B220916B_025
Extraction Date	09/09/2022 16:07	Blank File	B220916B_012

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	16	2.0	0.49	0.49	1	375-22-4		09/16/2022 20:52
PFPeA	15	2.0	0.81	0.81	1	2706-90-3		09/16/2022 20:52
HFPO-DA	ND	2.0	0.49	0.49	1	13252-13-6		09/16/2022 20:52
PFBS	18	1.7	0.48	0.48	1	375-73-5		09/16/2022 20:52
PFHxA	35	2.0	0.90	0.90	1	307-24-4		09/16/2022 20:52
4:2 FTS	ND	1.8	0.46	0.46	1	757124-72-4		09/16/2022 20:52
PFPeS	12	1.8	0.59	0.59	1	2706-91-4		09/16/2022 20:52
PFHpA	17	2.0	0.68	0.68	1	375-85-9		09/16/2022 20:52
DONA	ND	1.9	0.90	0.90	1	919005-14-4		09/16/2022 20:52
PFHxS	28	1.8	0.52	0.52	1	355-46-4		09/16/2022 20:52
PFOA	100	2.0	0.85	0.85	1	335-67-1		09/16/2022 20:52
6:2 FTS	0.95 J	1.9	0.66	0.66	1	27619-97-2		09/16/2022 20:52
PFHpS	3.2	1.9	0.66	0.66	1	375-92-8		09/16/2022 20:52
PFNA	1.1 J	2.0	0.78	0.78	1	375-95-1		09/16/2022 20:52
PFOSAm	4.3	2.0	0.71	0.71	1	754-91-6		09/16/2022 20:52
PFOS	64	1.8	0.66	0.66	1	1763-23-1		09/16/2022 20:52
MeFOSA	0.79 J	2.0	0.54	0.54	1	31506-32-8		09/16/2022 20:52
PFDA	ND	2.0	0.60	0.60	1	335-76-2		09/16/2022 20:52
EtFOSAm	ND	2.0	0.56	0.56	1	4151-50-2		09/16/2022 20:52
8:2 FTS	ND	1.9	0.50	0.50	1	39108-34-4		09/16/2022 20:52
9-Cl-PF3ON	ND	1.8	0.46	0.46	1	756426-58-1		09/16/2022 20:52
PFNS	ND	1.9	0.58	0.58	1	68259-12-1		09/16/2022 20:52
PFUnDA	ND	2.0	0.48	0.48	1	2058-94-8		09/16/2022 20:52
NMeFOSAA	78	2.0	0.68	0.68	1	2355-31-9		09/16/2022 20:52
NEtFOSAA	17	2.0	0.80	0.80	1	2991-50-6		09/16/2022 20:52
PFDS	ND	1.9	0.63	0.63	1	335-77-3		09/16/2022 20:52
PFDOA	ND	2.0	0.47	0.47	1	307-55-1		09/16/2022 20:52
MeFOSE	ND	2.0	0.51	0.51	1	24448-09-7		09/16/2022 20:52
EtFOSE	ND	2.0	0.87	0.87	1	1691-99-2		09/16/2022 20:52
11-Cl-PF3OUdS	ND	1.9	0.55	0.55	1	763051-92-9		09/16/2022 20:52
PFTrDA	ND	2.0	0.61	0.61	1	72629-94-8		09/16/2022 20:52
PFDoS	ND	1.9	0.58	0.58	1	79780-39-5		09/16/2022 20:52
PFTDA	ND	2.0	0.59	0.59	1	376-06-7		09/16/2022 20:52

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Sample Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	MW-4		
Lab Sample ID	40250233002		
Lab File ID	B220916B_023	Total Amount Extracted	254mL
Matrix	Non_Potable_Water	Ical ID	220831A02
Collected	08/19/2022 11:45	CCal File	B220916B_014
Received	08/24/2022 13:10	Ending CCal File	B220916B_025
Extraction Date	09/09/2022 16:07	Blank File	B220916B_012

Injection Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2_PFHxA	20	24	123	50-150		09/16/2022 20:52
13C4_PFOA	20	24	123	50-150		09/16/2022 20:52
13C2_PFDA	20	25	126	50-150		09/16/2022 20:52
13C4_PFOS	19	22	117	50-150		09/16/2022 20:52

Extracted Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4_PFBA	20	20	103	25-150		09/16/2022 20:52
13C5_PFPeA	20	22	110	25-150		09/16/2022 20:52
13C3_PFBS	18	20	112	25-150		09/16/2022 20:52
13C2_4:2FTS	18	34	**183**	25-150	R	09/16/2022 20:52
13C5_PFHxA	20	22	111	25-150		09/16/2022 20:52
13C4_PFHpA	20	22	112	25-150		09/16/2022 20:52
13C3_PFHxS	19	19	101	25-150		09/16/2022 20:52
13C2_6:2FTS	19	23	122	25-150		09/16/2022 20:52
13C8_PFOA	20	21	108	25-150		09/16/2022 20:52
13C9_PFNA	20	23	116	25-150		09/16/2022 20:52
13C8_PFOS	19	18	95	25-150		09/16/2022 20:52
13C2_8:2FTS	19	19	103	25-150		09/16/2022 20:52
13C6_PFDA	20	21	107	25-150		09/16/2022 20:52
d3-MeFOSAA	20	15	74	25-150		09/16/2022 20:52
13C8_PFOSA	20	14	73	25-150		09/16/2022 20:52
d5-EtFOSAA	20	15	78	25-150		09/16/2022 20:52
13C7_PFUdA	20	19	98	25-150		09/16/2022 20:52
13C2_PFDoA	20	33	**168**	25-150	R	09/16/2022 20:52
13C2_PFTeDA	20	16	81	25-150		09/16/2022 20:52
13C3_HFPO-DA	20	22	111	25-150		09/16/2022 20:52
d7-N-MeFOSE	20	12	60	10-150		09/16/2022 20:52
d9-N-EtFOSE	20	10.0	51	10-150		09/16/2022 20:52
d3-N-MeFOSA	20	9.0	46	10-150		09/16/2022 20:52
d5-N-EtFOSA	20	8.4	43	10-150		09/16/2022 20:52

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Sample Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	MW-4		
Lab Sample ID	40250233002		
Lab File ID	B220916B_023	Total Amount Extracted	254mL
Matrix	Non_Potable_Water	Ical ID	220831A02
Collected	08/19/2022 11:45	CCal File	B220916B_014
Received	08/24/2022 13:10	Ending CCal File	B220916B_025
Extraction Date	09/09/2022 16:07	Blank File	B220916B_012

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2_PFHxA	N/A	N/A	5.70	5.72	16		09/16/2022 20:52
13C4_PFOA	N/A	N/A	6.85	6.87	30		09/16/2022 20:52
13C2_PFDA	N/A	N/A	8.07	8.08	19		09/16/2022 20:52
13C4_PFOS	N/A	N/A	8.49	8.49	17		09/16/2022 20:52

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4_PFBA	N/A	N/A	4.26	4.26	25		09/16/2022 20:52
13C5_PFPeA	N/A	N/A	5.08	5.10	22		09/16/2022 20:52
13C3_PFBS	N/A	N/A	5.89	5.90	48		09/16/2022 20:52
13C2_4:2FTS	N/A	N/A	5.46	5.47	16	R	09/16/2022 20:52
13C5_PFHxA	N/A	N/A	5.70	5.70	11		09/16/2022 20:52
13C4_PFHpA	N/A	N/A	6.28	6.27	17		09/16/2022 20:52
13C3_PFHxS	N/A	N/A	7.19	7.17	11		09/16/2022 20:52
13C2_6:2FTS	N/A	N/A	6.57	6.56	45		09/16/2022 20:52
13C8_PFOA	N/A	N/A	6.86	6.84	25		09/16/2022 20:52
13C9_PFNA	N/A	N/A	7.45	7.43	19		09/16/2022 20:52
13C8_PFOS	N/A	N/A	8.49	8.47	13		09/16/2022 20:52
13C2_8:2FTS	N/A	N/A	7.73	7.71	10		09/16/2022 20:52
13C6_PFDA	N/A	N/A	8.07	8.05	25		09/16/2022 20:52
d3-MeFOSAA	N/A	N/A	7.98	8.33	15		09/16/2022 20:52
13C8_PFOSA	N/A	N/A	10.64	10.64	10		09/16/2022 20:52
d5-EtFOSAA	N/A	N/A	8.27	8.27	54		09/16/2022 20:52
13C7_PFUdA	N/A	N/A	8.71	8.73	23		09/16/2022 20:52
13C2_PFDoA	N/A	N/A	9.34	9.36	21	R	09/16/2022 20:52
13C2_PFTeDA	N/A	N/A	10.56	10.57	10		09/16/2022 20:52
13C3_HFPO-DA	N/A	N/A	5.93	5.94	14		09/16/2022 20:52
d7-N-MeFOSE	N/A	N/A	12.47	12.45	34		09/16/2022 20:52
d9-N-EtFOSE	N/A	N/A	12.94	12.93	41		09/16/2022 20:52
d3-N-MeFOSA	N/A	N/A	12.68	12.75	69		09/16/2022 20:52
d5-N-EtFOSA	N/A	N/A	13.10	13.10	60		09/16/2022 20:52

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	MW-4		
Lab Sample ID	40250233002		
Lab File ID	B220916B_023	Total Amount Extracted	254mL
Matrix	Non_Potable_Water	Ical ID	220831A02
Collected	08/19/2022 11:45	CCal File	B220916B_014
Received	08/24/2022 13:10	Ending CCal File	B220916B_025
Extraction Date	09/09/2022 16:07	Blank File	B220916B_012

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.27	4.26	17		09/16/2022 20:52
PFPeA	N/A	N/A	5.09	5.11	17		09/16/2022 20:52
HFPO-DA	0.45	0.25	5.95	5.97	ND		09/16/2022 20:52
PFBS	0.46	0.43	5.90	5.92	35		09/16/2022 20:52
PFHxA	0.07	0.07	5.71	5.73	21		09/16/2022 20:52
4:2 FTS	0.00	0.83	0.00	5.49	ND		09/16/2022 20:52
PFPeS	0.42	0.41	6.56	6.58	24		09/16/2022 20:52
PFHpA	0.29	0.30	6.28	6.31	15		09/16/2022 20:52
DONA	0.00	0.56	0.00	6.52	ND		09/16/2022 20:52
PFHxS	0.34	0.37	7.20	7.21	73		09/16/2022 20:52
PFOA	0.44	0.40	6.86	6.88	47		09/16/2022 20:52
6:2 FTS	0.76	0.90	6.57	6.58	42	J	09/16/2022 20:52
PFHpS	0.37	0.39	7.84	7.87	22		09/16/2022 20:52
PFNA	0.12	0.13	7.46	7.47	18	J	09/16/2022 20:52
PFOSAm	N/A	N/A	10.65	10.67	10		09/16/2022 20:52
PFOS	0.31	0.38	8.45	8.51	51		09/16/2022 20:52
MeFOSA	0.59	0.50	12.70	12.69	81	J	09/16/2022 20:52
PFDA	0.17	0.19	8.08	8.09	ND		09/16/2022 20:52
EtFOSAm	0.41	0.53	13.12	13.12	ND		09/16/2022 20:52
8:2 FTS	0.00	0.99	0.00	7.75	ND		09/16/2022 20:52
9-Cl-PF3ON	0.00	0.06	0.00	9.00	ND		09/16/2022 20:52
PFNS	0.00	0.48	0.00	9.18	ND		09/16/2022 20:52
PFUnDA	0.00	0.13	0.00	8.74	ND		09/16/2022 20:52
NMeFOSAA	0.95	0.84	7.99	8.01	25		09/16/2022 20:52
NEtFOSAA	0.71	0.62	8.28	8.29	21		09/16/2022 20:52
PFDS	0.00	0.36	0.00	9.80	ND		09/16/2022 20:52
PFDOA	0.00	0.18	0.00	9.39	ND		09/16/2022 20:52
MeFOSE	N/A	N/A	0.00	12.52	ND		09/16/2022 20:52
EtFOSE	0.00	0.00	0.00	12.98	ND		09/16/2022 20:52
11-Cl-PF3OUdS	0.00	0.02	0.00	10.23	ND		09/16/2022 20:52
PFTrDA	0.00	0.16	0.00	10.00	ND		09/16/2022 20:52
PFDoS	0.00	0.45	0.00	10.95	ND		09/16/2022 20:52
PFTDA	0.00	0.19	0.00	10.59	ND		09/16/2022 20:52

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Sample Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	MW-5		
Lab Sample ID	40250233003		
Lab File ID	B220916B_024	Total Amount Extracted	259mL
Matrix	Non_Potable_Water	Ical ID	220916A02
Collected	08/19/2022 12:05	CCal File	B220916B_014
Received	08/24/2022 13:10	Ending CCal File	B220916B_025
Extraction Date	09/09/2022 16:07	Blank File	B220916B_012

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	14	1.9	0.48	0.48	1	375-22-4		09/16/2022 21:12
PFPeA	11	1.9	0.79	0.79	1	2706-90-3		09/16/2022 21:12
HFPO-DA	ND	1.9	0.48	0.48	1	13252-13-6		09/16/2022 21:12
PFBS	20	1.7	0.47	0.47	1	375-73-5		09/16/2022 21:12
PFHxA	24	1.9	0.88	0.88	1	307-24-4		09/16/2022 21:12
4:2 FTS	ND	1.8	0.45	0.45	1	757124-72-4		09/16/2022 21:12
PFPeS	24	1.8	0.58	0.58	1	2706-91-4		09/16/2022 21:12
PFHpA	22	1.9	0.66	0.66	1	375-85-9		09/16/2022 21:12
DONA	ND	1.8	0.89	0.89	1	919005-14-4		09/16/2022 21:12
PFHxS	92	1.8	0.51	0.51	1	355-46-4		09/16/2022 21:12
PFOA	180	1.9	0.83	0.83	1	335-67-1		09/16/2022 21:12
6:2 FTS	ND	1.8	0.65	0.65	1	27619-97-2		09/16/2022 21:12
PFHpS	25	1.8	0.64	0.64	1	375-92-8		09/16/2022 21:12
PFNA	3.9	1.9	0.77	0.77	1	375-95-1		09/16/2022 21:12
PFOSAm	46	1.9	0.69	0.69	1	754-91-6		09/16/2022 21:12
PFOS	940 D	36	13	13	20	1763-23-1		09/20/2022 10:11
MeFOSA	ND	1.9	0.53	0.53	1	31506-32-8		09/16/2022 21:12
PFDA	0.96 J	1.9	0.59	0.59	1	335-76-2		09/16/2022 21:12
EtFOSAm	ND	1.9	0.55	0.55	1	4151-50-2		09/16/2022 21:12
8:2 FTS	ND	1.9	0.49	0.49	1	39108-34-4		09/16/2022 21:12
9-Cl-PF3ON	ND	1.8	0.45	0.45	1	756426-58-1		09/16/2022 21:12
PFNS	ND	1.9	0.57	0.57	1	68259-12-1		09/16/2022 21:12
PFUnDA	ND	1.9	0.47	0.47	1	2058-94-8		09/16/2022 21:12
NMeFOSAA	17	1.9	0.67	0.67	1	2355-31-9		09/16/2022 21:12
NEtFOSAA	8.0	1.9	0.79	0.79	1	2991-50-6		09/16/2022 21:12
PFDS	ND	1.9	0.62	0.62	1	335-77-3		09/16/2022 21:12
PFDOA	ND	1.9	0.46	0.46	1	307-55-1		09/16/2022 21:12
MeFOSE	ND	1.9	0.50	0.50	1	24448-09-7		09/16/2022 21:12
EtFOSE	ND	1.9	0.86	0.86	1	1691-99-2		09/16/2022 21:12
11-Cl-PF3OUdS	ND	1.8	0.54	0.54	1	763051-92-9		09/16/2022 21:12
PFTrDA	ND	1.9	0.60	0.60	1	72629-94-8		09/16/2022 21:12
PFDoS	ND	1.9	0.57	0.57	1	79780-39-5		09/16/2022 21:12
PFTDA	ND	1.9	0.58	0.58	1	376-06-7		09/16/2022 21:12

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Sample Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	MW-5		
Lab Sample ID	40250233003		
Lab File ID	B220916B_024	Total Amount Extracted	259mL
Matrix	Non_Potable_Water	Ical ID	220916A02
Collected	08/19/2022 12:05	CCal File	B220916B_014
Received	08/24/2022 13:10	Ending CCal File	B220916B_025
Extraction Date	09/09/2022 16:07	Blank File	B220916B_012

Injection Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2_PFHxA	19	22	114	50-150		09/16/2022 21:12
13C4_PFOA	19	25	127	50-150		09/16/2022 21:12
13C2_PFDA	19	26	137	50-150		09/16/2022 21:12
13C4_PFOS	18	16	89	50-150		09/16/2022 21:12

Extracted Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4_PFBA	19	15	76	25-150		09/16/2022 21:12
13C5_PFPeA	19	17	88	25-150		09/16/2022 21:12
13C3_PFBS	18	18	98	25-150		09/16/2022 21:12
13C2_4:2FTS	18	47	**258**	25-150	R	09/16/2022 21:12
13C5_PFHxA	19	20	105	25-150		09/16/2022 21:12
13C4_PFHpA	19	22	113	25-150		09/16/2022 21:12
13C3_PFHxS	18	18	97	25-150		09/16/2022 21:12
13C2_6:2FTS	18	28	**152**	25-150	R	09/16/2022 21:12
13C8_PFOA	19	22	113	25-150		09/16/2022 21:12
13C9_PFNA	19	21	108	25-150		09/16/2022 21:12
13C8_PFOS	18	14	78	25-150	D	09/20/2022 10:11
13C2_8:2FTS	18	20	108	25-150		09/16/2022 21:12
13C6_PFDA	19	23	121	25-150		09/16/2022 21:12
d3-MeFOSAA	19	17	88	25-150		09/16/2022 21:12
13C8_PFOSA	19	9.1	47	25-150		09/16/2022 21:12
d5-EtFOSAA	19	15	78	25-150		09/16/2022 21:12
13C7_PFUdA	19	20	101	25-150		09/16/2022 21:12
13C2_PFDoA	19	26	137	25-150		09/16/2022 21:12
13C2_PFTeDA	19	14	75	25-150		09/16/2022 21:12
13C3_HFPO-DA	19	18	94	25-150		09/16/2022 21:12
d7-N-MeFOSE	19	4.5	23	10-150		09/16/2022 21:12
d9-N-EtFOSE	19	3.7	19	10-150		09/16/2022 21:12
d3-N-MeFOSA	19	0.42	**2**	10-150	R	09/16/2022 21:12
d5-N-EtFOSA	19	0.36	**2**	10-150	R	09/16/2022 21:12

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	MW-5		
Lab Sample ID	40250233003		
Lab File ID	B220916B_024	Total Amount Extracted	259mL
Matrix	Non_Potable_Water	Ical ID	220916A02
Collected	08/19/2022 12:05	CCal File	B220916B_014
Received	08/24/2022 13:10	Ending CCal File	B220916B_025
Extraction Date	09/09/2022 16:07	Blank File	B220916B_012

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2_PFHxA	N/A	N/A	5.70	5.72	13		09/16/2022 21:12
13C4_PFOA	N/A	N/A	6.86	6.87	22		09/16/2022 21:12
13C2_PFDA	N/A	N/A	8.07	8.08	19		09/16/2022 21:12
13C4_PFOS	N/A	N/A	8.49	8.49	13		09/16/2022 21:12

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4_PFBA	N/A	N/A	4.25	4.26	21		09/16/2022 21:12
13C5_PFPeA	N/A	N/A	5.09	5.10	12		09/16/2022 21:12
13C3_PFBS	N/A	N/A	5.89	5.90	44		09/16/2022 21:12
13C2_4:2FTS	N/A	N/A	5.47	5.47	12	R	09/16/2022 21:12
13C5_PFHxA	N/A	N/A	5.70	5.70	90		09/16/2022 21:12
13C4_PFHpA	N/A	N/A	6.28	6.27	15		09/16/2022 21:12
13C3_PFHxS	N/A	N/A	7.19	7.17	11		09/16/2022 21:12
13C2_6:2FTS	N/A	N/A	6.57	6.56	30	R	09/16/2022 21:12
13C8_PFOA	N/A	N/A	6.86	6.84	22		09/16/2022 21:12
13C9_PFNA	N/A	N/A	7.45	7.43	16		09/16/2022 21:12
13C8_PFOS	N/A	N/A	8.48	8.47	25	D	09/20/2022 10:11
13C2_8:2FTS	N/A	N/A	7.73	7.71	68		09/16/2022 21:12
13C6_PFDA	N/A	N/A	8.07	8.05	26		09/16/2022 21:12
d3-MeFOSAA	N/A	N/A	7.98	8.33	10		09/16/2022 21:12
13C8_PFOSA	N/A	N/A	10.65	10.64	96		09/16/2022 21:12
d5-EtFOSAA	N/A	N/A	8.27	8.27	76		09/16/2022 21:12
13C7_PFUdA	N/A	N/A	8.72	8.73	19		09/16/2022 21:12
13C2_PFDoA	N/A	N/A	9.35	9.36	13		09/16/2022 21:12
13C2_PFTeDA	N/A	N/A	10.57	10.57	95		09/16/2022 21:12
13C3_HFPO-DA	N/A	N/A	5.93	5.94	12		09/16/2022 21:12
d7-N-MeFOSE	N/A	N/A	12.48	12.45	35		09/16/2022 21:12
d9-N-EtFOSE	N/A	N/A	12.95	12.93	34		09/16/2022 21:12
d3-N-MeFOSA	N/A	N/A	12.68	12.75	10	R	09/16/2022 21:12
d5-N-EtFOSA	N/A	N/A	13.11	13.10	22	R	09/16/2022 21:12

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	MW-5		
Lab Sample ID	40250233003		
Lab File ID	B220916B_024	Total Amount Extracted	259mL
Matrix	Non_Potable_Water	Ical ID	220916A02
Collected	08/19/2022 12:05	CCal File	B220916B_014
Received	08/24/2022 13:10	Ending CCal File	B220916B_025
Extraction Date	09/09/2022 16:07	Blank File	B220916B_012

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.26	4.26	23		09/16/2022 21:12
PFPeA	N/A	N/A	5.10	5.11	13		09/16/2022 21:12
HFPO-DA	0.62	0.25	5.95	5.97	ND		09/16/2022 21:12
PFBS	0.46	0.43	5.90	5.92	31		09/16/2022 21:12
PFHxA	0.07	0.07	5.71	5.73	10		09/16/2022 21:12
4:2 FTS	0.00	0.83	0.00	5.49	ND		09/16/2022 21:12
PFPeS	0.42	0.41	6.56	6.58	35		09/16/2022 21:12
PFHpA	0.29	0.30	6.29	6.31	16		09/16/2022 21:12
DONA	0.00	0.56	0.00	6.52	ND		09/16/2022 21:12
PFHxS	0.37	0.37	7.20	7.21	96		09/16/2022 21:12
PFOA	0.45	0.40	6.87	6.88	56		09/16/2022 21:12
6:2 FTS	0.80	0.90	6.57	6.58	ND		09/16/2022 21:12
PFHpS	0.40	0.39	7.84	7.87	29		09/16/2022 21:12
PFNA	0.13	0.13	7.46	7.47	27		09/16/2022 21:12
PFOSAm	N/A	N/A	10.66	10.67	23		09/16/2022 21:12
PFOS	0.34	0.38	8.49	8.51	79	D	09/20/2022 10:11
MeFOSA	0.00	0.50	0.00	12.69	ND		09/16/2022 21:12
PFDA	0.16	0.19	8.08	8.09	19	J	09/16/2022 21:12
EtFOSAm	0.00	0.53	0.00	13.12	ND		09/16/2022 21:12
8:2 FTS	0.00	0.99	0.00	7.75	ND		09/16/2022 21:12
9-Cl-PF3ON	0.00	0.06	0.00	9.00	ND		09/16/2022 21:12
PFNS	0.54	0.48	9.16	9.18	ND		09/16/2022 21:12
PFUnDA	0.18	0.13	8.72	8.74	ND		09/16/2022 21:12
NMeFOSAA	1.20	0.84	7.78	8.01	22		09/16/2022 21:12
NEtFOSAA	0.81	0.62	8.28	8.29	10		09/16/2022 21:12
PFDS	0.00	0.36	0.00	9.80	ND		09/16/2022 21:12
PFDOA	0.00	0.18	0.00	9.39	ND		09/16/2022 21:12
MeFOSE	N/A	N/A	0.00	12.52	ND		09/16/2022 21:12
EtFOSE	0.00	0.00	0.00	12.98	ND		09/16/2022 21:12
11-Cl-PF3OUdS	0.00	0.02	0.00	10.23	ND		09/16/2022 21:12
PFTrDA	0.00	0.16	0.00	10.00	ND		09/16/2022 21:12
PFDoS	0.00	0.45	0.00	10.95	ND		09/16/2022 21:12
PFTDA	0.00	0.19	0.00	10.59	ND		09/16/2022 21:12

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Sample Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	MW-6		
Lab Sample ID	40250233004		
Lab File ID	B220920A_012	Total Amount Extracted	252mL
Matrix	Non_Potable_Water	Ical ID	220916A02
Collected	08/19/2022 12:20	CCal File	B220920A_004
Received	08/24/2022 13:10	Ending CCal File	B220920A_014
Extraction Date	09/09/2022 16:07	Blank File	B220916B_012

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	5.2	2.0	0.49	0.49	1	375-22-4		09/20/2022 12:12
PFPeA	2.9	2.0	0.81	0.81	1	2706-90-3		09/20/2022 12:12
HFPO-DA	ND	2.0	0.49	0.49	1	13252-13-6		09/20/2022 12:12
PFBS	2.4	1.8	0.48	0.48	1	375-73-5		09/20/2022 12:12
PFHxA	3.1	2.0	0.90	0.90	1	307-24-4		09/20/2022 12:12
4:2 FTS	ND	1.9	0.46	0.46	1	757124-72-4		09/20/2022 12:12
PFPeS	ND	1.9	0.60	0.60	1	2706-91-4		09/20/2022 12:12
PFHpA	1.3 J	2.0	0.68	0.68	1	375-85-9		09/20/2022 12:12
DONA	ND	1.9	0.91	0.91	1	919005-14-4		09/20/2022 12:12
PFHxS	ND	1.8	0.53	0.53	1	355-46-4		09/20/2022 12:12
PFOA	2.2	2.0	0.85	0.85	1	335-67-1		09/20/2022 12:12
6:2 FTS	ND	1.9	0.67	0.67	1	27619-97-2		09/20/2022 12:12
PFHpS	ND	1.9	0.66	0.66	1	375-92-8		09/20/2022 12:12
PFNA	ND	2.0	0.79	0.79	1	375-95-1		09/20/2022 12:12
PFOSAm	ND	2.0	0.71	0.71	1	754-91-6		09/20/2022 12:12
PFOS	ND	1.8	0.66	0.66	1	1763-23-1		09/20/2022 12:12
MeFOSA	ND	2.0	0.55	0.55	1	31506-32-8		09/20/2022 12:12
PFDA	ND	2.0	0.60	0.60	1	335-76-2		09/20/2022 12:12
EtFOSAm	ND	2.0	0.57	0.57	1	4151-50-2		09/20/2022 12:12
8:2 FTS	ND	1.9	0.50	0.50	1	39108-34-4		09/20/2022 12:12
9-Cl-PF3ON	ND	1.8	0.47	0.47	1	756426-58-1		09/20/2022 12:12
PFNS	ND	1.9	0.58	0.58	1	68259-12-1		09/20/2022 12:12
PFUnDA	ND	2.0	0.48	0.48	1	2058-94-8		09/20/2022 12:12
NMeFOSAA	ND	2.0	0.69	0.69	1	2355-31-9		09/20/2022 12:12
NEtFOSAA	ND	2.0	0.81	0.81	1	2991-50-6		09/20/2022 12:12
PFDS	ND	1.9	0.64	0.64	1	335-77-3		09/20/2022 12:12
PFDOA	ND	2.0	0.48	0.48	1	307-55-1		09/20/2022 12:12
MeFOSE	ND	2.0	0.52	0.52	1	24448-09-7		09/20/2022 12:12
EtFOSE	ND	2.0	0.88	0.88	1	1691-99-2		09/20/2022 12:12
11-Cl-PF3OUdS	ND	1.9	0.55	0.55	1	763051-92-9		09/20/2022 12:12
PFTrDA	ND	2.0	0.62	0.62	1	72629-94-8		09/20/2022 12:12
PFDoS	ND	1.9	0.59	0.59	1	79780-39-5		09/20/2022 12:12
PFTDA	ND	2.0	0.59	0.59	1	376-06-7		09/20/2022 12:12

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Sample Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	MW-6		
Lab Sample ID	40250233004		
Lab File ID	B220920A_012	Total Amount Extracted	252mL
Matrix	Non_Potable_Water	Ical ID	220916A02
Collected	08/19/2022 12:20	CCal File	B220920A_004
Received	08/24/2022 13:10	Ending CCal File	B220920A_014
Extraction Date	09/09/2022 16:07	Blank File	B220916B_012

Injection Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2_PFHxA	20	22	112	50-150		09/20/2022 12:12
13C4_PFOA	20	22	109	50-150		09/20/2022 12:12
13C2_PFDA	20	25	125	50-150		09/20/2022 12:12
13C4_PFOS	19	20	106	50-150		09/20/2022 12:12

Extracted Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4_PFBA	20	19	96	25-150		09/20/2022 12:12
13C5_PFPeA	20	20	99	25-150		09/20/2022 12:12
13C3_PFBS	18	18	96	25-150		09/20/2022 12:12
13C2_4:2FTS	19	22	120	25-150		09/20/2022 12:12
13C5_PFHxA	20	18	90	25-150		09/20/2022 12:12
13C4_PFHpA	20	19	94	25-150		09/20/2022 12:12
13C3_PFHxS	19	18	97	25-150		09/20/2022 12:12
13C2_6:2FTS	19	18	96	25-150		09/20/2022 12:12
13C8_PFOA	20	17	88	25-150		09/20/2022 12:12
13C9_PFNA	20	17	86	25-150		09/20/2022 12:12
13C8_PFOS	19	14	72	25-150		09/20/2022 12:12
13C2_8:2FTS	19	13	69	25-150		09/20/2022 12:12
13C6_PFDA	20	16	81	25-150		09/20/2022 12:12
d3-MeFOSAA	20	8.4	42	25-150		09/20/2022 12:12
13C8_PFOSA	20	3.7	**19**	25-150	R	09/20/2022 12:12
d5-EtFOSAA	20	8.8	44	25-150		09/20/2022 12:12
13C7_PFUdA	20	12	59	25-150		09/20/2022 12:12
13C2_PFDoA	20	17	85	25-150		09/20/2022 12:12
13C2_PFTeDA	20	9.7	49	25-150		09/20/2022 12:12
13C3_HFPO-DA	20	19	96	25-150		09/20/2022 12:12
d7-N-MeFOSE	20	1.9	10	10-150		09/20/2022 12:12
d9-N-EtFOSE	20	2.3	12	10-150		09/20/2022 12:12
d3-N-MeFOSA	20	0.015	**0**	10-150	R	09/20/2022 12:12
d5-N-EtFOSA	20	0.019	**0**	10-150	R	09/20/2022 12:12

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Sample Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	MW-6		
Lab Sample ID	40250233004		
Lab File ID	B220920A_012	Total Amount Extracted	252mL
Matrix	Non_Potable_Water	Ical ID	220916A02
Collected	08/19/2022 12:20	CCal File	B220920A_004
Received	08/24/2022 13:10	Ending CCal File	B220920A_014
Extraction Date	09/09/2022 16:07	Blank File	B220916B_012

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2_PFHxA	N/A	N/A	5.67	5.72	16		09/20/2022 12:12
13C4_PFOA	N/A	N/A	6.84	6.87	22		09/20/2022 12:12
13C2_PFDA	N/A	N/A	8.06	8.08	47		09/20/2022 12:12
13C4_PFOS	N/A	N/A	8.46	8.49	20		09/20/2022 12:12

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4_PFBA	N/A	N/A	4.21	4.26	23		09/20/2022 12:12
13C5_PFPeA	N/A	N/A	5.06	5.16	20		09/20/2022 12:12
13C3_PFBS	N/A	N/A	5.86	5.90	75		09/20/2022 12:12
13C2_4:2FTS	N/A	N/A	5.44	5.47	34		09/20/2022 12:12
13C5_PFHxA	N/A	N/A	5.67	5.70	13		09/20/2022 12:12
13C4_PFHpA	N/A	N/A	6.26	6.27	22		09/20/2022 12:12
13C3_PFHxS	N/A	N/A	7.18	7.17	19		09/20/2022 12:12
13C2_6:2FTS	N/A	N/A	6.55	6.56	83		09/20/2022 12:12
13C8_PFOA	N/A	N/A	6.85	6.84	23		09/20/2022 12:12
13C9_PFNA	N/A	N/A	7.45	7.43	25		09/20/2022 12:12
13C8_PFOS	N/A	N/A	8.47	8.47	12		09/20/2022 12:12
13C2_8:2FTS	N/A	N/A	7.73	7.71	89		09/20/2022 12:12
13C6_PFDA	N/A	N/A	8.06	8.05	29		09/20/2022 12:12
d3-MeFOSAA	N/A	N/A	7.98	8.00	19		09/20/2022 12:12
13C8_PFOSA	N/A	N/A	10.61	10.64	10	R	09/20/2022 12:12
d5-EtFOSAA	N/A	N/A	8.26	8.27	36		09/20/2022 12:12
13C7_PFUdA	N/A	N/A	8.68	8.73	23		09/20/2022 12:12
13C2_PFDoA	N/A	N/A	9.31	9.36	14		09/20/2022 12:12
13C2_PFTeDA	N/A	N/A	10.51	10.57	11		09/20/2022 12:12
13C3_HFPO-DA	N/A	N/A	5.91	5.94	15		09/20/2022 12:12
d7-N-MeFOSE	N/A	N/A	12.44	12.45	35		09/20/2022 12:12
d9-N-EtFOSE	N/A	N/A	12.91	12.93	13		09/20/2022 12:12
d3-N-MeFOSA	N/A	N/A	12.63	12.64	22	R	09/20/2022 12:12
d5-N-EtFOSA	N/A	N/A	13.06	13.11	25	R	09/20/2022 12:12

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Sample Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	MW-6		
Lab Sample ID	40250233004		
Lab File ID	B220920A_012	Total Amount Extracted	252mL
Matrix	Non_Potable_Water	Ical ID	220916A02
Collected	08/19/2022 12:20	CCal File	B220920A_004
Received	08/24/2022 13:10	Ending CCal File	B220920A_014
Extraction Date	09/09/2022 16:07	Blank File	B220916B_012

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.22	4.26	15		09/20/2022 12:12
PFPeA	N/A	N/A	5.06	5.11	14		09/20/2022 12:12
HFPO-DA	0.00	0.32	0.00	5.97	ND		09/20/2022 12:12
PFBS	0.44	0.38	5.87	5.92	29		09/20/2022 12:12
PFHxA	0.07	0.07	5.68	5.73	16		09/20/2022 12:12
4:2 FTS	0.00	0.77	0.00	5.49	ND		09/20/2022 12:12
PFPeS	0.47	0.41	6.54	6.58	ND		09/20/2022 12:12
PFHpA	0.34	0.30	6.26	6.31	18	J	09/20/2022 12:12
DONA	0.00	0.58	0.00	6.52	ND		09/20/2022 12:12
PFHxS	0.31	0.33	7.18	7.21	ND		09/20/2022 12:12
PFOA	0.44	0.42	6.85	6.88	67		09/20/2022 12:12
6:2 FTS	0.86	1.14	6.55	6.58	ND		09/20/2022 12:12
PFHpS	0.00	0.44	0.00	7.87	ND		09/20/2022 12:12
PFNA	0.07	0.13	7.46	7.47	ND		09/20/2022 12:12
PFOSAm	N/A	N/A	0.00	10.67	ND		09/20/2022 12:12
PFOS	0.32	0.38	8.46	8.51	ND		09/20/2022 12:12
MeFOSA	0.00	0.51	0.00	12.69	ND		09/20/2022 12:12
PFDA	0.00	0.19	0.00	8.09	ND		09/20/2022 12:12
EtFOSAm	0.00	0.53	0.00	13.12	ND		09/20/2022 12:12
8:2 FTS	0.00	1.17	0.00	7.75	ND		09/20/2022 12:12
9-Cl-PF3ON	0.00	0.05	0.00	9.00	ND		09/20/2022 12:12
PFNS	0.00	0.47	0.00	9.18	ND		09/20/2022 12:12
PFUnDA	0.00	0.14	0.00	8.74	ND		09/20/2022 12:12
NMeFOSAA	0.00	0.90	0.00	8.01	ND		09/20/2022 12:12
NEtFOSAA	0.00	0.66	0.00	8.29	ND		09/20/2022 12:12
PFDS	0.00	0.32	0.00	9.80	ND		09/20/2022 12:12
PFDOA	0.00	0.15	0.00	9.39	ND		09/20/2022 12:12
MeFOSE	N/A	N/A	0.00	12.52	ND		09/20/2022 12:12
EtFOSE	0.00	0.00	0.00	12.98	ND		09/20/2022 12:12
11-Cl-PF3OUdS	0.00	0.02	0.00	10.23	ND		09/20/2022 12:12
PFTrDA	0.00	0.14	0.00	10.00	ND		09/20/2022 12:12
PFDoS	0.00	0.39	0.00	10.95	ND		09/20/2022 12:12
PFTDA	0.00	0.22	0.00	10.59	ND		09/20/2022 12:12

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	MW-7		
Lab Sample ID	40250233005		
Lab File ID	B220920A_013	Total Amount Extracted	242mL
Matrix	Non_Potable_Water	Ical ID	220916A02
Collected	08/19/2022 12:30	CCal File	B220920A_004
Received	08/24/2022 13:10	Ending CCal File	B220920A_014
Extraction Date	09/09/2022 16:07	Blank File	B220916B_012

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	18	2.1	0.51	0.51	1	375-22-4		09/20/2022 12:32
PFPeA	18	2.1	0.85	0.85	1	2706-90-3		09/20/2022 12:32
HFPO-DA	ND	2.1	0.51	0.51	1	13252-13-6		09/20/2022 12:32
PFBS	23	1.8	0.50	0.50	1	375-73-5		09/20/2022 12:32
PFHxA	45	2.1	0.94	0.94	1	307-24-4		09/20/2022 12:32
4:2 FTS	ND	1.9	0.48	0.48	1	757124-72-4		09/20/2022 12:32
PFPeS	17	1.9	0.62	0.62	1	2706-91-4		09/20/2022 12:32
PFHpA	24	2.1	0.71	0.71	1	375-85-9		09/20/2022 12:32
DONA	ND	2.0	0.95	0.95	1	919005-14-4		09/20/2022 12:32
PFHxS	43	1.9	0.55	0.55	1	355-46-4		09/20/2022 12:32
PFOA	120	2.1	0.89	0.89	1	335-67-1		09/20/2022 12:32
6:2 FTS	ND	2.0	0.70	0.70	1	27619-97-2		09/20/2022 12:32
PFHpS	7.5	2.0	0.69	0.69	1	375-92-8		09/20/2022 12:32
PFNA	1.5 J	2.1	0.82	0.82	1	375-95-1		09/20/2022 12:32
PFOSAm	ND	2.1	0.74	0.74	1	754-91-6		09/20/2022 12:32
PFOS	48 I	1.9	0.69	0.69	1	1763-23-1		09/20/2022 12:32
MeFOSA	ND	2.1	0.57	0.57	1	31506-32-8		09/20/2022 12:32
PFDA	ND	2.1	0.63	0.63	1	335-76-2		09/20/2022 12:32
EtFOSAm	ND	2.1	0.59	0.59	1	4151-50-2		09/20/2022 12:32
8:2 FTS	ND	2.0	0.52	0.52	1	39108-34-4		09/20/2022 12:32
9-Cl-PF3ON	ND	1.9	0.48	0.48	1	756426-58-1		09/20/2022 12:32
PFNS	ND	2.0	0.60	0.60	1	68259-12-1		09/20/2022 12:32
PFUnDA	ND	2.1	0.50	0.50	1	2058-94-8		09/20/2022 12:32
NMeFOSAA	ND	2.1	0.72	0.72	1	2355-31-9		09/20/2022 12:32
NEtFOSAA	ND	2.1	0.84	0.84	1	2991-50-6		09/20/2022 12:32
PFDS	ND	2.0	0.66	0.66	1	335-77-3		09/20/2022 12:32
PFDOA	ND	2.1	0.50	0.50	1	307-55-1		09/20/2022 12:32
MeFOSE	ND	2.1	0.54	0.54	1	24448-09-7		09/20/2022 12:32
EtFOSE	ND	2.1	0.92	0.92	1	1691-99-2		09/20/2022 12:32
11-Cl-PF3OUdS	ND	1.9	0.57	0.57	1	763051-92-9		09/20/2022 12:32
PFTrDA	ND	2.1	0.64	0.64	1	72629-94-8		09/20/2022 12:32
PFDoS	ND	2.0	0.61	0.61	1	79780-39-5		09/20/2022 12:32
PFTDA	ND	2.1	0.62	0.62	1	376-06-7		09/20/2022 12:32

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Sample Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	MW-7		
Lab Sample ID	40250233005		
Lab File ID	B220920A_013	Total Amount Extracted	242mL
Matrix	Non_Potable_Water	Ical ID	220916A02
Collected	08/19/2022 12:30	CCal File	B220920A_004
Received	08/24/2022 13:10	Ending CCal File	B220920A_014
Extraction Date	09/09/2022 16:07	Blank File	B220916B_012

Injection Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2_PFHxA	21	22	108	50-150		09/20/2022 12:32
13C4_PFOA	21	22	108	50-150		09/20/2022 12:32
13C2_PFDA	21	26	127	50-150		09/20/2022 12:32
13C4_PFOS	20	21	106	50-150		09/20/2022 12:32

Extracted Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4_PFBA	21	20	97	25-150		09/20/2022 12:32
13C5_PFPeA	21	21	100	25-150		09/20/2022 12:32
13C3_PFBS	19	19	98	25-150		09/20/2022 12:32
13C2_4:2FTS	19	27	142	25-150		09/20/2022 12:32
13C5_PFHxA	21	19	93	25-150		09/20/2022 12:32
13C4_PFHpA	21	19	92	25-150		09/20/2022 12:32
13C3_PFHxS	20	18	94	25-150		09/20/2022 12:32
13C2_6:2FTS	20	20	103	25-150		09/20/2022 12:32
13C8_PFOA	21	19	92	25-150		09/20/2022 12:32
13C9_PFNA	21	20	96	25-150		09/20/2022 12:32
13C8_PFOS	20	17	88	25-150		09/20/2022 12:32
13C2_8:2FTS	20	19	98	25-150		09/20/2022 12:32
13C6_PFDA	21	22	107	25-150		09/20/2022 12:32
d3-MeFOSAA	21	14	69	25-150		09/20/2022 12:32
13C8_PFOSA	21	15	74	25-150		09/20/2022 12:32
d5-EtFOSAA	21	13	64	25-150		09/20/2022 12:32
13C7_PFUdA	21	19	94	25-150		09/20/2022 12:32
13C2_PFDoA	21	31	**152**	25-150	R	09/20/2022 12:32
13C2_PFTeDA	21	15	70	25-150		09/20/2022 12:32
13C3_HFPO-DA	21	19	91	25-150		09/20/2022 12:32
d7-N-MeFOSE	21	13	64	10-150		09/20/2022 12:32
d9-N-EtFOSE	21	13	63	10-150		09/20/2022 12:32
d3-N-MeFOSA	21	8.2	40	10-150		09/20/2022 12:32
d5-N-EtFOSA	21	8.0	39	10-150		09/20/2022 12:32

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Sample Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	MW-7		
Lab Sample ID	40250233005		
Lab File ID	B220920A_013	Total Amount Extracted	242mL
Matrix	Non_Potable_Water	Ical ID	220916A02
Collected	08/19/2022 12:30	CCal File	B220920A_004
Received	08/24/2022 13:10	Ending CCal File	B220920A_014
Extraction Date	09/09/2022 16:07	Blank File	B220916B_012

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2_PFHxA	N/A	N/A	5.68	5.72	16		09/20/2022 12:32
13C4_PFOA	N/A	N/A	6.84	6.87	21		09/20/2022 12:32
13C2_PFDA	N/A	N/A	8.06	8.08	40		09/20/2022 12:32
13C4_PFOS	N/A	N/A	8.46	8.49	28		09/20/2022 12:32

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4_PFBA	N/A	N/A	4.21	4.26	23		09/20/2022 12:32
13C5_PFPeA	N/A	N/A	5.06	5.16	17		09/20/2022 12:32
13C3_PFBS	N/A	N/A	5.87	5.90	59		09/20/2022 12:32
13C2_4:2FTS	N/A	N/A	5.44	5.47	23		09/20/2022 12:32
13C5_PFHxA	N/A	N/A	5.68	5.70	14		09/20/2022 12:32
13C4_PFHpA	N/A	N/A	6.26	6.27	17		09/20/2022 12:32
13C3_PFHxS	N/A	N/A	7.18	7.17	15		09/20/2022 12:32
13C2_6:2FTS	N/A	N/A	6.55	6.56	53		09/20/2022 12:32
13C8_PFOA	N/A	N/A	6.84	6.84	21		09/20/2022 12:32
13C9_PFNA	N/A	N/A	7.45	7.43	21		09/20/2022 12:32
13C8_PFOS	N/A	N/A	8.47	8.47	27		09/20/2022 12:32
13C2_8:2FTS	N/A	N/A	7.72	7.71	41		09/20/2022 12:32
13C6_PFDA	N/A	N/A	8.06	8.05	24		09/20/2022 12:32
d3-MeFOSAA	N/A	N/A	7.98	8.00	81		09/20/2022 12:32
13C8_PFOSA	N/A	N/A	10.61	10.64	12		09/20/2022 12:32
d5-EtFOSAA	N/A	N/A	8.26	8.27	84		09/20/2022 12:32
13C7_PFUdA	N/A	N/A	8.68	8.73	22		09/20/2022 12:32
13C2_PFDoA	N/A	N/A	9.30	9.36	16	R	09/20/2022 12:32
13C2_PFTeDA	N/A	N/A	10.51	10.57	11		09/20/2022 12:32
13C3_HFPO-DA	N/A	N/A	5.91	5.94	12		09/20/2022 12:32
d7-N-MeFOSE	N/A	N/A	12.44	12.45	28		09/20/2022 12:32
d9-N-EtFOSE	N/A	N/A	12.91	12.93	23		09/20/2022 12:32
d3-N-MeFOSA	N/A	N/A	12.64	12.64	72		09/20/2022 12:32
d5-N-EtFOSA	N/A	N/A	13.06	13.11	68		09/20/2022 12:32

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	MW-7		
Lab Sample ID	40250233005		
Lab File ID	B220920A_013	Total Amount Extracted	242mL
Matrix	Non_Potable_Water	Ical ID	220916A02
Collected	08/19/2022 12:30	CCal File	B220920A_004
Received	08/24/2022 13:10	Ending CCal File	B220920A_014
Extraction Date	09/09/2022 16:07	Blank File	B220916B_012

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.22	4.26	23		09/20/2022 12:32
PFPeA	N/A	N/A	5.07	5.11	24		09/20/2022 12:32
HFPO-DA	0.00	0.32	0.00	5.97	ND		09/20/2022 12:32
PFBS	0.45	0.38	5.87	5.92	44		09/20/2022 12:32
PFHxA	0.08	0.07	5.68	5.73	25		09/20/2022 12:32
4:2 FTS	0.00	0.77	0.00	5.49	ND		09/20/2022 12:32
PFPeS	0.42	0.41	6.54	6.58	38		09/20/2022 12:32
PFHpA	0.30	0.30	6.26	6.31	16		09/20/2022 12:32
DONA	0.00	0.58	0.00	6.52	ND		09/20/2022 12:32
PFHxS	0.35	0.33	7.19	7.21	11		09/20/2022 12:32
PFOA	0.46	0.42	6.85	6.88	29		09/20/2022 12:32
6:2 FTS	0.70	1.14	6.55	6.58	ND		09/20/2022 12:32
PFHpS	0.39	0.44	7.84	7.87	27		09/20/2022 12:32
PFNA	0.13	0.13	7.45	7.47	16	J	09/20/2022 12:32
PFOSAm	N/A	N/A	10.61	10.67	ND		09/20/2022 12:32
PFOS	0.82	0.38	8.47	8.51	57	I	09/20/2022 12:32
MeFOSA	0.00	0.51	0.00	12.69	ND		09/20/2022 12:32
PFDA	0.00	0.19	0.00	8.09	ND		09/20/2022 12:32
EtFOSAm	0.00	0.53	0.00	13.12	ND		09/20/2022 12:32
8:2 FTS	0.00	1.17	0.00	7.75	ND		09/20/2022 12:32
9-Cl-PF3ON	0.00	0.05	0.00	9.00	ND		09/20/2022 12:32
PFNS	0.00	0.47	0.00	9.18	ND		09/20/2022 12:32
PFUnDA	0.00	0.14	0.00	8.74	ND		09/20/2022 12:32
NMeFOSAA	0.00	0.90	0.00	8.01	ND		09/20/2022 12:32
NEtFOSAA	0.00	0.66	0.00	8.29	ND		09/20/2022 12:32
PFDS	0.00	0.32	0.00	9.80	ND		09/20/2022 12:32
PFDOA	0.00	0.15	0.00	9.39	ND		09/20/2022 12:32
MeFOSE	N/A	N/A	0.00	12.52	ND		09/20/2022 12:32
EtFOSE	0.00	0.00	0.00	12.98	ND		09/20/2022 12:32
11-Cl-PF3OUdS	0.00	0.02	0.00	10.23	ND		09/20/2022 12:32
PFTrDA	0.00	0.14	0.00	10.00	ND		09/20/2022 12:32
PFDoS	0.00	0.39	0.00	10.95	ND		09/20/2022 12:32
PFTDA	0.00	0.22	0.00	10.59	ND		09/20/2022 12:32

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Sample Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	FIELD BLANK		
Lab Sample ID	40250233006		
Lab File ID	Q220921B_032	Total Amount Extracted	251mL
Matrix	Non_Potable_Water	Ical ID	220920B01
Collected	08/19/2022 12:00	CCal File	Q220921B_028
Received	08/24/2022 13:10	Ending CCal File	Q220921B_039
Extraction Date	09/16/2022 13:07	Blank File	Q220921B_029

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	2.0	0.50	0.50	1	375-22-4		09/21/2022 19:16
PFPeA	ND	2.0	0.82	0.82	1	2706-90-3		09/21/2022 19:16
HFPO-DA	ND	2.0	0.49	0.49	1	13252-13-6		09/21/2022 19:16
PFBS	ND	1.8	0.48	0.48	1	375-73-5		09/21/2022 19:16
PFHxA	ND	2.0	0.91	0.91	1	307-24-4		09/21/2022 19:16
4:2 FTS	ND	1.9	0.46	0.46	1	757124-72-4		09/21/2022 19:16
PFPeS	ND	1.9	0.60	0.60	1	2706-91-4		09/21/2022 19:16
PFHpA	ND	2.0	0.69	0.69	1	375-85-9		09/21/2022 19:16
DONA	ND	1.9	0.91	0.91	1	919005-14-4		09/21/2022 19:16
PFHxS	ND	1.8	0.53	0.53	1	355-46-4		09/21/2022 19:16
PFOA	ND	2.0	0.86	0.86	1	335-67-1		09/21/2022 19:16
6:2 FTS	ND	1.9	0.67	0.67	1	27619-97-2		09/21/2022 19:16
PFHpS	ND	1.9	0.66	0.66	1	375-92-8		09/21/2022 19:16
PFNA	ND	2.0	0.79	0.79	1	375-95-1		09/21/2022 19:16
PFOSAm	ND	2.0	0.71	0.71	1	754-91-6		09/21/2022 19:16
PFOS	ND	1.8	0.66	0.66	1	1763-23-1		09/21/2022 19:16
MeFOSA	ND	2.0	0.55	0.55	1	31506-32-8		09/21/2022 19:16
PFDA	ND	2.0	0.60	0.60	1	335-76-2		09/21/2022 19:16
EtFOSAm	ND	2.0	0.57	0.57	1	4151-50-2		09/21/2022 19:16
8:2 FTS	ND	1.9	0.50	0.50	1	39108-34-4		09/21/2022 19:16
9-Cl-PF3ON	ND	1.9	0.47	0.47	1	756426-58-1		09/21/2022 19:16
PFNS	ND	1.9	0.58	0.58	1	68259-12-1		09/21/2022 19:16
PFUnDA	ND	2.0	0.48	0.48	1	2058-94-8		09/21/2022 19:16
NMeFOSAA	ND	2.0	0.69	0.69	1	2355-31-9		09/21/2022 19:16
NEtFOSAA	ND	2.0	0.81	0.81	1	2991-50-6		09/21/2022 19:16
PFDS	ND	1.9	0.64	0.64	1	335-77-3		09/21/2022 19:16
PFDOA	ND	2.0	0.48	0.48	1	307-55-1		09/21/2022 19:16
MeFOSE	ND	2.0	0.52	0.52	1	24448-09-7		09/21/2022 19:16
EtFOSE	ND	2.0	0.88	0.88	1	1691-99-2		09/21/2022 19:16
11-Cl-PF3OUdS	ND	1.9	0.55	0.55	1	763051-92-9		09/21/2022 19:16
PFTrDA	ND	2.0	0.62	0.62	1	72629-94-8		09/21/2022 19:16
PFDoS	ND	1.9	0.59	0.59	1	79780-39-5		09/21/2022 19:16
PFTDA	ND	2.0	0.60	0.60	1	376-06-7		09/21/2022 19:16

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Sample Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	FIELD BLANK		
Lab Sample ID	40250233006		
Lab File ID	Q220921B_032	Total Amount Extracted	251mL
Matrix	Non_Potable_Water	Ical ID	220920B01
Collected	08/19/2022 12:00	CCal File	Q220921B_028
Received	08/24/2022 13:10	Ending CCal File	Q220921B_039
Extraction Date	09/16/2022 13:07	Blank File	Q220921B_029

Injection Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2_PFHxA	20	25	127	50-150		09/21/2022 19:16
13C4_PFOA	20	29	148	50-150		09/21/2022 19:16
13C2_PFDA	20	29	145	50-150		09/21/2022 19:16
13C4_PFOS	19	22	117	50-150		09/21/2022 19:16

Extracted Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4_PFBA	20	25	128	25-150		09/21/2022 19:16
13C5_PFPeA	20	26	131	25-150		09/21/2022 19:16
13C3_PFBS	18	23	123	25-150		09/21/2022 19:16
13C2_4:2FTS	19	26	139	25-150		09/21/2022 19:16
13C5_PFHxA	20	27	137	25-150		09/21/2022 19:16
13C4_PFHpA	20	29	145	25-150		09/21/2022 19:16
13C3_PFHxS	19	24	126	25-150		09/21/2022 19:16
13C2_6:2FTS	19	25	131	25-150		09/21/2022 19:16
13C8_PFOA	20	26	129	25-150		09/21/2022 19:16
13C9_PFNA	20	25	124	25-150		09/21/2022 19:16
13C8_PFOS	19	24	128	25-150		09/21/2022 19:16
13C2_8:2FTS	19	24	127	25-150		09/21/2022 19:16
13C6_PFDA	20	20	98	25-150		09/21/2022 19:16
d3-MeFOSAA	20	18	92	25-150		09/21/2022 19:16
13C8_PFOSA	20	22	108	25-150		09/21/2022 19:16
d5-EtFOSAA	20	19	95	25-150		09/21/2022 19:16
13C7_PFUdA	20	25	125	25-150		09/21/2022 19:16
13C2_PFDoA	20	22	110	25-150		09/21/2022 19:16
13C2_PFTeDA	20	23	115	25-150		09/21/2022 19:16
13C3_HFPO-DA	20	28	142	25-150		09/21/2022 19:16
d7-N-MeFOSE	20	18	92	10-150		09/21/2022 19:16
d9-N-EtFOSE	20	17	86	10-150		09/21/2022 19:16
d3-N-MeFOSA	20	15	73	10-150		09/21/2022 19:16
d5-N-EtFOSA	20	16	81	10-150		09/21/2022 19:16

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	FIELD BLANK		
Lab Sample ID	40250233006		
Lab File ID	Q220921B_032	Total Amount Extracted	251mL
Matrix	Non_Potable_Water	Ical ID	220920B01
Collected	08/19/2022 12:00	CCal File	Q220921B_028
Received	08/24/2022 13:10	Ending CCal File	Q220921B_039
Extraction Date	09/16/2022 13:07	Blank File	Q220921B_029

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2_PFHxA	N/A	N/A	6.51	6.47	10		09/21/2022 19:16
13C4_PFOA	N/A	N/A	7.76	7.72	57		09/21/2022 19:16
13C2_PFDA	N/A	N/A	9.06	9.02	33		09/21/2022 19:16
13C4_PFOS	N/A	N/A	9.49	9.46	23		09/21/2022 19:16

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4_PFBA	N/A	N/A	5.05	5.07	18		09/21/2022 19:16
13C5_PFPeA	N/A	N/A	5.87	5.85	18		09/21/2022 19:16
13C3_PFBS	N/A	N/A	6.73	6.71	12		09/21/2022 19:16
13C2_4:2FTS	N/A	N/A	6.25	6.22	85		09/21/2022 19:16
13C5_PFHxA	N/A	N/A	6.51	6.48	10		09/21/2022 19:16
13C4_PFHpA	N/A	N/A	7.14	7.10	12		09/21/2022 19:16
13C3_PFHxS	N/A	N/A	8.13	8.10	11		09/21/2022 19:16
13C2_6:2FTS	N/A	N/A	7.44	7.40	21		09/21/2022 19:16
13C8_PFOA	N/A	N/A	7.76	7.72	14		09/21/2022 19:16
13C9_PFNA	N/A	N/A	8.41	8.36	20		09/21/2022 19:16
13C8_PFOS	N/A	N/A	9.49	9.46	33		09/21/2022 19:16
13C2_8:2FTS	N/A	N/A	8.70	8.65	13		09/21/2022 19:16
13C6_PFDA	N/A	N/A	9.06	9.02	29		09/21/2022 19:16
d3-MeFOSAA	N/A	N/A	8.96	8.91	33		09/21/2022 19:16
13C8_PFOSA	N/A	N/A	11.48	11.46	11		09/21/2022 19:16
d5-EtFOSAA	N/A	N/A	9.26	9.21	20		09/21/2022 19:16
13C7_PFUdA	N/A	N/A	9.72	9.68	37		09/21/2022 19:16
13C2_PFDoA	N/A	N/A	10.39	10.35	95		09/21/2022 19:16
13C2_PFTeDA	N/A	N/A	11.67	11.64	62		09/21/2022 19:16
13C3_HFPO-DA	N/A	N/A	6.77	6.73	32		09/21/2022 19:16
d7-N-MeFOSE	N/A	N/A	13.32	13.29	55		09/21/2022 19:16
d9-N-EtFOSE	N/A	N/A	13.81	13.78	40		09/21/2022 19:16
d3-N-MeFOSA	N/A	N/A	13.52	13.49	32		09/21/2022 19:16
d5-N-EtFOSA	N/A	N/A	13.97	13.94	74		09/21/2022 19:16

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	FIELD BLANK		
Lab Sample ID	40250233006		
Lab File ID	Q220921B_032	Total Amount Extracted	251mL
Matrix	Non_Potable_Water	Ical ID	220920B01
Collected	08/19/2022 12:00	CCal File	Q220921B_028
Received	08/24/2022 13:10	Ending CCal File	Q220921B_039
Extraction Date	09/16/2022 13:07	Blank File	Q220921B_029

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	5.06	5.08	ND		09/21/2022 19:16
PFPeA	N/A	N/A	5.87	5.85	ND		09/21/2022 19:16
HFPO-DA	0.00	0.52	0.00	6.75	ND		09/21/2022 19:16
PFBS	0.34	0.36	6.74	6.72	ND		09/21/2022 19:16
PFHxA	0.09	0.08	6.51	6.48	ND		09/21/2022 19:16
4:2 FTS	0.00	0.95	0.00	6.23	ND		09/21/2022 19:16
PFPeS	0.00	0.28	0.00	7.39	ND		09/21/2022 19:16
PFHpA	0.36	0.27	7.15	7.10	ND		09/21/2022 19:16
DONA	0.00	0.57	0.00	7.33	ND		09/21/2022 19:16
PFHxS	0.59	0.42	8.13	8.11	ND		09/21/2022 19:16
PFOA	0.41	0.39	7.78	7.73	ND		09/21/2022 19:16
6:2 FTS	0.00	0.90	0.00	7.36	ND		09/21/2022 19:16
PFHpS	0.00	0.29	0.00	8.80	ND		09/21/2022 19:16
PFNA	0.00	0.36	0.00	8.36	ND		09/21/2022 19:16
PFOSAm	N/A	N/A	11.46	11.47	ND		09/21/2022 19:16
PFOS	0.43	0.30	9.50	9.47	ND		09/21/2022 19:16
MeFOSA	0.00	0.87	0.00	13.51	ND		09/21/2022 19:16
PFDA	0.00	0.13	0.00	9.03	ND		09/21/2022 19:16
EtFOSAm	0.00	0.37	0.00	13.97	ND		09/21/2022 19:16
8:2 FTS	0.00	1.20	0.00	8.57	ND		09/21/2022 19:16
9-Cl-PF3ON	0.00	0.02	0.00	9.96	ND		09/21/2022 19:16
PFNS	0.00	0.23	0.00	10.15	ND		09/21/2022 19:16
PFUnDA	0.00	0.07	0.00	9.69	ND		09/21/2022 19:16
NMeFOSAA	0.00	0.84	0.00	8.93	ND		09/21/2022 19:16
NEtFOSAA	0.00	1.10	0.00	9.13	ND		09/21/2022 19:16
PFDS	0.00	0.28	0.00	10.80	ND		09/21/2022 19:16
PFDOA	0.00	0.14	0.00	10.35	ND		09/21/2022 19:16
MeFOSE	N/A	N/A	0.00	13.33	ND		09/21/2022 19:16
EtFOSE	0.00	0.00	0.00	13.81	ND		09/21/2022 19:16
11-Cl-PF3OUdS	0.00	0.01	0.00	11.27	ND		09/21/2022 19:16
PFTrDA	0.00	0.23	0.00	11.01	ND		09/21/2022 19:16
PFDoS	0.00	0.33	0.00	12.02	ND		09/21/2022 19:16
PFTDA	0.00	0.15	0.00	11.65	ND		09/21/2022 19:16

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Method Blank Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	BLKFK		
Lab Sample ID	BLANK-101116		
Lab File ID	B220916B_012	Total Amount Extracted	250mL
Matrix	Water	Ical ID	220916A02
Collected	09/08/2022 15:33	CCal File	B220916B_002
Received	09/08/2022 15:33	Ending CCal File	B220916B_014
Extraction Date	09/09/2022 16:07	Blank File	

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	2.0	0.50	0.50	1	375-22-4		09/16/2022 17:12
PFPeA	ND	2.0	0.82	0.82	1	2706-90-3		09/16/2022 17:12
HFPO-DA	ND	2.0	0.49	0.49	1	13252-13-6		09/16/2022 17:12
PFBS	ND	1.8	0.48	0.48	1	375-73-5		09/16/2022 17:12
PFHxA	ND	2.0	0.91	0.91	1	307-24-4		09/16/2022 17:12
4:2 FTS	ND	1.9	0.47	0.47	1	757124-72-4		09/16/2022 17:12
PFPeS	ND	1.9	0.60	0.60	1	2706-91-4		09/16/2022 17:12
PFHpA	ND	2.0	0.69	0.69	1	375-85-9		09/16/2022 17:12
DONA	ND	1.9	0.92	0.92	1	919005-14-4		09/16/2022 17:12
PFHxS	ND	1.8	0.53	0.53	1	355-46-4		09/16/2022 17:12
PFOA	ND	2.0	0.86	0.86	1	335-67-1		09/16/2022 17:12
6:2 FTS	ND	1.9	0.68	0.68	1	27619-97-2		09/16/2022 17:12
PFHpS	ND	1.9	0.67	0.67	1	375-92-8		09/16/2022 17:12
PFNA	ND	2.0	0.79	0.79	1	375-95-1		09/16/2022 17:12
PFOSAm	ND	2.0	0.72	0.72	1	754-91-6		09/16/2022 17:12
PFOS	ND	1.8	0.67	0.67	1	1763-23-1		09/16/2022 17:12
MeFOSA	ND	2.0	0.55	0.55	1	31506-32-8		09/16/2022 17:12
PFDA	ND	2.0	0.61	0.61	1	335-76-2		09/16/2022 17:12
EtFOSAm	ND	2.0	0.57	0.57	1	4151-50-2		09/16/2022 17:12
8:2 FTS	ND	1.9	0.50	0.50	1	39108-34-4		09/16/2022 17:12
9-Cl-PF3ON	ND	1.9	0.47	0.47	1	756426-58-1		09/16/2022 17:12
PFNS	ND	1.9	0.59	0.59	1	68259-12-1		09/16/2022 17:12
PFUnDA	ND	2.0	0.48	0.48	1	2058-94-8		09/16/2022 17:12
NMeFOSAA	ND	2.0	0.69	0.69	1	2355-31-9		09/16/2022 17:12
NEtFOSAA	ND	2.0	0.81	0.81	1	2991-50-6		09/16/2022 17:12
PFDS	ND	1.9	0.64	0.64	1	335-77-3		09/16/2022 17:12
PFDOA	ND	2.0	0.48	0.48	1	307-55-1		09/16/2022 17:12
MeFOSE	ND	2.0	0.52	0.52	1	24448-09-7		09/16/2022 17:12
EtFOSE	ND	2.0	0.89	0.89	1	1691-99-2		09/16/2022 17:12
11-Cl-PF3OUdS	ND	1.9	0.56	0.56	1	763051-92-9		09/16/2022 17:12
PFTrDA	ND	2.0	0.62	0.62	1	72629-94-8		09/16/2022 17:12
PFDoS	ND	1.9	0.59	0.59	1	79780-39-5		09/16/2022 17:12
PFTDA	ND	2.0	0.60	0.60	1	376-06-7		09/16/2022 17:12

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Method Blank Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	BLKFK		
Lab Sample ID	BLANK-101116		
Lab File ID	B220916B_012	Total Amount Extracted	250mL
Matrix	Water	Ical ID	220916A02
Collected	09/08/2022 15:33	CCal File	B220916B_002
Received	09/08/2022 15:33	Ending CCal File	B220916B_014
Extraction Date	09/09/2022 16:07	Blank File	

Injection Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2_PFHxA	20	22	109	50-150		09/16/2022 17:12
13C4_PFOA	20	23	115	50-150		09/16/2022 17:12
13C2_PFDA	20	24	120	50-150		09/16/2022 17:12
13C4_PFOS	19	22	116	50-150		09/16/2022 17:12

Extracted Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4_PFBA	20	22	112	50-150		09/16/2022 17:12
13C5_PFPeA	20	22	112	50-150		09/16/2022 17:12
13C3_PFBS	19	19	102	50-150		09/16/2022 17:12
13C2_4:2FTS	19	20	109	50-150		09/16/2022 17:12
13C5_PFHxA	20	21	103	50-150		09/16/2022 17:12
13C4_PFHpA	20	19	97	50-150		09/16/2022 17:12
13C3_PFHxS	19	19	100	50-150		09/16/2022 17:12
13C2_6:2FTS	19	21	111	50-150		09/16/2022 17:12
13C8_PFOA	20	21	106	50-150		09/16/2022 17:12
13C9_PFNA	20	20	98	50-150		09/16/2022 17:12
13C8_PFOS	19	18	92	50-150		09/16/2022 17:12
13C2_8:2FTS	19	16	81	50-150		09/16/2022 17:12
13C6_PFDA	20	19	95	50-150		09/16/2022 17:12
d3-MeFOSAA	20	14	72	50-150		09/16/2022 17:12
13C8_PFOSA	20	12	61	50-150		09/16/2022 17:12
d5-EtFOSAA	20	15	73	50-150		09/16/2022 17:12
13C7_PFUdA	20	16	80	50-150		09/16/2022 17:12
13C2_PFDoA	20	26	132	50-150		09/16/2022 17:12
13C2_PFTeDA	20	16	80	50-150		09/16/2022 17:12
13C3_HFPO-DA	20	21	106	50-150		09/16/2022 17:12
d7-N-MeFOSE	20	7.7	39	20-150		09/16/2022 17:12
d9-N-EtFOSE	20	8.7	44	20-150		09/16/2022 17:12
d3-N-MeFOSA	20	7.0	35	20-150		09/16/2022 17:12
d5-N-EtFOSA	20	6.4	32	20-150		09/16/2022 17:12

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Method Blank Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	BLKFK		
Lab Sample ID	BLANK-101116		
Lab File ID	B220916B_012	Total Amount Extracted	250mL
Matrix	Water	Ical ID	220916A02
Collected	09/08/2022 15:33	CCal File	B220916B_002
Received	09/08/2022 15:33	Ending CCal File	B220916B_014
Extraction Date	09/09/2022 16:07	Blank File	

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2_PFHxA	N/A	N/A	5.71	5.72	20		09/16/2022 17:12
13C4_PFOA	N/A	N/A	6.87	6.87	25		09/16/2022 17:12
13C2_PFDA	N/A	N/A	8.07	8.08	23		09/16/2022 17:12
13C4_PFOS	N/A	N/A	8.50	8.49	21		09/16/2022 17:12

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4_PFBA	N/A	N/A	4.26	4.26	29		09/16/2022 17:12
13C5_PFPeA	N/A	N/A	5.09	5.10	27		09/16/2022 17:12
13C3_PFBS	N/A	N/A	5.91	5.90	17		09/16/2022 17:12
13C2_4:2FTS	N/A	N/A	5.47	5.47	55		09/16/2022 17:12
13C5_PFHxA	N/A	N/A	5.71	5.70	19		09/16/2022 17:12
13C4_PFHpA	N/A	N/A	6.29	6.27	19		09/16/2022 17:12
13C3_PFHxS	N/A	N/A	7.20	7.17	22		09/16/2022 17:12
13C2_6:2FTS	N/A	N/A	6.58	6.56	28		09/16/2022 17:12
13C8_PFOA	N/A	N/A	6.87	6.84	32		09/16/2022 17:12
13C9_PFNA	N/A	N/A	7.46	7.43	16		09/16/2022 17:12
13C8_PFOS	N/A	N/A	8.51	8.47	28		09/16/2022 17:12
13C2_8:2FTS	N/A	N/A	7.74	7.71	31		09/16/2022 17:12
13C6_PFDA	N/A	N/A	8.07	8.05	18		09/16/2022 17:12
d3-MeFOSAA	N/A	N/A	7.99	8.33	11		09/16/2022 17:12
13C8_PFOSA	N/A	N/A	10.65	10.64	10		09/16/2022 17:12
d5-EtFOSAA	N/A	N/A	8.27	8.27	15		09/16/2022 17:12
13C7_PFUdA	N/A	N/A	8.72	8.73	19		09/16/2022 17:12
13C2_PFDoA	N/A	N/A	9.35	9.36	19		09/16/2022 17:12
13C2_PFTeDA	N/A	N/A	10.57	10.57	96		09/16/2022 17:12
13C3_HFPO-DA	N/A	N/A	5.95	5.94	14		09/16/2022 17:12
d7-N-MeFOSE	N/A	N/A	12.48	12.45	28		09/16/2022 17:12
d9-N-EtFOSE	N/A	N/A	12.95	12.93	27		09/16/2022 17:12
d3-N-MeFOSA	N/A	N/A	12.69	12.75	61		09/16/2022 17:12
d5-N-EtFOSA	N/A	N/A	13.11	13.10	67		09/16/2022 17:12

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Method Blank Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	BLKFK		
Lab Sample ID	BLANK-101116		
Lab File ID	B220916B_012	Total Amount Extracted	250mL
Matrix	Water	Ical ID	220916A02
Collected	09/08/2022 15:33	CCal File	B220916B_002
Received	09/08/2022 15:33	Ending CCal File	B220916B_014
Extraction Date	09/09/2022 16:07	Blank File	

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.26	4.26	ND		09/16/2022 17:12
PFPeA	N/A	N/A	5.10	5.11	ND		09/16/2022 17:12
HFPO-DA	0.00	0.28	0.00	5.97	ND		09/16/2022 17:12
PFBS	0.53	0.44	5.92	5.92	ND		09/16/2022 17:12
PFHxA	0.00	0.08	0.00	5.73	ND		09/16/2022 17:12
4:2 FTS	0.00	1.00	0.00	5.49	ND		09/16/2022 17:12
PFPeS	0.00	0.42	0.00	6.58	ND		09/16/2022 17:12
PFHpA	0.33	0.30	6.30	6.31	ND		09/16/2022 17:12
DONA	0.00	0.52	0.00	6.52	ND		09/16/2022 17:12
PFHxS	0.60	0.36	7.21	7.21	ND		09/16/2022 17:12
PFOA	0.00	0.40	0.00	6.88	ND		09/16/2022 17:12
6:2 FTS	0.77	0.93	6.59	6.58	ND		09/16/2022 17:12
PFHpS	0.00	0.41	0.00	7.87	ND		09/16/2022 17:12
PFNA	0.00	0.11	0.00	7.47	ND		09/16/2022 17:12
PFOSAm	N/A	N/A	0.00	10.67	ND		09/16/2022 17:12
PFOS	0.30	0.36	8.51	8.51	ND		09/16/2022 17:12
MeFOSA	0.00	0.51	0.00	12.69	ND		09/16/2022 17:12
PFDA	0.00	0.21	0.00	8.09	ND		09/16/2022 17:12
EtFOSAm	0.00	0.53	0.00	13.12	ND		09/16/2022 17:12
8:2 FTS	0.00	0.90	0.00	7.75	ND		09/16/2022 17:12
9-Cl-PF3ON	0.00	0.06	0.00	9.00	ND		09/16/2022 17:12
PFNS	0.00	0.44	0.00	9.18	ND		09/16/2022 17:12
PFUnDA	0.00	0.13	0.00	8.74	ND		09/16/2022 17:12
NMeFOSAA	0.00	0.91	0.00	8.01	ND		09/16/2022 17:12
NEtFOSAA	0.00	0.63	0.00	8.29	ND		09/16/2022 17:12
PFDS	0.00	0.36	0.00	9.80	ND		09/16/2022 17:12
PFDOA	0.00	0.14	0.00	9.39	ND		09/16/2022 17:12
MeFOSE	N/A	N/A	0.00	12.52	ND		09/16/2022 17:12
EtFOSE	0.00	0.00	0.00	12.98	ND		09/16/2022 17:12
11-Cl-PF3OUdS	0.00	0.02	0.00	10.23	ND		09/16/2022 17:12
PFTrDA	0.00	0.14	0.00	10.00	ND		09/16/2022 17:12
PFDoS	0.00	0.43	0.00	10.95	ND		09/16/2022 17:12
PFTDA	0.00	0.27	0.00	10.59	ND		09/16/2022 17:12

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	BLKFS		
Lab Sample ID	BLANK-101134		
Lab File ID	Q220921B_029	Total Amount Extracted	250mL
Matrix	Water	Ical ID	220920B01
Collected	09/09/2022 19:12	CCal File	Q220921B_028
Received	09/09/2022 19:12	Ending CCal File	Q220921B_039
Extraction Date	09/16/2022 13:07	Blank File	

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	2.0	0.50	0.50	1	375-22-4		09/21/2022 18:20
PFPeA	ND	2.0	0.82	0.82	1	2706-90-3		09/21/2022 18:20
HFPO-DA	ND	2.0	0.49	0.49	1	13252-13-6		09/21/2022 18:20
PFBS	ND	1.8	0.48	0.48	1	375-73-5		09/21/2022 18:20
PFHxA	ND	2.0	0.91	0.91	1	307-24-4		09/21/2022 18:20
4:2 FTS	ND	1.9	0.47	0.47	1	757124-72-4		09/21/2022 18:20
PFPeS	ND	1.9	0.60	0.60	1	2706-91-4		09/21/2022 18:20
PFHpA	ND	2.0	0.69	0.69	1	375-85-9		09/21/2022 18:20
DONA	ND	1.9	0.92	0.92	1	919005-14-4		09/21/2022 18:20
PFHxS	ND	1.8	0.53	0.53	1	355-46-4		09/21/2022 18:20
PFOA	ND	2.0	0.86	0.86	1	335-67-1		09/21/2022 18:20
6:2 FTS	ND	1.9	0.68	0.68	1	27619-97-2		09/21/2022 18:20
PFHpS	ND	1.9	0.67	0.67	1	375-92-8		09/21/2022 18:20
PFNA	ND	2.0	0.79	0.79	1	375-95-1		09/21/2022 18:20
PFOSAm	ND	2.0	0.72	0.72	1	754-91-6		09/21/2022 18:20
PFOS	ND	1.8	0.67	0.67	1	1763-23-1		09/21/2022 18:20
MeFOSA	ND	2.0	0.55	0.55	1	31506-32-8		09/21/2022 18:20
PFDA	ND	2.0	0.61	0.61	1	335-76-2		09/21/2022 18:20
EtFOSAm	ND	2.0	0.57	0.57	1	4151-50-2		09/21/2022 18:20
8:2 FTS	ND	1.9	0.50	0.50	1	39108-34-4		09/21/2022 18:20
9-Cl-PF3ON	ND	1.9	0.47	0.47	1	756426-58-1		09/21/2022 18:20
PFNS	ND	1.9	0.59	0.59	1	68259-12-1		09/21/2022 18:20
PFUnDA	ND	2.0	0.48	0.48	1	2058-94-8		09/21/2022 18:20
NMeFOSAA	ND	2.0	0.69	0.69	1	2355-31-9		09/21/2022 18:20
NEtFOSAA	ND	2.0	0.81	0.81	1	2991-50-6		09/21/2022 18:20
PFDS	ND	1.9	0.64	0.64	1	335-77-3		09/21/2022 18:20
PFDOA	ND	2.0	0.48	0.48	1	307-55-1		09/21/2022 18:20
MeFOSE	ND	2.0	0.52	0.52	1	24448-09-7		09/21/2022 18:20
EtFOSE	ND	2.0	0.89	0.89	1	1691-99-2		09/21/2022 18:20
11-Cl-PF3OUdS	ND	1.9	0.56	0.56	1	763051-92-9		09/21/2022 18:20
PFTrDA	ND	2.0	0.62	0.62	1	72629-94-8		09/21/2022 18:20
PFDoS	ND	1.9	0.59	0.59	1	79780-39-5		09/21/2022 18:20
PFTDA	ND	2.0	0.60	0.60	1	376-06-7		09/21/2022 18:20

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Method Blank Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	BLKFS		
Lab Sample ID	BLANK-101134		
Lab File ID	Q220921B_029	Total Amount Extracted	250mL
Matrix	Water	Ical ID	220920B01
Collected	09/09/2022 19:12	CCal File	Q220921B_028
Received	09/09/2022 19:12	Ending CCal File	Q220921B_039
Extraction Date	09/16/2022 13:07	Blank File	

Injection Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2_PFHxA	20	27	135	50-150		09/21/2022 18:20
13C4_PFOA	20	25	125	50-150		09/21/2022 18:20
13C2_PFDA	20	25	126	50-150		09/21/2022 18:20
13C4_PFOS	19	23	119	50-150		09/21/2022 18:20

Extracted Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4_PFBA	20	22	111	50-150		09/21/2022 18:20
13C5_PFPeA	20	24	118	50-150		09/21/2022 18:20
13C3_PFBS	19	20	110	50-150		09/21/2022 18:20
13C2_4:2FTS	19	23	122	50-150		09/21/2022 18:20
13C5_PFHxA	20	21	105	50-150		09/21/2022 18:20
13C4_PFHpA	20	22	111	50-150		09/21/2022 18:20
13C3_PFHxS	19	22	119	50-150		09/21/2022 18:20
13C2_6:2FTS	19	24	125	50-150		09/21/2022 18:20
13C8_PFOA	20	24	120	50-150		09/21/2022 18:20
13C9_PFNA	20	21	105	50-150		09/21/2022 18:20
13C8_PFOS	19	18	94	50-150		09/21/2022 18:20
13C2_8:2FTS	19	18	95	50-150		09/21/2022 18:20
13C6_PFDA	20	16	80	50-150		09/21/2022 18:20
d3-MeFOSAA	20	13	67	50-150		09/21/2022 18:20
13C8_PFOSA	20	14	68	50-150		09/21/2022 18:20
d5-EtFOSAA	20	15	77	50-150		09/21/2022 18:20
13C7_PFUdA	20	15	75	50-150		09/21/2022 18:20
13C2_PFDoA	20	15	77	50-150		09/21/2022 18:20
13C2_PFTeDA	20	14	68	50-150		09/21/2022 18:20
13C3_HFPO-DA	20	22	112	50-150		09/21/2022 18:20
d7-N-MeFOSE	20	9.1	45	20-150		09/21/2022 18:20
d9-N-EtFOSE	20	7.0	35	20-150		09/21/2022 18:20
d3-N-MeFOSA	20	2.7	14	20-150	R	09/21/2022 18:20
d5-N-EtFOSA	20	2.7	13	20-150	R	09/21/2022 18:20

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Method Blank Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	BLKFS		
Lab Sample ID	BLANK-101134		
Lab File ID	Q220921B_029	Total Amount Extracted	250mL
Matrix	Water	Ical ID	220920B01
Collected	09/09/2022 19:12	CCal File	Q220921B_028
Received	09/09/2022 19:12	Ending CCal File	Q220921B_039
Extraction Date	09/16/2022 13:07	Blank File	

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2_PFHxA	N/A	N/A	6.50	6.47	16		09/21/2022 18:20
13C4_PFOA	N/A	N/A	7.76	7.72	13		09/21/2022 18:20
13C2_PFDA	N/A	N/A	9.06	9.02	13		09/21/2022 18:20
13C4_PFOS	N/A	N/A	9.49	9.46	87		09/21/2022 18:20

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4_PFBA	N/A	N/A	5.05	5.07	16		09/21/2022 18:20
13C5_PFPeA	N/A	N/A	5.86	5.85	19		09/21/2022 18:20
13C3_PFBS	N/A	N/A	6.72	6.71	85		09/21/2022 18:20
13C2_4:2FTS	N/A	N/A	6.24	6.22	11		09/21/2022 18:20
13C5_PFHxA	N/A	N/A	6.51	6.48	11		09/21/2022 18:20
13C4_PFHpA	N/A	N/A	7.13	7.10	97		09/21/2022 18:20
13C3_PFHxS	N/A	N/A	8.13	8.10	13		09/21/2022 18:20
13C2_6:2FTS	N/A	N/A	7.44	7.40	35		09/21/2022 18:20
13C8_PFOA	N/A	N/A	7.76	7.72	20		09/21/2022 18:20
13C9_PFNA	N/A	N/A	8.41	8.36	31		09/21/2022 18:20
13C8_PFOS	N/A	N/A	9.49	9.46	23		09/21/2022 18:20
13C2_8:2FTS	N/A	N/A	8.70	8.65	22		09/21/2022 18:20
13C6_PFDA	N/A	N/A	9.06	9.02	82		09/21/2022 18:20
d3-MeFOSAA	N/A	N/A	8.96	8.91	17		09/21/2022 18:20
13C8_PFOSA	N/A	N/A	11.48	11.46	15		09/21/2022 18:20
d5-EtFOSAA	N/A	N/A	9.26	9.21	38		09/21/2022 18:20
13C7_PFUdA	N/A	N/A	9.72	9.68	31		09/21/2022 18:20
13C2_PFDoA	N/A	N/A	10.38	10.35	85		09/21/2022 18:20
13C2_PFTeDA	N/A	N/A	11.67	11.64	68		09/21/2022 18:20
13C3_HFPO-DA	N/A	N/A	6.76	6.73	35		09/21/2022 18:20
d7-N-MeFOSE	N/A	N/A	13.32	13.29	35		09/21/2022 18:20
d9-N-EtFOSE	N/A	N/A	13.80	13.78	18		09/21/2022 18:20
d3-N-MeFOSA	N/A	N/A	13.51	13.49	45	R	09/21/2022 18:20
d5-N-EtFOSA	N/A	N/A	13.97	13.94	12	R	09/21/2022 18:20

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Method Blank Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	BLKFS		
Lab Sample ID	BLANK-101134		
Lab File ID	Q220921B_029	Total Amount Extracted	250mL
Matrix	Water	Ical ID	220920B01
Collected	09/09/2022 19:12	CCal File	Q220921B_028
Received	09/09/2022 19:12	Ending CCal File	Q220921B_039
Extraction Date	09/16/2022 13:07	Blank File	

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	5.06	5.08	ND		09/21/2022 18:20
PFPeA	N/A	N/A	5.86	5.85	ND		09/21/2022 18:20
HFPO-DA	0.00	0.52	0.00	6.75	ND		09/21/2022 18:20
PFBS	0.33	0.36	6.73	6.72	ND		09/21/2022 18:20
PFHxA	0.00	0.08	6.51	6.48	ND		09/21/2022 18:20
4:2 FTS	0.00	0.95	0.00	6.23	ND		09/21/2022 18:20
PFPeS	0.00	0.28	0.00	7.39	ND		09/21/2022 18:20
PFHpA	0.44	0.27	7.14	7.10	ND		09/21/2022 18:20
DONA	0.00	0.57	0.00	7.33	ND		09/21/2022 18:20
PFHxS	0.00	0.42	0.00	8.11	ND		09/21/2022 18:20
PFOA	0.00	0.39	0.00	7.73	ND		09/21/2022 18:20
6:2 FTS	1.00	0.90	7.44	7.36	ND		09/21/2022 18:20
PFHpS	0.00	0.29	0.00	8.80	ND		09/21/2022 18:20
PFNA	0.00	0.36	0.00	8.36	ND		09/21/2022 18:20
PFOSAm	N/A	N/A	11.50	11.47	ND		09/21/2022 18:20
PFOS	0.00	0.30	0.00	9.47	ND		09/21/2022 18:20
MeFOSA	0.00	0.87	0.00	13.51	ND		09/21/2022 18:20
PFDA	0.00	0.13	0.00	9.03	ND		09/21/2022 18:20
EtFOSAm	0.00	0.37	0.00	13.97	ND		09/21/2022 18:20
8:2 FTS	0.00	1.20	0.00	8.57	ND		09/21/2022 18:20
9-Cl-PF3ON	0.00	0.02	0.00	9.96	ND		09/21/2022 18:20
PFNS	0.00	0.23	0.00	10.15	ND		09/21/2022 18:20
PFUnDA	0.00	0.07	0.00	9.69	ND		09/21/2022 18:20
NMeFOSAA	0.00	0.84	0.00	8.93	ND		09/21/2022 18:20
NEtFOSAA	0.00	1.10	0.00	9.13	ND		09/21/2022 18:20
PFDS	0.00	0.28	0.00	10.80	ND		09/21/2022 18:20
PFDOA	0.00	0.14	0.00	10.35	ND		09/21/2022 18:20
MeFOSE	N/A	N/A	0.00	13.33	ND		09/21/2022 18:20
EtFOSE	0.00	0.00	0.00	13.81	ND		09/21/2022 18:20
11-Cl-PF3OUdS	0.00	0.01	0.00	11.27	ND		09/21/2022 18:20
PFTrDA	0.00	0.23	0.00	11.01	ND		09/21/2022 18:20
PFDoS	0.00	0.33	0.00	12.02	ND		09/21/2022 18:20
PFTDA	0.00	0.15	0.00	11.65	ND		09/21/2022 18:20

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LCS Analysis Summary

PFAS by Isotope Dilution

Lab Sample ID	LCS-101117	Instrument ID	10LCMS02
Run File Name	B220916B_013	Column ID	125GA90033
Analyzed	09/16/2022 17:32	Ical ID	220916A02
Injected By	NH	Level	L

Injection Internal Standards

Compound	Known Conc. ng/L	Conc. Found ng/L	%Recovery	Recovery Limits	Qualifiers
13C2_PFHxA	20	22	111	50-150	
13C4_PFOA	20	22	112	50-150	
13C2_PFDA	20	22	110	50-150	
13C4_PFOS	19	22	115	50-150	

Extracted Internal Standards

Compound	Known Conc. ng/L	Conc. Found ng/L	%Recovery	Recovery Limits	Qualifiers
13C4_PFBA	20	21	105	50-150	
13C5_PFPeA	20	22	109	50-150	
13C3_PFBS	19	18	98	50-150	
13C2_4:2FTS	19	19	101	50-150	
13C5_PFHxA	20	22	108	50-150	
13C4_PFHpA	20	21	105	50-150	
13C3_PFHxS	19	18	95	50-150	
13C2_6:2FTS	19	18	94	50-150	
13C8_PFOA	20	20	98	50-150	
13C9_PFNA	20	19	95	50-150	
13C8_PFOS	19	17	90	50-150	
13C2_8:2FTS	19	15	79	50-150	
13C6_PFDA	20	20	98	50-150	
d3-MeFOSAA	20	14	68	50-150	
13C8_PFOSA	20	13	65	50-150	
d5-EtFOSAA	20	14	68	50-150	
13C7_PFUdA	20	17	83	50-150	
13C2_PFDoA	20	22	108	50-150	
13C2_PFTeDA	20	13	66	50-150	
13C3_HFPO-DA	20	18	91	50-150	
d7-N-MeFOSE	20	8.7	44	20-150	
d9-N-EtFOSE	20	8.5	42	20-150	
d3-N-MeFOSA	20	4.5	23	20-150	
d5-N-EtFOSA	20	4.1	21	20-150	

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LCS Analysis Summary

PFAS by Isotope Dilution

Lab Sample ID	LCS-101117	Instrument ID	10LCMS02
Run File Name	B220916B_013	Column ID	125GA90033
Analyzed	09/16/2022 17:32	Ical ID	220916A02
Injected By	NH	Level	L

Native Analytes

Compound	Known Conc. ng/L	Conc. Found ng/L	%Recovery	Recovery Limits	Qualifiers	CAS No.
PFBA	4.0	4.4	109	50-150		375-22-4
PFPeA	4.0	4.4	110	50-150		2706-90-3
HFPO-DA	4.0	4.6	116	50-150		13252-13-6
PFBS	3.5	3.6	102	50-150		375-73-5
PFHxA	4.0	4.2	104	50-150		307-24-4
4:2 FTS	3.7	3.7	99	50-150		757124-72-4
PFPeS	3.8	4.1	110	50-150		2706-91-4
PFHpA	4.0	4.0	101	50-150		375-85-9
DONA	3.8	3.9	103	50-150		919005-14-4
PFHxS	3.6	3.9	107	50-150		355-46-4
PFOA	4.0	4.6	115	50-150		335-67-1
6:2 FTS	3.8	4.1	109	50-150		27619-97-2
PFHpS	3.8	4.2	111	50-150		375-92-8
PFNA	4.0	4.0	99	50-150		375-95-1
PFOSAm	4.0	3.9	98	50-150		754-91-6
PFOS	3.7	3.5	95	50-150		1763-23-1
MeFOSA	4.0	3.3	82	50-150		31506-32-8
PFDA	4.0	3.6	89	50-150		335-76-2
EtFOSAm	4.0	3.3	83	50-150		4151-50-2
8:2 FTS	3.8	3.9	102	50-150		39108-34-4
9-Cl-PF3ON	3.7	3.6	98	50-150		756426-58-1
PFNS	3.8	3.5	92	50-150		68259-12-1
PFUnDA	4.0	3.9	97	50-150		2058-94-8
NMeFOSAA	4.0	4.1	101	50-150		2355-31-9
NEtFOSAA	4.0	3.7	93	50-150		2991-50-6
PFDS	3.9	3.3	85	50-150		335-77-3
PFDOA	4.0	4.0	99	50-150		307-55-1
MeFOSE	4.0	3.6	91	50-150		24448-09-7
EtFOSE	4.0	3.6	91	50-150		1691-99-2
11-Cl-PF3OUdS	3.8	3.2	86	50-150		763051-92-9
PFTrDA	4.0	3.4	84	50-150		72629-94-8
PFDoS	3.9	3.1	81	50-150		79780-39-5
PFTDA	4.0	4.1	104	50-150		376-06-7

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LCS Analysis Summary

PFAS by Isotope Dilution

Lab Sample ID	LCS-101117	Instrument ID	10LCMS02
Run File Name	B220916B_013	Column ID	125GA90033
Analyzed	09/16/2022 17:32	Ical ID	220916A02
Injected By	NH	Level	L

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C2_PFHxA	N/A	N/A	5.72	5.72	2139	
13C4_PFOA	N/A	N/A	6.87	6.87	2444	
13C2_PFDA	N/A	N/A	8.08	8.08	1583	
13C4_PFOS	N/A	N/A	8.50	8.49	3064	

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4_PFBA	N/A	N/A	4.26	4.26	2831	
13C5_PFPeA	N/A	N/A	5.10	5.10	2483	
13C3_PFBS	N/A	N/A	5.91	5.90	1904	
13C2_4:2FTS	N/A	N/A	5.48	5.47	673	
13C5_PFHxA	N/A	N/A	5.72	5.70	2076	
13C4_PFHpA	N/A	N/A	6.29	6.27	1805	
13C3_PFHxS	N/A	N/A	7.21	7.17	3539	
13C2_6:2FTS	N/A	N/A	6.58	6.56	1583	
13C8_PFOA	N/A	N/A	6.87	6.84	3364	
13C9_PFNA	N/A	N/A	7.46	7.43	2027	
13C8_PFOS	N/A	N/A	8.51	8.47	2644	
13C2_8:2FTS	N/A	N/A	7.74	7.71	21733	
13C6_PFDA	N/A	N/A	8.08	8.05	2054	
d3-MeFOSAA	N/A	N/A	7.99	8.33	8003	
13C8_PFOSA	N/A	N/A	10.65	10.64	1051	
d5-EtFOSAA	N/A	N/A	8.28	8.27	1253	
13C7_PFUdA	N/A	N/A	8.73	8.73	2597	
13C2_PFDoA	N/A	N/A	9.36	9.36	1631	
13C2_PFTeDA	N/A	N/A	10.56	10.57	1182	
13C3_HFPO-DA	N/A	N/A	5.95	5.94	1340	
d7-N-MeFOSE	N/A	N/A	12.49	12.45	29	
d9-N-EtFOSE	N/A	N/A	12.96	12.93	294	
d3-N-MeFOSA	N/A	N/A	12.69	12.75	669	
d5-N-EtFOSA	N/A	N/A	13.11	13.10	510	

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LCS Analysis Summary

PFAS by Isotope Dilution

Lab Sample ID	LCS-101117	Instrument ID	10LCMS02
Run File Name	B220916B_013	Column ID	125GA90033
Analyzed	09/16/2022 17:32	Ical ID	220916A02
Injected By	NH	Level	L

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.26	4.26	143	
PFPeA	N/A	N/A	5.10	5.11	304	
HFPO-DA	0.26	0.28	5.96	5.97	596	
PFBS	0.48	0.44	5.92	5.92	1124	
PFHxA	0.08	0.08	5.73	5.73	231	
4:2 FTS	0.88	1.00	5.49	5.49	1809	
PFPeS	0.42	0.42	6.57	6.58	1185	
PFHpA	0.32	0.30	6.30	6.31	21	
DONA	0.57	0.52	6.51	6.52	1873	
PFHxS	0.38	0.36	7.21	7.21	3135	
PFOA	0.38	0.40	6.87	6.88	210	
6:2 FTS	0.79	0.93	6.58	6.58	574	
PFHpS	0.39	0.41	7.86	7.87	580549	
PFNA	0.12	0.11	7.47	7.47	528	
PFOSAm	N/A	N/A	10.66	10.67	209	
PFOS	0.39	0.36	8.51	8.51	499	
MeFOSA	0.57	0.51	12.71	12.69	248	
PFDA	0.18	0.21	8.09	8.09	316	
EtFOSAm	0.45	0.53	13.14	13.12	526	
8:2 FTS	0.97	0.90	7.75	7.75	337	
9-Cl-PF3ON	0.06	0.06	8.98	9.00	896	
PFNS	0.48	0.44	9.16	9.18	1497	
PFUnDA	0.14	0.13	8.73	8.74	259	
NMeFOSAA	0.75	0.91	8.01	8.01	1613	
NEtFOSAA	0.79	0.63	8.29	8.29	185	
PFDS	0.36	0.36	9.78	9.80	2632	
PFDOA	0.17	0.14	9.36	9.39	289	
MeFOSE	N/A	N/A	12.52	12.52	233	
EtFOSE	0.00	0.00	12.99	12.98	281	
11-Cl-PF3OUdS	0.02	0.02	10.21	10.23	494	
PFTrDA	0.13	0.14	9.97	10.00	233	
PFDoS	0.44	0.43	10.93	10.95	1714	
PFTDA	0.24	0.27	10.57	10.59	122	

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LCS Analysis Summary

PFAS by Isotope Dilution

Lab Sample ID	LCS-101135	Instrument ID	10LCMS01
Run File Name	Q220923A_013	Column ID	118AB10133
Analyzed	09/23/2022 11:11	Ical ID	220920B01
Injected By	NH	Level	L

Injection Internal Standards

Compound	Known Conc. ng/L	Conc. Found ng/L	%Recovery	Recovery Limits	Qualifiers
13C2_PFHxA	20	25	126	50-150	
13C4_PFOA	20	29	146	50-150	
13C2_PFDA	20	24	120	50-150	
13C4_PFOS	19	19	101	50-150	

Extracted Internal Standards

Compound	Known Conc. ng/L	Conc. Found ng/L	%Recovery	Recovery Limits	Qualifiers
13C4_PFBA	20	22	108	50-150	
13C5_PFPeA	20	22	110	50-150	
13C3_PFBS	19	20	107	50-150	
13C2_4:2FTS	19	19	104	50-150	
13C5_PFHxA	20	22	111	50-150	
13C4_PFHpA	20	24	119	50-150	
13C3_PFHxS	19	21	110	50-150	
13C2_6:2FTS	19	21	110	50-150	
13C8_PFOA	20	23	117	50-150	
13C9_PFNA	20	15	75	50-150	
13C8_PFOS	19	15	78	50-150	
13C2_8:2FTS	19	18	94	50-150	
13C6_PFDA	20	21	103	50-150	
d3-MeFOSAA	20	16	80	50-150	
13C8_PFOSA	20	14	71	50-150	
d5-EtFOSAA	20	13	63	50-150	
13C7_PFUdA	20	14	68	50-150	
13C2_PFDoA	20	16	78	50-150	
13C2_PFTeDA	20	15	77	50-150	
13C3_HFPO-DA	20	21	103	50-150	
d7-N-MeFOSE	20	11	57	20-150	
d9-N-EtFOSE	20	9.8	49	20-150	
d3-N-MeFOSA	20	9.8	49	20-150	
d5-N-EtFOSA	20	8.6	43	20-150	

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LCS Analysis Summary

PFAS by Isotope Dilution

Lab Sample ID	LCS-101135	Instrument ID	10LCMS01
Run File Name	Q220923A_013	Column ID	118AB10133
Analyzed	09/23/2022 11:11	Ical ID	220920B01
Injected By	NH	Level	L

Native Analytes

Compound	Known Conc. ng/L	Conc. Found ng/L	%Recovery	Recovery Limits	Qualifiers	CAS No.
PFBA	4.0	3.9	98	50-150		375-22-4
PFPeA	4.0	3.9	98	50-150		2706-90-3
HFPO-DA	4.0	3.5	87	50-150		13252-13-6
PFBS	3.5	3.5	99	50-150		375-73-5
PFHxA	4.0	3.9	97	50-150		307-24-4
4:2 FTS	3.7	3.6	95	50-150		757124-72-4
PFPeS	3.8	4.3	114	50-150		2706-91-4
PFHpA	4.0	3.6	91	50-150		375-85-9
DONA	3.8	3.9	104	50-150		919005-14-4
PFHxS	3.6	3.5	97	50-150		355-46-4
PFOA	4.0	4.2	104	50-150		335-67-1
6:2 FTS	3.8	3.9	104	50-150		27619-97-2
PFHpS	3.8	4.0	106	50-150		375-92-8
PFNA	4.0	3.8	95	50-150		375-95-1
PFOSAm	4.0	3.9	97	50-150		754-91-6
PFOS	3.7	3.2	86	50-150		1763-23-1
MeFOSA	4.0	3.3	83	50-150		31506-32-8
PFDA	4.0	3.0	75	50-150		335-76-2
EtFOSAm	4.0	3.1	79	50-150		4151-50-2
8:2 FTS	3.8	3.3	85	50-150		39108-34-4
9-Cl-PF3ON	3.7	3.1	83	50-150		756426-58-1
PFNS	3.8	3.1	82	50-150		68259-12-1
PFUnDA	4.0	4.4	110	50-150		2058-94-8
NMeFOSAA	4.0	3.2	80	50-150		2355-31-9
NEtFOSAA	4.0	4.4	111	50-150		2991-50-6
PFDS	3.9	2.9	75	50-150		335-77-3
PFDOA	4.0	3.7	92	50-150		307-55-1
MeFOSE	4.0	2.8	70	50-150		24448-09-7
EtFOSE	4.0	3.1	77	50-150		1691-99-2
11-Cl-PF3OUdS	3.8	3.1	82	50-150		763051-92-9
PFTrDA	4.0	3.3	84	50-150		72629-94-8
PFDoS	3.9	3.6	94	50-150		79780-39-5
PFTDA	4.0	4.7	116	50-150		376-06-7

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LCS Analysis Summary

PFAS by Isotope Dilution

Lab Sample ID	LCS-101135	Instrument ID	10LCMS01
Run File Name	Q220923A_013	Column ID	118AB10133
Analyzed	09/23/2022 11:11	Ical ID	220920B01
Injected By	NH	Level	L

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C2_PFHxA	N/A	N/A	6.51	6.47	1569	
13C4_PFOA	N/A	N/A	7.76	7.72	1676	
13C2_PFDA	N/A	N/A	9.05	9.02	424	
13C4_PFOS	N/A	N/A	9.48	9.46	1588	

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4_PFBA	N/A	N/A	5.03	5.07	2046	
13C5_PFPeA	N/A	N/A	5.86	5.85	2303	
13C3_PFBS	N/A	N/A	6.73	6.71	2095	
13C2_4:2FTS	N/A	N/A	6.24	6.22	807	
13C5_PFHxA	N/A	N/A	6.51	6.48	1345	
13C4_PFHpA	N/A	N/A	7.14	7.10	1078	
13C3_PFHxS	N/A	N/A	8.13	8.10	1785	
13C2_6:2FTS	N/A	N/A	7.44	7.40	5645736	
13C8_PFOA	N/A	N/A	7.76	7.72	2405	
13C9_PFNA	N/A	N/A	8.41	8.36	5202	
13C8_PFOS	N/A	N/A	9.49	9.46	437	
13C2_8:2FTS	N/A	N/A	8.69	8.65	9764	
13C6_PFDA	N/A	N/A	9.05	9.02	381	
d3-MeFOSAA	N/A	N/A	8.96	8.91	3211	
13C8_PFOSA	N/A	N/A	11.48	11.46	1171	
d5-EtFOSAA	N/A	N/A	9.25	9.21	1250814	
13C7_PFUdA	N/A	N/A	9.71	9.68	3002463	
13C2_PFDoA	N/A	N/A	10.38	10.35	755	
13C2_PFTeDA	N/A	N/A	11.69	11.64	810	
13C3_HFPO-DA	N/A	N/A	6.77	6.73	2242	
d7-N-MeFOSE	N/A	N/A	13.33	13.29	805	
d9-N-EtFOSE	N/A	N/A	13.82	13.78	435	
d3-N-MeFOSA	N/A	N/A	13.54	13.49	2423	
d5-N-EtFOSA	N/A	N/A	13.99	13.94	1241	

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LCS Analysis Summary

PFAS by Isotope Dilution

Lab Sample ID	LCS-101135	Instrument ID	10LCMS01
Run File Name	Q220923A_013	Column ID	118AB10133
Analyzed	09/23/2022 11:11	Ical ID	220920B01
Injected By	NH	Level	L

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	5.04	5.08	244	
PFPeA	N/A	N/A	5.87	5.85	361	
HFPO-DA	0.60	0.53	6.78	6.75	117667	
PFBS	0.36	0.33	6.74	6.72	26056	
PFHxA	0.07	0.07	6.52	6.48	57	
4:2 FTS	0.88	0.91	6.25	6.23	5838	
PFPeS	0.25	0.33	7.45	7.39	2370	
PFHpA	0.36	0.38	7.15	7.10	20	
DONA	0.57	0.59	7.37	7.33	1382	
PFHxS	0.38	0.37	8.14	8.11	532	
PFOA	0.36	0.42	7.77	7.73	119	
6:2 FTS	0.86	0.82	7.45	7.36	643	
PFHpS	0.33	0.31	8.82	8.80	775104	
PFNA	0.33	0.33	8.41	8.36	190	
PFOSAm	N/A	N/A	11.49	11.47	1893	
PFOS	0.31	0.30	9.50	9.47	750	
MeFOSA	0.81	0.99	13.56	13.51	175	
PFDA	0.11	0.12	9.07	9.03	123	
EtFOSAm	0.39	0.37	14.01	13.97	163253	
8:2 FTS	1.30	1.40	8.70	8.57	27	
9-Cl-PF3ON	0.01	0.02	9.98	9.96	638	
PFNS	0.23	0.28	10.17	10.15	736	
PFUnDA	0.08	0.13	9.72	9.69	44	
NMeFOSAA	0.68	0.78	8.97	8.93	115	
NEtFOSAA	0.76	0.85	9.28	9.13	107	
PFDS	0.27	0.27	10.83	10.80	172049	
PFDOA	0.12	0.15	10.39	10.35	130	
MeFOSE	N/A	N/A	13.38	13.33	1109	
EtFOSE	0.00	0.00	13.86	13.81	619481	
11-Cl-PF3OUdS	0.01	0.01	11.30	11.27	3141	
PFTrDA	0.22	0.16	11.05	11.01	63	
PFDoS	0.33	0.34	12.06	12.02	198008	
PFTDA	0.19	0.22	11.68	11.65	26	

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LCSD Analysis Summary

PFAS by Isotope Dilution

Lab Sample ID	LCSD-101262	Instrument ID	10LCMS02
Run File Name	B220929A_007	Column ID	125GA90033
Analyzed	09/29/2022 11:45	Ical ID	220928B02
Injected By	NH	Level	L

Injection Internal Standards

Compound	Known Conc. ng/L	LCS Conc. Found ng/L	LCS Rec. %	LCSD Conc. Found ng/L	LCSD Rec. %	RPD %	Recovery Limits	Qualifiers
13C2_PFHxA	20	25	126	24	122	3.1	50-150	
13C4_PFOA	20	29	146	24	118	21.4	50-150	
13C2_PFDA	20	24	120	26	132	9.4	50-150	
13C4_PFOS	19	19	101	24	124	20.7	50-150	

Extracted Internal Standards

Compound	Known Conc. ng/L	LCS Conc. Found ng/L	LCS Rec. %	LCSD Conc. Found ng/L	LCSD Rec. %	RPD %	Recovery Limits	Qualifiers
13C4_PFBA	20	22	108	22	108	0.2	50-150	
13C5_PFPeA	20	22	110	22	110	0.1	50-150	
13C3_PFBS	19	20	107	20	110	2.8	50-150	
13C2_4:2FTS	19	19	104	20	105	0.9	50-150	
13C5_PFHxA	20	22	111	22	108	2.3	50-150	
13C4_PFHpA	20	24	119	21	107	10.5	50-150	
13C3_PFHxS	19	21	110	19	102	8.2	50-150	
13C2_6:2FTS	19	21	110	20	105	5.0	50-150	
13C8_PFOA	20	23	117	20	100	15.2	50-150	
13C9_PFNA	20	15	75	19	97	25.8	50-150	
13C8_PFOS	19	15	78	18	93	17.2	50-150	
13C2_8:2FTS	19	18	94	17	87	8.5	50-150	
13C6_PFDA	20	21	103	18	90	13.7	50-150	
d3-MeFOSAA	20	16	80	15	77	4.1	50-150	
13C8_PFOSA	20	14	71	16	79	10.8	50-150	
d5-EtFOSAA	20	13	63	14	70	11.8	50-150	
13C7_PFUdA	20	14	68	16	78	14.2	50-150	
13C2_PFDoA	20	16	78	16	81	4.6	50-150	
13C2_PFTeDA	20	15	77	16	79	2.8	50-150	
13C3_HFPO-DA	20	21	103	21	107	3.5	50-150	
d7-N-MeFOSE	20	11	57	14	69	18.4	20-150	
d9-N-EtFOSE	20	9.8	49	13	64	26.5	20-150	
d3-N-MeFOSA	20	9.8	49	10	52	6.7	20-150	
d5-N-EtFOSA	20	8.6	43	11	53	20.5	20-150	

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LCSD Analysis Summary

PFAS by Isotope Dilution

Lab Sample ID	LCSD-101262	Instrument ID	10LCMS02
Run File Name	B220929A_007	Column ID	125GA90033
Analyzed	09/29/2022 11:45	Ical ID	220928B02
Injected By	NH	Level	L

Native Analytes

Compound	Known Conc. ng/L	LCS Conc. Found ng/L	LCS Rec. %	LCSD Conc. Found ng/L	LCSD Rec. %	RPD %	Recovery Limits	Qualifiers
PFBA	4.0	3.9	98	4.6	116	16.4	50-150	
PFPeA	4.0	3.9	98	4.3	108	10.0	50-150	
HFPO-DA	4.0	3.5	87	4.2	105	18.4	50-150	
PFBS	3.5	3.5	99	4.0	114	13.4	50-150	
PFHxA	4.0	3.9	97	4.4	111	13.2	50-150	
4:2 FTS	3.7	3.6	95	3.9	104	9.2	50-150	
PFPeS	3.8	4.3	114	3.9	104	9.8	50-150	
PFHpA	4.0	3.6	91	4.4	110	19.4	50-150	
DONA	3.8	3.9	104	4.0	105	0.4	50-150	
PFHxS	3.6	3.5	97	3.8	104	7.4	50-150	
PFOA	4.0	4.2	104	4.7	117	11.8	50-150	
6:2 FTS	3.8	3.9	104	3.6	95	8.8	50-150	
PFHpS	3.8	4.0	106	4.0	105	0.9	50-150	
PFNA	4.0	3.8	95	4.0	100	4.3	50-150	
PFOSAm	4.0	3.9	97	3.8	96	0.5	50-150	
PFOS	3.7	3.2	86	4.1	110	25.1	50-150	
MeFOSA	4.0	3.3	83	3.6	91	8.3	50-150	
PFDA	4.0	3.0	75	4.2	105	33.1	50-150	
EtFOSAm	4.0	3.1	79	3.7	92	15.3	50-150	
8:2 FTS	3.8	3.3	85	3.9	103	18.5	50-150	
9-Cl-PF3ON	3.7	3.1	83	3.2	86	2.8	50-150	
PFNS	3.8	3.1	82	3.6	94	13.9	50-150	
PFUnDA	4.0	4.4	110	3.7	93	16.3	50-150	
NMeFOSAA	4.0	3.2	80	4.2	104	26.5	50-150	
NEtFOSAA	4.0	4.4	111	4.4	109	1.4	50-150	
PFDS	3.9	2.9	75	3.0	77	2.1	50-150	
PFDOA	4.0	3.7	92	4.4	109	17.2	50-150	
MeFOSE	4.0	2.8	70	3.8	95	30.0	50-150	
EtFOSE	4.0	3.1	77	3.4	85	9.7	50-150	
11-Cl-PF3OUdS	3.8	3.1	82	3.0	80	2.5	50-150	
PFTrDA	4.0	3.3	84	4.1	102	19.4	50-150	
PFDoS	3.9	3.6	94	2.9	75	23.0	50-150	
PFTDA	4.0	4.7	116	3.7	93	22.4	50-150	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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LCSD Analysis Summary

PFAS by Isotope Dilution

Lab Sample ID	LCSD-101262	Instrument ID	10LCMS02
Run File Name	B220929A_007	Column ID	125GA90033
Analyzed	09/29/2022 11:45	Ical ID	220928B02
Injected By	NH	Level	L

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C2_PFHxA	N/A	N/A	5.72	5.72	2510	
13C4_PFOA	N/A	N/A	6.89	6.87	2931	
13C2_PFDA	N/A	N/A	8.12	8.08	1804	
13C4_PFOS	N/A	N/A	8.55	8.49	2450	

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4_PFBA	N/A	N/A	4.34	4.34	2862	
13C5_PFPeA	N/A	N/A	5.13	5.12	2785	
13C3_PFBS	N/A	N/A	5.94	5.93	6814	
13C2_4:2FTS	N/A	N/A	5.49	5.48	991	
13C5_PFHxA	N/A	N/A	5.72	5.71	1790	
13C4_PFHpA	N/A	N/A	6.30	6.29	2156	
13C3_PFHxS	N/A	N/A	7.27	7.26	2749	
13C2_6:2FTS	N/A	N/A	6.59	6.59	376071	
13C8_PFOA	N/A	N/A	6.89	6.89	3691	
13C9_PFNA	N/A	N/A	7.50	7.50	2896	
13C8_PFOS	N/A	N/A	8.55	8.54	4158	
13C2_8:2FTS	N/A	N/A	7.78	7.78	7865283	
13C6_PFDA	N/A	N/A	8.12	8.12	2612	
d3-MeFOSAA	N/A	N/A	8.03	8.03	49414	
13C8_PFOSA	N/A	N/A	10.81	10.83	2308	
d5-EtFOSAA	N/A	N/A	8.30	8.31	1242	
13C7_PFUdA	N/A	N/A	8.73	8.73	1754	
13C2_PFDoA	N/A	N/A	9.35	9.35	1444	
13C2_PFTeDA	N/A	N/A	10.56	10.57	2044	
13C3_HFPO-DA	N/A	N/A	5.95	5.94	1960	
d7-N-MeFOSE	N/A	N/A	12.57	12.56	73	
d9-N-EtFOSE	N/A	N/A	13.02	13.02	864	
d3-N-MeFOSA	N/A	N/A	12.77	12.77	2169	
d5-N-EtFOSA	N/A	N/A	13.16	13.17	924	

REPORT OF LABORATORY ANALYSIS

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LCSD Analysis Summary

PFAS by Isotope Dilution

Lab Sample ID	LCSD-101262	Instrument ID	10LCMS02
Run File Name	B220929A_007	Column ID	125GA90033
Analyzed	09/29/2022 11:45	Ical ID	220928B02
Injected By	NH	Level	L

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.35	4.35	213	
PFPeA	N/A	N/A	5.13	5.12	357	
HFPO-DA	0.34	0.33	5.96	5.96	943	
PFBS	0.42	0.41	5.95	5.92	1418	
PFHxA	0.08	0.09	5.73	5.73	316	
4:2 FTS	0.83	0.84	5.49	5.49	1531	
PFPeS	0.45	0.44	6.61	6.58	1617	
PFHpA	0.30	0.32	6.31	6.31	20	
DONA	0.54	0.56	6.52	6.52	1994	
PFHxS	0.36	0.42	7.27	7.21	1097	
PFOA	0.35	0.36	6.90	6.88	292	
6:2 FTS	0.94	0.95	6.59	6.58	748	
PFHpS	0.39	0.41	7.93	7.92	1213	
PFNA	0.16	0.16	7.51	7.51	249	
PFOSAm	N/A	N/A	10.82	10.84	428	
PFOS	0.41	0.39	8.56	8.55	589	
MeFOSA	0.56	0.55	12.79	12.80	4973	
PFDA	0.15	0.14	8.13	8.13	310	
EtFOSAm	0.59	0.52	13.18	13.21	946	
8:2 FTS	0.75	0.90	7.78	7.75	3019443	
9-Cl-PF3ON	0.05	0.07	9.01	9.00	828	
PFNS	0.44	0.43	9.18	9.18	1603	
PFUnDA	0.13	0.13	8.74	8.74	440	
NMeFOSAA	0.65	0.68	8.03	8.04	199	
NEtFOSAA	0.60	0.56	8.31	8.32	205	
PFDS	0.39	0.37	9.79	9.80	6993	
PFDOA	0.15	0.18	9.35	9.39	311	
MeFOSE	N/A	N/A	12.61	12.52	405	
EtFOSE	0.00	0.00	13.05	12.98	544	
11-Cl-PF3OUdS	0.02	0.02	10.23	10.23	738	
PFTrDA	0.17	0.17	9.97	10.00	285	
PFDoS	0.48	0.45	10.96	10.95	444	
PFTDA	0.24	0.22	10.57	10.59	246	

REPORT OF LABORATORY ANALYSIS

A.1. GROUNDWATER ANALYTICAL TABLE (page 1 of 7) (PSI Wells)

City of South Milwaukee Vacant Parcel
222 South Chicago Avenue
South Milwaukee, Wisconsin
BRRTS No. 02-41-556175

Analytical Parameter	Sample ID / Date	MW-1								NR 140	
		3/30/2011	11/11/2011	6/5/2012	10/22/2012	6/10/2013	9/10/2013	11/26/2013	2/27/2014		
	Units									ES	PAL
Detected VOCs											
Benzene	ug/l	*1.6*	0.45J	<0.41	*1.4*	<0.5	<0.5	0.34J	0.43J	**5**	*0.5*
Chloromethane	ug/l	<0.24	<0.24	<0.24	<0.24	<0.39	<0.39	<0.81	<0.81	**30**	*3*
Dichlorodifluoromethane	ug/l	<0.99	<0.99	<0.99	<0.99	<0.4	<0.4	<0.44	<0.44	**1,000**	*200*
Isopropylbenzene (Cumene)	ug/l	0.60J	<0.59	<0.59	<0.59	<0.34	<0.34	1.77	<0.3	**---**	*---*
Methylene Chloride	ug/l	<0.43	<0.43	<0.43	<0.43	<0.36	<0.36	<0.5	<0.5	**5**	*0.5*
n-Propylbenzene	ug/l	2.0	<0.81	<0.81	<0.81	<0.5	<0.5	3.5	<0.25	**---**	*---*
Trimethylbenzenes	ug/l	3.0	<0.48	<0.48	<0.48	<3.07	<3.07	<3.6	<3.6	**480**	*96*
PAHs											
Acenaphthene	ug/l	0.032J	0.022J	<0.0029	0.017J	<0.0039	<0.0064	<0.021	<0.018	**---**	*---*
Acenaphthylene	ug/l	0.0043J	0.0070J	<0.0029	<0.0029	<0.0035	<0.0053	<0.02	<0.02	**---**	*---*
Anthracene	ug/l	0.018J	0.021J	<0.0026	0.024J	0.0072J	<0.0062	<0.02	<0.018	**3,000**	*600*
Benzo(a)anthracene	ug/l	0.025J	0.018J	0.0053J	0.016J	<0.0048	<0.0065	0.029J	<0.023	**---**	*---*
Benzo(a)pyrene	ug/l	0.016J	*0.021J*	0.0061J	0.011J	<0.0050	<0.011	<0.018	<0.02	**0.2**	*0.02*
Benzo(b)fluoranthene	ug/l	0.020J	*0.021J*	0.0067J	0.012J	<0.0068	<0.0083	<0.02	<0.019	**0.2**	*0.02*
Benzo(g,h,i)perylene	ug/l	0.020J	0.024J	0.0061J	0.014J	<0.0081	<0.0090	<0.023	<0.024	**---**	*---*
Benzo(k)fluoranthene	ug/l	0.015J	0.018J	0.0056J	<0.0046	<0.010	<0.012	<0.027	<0.027	**---**	*---*
Chrysene	ug/l	*0.048J*	*0.053*	0.0099J	*0.041J*	0.012J	<0.0080	<0.018	<0.018	**0.2**	*0.02*
Dibenz(a,h)anthracene	ug/l	0.0034J	0.0044J	<0.0089	<0.0089	<0.0055	<0.0074	<0.023	<0.028	**---**	*---*
Fluoranthene	ug/l	0.054	0.043J	0.013J	0.058J	0.011J	<0.0058	<0.026	<0.022	**400**	*80*
Fluorene	ug/l	0.030J	0.019J	0.0032J	0.027J	<0.0039	<0.0072	<0.02	<0.022	**400**	*80*
Indeno(1,2,3-cd)pyrene	ug/l	0.0087J	0.010J	<0.0052	<0.0052	<0.0059	<0.0095	<0.027	<0.027	**---**	*---*
1-Methylnaphthalene	ug/l	0.57	0.034J	0.0073J	0.11	0.028J	<0.0070	0.022J	<0.021	**---**	*---*
2-Methylnaphthalene	ug/l	0.47	0.035J	0.0091J	0.09J	0.041J	<0.0068	0.023J	<0.024	**---**	*---*
Naphthalene	ug/l	0.51	0.032J	0.019J	0.14	0.054	<0.0051	0.024J	<0.023	**100**	*10*
Phenanthrene	ug/l	0.098	0.054	0.021J	0.073J	0.021J	0.012J	<0.018	<0.018	**---**	*---*
Pyrene	ug/l	0.077	0.065	0.012J	0.064J	0.013J	<0.0059	<0.025	<0.022	**250**	*50*
RCRA Metals											
Arsenic	ug/l	***31.1***	***18.8J***	***10.7J***	*9.4J*	*8.7J*	***11.3J***	*8.4*	*6.3*	**10**	*1*
Barium	ug/l	104	76.1	72.5	78.2	89.3	66.1	60.6	73.9	**2,000**	*400*
Cadmium	ug/l	*0.55J*	0.15J	*0.62J*	<0.33	<0.38	<0.48	<0.5	<0.5	**5**	*0.5*
Chromium	ug/l	9.3	0.56J	<2.4	<2.0	<1.2	<1.4	<2.6	<2.6	**100**	*10*
Lead	ug/l	*11.0*	<1.5	<1.4	<1.7	*2.3J*	*3.0J*	<0.7	<0.7	**15**	*1.5*
Selenium	ug/l	<2.1	4.0J	<5.8	<6.5	<6.6	<5.2	<1	<1	**50**	*10*
Silver	ug/l	<0.46	<0.69	<2.3	<2.5	<1.4	<1.7	<10.3	<10.3	**50**	*10*
Mercury	ug/l	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	**2**	*0.2*

Notes:
Bold concentrations exceed NR 140 ES
Italicized concentrations exceed NR 140 PAL
--- - not analyzed/no standard established
J - concentration detected between the laboratory limit of detection and the limit of quantitation
ES - NR 140 Enforcement Standard
PAH - polynuclear aromatic hydrocarbons
PAL - NR 140 Preventive Action Limit
ug/l - micrograms per liter
VOC - volatile organic compounds
RCRA - resource conservation and recovery act
ND - Not detected above laboratory method detection limits
Trimethylbenzenes include 1,2,4− and 1,3,5− combined

A.1. GROUNDWATER ANALYTICAL TABLE (page 2 of 7) (PSI Wells)

City of South Milwaukee Vacant Parcel
222 South Chicago Avenue
South Milwaukee, Wisconsin
BRRTS No. 02-41-556175

Analytical Parameter	Sample ID	MW-2								NR 140	
	Date	3/30/2011	11/11/2011	6/5/2012	10/22/2012	6/10/2013	9/10/2013	11/26/2013	2/28/2014		
	Units									ES	PAL
Detected VOCs											
Benzene	ug/l	<0.41	<0.41	<0.41	<0.41	<0.50	<0.50	<0.24	<0.24	**5**	*0.5*
Chloromethane	ug/l	<0.24	0.49J	<0.24	<0.24	<0.39	<0.39	<0.81	<0.81	**30**	*3*
Dichlorodifluoromethane	ug/l	1.1	1.8	1.5	<0.99	2.0	3.3	2.37	<0.44	**1,000**	*200*
Isopropylbenzene (Cumene)	ug/l	<0.59	<0.59	<0.59	<0.59	<0.34	<0.34	<0.3	<0.3	**---**	*---*
Methylene Chloride	ug/l	<0.43	<0.43	<0.43	<0.43	<0.36	<0.36	<0.5	<0.5	**5**	*0.5*
n-Propylbenzene	ug/l	<0.81	<0.81	<0.81	<0.81	<0.50	<0.50	<0.25	<0.25	**---**	*---*
Trimethylbenzenes	ug/l	<0.48	<0.48	<0.48	<0.48	<3.07	<3.07	<3.6	<3.6	**480**	*96*
PAHs											
Acenaphthene	ug/l	0.015J	0.022J	<0.0029	0.017J	<0.0038	<0.0064	<0.021	<0.018	**---**	*---*
Acenaphthylene	ug/l	<0.0038	0.0070J	<0.0029	<0.0029	0.018J	<0.0053	<0.02	<0.02	**---**	*---*
Anthracene	ug/l	<0.0061	0.021J	<0.0026	0.024J	0.026J	<0.0062	<0.02	<0.018	**3,000**	*600*
Benzo(a)anthracene	ug/l	0.0038J	0.018J	0.0053J	0.016J	0.078	<0.0065	0.05J	0.057J	**---**	*---*
Benzo(a)pyrene	ug/l	0.0034J	*0.021J*	0.0061J	0.011J	*0.089*	<0.011	*0.10*	*0.026J*	**0.2**	*0.02*
Benzo(b)fluoranthene	ug/l	0.0052J	*0.021J*	0.0067J	0.012J	*0.14*	<0.0083	*0.159*	*0.045J*	**0.2**	*0.02*
Benzo(g,h,i)perylene	ug/l	0.010J	0.024J	0.0061J	0.014J	0.097	<0.0090	0.197	0.028J	**---**	*---*
Benzo(k)fluoranthene	ug/l	<0.0046	0.018J	0.0056J	<0.0046	0.093	<0.012	0.042J	<0.027	**---**	*---*
Chrysene	ug/l	*0.018J*	*0.053*	0.0099J	*0.041J*	*0.15*	<0.0080	*0.105*	*0.045J*	**0.2**	*0.02*
Dibenz(a,h)anthracene	ug/l	<0.0034	0.0044J	<0.0089	<0.0089	0.023J	<0.0074	<0.023	<0.028	**---**	*---*
Fluoranthene	ug/l	0.0061J	0.043J	0.013J	0.058J	0.14	0.011J	0.102	0.087	**400**	*80*
Fluorene	ug/l	0.0054J	0.019J	0.0032J	0.027J	<0.0038	<0.0072	<0.02	<0.022	**400**	*80*
Indeno(1,2,3-cd)pyrene	ug/l	<0.005	0.010J	<0.0052	<0.0052	0.074	<0.0095	0.143	<0.027	**---**	*---*
1-Methylnaphthalene	ug/l	0.032J	0.034J	0.0073J	0.11	<0.0036	<0.0070	<0.019	<0.021	**---**	*---*
2-Methylnaphthalene	ug/l	0.0094J	0.035J	0.0091J	0.09J	0.0063J	<0.0068	<0.016	<0.024	**---**	*---*
Naphthalene	ug/l	0.1	0.032J	0.019J	0.14	<0.0033	0.0068J	<0.023	<0.023	**100**	*10*
Phenanthrene	ug/l	0.010J	0.054	0.021J	0.073J	0.030J	0.017J	0.033J	0.061	**---**	*---*
Pyrene	ug/l	0.014J	0.065	0.012J	0.064J	0.21	0.0076J	0.113	0.077	**250**	*50*
RCRA Metals											
Arsenic	ug/l	*4.7J*	*2.1J*	*<4.7*	*<4.7*	<4.4	*4.8J*	<0.6	*5.5*	**10**	*1*
Barium	ug/l	123	60.5	40.6	41	51.6	47.7	93.8	38.3	**2,000**	*400*
Cadmium	ug/l	*0.64J*	0.30J	<0.39	0.45J	<0.38	<0.48	<0.5	<0.5	**5**	*0.5*
Chromium	ug/l	<2.0	3.5J	<2.4	<2.0	4.6J	3.2J	<2.6	<2.6	**100**	*10*
Lead	ug/l	*1.7J*	*3.5J*	<1.4	*3.5J*	*2.3J*	*3.2J*	<0.7	<0.7	**15**	*1.5*
Selenium	ug/l	*8.2J*	*2.4J*	*15.5J*	*12.1J*	<6.6	<5.2	<1	<1	**50**	*10*
Silver	ug/l	<0.46	<0.69	<2.3	<2.5	<1.4	<1.7	<10.3	<10.3	**50**	*10*
Mercury	ug/l	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	**2**	*0.2*

Notes:
Bold concentrations exceed NR 140 ES
Italicized concentrations exceed NR 140 PAL
--- - not analyzed/no standard established
J - concentration detected between the laboratory limit of detection and the limit of quantitation
ES - NR 140 Enforcement Standard
PAH - polynuclear aromatic hydrocarbons
PAL - NR 140 Preventive Action Limit
ug/l - micrograms per liter
VOC - volatile organic compounds
RCRA - resource conservation and recovery act
ND - Not detected above laboratory method detection limits
Trimethylbenzenes include 1,2,4− and 1,3,5− combined

A.1. GROUNDWATER ANALYTICAL TABLE (page 3 of 7) (PSI Wells)

City of South Milwaukee Vacant Parcel
222 South Chicago Avenue
South Milwaukee, Wisconsin
BRRTS No. 02-41-556175

Analytical Parameter	Sample ID	MW-3			MW-4			NR 140	
	Date	3/30/2011	11/11/2011	6/5/2012	3/30/2011	11/11/2011	6/5/2012		
	Units							ES	PAL
Detected VOCs									
Benzene	ug/l	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	**5**	*0.5*
Chloromethane	ug/l	<0.24	<0.24	<0.24	<0.24	0.78J	<0.24	**30**	*3*
Dichlorodifluoromethane	ug/l	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	**1,000**	*200*
Isopropylbenzene (Cumene)	ug/l	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	**---**	---
Methylene Chloride	ug/l	<0.43	*0.78J*	<0.43	<0.43	<0.43	<0.43	**5**	*0.5*
n-Propylbenzene	ug/l	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	**---**	---
Trimethylbenzenes	ug/l	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	**480**	*96*
PAHs									
Acenaphthene	ug/l	0.0065J	<0.0045	<0.0029	0.024J	0.0099J	<0.0030	**---**	---
Acenaphthylene	ug/l	<0.0038	<0.0036	<0.0029	0.0063J	<0.0036	<0.0030	**---**	---
Anthracene	ug/l	0.0077J	<0.0057	0.0029J	<0.0061	0.0088J	<0.0026	**3,000**	*600*
Benzo(a)anthracene	ug/l	0.0038J	<0.0036	0.0054J	0.0052J	<0.0036	<0.0042	**---**	---
Benzo(a)pyrene	ug/l	0.0030J	<0.0029	0.0059J	0.0031J	<0.0029	<0.0042	**0.2**	*0.02*
Benzo(b)fluoranthene	ug/l	0.0037J	<0.0034	0.0080J	0.0050J	0.0035J	0.0072J	**0.2**	*0.02*
Benzo(g,h,i)perylene	ug/l	0.0081J	<0.0048	0.0067J	0.0089J	0.0078J	<0.0053	**---**	---
Benzo(k)fluoranthene	ug/l	<0.0046	<0.0044	0.0069J	<0.0046	<0.0044	0.0050J	**---**	---
Chrysene	ug/l	0.013J	0.0077J	0.011J	0.019J	0.018J	0.0082J	**0.2**	*0.02*
Dibenz(a,h)anthracene	ug/l	<0.0034	<0.0032	<0.0089	<0.0034	<0.0032	<0.0090	**---**	---
Fluoranthene	ug/l	0.0092J	<0.0044	0.013J	0.0084J	0.0080J	0.014J	**400**	*80*
Fluorene	ug/l	0.0068J	<0.0048	0.0035J	0.015J	0.0066J	0.0031J	**400**	*80*
Indeno(1,2,3-cd)pyrene	ug/l	<0.0050	<0.0047	<0.0052	<0.0050	<0.0047	<0.0052	**---**	---
1-Methylnaphthalene	ug/l	0.017J	<0.0050	<0.0044	0.11	0.011J	<0.0044	**---**	---
2-Methylnaphthalene	ug/l	0.0099J	0.0041J	<0.0046	0.017J	0.012J	<0.0046	**---**	---
Naphthalene	ug/l	0.036J	0.0075J	<0.0045	0.077	0.016J	<0.0045	**100**	*10*
Phenanthrene	ug/l	0.013J	<0.0081	0.018J	0.016J	0.020J	0.021J	**---**	---
Pyrene	ug/l	0.019J	0.0055J	0.011J	0.018J	0.011J	0.012J	**250**	*50*
RCRA Metals									
Arsenic	ug/l	*9.7J*	*3.1J*	<4.7	*3.8J*	<1.8	<4.7	**10**	*1*
Barium	ug/l	129	38.0	24.8	20.9	22.9	31.0	**2,000**	*400*
Cadmium	ug/l	*0.79J*	<0.28	<0.39	0.26J	0.46J	0.49J	**5**	*0.5*
Chromium	ug/l	*28.2*	3.8J	<2.4	<2.4	1.4J	<2.4	**100**	*10*
Lead	ug/l	***18.3***	*4.2J*	<1.4	<1.4	*2.6J*	<1.4	**15**	*1.5*
Selenium	ug/l	5.2J	<2.2	<5.8	6.9J	3.2J	<5.8	**50**	*10*
Silver	ug/l	0.52J	<0.69	<2.3	<0.46	<0.69	<2.3	**50**	*10*
Mercury	ug/l	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	**2**	*0.2*

Notes:
Bold concentrations exceed NR 140 ES
Italicized concentrations exceed NR 140 PAL
--- - not analyzed/no standard established
J - concentration detected between the laboratory limit of detection and the limit of quantitation
ES - NR 140 Enforcement Standard
PAH - polynuclear aromatic hydrocarbons
PAL - NR 140 Preventive Action Limit
ug/l - micrograms per liter
VOC - volatile organic compounds
RCRA - resource conservation and recovery act
ND - Not detected above laboratory method detection limits
Trimethylbenzenes include 1,2,4− and 1,3,5− combined

A.1. GROUNDWATER ANALYTICAL TABLE (page 4 of 7) (AEA Wells)

City of South Milwaukee Vacant Parcel
222 South Chicago Avenue
South Milwaukee, Wisconsin
BRRTS No. 02-41-556175

Analytical Parameter	Sample ID	MW-26			MW-28			NR 140	
	Date	7/14/2011	10/27/2011	3/21/2012	7/14/2011	10/27/2011	3/21/2012		
	Units							ES	PAL
PVOCs									
Benzene	ug/l	<1	0.092J	0.095J	<1	0.1J	0.089J	**5**	*0.5*
Ethylbenzene	ug/l	<1	0.14J	0.091J	<1	0.14J	0.12J	**700**	*140*
Toluene	ug/l	<5	0.27J	0.13J	<5	0.24J	0.19J	**800**	*160*
Total Trimethylbenzenes	ug/l	<2	0.275J	0.072J	<2	0.232J	0.076J	**480**	*96*
Total Xylenes	ug/l	<3	0.39J	<1	<3	0.4J	<1	**2,000**	*400*
RCRA Metals									
Arsenic	ug/l	NA	<1.0	***15***	NA	<1.0	***15***	**10**	*1*
Barium	ug/l	NA	NA	NA	NA	NA	NA	**2,000**	*400*
Cadmium	ug/l	NA	NA	NA	NA	NA	NA	**5**	*0.5*
Chromium	ug/l	2J	<10	<10	2.6J	<10	<10	**100**	*10*
Lead	ug/l	***72***	<1	***22***	***62***	*2.1*	***21***	**15**	*1.5*
Selenium	ug/l	NA	NA	NA	NA	NA	NA	**50**	*10*
Silver	ug/l	NA	NA	NA	NA	NA	NA	**50**	*10*
Mercury	ug/l	NA	<0.20	NA	NA	<0.20	NA	**2**	*0.2*

Notes:
Bold concentrations exceed NR 140 ES
Italicized concentrations exceed NR 140 PAL
--- - not analyzed/no standard established
J - concentration detected between the laboratory limit of detection and the limit of quantitation
ES - NR 140 Enforcement Standard
PAH - polynuclear aromatic hydrocarbons
PAL - NR 140 Preventive Action Limit
ug/l - micrograms per liter
VOC - volatile organic compounds
RCRA - resource conservation and recovery act
ND - Not detected above laboratory method detection limits
Trimethylbenzenes include 1,2,4− and 1,3,5− combined

A.1. GROUNDWATER ANALYTICAL TABLE (page 5 of 7) (Celerity Wells)

City of South Milwaukee Vacant Parcel
200 North Chicago Avenue
South Milwaukee, Wisconsin
BRRTS No. 02-41-556175

Analytical Parameter	Sample ID	MW-1		MW-2		MW-3		MW-4		NR 140	
	Date	3/29/2004	11/30/2004	3/29/2004	11/30/2004	3/29/2004	11/30/2004	3/29/2004	11/30/2004		
	Units									ES	PAL
Dissolved Lead	ug/l	<0.7	---	<0.7	---	<0.7	---	1.1	---	**15**	*1.5*
Detected VOCs											
Benzene	ug/l	<0.29	<0.15	<0.29	<0.15	<0.29	<0.15	<0.29	<0.15	**5**	*0.5*
Ethylbenzene	ug/l	<0.56	<0.21	<0.56	<0.21	<0.56	<0.21	<0.56	<0.21	---	---
Isopropylbenzene (Cumene)	ug/l	<0.19	---	<0.19	---	<0.19	---	<0.19	---	---	---
Methyl-tert-butyl-ether	ug/l	<0.20	<0.14	<0.20	<0.14	<0.20	<0.14	<.20	<0.14	---	---
Naphthalene	ug/l	<0.60	---	<0.60	---	<0.60	---	<0.60	---	---	---
n-Propylbenzene	ug/l	<0.32	---	<0.32	---	<0.32	---	<0.32	---	---	---
Toluene	ug/l	<0.57	<0.14	<0.57	<0.14	<0.57	<0.14	<0.57	<0.14	---	---
Trichlorofluoromethane	ug/l	<0.22	---	<0.22	---	<0.22	---	0.28	---	---	---
1,2,4-Trimethylbenzene	ug/l	<0.51	<0.62	<0.51	<0.62	<0.51	<0.62	<0.51	<0.62	---	---
1,3,5-Trimethylbenzene	ug/l	<0.66	<0.61	<0.66	<0.61	<0.66	<0.61	<0.66	<0.61	---	---
Xylenes	ug/l	<1.74	<0.60	<1.74	<0.60	<1.74	<0.60	<1.74	<0.60	---	---
PAHs											
Acenaphthene	ug/l	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	---	---
Acenaphthylene	ug/l	0.046	<0.015	0.030	0.054	<0.015	<0.015	<0.015	<0.015	---	---
Anthracene	ug/l	<0.023	<0.023	0.041	0.080	<0.023	<0.023	<0.023	<0.023	**3,000**	*600*
Benzo(a)anthracene	ug/l	<0.031	<0.031	0.143	0.28	<0.031	<0.031	<0.031	<0.031	---	---
Benzo(a)pyrene	ug/l	<0.008	<0.008	*0.173*	***0.47***	<0.008	<0.008	<0.008	<0.008	**0.2**	*0.02*
Benzo(b)fluoranthene	ug/l	<0.009	<0.009	***0.231***	***0.66***	<0.009	<0.009	<0.009	0.010	**0.2**	*0.02*
Benzo(g,h,i)perylene	ug/l	<0.016	<0.016	0.149	0.42	<0.016	<0.016	<0.016	<0.016	---	---
Benzo(k)fluoranthene	ug/l	<0.024	<0.024	0.079	0.25	<0.024	<0.024	<0.024	<0.024	---	---
Chrysene	ug/l	<0.007	0.009	*0.181*	***0.49***	0.009	<0.007	0.009	0.017	**0.2**	*0.02*
Dibenz(a,h)anthracene	ug/l	<0.037	<0.037	<0.037	<0.037	<0.037	<0.037	<0.037	<0.037	---	---
Fluoranthene	ug/l	<0.024	<0.024	0.32	0.65	<0.024	<0.024	<0.024	<0.024	**400**	*80*
Fluorene	ug/l	0.022	<0.015	0.087	<0.015	<0.015	<0.015	<0.015	<0.015	**400**	*80*
Indeno(1,2,3-cd)pyrene	ug/l	<0.021	<0.021	0.107	0.34	<0.021	<0.021	<0.021	<0.021	---	---
1-Methylnaphthalene	ug/l	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	---	---
2-Methylnaphthalene	ug/l	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	---	---
Naphthalene	ug/l	<0.026	<0.026	<0.026	0.033	<0.026	<0.026	<0.026	<0.026	**40**	*8*
Phenanthrene	ug/l	<0.045	<0.046	0.090	0.170	<0.045	<0.045	<0.045	<0.045	---	---
Pyrene	ug/l	<0.023	<0.023	0.302	0.510	<0.023	<0.023	<0.023	<0.023	**250**	*50*

Notes:
Bold concentrations exceed NR 140 ES
Italicized concentrations exceed NR 140 PAL
--- - not analyzed/no standard established
J - concentration detected between the laboratory limit of detection and the limit of quantitation
ES - NR 140 Enforcement Standard
PAH - polynuclear aromatic hydrocarbons
PAL - NR 140 Preventive Action Limit
ug/l - micrograms per liter
VOC - volatile organic compounds
RCRA - resource conservation and recovery act
ND - Not detected above laboratory method detection limits
Trimethylbenzenes include 1,2,4− and 1,3,5− combined

A.1. GROUNDWATER ANALYTICAL TABLE (page 6 of 7) (Celerity Wells)

City of South Milwaukee Vacant Parcel
200 North Chicago Avenue
South Milwaukee, Wisconsin
BRRTS No. 02-41-556175

Analytical Parameter	Sample ID	MW-5		MW-6		MW-7	MW-8	MW-10	NR 140	
	Date	3/29/2004	11/30/2004	3/29/2004	11/30/2004	11/30/2004	11/30/2004	11/30/2004		
	Units								ES	PAL
Dissolved Lead	ug/l	<0.7	---	<0.7	---	---	---	---	**15**	*1.5*
Detected VOCs										
Benzene	ug/l	0.61	<0.15	<0.29	<0.15	<0.15	<0.15	<0.15	**5**	*0.5*
Ethylbenzene	ug/l	<0.56	<0.21	<0.56	<0.21	<0.21	<0.21	<0.21	---	---
Isopropylbenzene (Cumene)	ug/l	0.68	---	<0.19	---	---	---	---	---	---
Methyl-tert-butyl-ether	ug/l	<0.20	<0.14	<0.20	<0.14	<0.14	<0.14	<0.14	---	---
Naphthalene	ug/l	0.84	---	<0.60	---	---	---	---	---	---
n-Propylbenzene	ug/l	1.3	---	<0.32	---	---	---	---	---	---
Toluene	ug/l	<0.57	<0.14	<0.57	<0.14	0.28	<0.14	<0.14	---	---
Trichlorofluoromethane	ug/l	0.22	---	<0.22	---	---	---	---	---	---
1,2,4-Trimethylbenzene	ug/l	4.3	<0.62	<0.51	<0.62	<0.62	<0.62	<0.62	---	---
1,3,5-Trimethylbenzene	ug/l	<0.66	<0.61	<0.66	<0.61	<0.61	<0.61	<0.61	---	---
Xylenes	ug/l	2.25	<0.60	<1.74	<0.60	<0.60	<0.60	<0.60	---	---
PAHs										
Acenaphthene	ug/l	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	**---**	---
Acenaphthylene	ug/l	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	**---**	---
Anthracene	ug/l	<0.023	<0.023	0.032	<0.023	<0.023	<0.023	<0.023	**3,000**	*600*
Benzo(a)anthracene	ug/l	<0.031	<0.031	<0.031	0.049	<0.031	<0.031	<0.031	**---**	---
Benzo(a)pyrene	ug/l	<0.008	<0.008	0.019	*0.043*	*0.020*	<0.008	<0.008	**0.2**	*0.02*
Benzo(b)fluoranthene	ug/l	<0.009	*0.024*	*0.027*	*0.100*	<0.009	<0.009	<0.009	**0.2**	*0.02*
Benzo(g,h,i)perylene	ug/l	<0.016	<0.016	<0.016	0.080	<0.016	<0.016	<0.016	**---**	---
Benzo(k)fluoranthene	ug/l	<0.024	<0.024	<0.024	0.042	<0.024	<0.024	<0.024	**---**	---
Chrysene	ug/l	0.011	*0.032*	*0.025*	*0.095*	*0.035*	0.018	0.017	**0.2**	*0.02*
Dibenz(a,h)anthracene	ug/l	<0.037	<0.037	<0.037	<0.037	<0.037	<0.037	<0.037	**---**	---
Fluoranthene	ug/l	<0.024	0.037	0.098	0.130	0.060	<0.024	<0.024	**400**	*80*
Fluorene	ug/l	0.025	<0.015	0.034	<0.015	<0.015	<0.015	<0.015	**400**	*80*
Indeno(1,2,3-cd)pyrene	ug/l	<0.021	<0.021	<0.021	0.050	<0.021	<0.021	<0.021	**---**	---
1-Methylnaphthalene	ug/l	0.477	0.047	0.115	<0.026	<0.026	<0.026	<0.026	**---**	---
2-Methylnaphthalene	ug/l	0.644	0.033	0.038	<0.030	<0.030	<0.030	<0.030	**---**	---
Naphthalene	ug/l	0.468	<0.026	0.050	<0.026	<0.026	<0.026	<0.026	**40**	*8*
Phenanthrene	ug/l	0.052	<0.045	0.098	0.073	0.069	<0.045	<0.045	**---**	---
Pyrene	ug/l	<0.023	0.028	0.087	0.100	0.043	<0.023	<0.023	**250**	*50*

Notes:
Bold concentrations exceed NR 140 ES
Italicized concentrations exceed NR 140 PAL
--- - not analyzed/no standard established
J - concentration detected between the laboratory limit of detection and the limit of quantitation
ES - NR 140 Enforcement Standard
PAH - polynuclear aromatic hydrocarbons
PAL - NR 140 Preventive Action Limit
ug/l - micrograms per liter
VOC - volatile organic compounds
RCRA - resource conservation and recovery act
ND - Not detected above laboratory method detection limits
Trimethylbenzenes include 1,2,4− and 1,3,5− combined

A.1. GROUNDWATER ANALYTICAL TABLE (page 7 of 7) (Celerity-Midwest Enviro-Sciences Wells)

City of South Milwaukee Vacant Parcel
200 North Chicago Avenue
South Milwaukee, Wisconsin
BRRTS No. 02-41-556175

Analytical Parameter	Sample ID	MW-A		MW-B		MW-C		MW-D		NR 140	
	Date	3/29/2004	11/30/2004	3/29/2004	11/30/2004	3/29/2004	11/30/2004	3/29/2004	11/30/2004		
	Units									ES	PAL
Detected VOCs											
Benzene	ug/l	<0.29	<0.15	<0.29	<0.15	<0.29	<0.15	0.31	<0.15	**5**	*0.5*
Ethylbenzene	ug/l	<0.56	<0.21	<0.56	<0.21	<0.56	<0.21	<0.56	<0.21	---	---
Isopropylbenzene (Cumene)	ug/l	---	---	---	---	---	---	---	---	---	---
Methyl-tert-butyl-ether	ug/l	<0.20	<0.14	<0.20	<0.14	0.68	0.69	<0.20	<0.14	---	---
Naphthalene	ug/l	---	---	---	---	---	---	---	---	---	---
n-Propylbenzene	ug/l	---	---	---	---	---	---	---	---	---	---
Toluene	ug/l	<0.57	<0.14	<0.57	0.19	<0.57	0.16	<0.57	<0.14	---	---
Trichlorofluoromethane	ug/l	---	---	---	---	---	---	---	---	---	---
1,2,4-Trimethylbenzene	ug/l	<0.51	<0.62	<0.51	<0.62	<0.51	<0.62	<0.51	<0.62	---	---
1,3,5-Trimethylbenzene	ug/l	<0.66	<0.61	<0.66	<0.61	<0.66	<0.61	<0.66	<0.61	---	---
Xylenes	ug/l	<1.74	<0.60	<1.74	<0.60	<1.74	<0.60	<1.74	<0.60	---	---
PAHs											
Acenaphthene	ug/l	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	**---**	---
Acenaphthylene	ug/l	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	**---**	---
Anthracene	ug/l	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	**3,000**	*600*
Benzo(a)anthracene	ug/l	0.052	0.065	<0.031	<0.031	<0.031	<0.031	<0.031	<0.031	**---**	---
Benzo(a)pyrene	ug/l	*0.075*	*0.086*	<0.008	<0.008	<0.008	<0.008	0.016	<0.008	**0.2**	*0.02*
Benzo(b)fluoranthene	ug/l	*0.148*	***0.28***	<0.009	<0.009	<0.009	<0.009	*0.028*	<0.009	**0.2**	*0.02*
Benzo(g,h,i)perylene	ug/l	0.063	0.16	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	**---**	---
Benzo(k)fluoranthene	ug/l	0.052	0.11	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	**---**	---
Chrysene	ug/l	*0.120*	***0.23***	<0.007	0.011	<0.007	<0.007	*0.034*	<0.007	**0.2**	*0.02*
Dibenz(a,h)anthracene	ug/l	<0.037	<0.037	<0.037	<0.037	<0.037	<0.037	<0.037	<0.037	**---**	---
Fluoranthene	ug/l	0.244	0.46	<0.024	<0.024	<0.024	<0.024	0.061	<0.024	**400**	*80*
Fluorene	ug/l	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	**400**	*80*
Indeno(1,2,3-cd)pyrene	ug/l	0.054	0.13	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021	**---**	---
1-Methylnaphthalene	ug/l	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	**---**	---
2-Methylnaphthalene	ug/l	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	**---**	---
Naphthalene	ug/l	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	**40**	*8*
Phenanthrene	ug/l	0.111	0.25	<0.045	<0.045	<0.045	<0.045	0.049	<0.045	**---**	---
Pyrene	ug/l	0.173	0.27	<0.023	<0.023	<0.023	<0.023	0.045	<0.023	**250**	*50*

Notes:
Bold concentrations exceed NR 140 ES
Italicized concentrations exceed NR 140 PAL
--- - not analyzed/no standard established
J - concentration detected between the laboratory limit of detection and the limit of quantitation
ES - NR 140 Enforcement Standard
PAH - polynuclear aromatic hydrocarbons
PAL - NR 140 Preventive Action Limit
ug/l - micrograms per liter
VOC - volatile organic compounds
RCRA - resource conservation and recovery act
ND - Not detected above laboratory method detection limits
Trimethylbenzenes include 1,2,4− and 1,3,5− combined

A.1. GROUNDWATER ANALYTICAL TABLE (Page 1 of 3)

Midwest Tanning Corp. (Former)
1200 Davis Avenue
South Milwaukee, Wisconsin
BRRTS No. 02-41-556117

Analytical Parameter	Sample ID / Date / Units	MW-5 3/30/2011	MW-5 11/11/2011	MW-5 5/3/2012	MW-5 6/5/2012	MW-6 3/29/2011	MW-6 11/11/2011	MW-6 5/3/2012	MW-6 6/5/2012	MW-7 3/29/2011	MW-7 11/11/2011	MW-7 5/3/2012	MW-7 6/5/2012	MW-8 3/29/2011	MW-8 11/11/2011	MW-8 5/3/2012	MW-8 6/5/2012	NR 140 ES	NR 140 PAL
Detected VOCs																			
Bromomethane	ug/l	<0.91	<0.91	<0.91	---	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	2.1	<0.91	<0.91	---	**10**	*1*
n-Butylbenzene	ug/l	<0.93	<0.93	<0.93	---	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	1.1	---	**---**	---
Chloromethane	ug/l	<0.24	0.33J	<0.24	---	<0.24	0.49J	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	*5.2*	1.6	---	**30**	*3*
Ethylbenzene	ug/l	<0.54	<0.54	<0.54	---	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	1.2	1.0	0.78J	---	**700**	*140*
p-Isopropyltoluene	ug/l	<0.67	<0.67	<0.67	---	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	1.0	0.97J	0.79J	---	**---**	---
Methylene Chloride	ug/l	<0.43	0.73J	<0.43	---	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	---	**5**	*0.5*
Naphthalene	ug/l	<0.89	<0.89	<0.89	---	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	3.9J	6.1	4.1J	---	**100**	*10*
n-Propylbenzene	ug/l	<0.81	<0.81	<0.81	---	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	0.85J	<0.81	---	**---**	---
Trimethylbenzenes	ug/l	<0.97	<0.97	<0.97	---	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	8.4	9.5	6.4	---	**480**	*96*
Xylenes	ug/l	<1.8	<1.8	<1.8	---	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	4.1	3.3	0.83J	---	**2,000**	*400*
PAHs																			
Acenaphthene	ug/l	0.0093J	---	---	---	0.020J	<0.0045	<0.0029	<0.0029	0.015J	0.017J	<0.0048	0.0080J	0.10J	0.16	0.13	---	**---**	---
Acenaphthylene	ug/l	0.0071J	---	---	---	<0.0038	<0.0036	<0.0029	<0.0029	0.022J	0.028J	0.0044J	0.0034J	<0.038	0.038J	0.029J	---	**---**	---
Anthracene	ug/l	0.041J	---	---	---	<0.0061	<0.0057	<0.0026	<0.0026	0.047J	0.069	0.011J	0.016J	<0.061	0.10	0.045J	---	**3,000**	*600*
Benzo(a)anthracene	ug/l	0.013J	---	---	---	0.0057J	0.0095J	<0.0042	<0.0042	0.16	0.22	0.029J	0.061	<0.038	0.0059J	0.0041J	---	**---**	---
Benzo(a)pyrene	ug/l	0.012J	---	---	---	0.0053J	0.0080J	<0.0042	<0.0042	*0.18*	***0.26***	*0.040J*	*0.072*	<0.030	0.0041J	<0.0031	---	**0.2**	*0.02*
Benzo(b)fluoranthene	ug/l	0.012J	---	---	---	0.0052J	0.010J	0.0045J	0.0098J	*0.18*	***0.23***	*0.043J*	*0.064*	<0.036	0.0045J	<0.0036	---	**0.2**	*0.02*
Benzo(g,h,i)perylene	ug/l	0.014J	---	---	---	0.0096J	0.019J	<0.0053	0.0065J	0.15	0.20	0.031J	0.047	<0.051	<0.0048	<0.0052	---	**---**	---
Benzo(k)fluoranthene	ug/l	0.011J	---	---	---	<0.0046	0.0066J	<0.0047	0.0072J	0.16	0.21	0.033J	0.053	<0.046	<0.0044	<0.0047	---	**---**	---
Chrysene	ug/l	*0.048J*	---	---	---	0.017J	*0.039J*	*0.013J*	0.0097J	*0.18*	***0.29***	*0.045J*	*0.070*	<0.037	0.014J	0.0082J	---	**0.2**	*0.02*
Dibenz(a,h)anthracene	ug/l	<0.0034	---	---	---	<0.0034	<0.0032	<0.0089	<0.0089	0.036J	0.055	0.0092J	0.020J	<0.034	<0.0032	<0.0034	---	**---**	---
Fluoranthene	ug/l	0.033J	---	---	---	0.0084J	0.014J	0.0076J	0.0063J	0.32	0.42	0.064	0.13	0.070J	0.063	0.038J	---	**400**	*80*
Fluorene	ug/l	<0.0051	---	---	---	0.0076J	<0.0048	<0.0029	<0.0029	0.020J	0.026J	<0.0051	0.0075J	0.13J	0.24	0.20	---	**400**	*80*
Indeno(1,2,3-cd)pyrene	ug/l	0.0071J	---	---	---	<0.0050	0.0048J	<0.0052	<0.0052	0.12	0.16	0.024J	0.040J	<0.050	<0.0047	<0.0050	---	**---**	---
1-Methylnaphthalene	ug/l	0.024J	---	---	---	0.076	0.0061J	0.0098J	<0.0044	0.027J	0.036J	0.0062J	0.0085J	3.4	4.2	2.8	---	**---**	---
2-Methylnaphthalene	ug/l	0.019J	---	---	---	0.057	0.0075J	0.010J	<0.0046	0.033J	0.043J	0.0092J	0.012J	1.6	0.87	2.3	---	**---**	---
Naphthalene	ug/l	0.025J	---	---	---	0.42	0.041J	0.012J	<0.0045	0.029J	0.047J	0.031J	0.015J	0.78	0.32	1.6	---	**100**	*10*
Phenanthrene	ug/l	0.12	---	---	---	0.019J	0.016J	0.016J	0.012J	0.19	0.24	0.031J	0.086	<0.086	0.036J	0.073	---	**---**	---
Pyrene	ug/l	0.041J	---	---	---	0.017J	0.028J	0.0097J	0.0057J	0.27	0.40	0.051	0.12	0.051J	0.06	0.026J	---	**250**	*50*
Detected RCRA Metals																			
Arsenic	ug/l	*1.7J*	**---**	**---**	**---**	*7.2J*	*6.8J*	***12.0J***	<4.7	***13.4J***	***19.0J***	***16.1J***	***15.2J***	*5.3J*	***10.7J***	*7.7J*	---	**10**	*1*
Barium	ug/l	33.7	**---**	**---**	**---**	40.1	72.2	38.6	37.8	*502*	***2390***	*933*	*617*	151	13.1	21.8	---	**2,000**	*400*
Cadmium	ug/l	0.44J	**---**	**---**	**---**	<0.26	0.44J	0.34J	<0.39	*0.50J*	0.37J	<0.39	*0.51J*	<0.26	<0.13	<0.39	---	**5**	*0.5*
Chromium	ug/l	<0.50	**---**	**---**	**---**	<0.44	4.4J	<2.0	<2.4	*43.1*	4.8J	*58.9*	*36.0*	1.1J	0.87J	4.9J	---	**100**	*10*
Lead	ug/l	<1.7	**---**	**---**	**---**	*2.1J*	*4.3J*	*2.7J*	<1.4	*12.0*	*1.9J*	*13.0*	*7.5J*	<1.4	<1.5	*3.6J*	---	**15**	*1.5*
Selenium	ug/l	2.0J	**---**	**---**	**---**	<2.1	<2.2	<6.5	<5.8	<2.1	<2.2	<5.8	<5.8	2.5J	7.1J	<5.8	---	**50**	*10*

Notes:
Bold concentrations exceed NR 140 ES
Italicized concentrations exceed NR 140 PAL
--- - not analyzed/no standard established
J - estimated concentration detected between the laboratory limit of detection and the limit of quantitation
ES - NR 140 Enforcement Standard
PAHs - polynuclear aromatic hydrocarbons
PAL - NR 140 Preventive Action Limit
ug/l - micrograms per liter
VOCs - volatile organic compounds
ND - Not detected above laboratory method detection limits
RCRA - resource conservation and recovery act
Trimethylbenzenes include 1,2,4− and 1,3,5− combined
Xylenes include meta−, ortho−, and para−xylene combined

A.1. GROUNDWATER ANALYTICAL TABLE (Page 2 of 3)

Midwest Tanning Corp. (Former)
1200 Davis Avenue
South Milwaukee, Wisconsin
BRRTS No. 02-41-556117

Analytical Parameter	Sample ID / Date / Units	MW-9 3/29/2011	MW-9 11/11/2011	MW-9 5/3/2012	MW-9 6/5/2012	MW-10 3/29/2011	MW-10 11/11/2011	MW-10 5/3/2012	MW-10 6/5/2012	MW-11 3/29/2011	MW-11 11/11/2011	MW-11 5/3/2012	MW-11 6/5/2012	NR 140 ES	NR 140 PAL
Detected VOCs															
Chloroethane	ug/l	<0.97	<0.97	<0.97	---	<0.97	<0.97	<0.97	<0.97	<0.97	1.7	<0.97	<0.97	**400**	*80*
Chloromethane	ug/l	<0.24	2.3	<0.24	---	<0.24	6.0	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	**30**	*3*
PAHs															
Acenaphthene	ug/l	0.018J	<0.0045	<0.0048	---	0.21	0.033J	0.012J	0.075	0.022J	0.0049J	<0.0048	<0.0029	**---**	---
Acenaphthylene	ug/l	<0.0038	<0.0036	<0.0038	---	0.016J	0.0043J	<0.0039	<0.0034	0.0078J	<0.0036	<0.0038	<0.0029	**---**	---
Anthracene	ug/l	<0.0061	<0.0057	<0.0061	---	0.50	0.12	0.043J	0.18	0.050J	0.0063J	0.0069J	0.0030J	**3,000**	*600*
Benzo(a)anthracene	ug/l	<0.0038	0.0057J	<0.0038	---	0.41	0.15	0.034J	0.23	0.11	0.011J	0.018J	<0.0042	**---**	---
Benzo(a)pyrene	ug/l	<0.0030	<0.0029	<0.0030	---	***0.32***	*0.14*	*0.031J*	***0.20***	*0.11*	0.0099J	0.019J	<0.0042	**0.2**	*0.02*
Benzo(b)fluoranthene	ug/l	0.0037J	0.0054J	<0.0036	---	***0.26***	*0.11*	*0.023J*	*0.15*	*0.11*	0.011J	*0.024J*	<0.0045	**0.2**	*0.02*
Benzo(g,h,i)perylene	ug/l	0.0071J	0.012J	<0.0051	---	0.20	0.089	0.023J	0.11	0.11	0.013J	0.022J	<0.0053	**---**	---
Benzo(k)fluoranthene	ug/l	<0.0046	<0.0044	<0.0046	---	0.27	0.11	0.032J	0.14	0.12	0.0094J	0.014J	<0.0047	**---**	---
Chrysene	ug/l	0.015J	*0.027J*	0.0064J	---	***0.39***	*0.18*	*0.050J*	***0.21***	*0.16*	*0.023J*	*0.038J*	0.0079J	**0.2**	*0.02*
Dibenz(a,h)anthracene	ug/l	<0.0034	<0.0032	<0.0034	---	0.065J	0.022J	0.0051J	0.042J	0.025J	0.0038J	0.0049J	<0.0089	**---**	---
Fluoranthene	ug/l	0.0072J	0.0060J	<0.0047	---	0.97	0.34	0.099	0.47	0.37	0.035J	0.050J	0.017J	**400**	*80*
Fluorene	ug/l	0.0098J	<0.0048	<0.0051	---	0.29	0.067	0.024J	0.13	0.037J	0.0054J	<0.0051	0.0041J	**400**	*80*
Indeno(1,2,3-cd)pyrene	ug/l	<0.0050	<0.0047	<0.0050	---	0.16	0.071	0.015J	0.097	0.073	0.0067J	0.011J	<0.0052	**---**	---
1-Methylnaphthalene	ug/l	0.026J	0.0065J	0.0077J	---	0.10J	0.015J	<0.0054	0.018J	0.021J	0.0061J	<0.0053	<0.0044	**---**	---
2-Methylnaphthalene	ug/l	0.018J	0.0070J	0.0096J	---	0.15	0.016J	0.0051J	0.022J	0.026J	0.0070J	0.0050J	<0.0046	**---**	---
Naphthalene	ug/l	0.091	0.011J	0.014J	---	0.36	0.042J	0.0084J	0.030J	0.067	0.011J	<0.0051	0.0074J	**100**	*10*
Phenanthrene	ug/l	0.016J	0.0097J	<0.0086	---	1.3	0.24	0.075	0.46	0.34	0.033J	0.030J	0.023J	**---**	---
Pyrene	ug/l	0.0087J	0.017J	<0.0050	---	0.77	0.31	0.077	0.43	0.26	0.033J	0.053	0.012J	**250**	*50*
Detected RCRA Metals															
Arsenic	ug/l	***4.6J***	***8.1J***	***14.3J***	**---**	***25.7***	***4.0J***	***31.6***	***39.3***	***18.3J***	***24.5***	***29.8***	***17.9J***	**10**	*1*
Barium	ug/l	60.1	30.4	168	**---**	313	74.2	398	*446*	107	160	187	123	**2,000**	*400*
Cadmium	ug/l	0.27J	0.26J	<0.39	**---**	*1.2J*	*0.24J*	<0.39	*1.9J*	0.34J	0.47J	<0.39	<0.39	**5**	*0.5*
Chromium	ug/l	6.2	0.59J	*27.4*	**---**	***242***	*56.8*	***295***	***358***	***300***	***365***	***234***	*93.9*	**100**	*10*
Lead	ug/l	*5.7J*	*2.2J*	***16.6***	**---**	***46.7***	<1.5	***51.2***	***59.0***	***25.3***	***34.3***	***28.4***	*13.0*	**15**	*1.5*
Selenium	ug/l	<2.1	2.2J	<5.8	**---**	3.0J	3.0J	<5.8	<5.8	4.0J	<2.2	<5.8	<5.8	**50**	*10*
Mercury	ug/l	<0.10	<0.10	<0.10	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.12J	<0.10	**2**	*0.2*

Notes:

Bold concentrations exceed NR 140 ES
Italicized concentrations exceed NR 140 PAL
--- - not analyzed/no standard established
J - estimated concentration detected between the laboratory limit of detection and the limit of quantitation
ES - NR 140 Enforcement Standard
PAHs - polynuclear aromatic hydrocarbons
PAL - NR 140 Preventive Action Limit
ug/l - micrograms per liter
VOCs - volatile organic compounds
ND - Not detected above laboratory method detection limits
RCRA - resource conservation and recovery act
Trimethylbenzenes include 1,2,4− and 1,3,5− combined
Xylenes include meta−, ortho−, and para−xylene combined

A.1. GROUNDWATER ANALYTICAL TABLE (Page 3 of 3)

Midwest Tanning Corp. (Former)
1200 Davis Avenue
South Milwaukee, Wisconsin
BRRTS No. 02-41-556117

Analytical Parameter	Sample ID / Date / Units	MW-4 6/10/2013	MW-4 9/10/2013	MW-4 11/26/2013	MW-4 2/27/2014	MW-5 6/10/2013	MW-5 9/10/2013	MW-5 11/26/2013	MW-5 2/27/2014	MW-6 6/10/2013	MW-6 9/10/2013	MW-6 11/26/2013	MW-6 2/28/2014	NR 140 ES	NR 140 PAL
PAHs															
Acenaphthene	ug/l	0.023J	<0.0064	<0.021	<0.018	0.0055J	0.013J	<0.021	<0.018	0.0040J	0.012J	<0.021	<0.018	---	---
Acenaphthylene	ug/l	0.0041J	<0.0053	<0.02	<0.02	<0.0035	<0.0053	<0.02	<0.02	<0.0035	<0.0053	<0.02	<0.02	---	---
Anthracene	ug/l	0.047	<0.0062	<0.02	0.025J	0.0060J	<0.0062	<0.02	<0.018	0.012J	0.035J	<0.02	<0.018	**3,000**	*600*
Benzo(a)anthracene	ug/l	0.081	<0.0065	0.041J	0.06J	<0.0047	<0.0065	0.031J	0.026J	0.018J	0.036J	0.033J	0.036J	---	---
Benzo(a)pyrene	ug/l	*0.065*	<0.011	*0.021J*	*0.029J*	<0.0049	<0.011	<0.018	<0.02	0.015J	*0.029J*	<0.018	<0.02	**0.2**	*0.02*
Benzo(b)fluoranthene	ug/l	*0.066*	<0.0083	*0.026J*	*0.049J*	<0.0067	<0.0083	<0.02	<0.019	0.015J	*0.033J*	<0.02	*0.023J*	**0.2**	*0.02*
Benzo(g,h,i)perylene	ug/l	0.045J	<0.0090	<0.023	0.031J	<0.0080	<0.0090	<0.023	<0.024	0.012J	0.021J	<0.023	<0.024	---	---
Benzo(k)fluoranthene	ug/l	0.067	<0.012	<0.027	<0.027	<0.010	<0.012	<0.027	<0.027	0.013J	0.025J	<0.027	<0.027	---	---
Chrysene	ug/l	*0.099*	<0.0080	*0.022J*	*0.061*	0.0072J	<0.0080	<0.018	<0.018	*0.026J*	*0.043J*	<0.018	*0.024J*	**0.2**	*0.02*
Dibenz(a,h)anthracene	ug/l	0.015J	<0.0074	<0.023	<0.028	<0.0054	<0.0074	<0.023	<0.028	<0.0055	<0.0074	<0.023	<0.028	---	---
Fluoranthene	ug/l	0.20	0.0063J	0.036J	0.107	0.012J	0.010J	<0.026	<0.022	0.042J	0.12	0.027J	0.045J	**400**	*80*
Fluorene	ug/l	0.031J	<0.0072	<0.02	<0.022	<0.0038	<0.0072	<0.02	<0.022	0.0065J	0.017J	<0.02	<0.022	**400**	*80*
Indeno(1,2,3-cd)pyrene	ug/l	0.037J	<0.0095	<0.027	<0.027	<0.0058	<0.0095	<0.027	<0.027	0.0086J	0.016J	<0.027	<0.027	---	---
1-Methylnaphthalene	ug/l	0.011J	<0.0070	<0.019	<0.021	<0.0036	0.0086J	<0.019	<0.021	0.0083J	<0.0070	<0.019	<0.021	---	---
2-Methylnaphthalene	ug/l	0.015J	<0.0068	<0.016	<0.024	<0.0061	<0.0068	<0.016	<0.024	<0.0062	<0.0068	<0.016	<0.024	---	---
Naphthalene	ug/l	0.011J	<0.0051	<0.023	<0.023	0.0071J	0.019J	<0.023	<0.023	<0.0034	0.0067J	<0.023	<0.023	**100**	*10*
Phenanthrene	ug/l	0.19	0.011J	0.027J	0.076	0.014J	0.017J	0.020J	<0.018	0.043J	0.12	<0.018	0.026J	---	---
Pyrene	ug/l	0.19	<0.0059	0.032J	0.094	0.012J	0.0068J	<0.025	<0.022	0.041J	0.1	<0.025	0.04J	**250**	*50*
RCRA Metals															
Arsenic	ug/l	<4.4	<4.2	*7.1*	*7.0*	<4.4	<4.2	*1.2J*	*1.3J*	*7.9J*	*7.5J*	*5.4*	*6.9*	**10**	*1*
Barium	ug/l	23.7	19.3	124	52.3	35.8	38.1	55.7	181	34.5	35.6	40.2	57.6	**2,000**	*400*
Cadmium	ug/l	0.43J	<0.48	<0.5	<0.5	<0.38	<0.48	<0.5	<0.5	0.41J	<0.48	<0.5	<0.5	**5**	*0.5*
Chromium	ug/l	<1.2	<1.4	*29.2*	<2.6	3.4J	4.0J	*15.3*	*17.6*	<1.2	2.2J	<2.6	<2.6	**100**	*10*
Lead	ug/l	1.4J	<2.7	***48***	<0.7	<1.2	<2.7	<0.7	<0.7	1.3J	<2.7	<0.7	*2.0J*	**15**	*1.5*
Selenium	ug/l	<6.6	<5.2	<1	<1	<6.6	<5.2	<1	2.9	<6.6	<5.2	<1	<1	**50**	*10*
Silver	ug/l	<1.4	<1.7	<10.3	<10.3	<1.4	<1.7	<10.3	<10.3	1.5J	<1.7	<10.3	<10.3	**50**	*10*
Mercury	ug/l	<0.10	<0.10	<0.04	<0.04	<0.10	<0.10	<0.04	<0.04	<0.10	<0.10	<0.04	<0.04	**2**	*0.2*

Notes:

Bold concentrations exceed NR 140 ES
Italicized concentrations exceed NR 140 PAL
--- - not analyzed/no standard established
J - estimated concentration detected between the laboratory limit of detection and the limit of quantitation
ug/l - micrograms per liter
No VOCs were detected in any of the collected groundwater samples from these wells

ES - NR 140 Enforcement Standard
PAL - NR 140 Preventive Action Limit
PAH - polynuclear aromatic hydrocarbons
VOC - volatile organic compounds
RCRA - resource conservation and recovery act

A.2. SOIL ANALYTICAL RESULTS TABLE (Page 1 of 22) (PSI)

City of South Milwaukee Vacant Parcel
222 North Chicago Avenue
South Milwaukee, Wisconsin
BRRTS No. 02-41-556175

Analytical Parameter	Depth Date Units	SP-1 0' - 4' 3/7/11	SP-2 0' - 4' 3/7/11	SP-3 0' - 4' 3/7/11	SP-6 0' - 4' 3/7/11	SP-7 0' - 2.5' 3/7/11	NR 720 RCL DC-I	NR 720 RCL DC-NI	NR 720 RCL GW	NR720 BTV
PID	i.u.	0.0	0.0	0.0	0.0	0.0	---	---	---	---
Saturated/Unsaturated		u	u	u	u	u	---	---	---	---
DRO	mg/kg	---	---	---	52.3	19.9	---	---	---	---
GRO	mg/kg	---	---	---	3.4	<2.8	---	---	---	---
Detected VOCs										
Naphthalene	ug/kg	---	---	---	131	<25.0	**24,100**	**5,150**	*658.2*	---
PAHs										
Acenaphthene	ug/kg	---	---	---	47.0J	123J	**45,200,000**	**3,590,000**	---	---
Acenaphthylene	ug/kg	---	---	---	105	133J	---	---	---	---
Anthracene	ug/kg	---	---	---	207	541	**100,000,000**	**17,900,000**	*196,949.2*	---
Benzo(a)anthracene	ug/kg	---	---	---	666	**1,450**	**20,800**	**1,140**	---	---
Benzo(a)pyrene	ug/kg	---	---	---	***790***	***1,390***	**2,110**	**115**	*470*	---
Benzo(b)fluoranthene	ug/kg	---	---	---	*825*	***1,310***	**21,100**	**1,150**	*479.3*	---
Benzo(g,h,i)perylene	ug/kg	---	---	---	507	796	---	---	---	---
Benzo(k)fluoranthene	ug/kg	---	---	---	808	1,290	**211,000**	**11,500**	---	---
Chrysene	ug/kg	---	---	---	*838*	*1,400*	**2,110,000**	**11,500**	*144.6*	---
Dibenz(a,h)anthracene	ug/kg	---	---	---	**212**	**237J**	**2,110**	**115**	---	---
Fluoranthene	ug/kg	---	---	---	1,140	3,540	**30,100,000**	**2,390,000**	*88,877.8*	---
Fluorene	ug/kg	---	---	---	68.8	137J	**30,100,000**	**2,390,000**	*14,829.9*	---
Indeno(1,2,3-cd)pyrene	ug/kg	---	---	---	439	715	**21,100**	**1,150**	---	---
1-Methylnaphthalene	ug/kg	---	---	---	532	59.3J	**72,700**	**17,600**	---	---
2-Methylnaphthalene	ug/kg	---	---	---	560	71.3J	**3,010,000**	**239,000**	---	---
Naphthalene	ug/kg	---	---	---	471	80.1J	**24,100**	**5,520**	*658.2*	---
Phenanthrene	ug/kg	---	---	---	1,030	1,780	---	---	---	---
Pyrene	ug/kg	---	---	---	991	3,280	**22,600,000**	**1,790,000**	*54,545.5*	---
RCRA Metals										
Arsenic	mg/kg	***(17.2)***	***6.2***	***(9.5)***	***6.9***	***5.4***	**3**	**0.677**	*0.584*	(8)
Barium	mg/kg	66.7	65.6	63.6	48.9	49.6	**100,000**	**15,300**	*164.8*	(364)
Cadmium	mg/kg	*0.87*	0.47J	0.39J	0.43J	0.61	**985**	**71.1**	*0.752*	(1)
Chromium (a)	mg/kg	21.6	(963)	(933)	21.1	(68.9)	**(b)**	**(b)**	*360,000(c)*	(44) (d)
Lead	mg/kg	*46.8*	*41.1*	*42.0*	*46.0*	*(131)*	**800**	**400**	*27*	(52)
Mercury	mg/kg	0.17	0.16	0.069	0.090	0.076	**3**	**3.13**	*0.208*	---
Selenium	mg/kg	*0.59J*	0.41J	*0.66J*	*0.70J*	0.36J	**5,840**	**391**	*0.52*	---
Silver	mg/kg	0.098J	0.055J	0.11J	0.054J	0.12J	**5,840**	**391**	*0.8491*	---
Cumulative Hazard Index		0.5054	0.0114	0.2786	0.061	0.1294	---	---	---	---
Cumulative Cancer Risk		2.5E-05	0	1.4E-05	1.1E-05	1.7E-05	---	---	---	---

Notes:
Bold concentrations exceed NR 720 non-industrial direct contact RCL
Boxed and bold concentrations exceed NR 720 industrial direct contact RCL
Italicized concentrations exceed NR 720 groundwater pathway RCL
Concentrations in ( ) exceed NR 720 BTV
--- - Not analyzed/Not Established
J - concentration detected between the laboratory Limit of Detection and the Limit of Quantitation
i.u. - instrument units
mg/kg -milligrams per kilogram, parts per million
ug/kg -micrograms per kilogram, parts per billion
s - saturated
u - unsaturated

PAH - polynuclear aromatic hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
PID - photoionization detector
RCL - residual contaminant level
VOC - volatile organic compounds
RCRA - resource conservation and recovery act
BTV - Background Threshold Value
DC-I - direct contact - industrial
DC-NI - direct contact - non-industrial
GW - groundwater pathway

a - Total Chromium laboratory analytical results may be comprised of trivalent (Cr III) and/or Hexavalent (Cr VI) chromium
b: DC RCL for Chromium VI is 0.301 mg/kg (NI) and 6.36 mg/kg (I) and DC RCL for Chromium III is 100,000 mg/kg.
c: use 360,000 mg/kg for DC RCL, if no CR-VI is present
d: BTV applies to Total Chromium

A.2. SOIL ANALYTICAL RESULTS TABLE (Page 2 of 22) (PSI)

City of South Milwaukee Vacant Parcel
222 North Chicago Avenue
South Milwaukee, Wisconsin
BRRTS No. 02-41-556175

Analytical Parameter	Depth / Date / Units	SP-8 0' - 4' 3/7/11	SP-9 0' - 4' 3/7/11	SP-10 0' - 4' 3/7/11	SP-11 0' - 4' 3/7/11	SP-12 0' - 4' 3/7/11	NR 720 RCL DC-I	NR 720 RCL DC-NI	NR 720 RCL GW	NR720 BTV
PID	i.u.	0.0	0.0	0.0	0.0	0.0	---	---	---	---
Saturated/Unsaturated		u	u	u	u	u	---	---	---	---
DRO	mg/kg	13.2	5.9	7.0	2.8	7.9	---	---	---	---
GRO	mg/kg	<2.7	<2.8	<2.8	<2.7	<3.0	---	---	---	---
Detected VOCs										
Naphthalene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	**24,100**	**5,520**	*658.2*	---
PAHs										
Acenaphthene	ug/kg	13.4J	33.5J	<2.7	12.5J	9.1J	**45,200,000**	**3,590,000**	---	---
Acenaphthylene	ug/kg	65.4	129	<3.0	<2.8	<3.1	**---**	**---**	---	---
Anthracene	ug/kg	121	164	12.0J	35.6	23.8	**100,000,000**	**17,900,000**	*196,949.2*	---
Benzo(a)anthracene	ug/kg	418	406	41.3	49.9	46.4	**20,800**	**1,140**	---	---
Benzo(a)pyrene	ug/kg	***569***	**431**	48.4	38.8	43.3	**2,110**	**115**	*470*	---
Benzo(b)fluoranthene	ug/kg	*637*	*562*	48.7	38.0	42.6	**21,100**	**1,150**	*479.3*	---
Benzo(g,h,i)perylene	ug/kg	578	346	30.8	13.5J	17.7J	**---**	**---**	---	---
Benzo(k)fluoranthene	ug/kg	519	318	49.9	38.2	45.4	**211,000**	**11,500**	---	---
Chrysene	ug/kg	*534*	*702*	46.2	43.5	49.4	**2,110,000**	**11,500**	*144.6*	---
Dibenz(a,h)anthracene	ug/kg	**135**	**133**	9.5J	5.5J	7.1J	**2,110**	**115**	---	---
Fluoranthene	ug/kg	767	762	71.9	115	108	**30,100,000**	**2,390,000**	*88,877.8*	---
Fluorene	ug/kg	20.7J	71.8	<4.7	21.0	15.0J	**30,100,000**	**2,390,000**	*14,829.9*	---
Indeno(1,2,3-cd)pyrene	ug/kg	432	224	25.1	14.9J	18.4J	**21,100**	**1,150**	---	---
1-Methylnaphthalene	ug/kg	75.2	494	<2.9	4.3J	6.5J	**72,700**	**17,600**	---	---
2-Methylnaphthalene	ug/kg	101	588	<2.9	6.6J	10.6J	**3,010,000**	**239,000**	---	---
Naphthalene	ug/kg	94.9	463	3.4J	14.5J	19.3J	**24,100**	**5,520**	*658.2*	---
Phenanthrene	ug/kg	357	1,110	29.3	104	86.8	**---**	**---**	---	---
Pyrene	ug/kg	683	726	66.6	90.8	88.8	**22,600,000**	**1,790,000**	*54,545.5*	---
RCRA Metals										
Arsenic	mg/kg	***5.7***	***5.1***	***2.0J***	***2.9***	***6.2***	**3**	**0.677**	*0.584*	(8)
Barium	mg/kg	57.3	83.8	12.1	15.6	73.4	**100,000**	**15,300**	*164.8*	(364)
Cadmium	mg/kg	*(1)*	0.59	0.25J	0.26J	0.40J	**985**	**71.1**	*0.752*	(1)
Chromium (a)	mg/kg	31.9	(96.2)	8.1	14.8	20.5	**(b)**	**(b)**	*360,000(c)*	(44) (d)
Lead	mg/kg	*(94.5)*	*(96.9)*	6.4	6.9	25.2	**800**	**400**	*27*	(52)
Mercury	mg/kg	0.053	0.12	0.013	0.016	0.032	**3**	**3.13**	*0.208*	---
Selenium	mg/kg	0.23J	*0.72J*	0.25J	<0.17	<0.18	**5,840**	**391**	*0.52*	---
Silver	mg/kg	0.087J	0.083J	<0.047	<0.046	<0.051	**5,840**	**391**	*0.8491*	---
Cumulative Hazard Index		0.2788	0.2821	0.0037	0.0034	0.0046	---	---	---	---
Cumulative Cancer Risk		7.6E-06	6.1E-06	6.1E-07	8.7E-07	5.4E-07	---	---	---	---

Notes:

Bold concentrations exceed NR 720 non-industrial direct contact RCL
Boxed and bold concentrations exceed NR 720 industrial direct contact RCL
Italicized concentrations exceed NR 720 groundwater pathway RCL
Concentrations in ( ) exceed NR 720 BTV
--- - Not analyzed/Not Established
J - concentration detected between the laboratory Limit of Detection and the Limit of Quantitation
i.u. - instrument units
mg/kg -milligrams per kilogram, parts per million
ug/kg -micrograms per kilogram, parts per billion
s - saturated
u - unsaturated

PAH - polynuclear aromatic hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
PID - photoionization detector
RCL - residual contaminant level
VOC - volatile organic compounds
RCRA - resource conservation and recovery act
BTV - Background Threshold Value
DC-I - direct contact - industrial
DC-NI - direct contact - non-industrial
GW - groundwater pathway

a - Total Chromium laboratory analytical results may be comprised of trivalent (Cr III) and/or Hexavalent (Cr VI) chromium
b: DC RCL for Chromium VI is 0.301 mg/kg (NI) and 6.36 mg/kg (I) and DC RCL for Chromium III is 100,000 mg/kg.
c: use 360,000 mg/kg for DC RCL, if no CR-VI is present
d: BTV applies to Total Chromium

A.2. SOIL ANALYTICAL RESULTS TABLE (Page 3 of 22) (PSI)

City of South Milwaukee Vacant Parcel
222 North Chicago Avenue
South Milwaukee, Wisconsin
BRRTS No. 02-41-556175

Analytical Parameter	Depth / Date / Units	SP-13 0' - 4' 3/7/11	SP-14 0' - 4' 3/7/11	SP-15 0' - 4' 3/7/11	SP-16 0' - 4' 3/7/11	SP-17 0' - 4' 3/7/11	NR 720 RCL DC-I	NR 720 RCL DC-NI	NR 720 RCL GW	NR720 BTV
PID	i.u.	0.0	0.0	0.0	0.0	0.0	---	---	---	---
Saturated/Unsaturated		u	u	u	u	u	---	---	---	---
DRO	mg/kg	4.2	12.7	23.3	9.9	9.2	---	---	---	---
GRO	mg/kg	<2.8	<2.8	<2.8	<2.8	<2.8	---	---	---	---
Detected VOCs										
Naphthalene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	**24,100**	**5,520**	*658.2*	---
PAHs										
Acenaphthene	ug/kg	10.4J	22.1J	4.0J	3.5J	33.8J	**45,200,000**	**3,590,000**	---	---
Acenaphthylene	ug/kg	7.6J	51.5	16.9J	32.3	50.7J	**---**	**---**	---	---
Anthracene	ug/kg	27.7	125	44.7	19.1	279	**100,000,000**	**17,900,000**	*196,949.2*	---
Benzo(a)anthracene	ug/kg	81.5	408	174	73.6	660	**20,800**	**1,140**	---	---
Benzo(a)pyrene	ug/kg	107	***516***	**267**	96.4	***733***	**2,110**	**115**	*470*	---
Benzo(b)fluoranthene	ug/kg	108	*563*	231	87.9	*1,080*	**21,100**	**1,150**	*479.3*	---
Benzo(g,h,i)perylene	ug/kg	45.3	181	126	62.0	160J	**---**	**---**	---	---
Benzo(k)fluoranthene	ug/kg	125	532	217	99.2	817	**211,000**	**11,500**	---	---
Chrysene	ug/kg	95.0	*497*	*223*	91.4	*2,360*	**2,110,000**	**11,500**	*144.6*	---
Dibenz(a,h)anthracene	ug/kg	18.1J	71.1	53.6	20.1	70.2J	**2,110**	**115**	---	---
Fluoranthene	ug/kg	147	805	226	153	1,200	**30,100,000**	**2,390,000**	*88,877.8*	---
Fluorene	ug/kg	14.4J	40.6	5.5J	<4.6	58.0J	**30,100,000**	**2,390,000**	*14,829.9*	---
Indeno(1,2,3-cd)pyrene	ug/kg	42.3	173	110	56.9	184J	**21,100**	**1,150**	---	---
1-Methylnaphthalene	ug/kg	5.3J	14.9J	4.2J	2.9J	<28.9	**72,700**	**17,600**	---	---
2-Methylnaphthalene	ug/kg	7.5J	20.1J	5.8J	3.6J	<28.9	**3,010,000**	**239,000**	---	---
Naphthalene	ug/kg	13.1J	19.9J	6.7J	4.3J	<33.1	**24,100**	**5,520**	*658.2*	---
Phenanthrene	ug/kg	87.0	365	76.0	51.7	553	**---**	**---**	---	---
Pyrene	ug/kg	136	729	249	136	1,700	**22,600,000**	**1,790,000**	*54,545.5*	---
RCRA Metals										
Arsenic	mg/kg	***5.5***	***4.5***	***(8.1)***	***(13.1)***	***6.5***	**3**	**0.677**	*0.584*	(8)
Barium	mg/kg	32.4	53.2	103.0	42.3	61.2	**100,000**	**15,300**	*164.8*	(364)
Cadmium	mg/kg	0.31J	0.43J	0.42J	0.30J	0.35J	**985**	**71.1**	*0.752*	(1)
Chromium (a)	mg/kg	11.1	20.7	15.0	14.3	22.1	**(b)**	**(b)**	*360,000(c)*	(44) (d)
Lead	mg/kg	14.0	*35.1*	18.4	24.8	24.3	**800**	**400**	*27*	(52)
Mercury	mg/kg	0.026	0.038	0.051	0.046	0.059	**3**	**3.13**	*0.208*	---
Selenium	mg/kg	<0.17	0.23J	<0.16	0.50J	0.29J	**5,840**	**391**	*0.52*	---
Silver	mg/kg	<0.047	0.089J	<0.045	0.054J	<0.045	**5,840**	**391**	*0.8491*	---
Cumulative Hazard Index		0.0077	0.0332	0.0186	0.385	0.0472	---	---	---	---
Cumulative Cancer Risk		1.3E-06	6.2E-06	3.3E-06	2.1E-05	8.8E-06	---	---	---	---

Notes:

Bold concentrations exceed NR 720 non-industrial direct contact RCL
Boxed and bold concentrations exceed NR 720 industrial direct contact RCL
Italicized concentrations exceed NR 720 groundwater pathway RCL
Concentrations in ( ) exceed NR 720 BTV
--- - Not analyzed/Not Established
J - concentration detected between the laboratory Limit of Detection and the Limit of Quantitation
i.u. - instrument units
mg/kg -milligrams per kilogram, parts per million
ug/kg -micrograms per kilogram, parts per billion
s - saturated
u - unsaturated

PAH - polynuclear aromatic hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
PID - photoionization detector
RCL - residual contaminant level
VOC - volatile organic compounds
RCRA - resource conservation and recovery act
BTV - Background Threshold Value
DC-I - direct contact - industrial
DC-NI - direct contact - non-industrial
GW - groundwater pathway

a - Total Chromium laboratory analytical results may be comprised of trivalent (Cr III) and/or Hexavalent (Cr VI) chromium
b: DC RCL for Chromium VI is 0.301 mg/kg (NI) and 6.36 mg/kg (I) and DC RCL for Chromium III is 100,000 mg/kg.
c: use 360,000 mg/kg for DC RCL, if no CR-VI is present
d: BTV applies to Total Chromium

A.2. SOIL ANALYTICAL RESULTS TABLE (Page 4 of 22) (PSI)

City of South Milwaukee Vacant Parcel
222 North Chicago Avenue
South Milwaukee, Wisconsin
BRRTS No. 02-41-556175

Analytical Parameter	Depth / Date / Units	SP-18 2.5' - 5' 3/7/11	SP-19 0' - 4' 3/7/11	SP-20 0' - 4' 3/7/11	SP-21 0' - 4' 3/7/11	SP-22 0' - 4' 3/7/11	NR 720 RCL DC-I	NR 720 RCL DC-NI	NR 720 RCL GW	NR720 BTV
PID	i.u.	0.0	0.0	0.0	0.0	0.0	---	---	---	---
Saturated/Unsaturated		u	u	u	u	u	---	---	---	---
DRO	mg/kg	2.6	13.6	13.0	5.0	<0.61	---	---	---	---
GRO	mg/kg	<2.9	<2.8	<2.8	<2.9	<2.8	---	---	---	---
Detected VOCs										
Naphthalene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	**24,100**	**5,520**	*658.2*	---
PAHs										
Acenaphthene	ug/kg	<2.7	7.2J	94.6J	3.5J	<2.6	**45,200,000**	**3,590,000**	---	---
Acenaphthylene	ug/kg	<3.1	5.6J	52.5J	5.3J	<3.0	**---**	**---**	---	---
Anthracene	ug/kg	<4.5	34.2	353	19.0J	<4.3	**100,000,000**	**17,900,000**	*196,949.2*	---
Benzo(a)anthracene	ug/kg	17.8J	126	706	85.6	10.1J	**20,800**	**1,140**	---	---
Benzo(a)pyrene	ug/kg	19.3J	**142**	***691***	110	8.9J	**2,110**	**115**	*470*	---
Benzo(b)fluoranthene	ug/kg	18.5J	210	*831*	112	8.2J	**21,100**	**1,150**	*479.3*	---
Benzo(g,h,i)perylene	ug/kg	10.2J	36.7	173J	59.7	4.2J	**---**	**---**	---	---
Benzo(k)fluoranthene	ug/kg	21.4	151	730	133	11.0J	**211,000**	**11,500**	---	---
Chrysene	ug/kg	19.0J	*147*	*758*	115	11.8J	**2,110,000**	**11,500**	*144.6*	---
Dibenz(a,h)anthracene	ug/kg	<5.3	17.2J	78.9J	21.2	<5.0	**2,110**	**115**	---	---
Fluoranthene	ug/kg	31.5	261	1,550	215	16.8J	**30,100,000**	**2,390,000**	*88,877.8*	---
Fluorene	ug/kg	<4.8	7.2J	132J	<4.8	<4.6	**30,100,000**	**2,390,000**	*14,829.9*	---
Indeno(1,2,3-cd)pyrene	ug/kg	9.4J	40.7	188	60.1	4.0J	**21,100**	**1,150**	---	---
1-Methylnaphthalene	ug/kg	<3.0	3.0J	45.6J	3.5J	<2.8	**72,700**	**17,600**	---	---
2-Methylnaphthalene	ug/kg	<3.0	3.4J	54.9J	4.3J	<2.8	**3,010,000**	**239,000**	---	---
Naphthalene	ug/kg	<3.4	3.8J	49.6J	4.9J	<3.2	**24,100**	**5,520**	*658.2*	---
Phenanthrene	ug/kg	12.5J	112	997	80.5	8.6J	**---**	**---**	---	---
Pyrene	ug/kg	28.7	225	1,390	179	15.1J	**22,600,000**	**1,790,000**	*54,545.5*	---
RCRA Metals										
Arsenic	mg/kg	***(55.8)***	***5.8***	***5.2***	***7.1***	***(8.6J)***	**3**	**0.677**	*0.584*	(8)
Barium	mg/kg	*316*	41.5	86.5	*176*	43.6	**100,000**	**15,300**	*164.8*	(364)
Cadmium	mg/kg	*(1.9J)*	0.30J	0.55	*(1.2)*	*0.76J*	**985**	**71.1**	*0.752*	(1)
Chromium (a)	mg/kg	7.5	16.0	(117)	23.0	11.0	**(b)**	**(b)**	*360,000(c)*	(44) (d)
Lead	mg/kg	23.1	*29.0*	*(102)*	***(758)***	12.2	**800**	**400**	*27*	(52)
Mercury	mg/kg	0.049	0.034	0.11	*0.72*	0.058	**3**	**3.13**	*0.208*	---
Selenium	mg/kg	<1.8	<0.16	*0.62J*	<0.19	<0.76	**5,840**	**391**	*0.52*	---
Silver	mg/kg	<0.51	<0.043	0.047J	0.28J	0.13J	**5,840**	**391**	*0.8491*	---
Cumulative Hazard Index		1.6298	0.0104	0.3045	1.9649	0.251	---	---	---	---
Cumulative Cancer Risk		8.3E-05	1.7E-06	8.3E-06	1.4E-06	1.3E-05	---	---	---	---

Notes:

Bold concentrations exceed NR 720 non-industrial direct contact RCL
Boxed and bold concentrations exceed NR 720 industrial direct contact RCL
Italicized concentrations exceed NR 720 groundwater pathway RCL
Concentrations in ( ) exceed NR 720 BTV
--- - Not analyzed/Not Established
J - concentration detected between the laboratory Limit of Detection and the Limit of Quantitation
i.u. - instrument units
mg/kg -milligrams per kilogram, parts per million
ug/kg -micrograms per kilogram, parts per billion
s - saturated
u - unsaturated

PAH - polynuclear aromatic hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
PID - photoionization detector
RCL - residual contaminant level
VOC - volatile organic compounds
RCRA - resource conservation and recovery act
BTV - Background Threshold Value
DC-I - direct contact - industrial
DC-NI - direct contact - non-industrial
GW - groundwater pathway

a - Total Chromium laboratory analytical results may be comprised of trivalent (Cr III) and/or Hexavalent (Cr VI) chromium
b: DC RCL for Chromium VI is 0.301 mg/kg (NI) and 6.36 mg/kg (I) and DC RCL for Chromium III is 100,000 mg/kg.
c: use 360,000 mg/kg for DC RCL, if no CR-VI is present
d: BTV applies to Total Chromium

A.2. SOIL ANALYTICAL RESULTS TABLE (Page 5 of 22) (Celerity)

City of South Milwaukee Vacant Parcel
222 N. Chicago Avenue
South Milwaukee, Wisconsin
BRRTS No. 02-41-556175

Analytical Parameter	Depth / Date / Units	GP-1 S-1 3' 5/2/05	GP-2 2.5' 5/2/05	GP-3 3.5' 5/2/05	GP-5 S-1 15' 5/2/05	GP-5 S-2 24' 5/2/05	NR 720 RCL DC-I	NR 720 RCL DC-NI	NR 720 RCL GW	NR720 BTV
PID	i.u.	0	0	0	0	2	---	---	---	---
Saturated/Unsaturated		u	u	u	u	s	---	---	---	---
Detected VOCs										
Toluene	ug/kg	---	---	---	<26	63	**818,000**	**818,000**	*1,107.2*	---
PAHs										
Acenaphthene	ug/kg	<6.0	<6.4	<6.2	---	---	**45,200,000**	**3,590,000**	---	---
Acenaphthylene	ug/kg	<100	<110	<110	---	---	**---**	**---**	---	---
Anthracene	ug/kg	<6.0	<6.4	<6.2	---	---	**100,000,000**	**17,900,000**	*196,949.2*	---
Benzo(a)anthracene	ug/kg	<6.0	<6.4	<6.2	---	---	**20,800**	**1,140**	---	---
Benzo(a)pyrene	ug/kg	<6.0	<6.4	<6.2	---	---	**2,110**	**115**	*470*	---
Benzo(b)fluoranthene	ug/kg	<6.0	<6.4	<6.2	---	---	**21,100**	**1,150**	*479.3*	---
Benzo(g,h,i)perylene	ug/kg	<6.0	<6.4	<6.2	---	---	**---**	**---**	---	---
Benzo(k)fluoranthene	ug/kg	<6.0	<6.4	<6.2	---	---	**211,000**	**11,500**	---	---
Chrysene	ug/kg	<6.0	<6.4	<6.2	---	---	**2,110,000**	**11,500**	*144.6*	---
Dibenz(a,h)anthracene	ug/kg	<8.0	<8.5	<8.3	---	---	**2,110**	**115**	---	---
Fluoranthene	ug/kg	<12	<13	<12	---	---	**30,100,000**	**2,390,000**	*88,877.8*	---
Fluorene	ug/kg	<12	<13	<12	---	---	**30,100,000**	**2,390,000**	*14,829.9*	---
Indeno(1,2,3-cd)pyrene	ug/kg	<6.0	<6.4	<6.2	---	---	**21,100**	**1,150**	---	---
1-Methylnaphthalene	ug/kg	<38	<38	<37	---	---	**72,700**	**17,600**	---	---
2-Methylnaphthalene	ug/kg	<30	<32	<31	---	---	**3,010,000**	**239,000**	---	---
Naphthalene	ug/kg	<36	<38	<37	---	---	**24,100**	**5,520**	*658.2*	---
Phenanthrene	ug/kg	<6.0	<6.4	<6.2	---	---	**---**	**---**	---	---
Pyrene	ug/kg	<6.0	<6.4	<6.2	---	---	**22,600,000**	**1,790,000**	*54,545.5*	---
RCRA Metals										
Arsenic	mg/kg	<7.9	<14	<2.7	<23	<23	**3**	**0.677**	*0.584*	(8)
Barium	mg/kg	29	46	60	3	7.5	**100,000**	**15,300**	*164.8*	(364)
Cadmium	mg/kg	0.25	0.44	*0.93*	*(1.3)*	*(1.7)*	**985**	**71.1**	*0.752*	(1)
Chromium (a)	mg/kg	15	19	22	2.7	2.9	**(b)**	**(b)**	*360,000(c)*	(44) (d)
Lead	mg/kg	14	26	8.4	8.4	10	**800**	**400**	*27*	(52)
Mercury	mg/kg	0.033	0.030	<0.012	<0.011	0.029	**3.13**	**3.13**	*0.208*	---
Selenium	mg/kg	<4.8	<5.1	<5.0	<4.2	<4.1	**5,840**	**391**	*0.52*	---
Silver	mg/kg	<1.3	<1.4	0.7	<0.35	0.34	**5,840**	**391**	*0.8491*	---
Cumulative Hazard Index		0.0021	0.0019	0	0.0183	0.0258	---	---	---	---
Cumulative Cancer Risk		0	0	0	5.3E-10	7.0E-10	---	---	---	---

Notes:

Bold concentrations exceed NR 720 non-industrial direct contact RCL
Boxed and bold concentrations exceed NR 720 industrial direct contact RCL
Italicized concentrations exceed NR 720 groundwater pathway RCL
Concentrations in ( ) exceed NR 720 BTV
--- - Not analyzed/Not Established
J - concentration detected between the laboratory Limit of Detection and the Limit of Quantitation
i.u. - instrument units
mg/kg -milligrams per kilogram, parts per million
ug/kg -micrograms per kilogram, parts per billion
s - saturated
u - unsaturated

PAH - polynuclear aromatic hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
PID - photoionization detector
RCL - residual contaminant level
VOC - volatile organic compounds
RCRA - resource conservation and recovery act
BTV - Background Threshold Value
DC-I - direct contact - industrial
DC-NI - direct contact - non-industrial
GW - groundwater pathway

a - Total Chromium laboratory analytical results may be comprised of trivalent (Cr III) and/or Hexavalent (Cr VI) chromium
b: DC RCL for Chromium VI is 0.301 mg/kg (NI) and 6.36 mg/kg (I) and DC RCL for Chromium III is 100,000 mg/kg.
c: use 360,000 mg/kg for DC RCL, if no CR-VI is present
d: BTV applies to Total Chromium

A.2. SOIL ANALYTICAL RESULTS TABLE (Page 6 of 22) (Celerity)

City of South Milwaukee Vacant Parcel
222 N. Chicago Avenue
South Milwaukee, Wisconsin
BRRTS No. 02-41-556175

Analytical Parameter	Depth / Date / Units	GP-6 16' 5/2/05	GP-7 S-1 3' 5/2/05	GP-7 S-2 19' 5/2/05	GP-8 S-1 6' 5/2/05	GP-8 S-2 18' 5/2/05	NR 720 RCL DC-I	NR 720 RCL DC-NI	NR 720 RCL GW	NR720 BTV
PID	i.u.	5	4	2	3	2	---	---	---	---
Saturated/Unsaturated		u	u	s	u	s	---	---	---	---
Detected VOCs										
Toluene	ug/kg	110	110	73	140	65	**818,000**	**818,000**	*1,107.2*	---
PAHs										
Acenaphthene	ug/kg	---	---	---	---	---	**45,200,000**	**3,590,000**	---	---
Acenaphthylene	ug/kg	---	---	---	---	---	**---**	**---**	---	---
Anthracene	ug/kg	---	---	---	---	---	**100,000,000**	**17,900,000**	*196,949.2*	---
Benzo(a)anthracene	ug/kg	---	---	---	---	---	**20,800**	**1,140**	---	---
Benzo(a)pyrene	ug/kg	---	---	---	---	---	**2,110**	**115**	*470*	---
Benzo(b)fluoranthene	ug/kg	---	---	---	---	---	**21,100**	**1,150**	*479.3*	---
Benzo(g,h,i)perylene	ug/kg	---	---	---	---	---	**---**	**---**	---	---
Benzo(k)fluoranthene	ug/kg	---	---	---	---	---	**211,000**	**11,500**	---	---
Chrysene	ug/kg	---	---	---	---	---	**2,110,000**	**11,500**	*144.6*	---
Dibenz(a,h)anthracene	ug/kg	---	---	---	---	---	**2,110**	**115**	---	---
Fluoranthene	ug/kg	---	---	---	---	---	**30,100,000**	**2,390,000**	*88,877.8*	---
Fluorene	ug/kg	---	---	---	---	---	**30,100,000**	**2,390,000**	*14,829.9*	---
Indeno(1,2,3-cd)pyrene	ug/kg	---	---	---	---	---	**21,100**	**1,150**	---	---
1-Methylnaphthalene	ug/kg	---	---	---	---	---	**72,700**	**17,600**	---	---
2-Methylnaphthalene	ug/kg	---	---	---	---	---	**3,010,000**	**239,000**	---	---
Naphthalene	ug/kg	---	---	---	---	---	**24,100**	**5,520**	*658.2*	---
Phenanthrene	ug/kg	---	---	---	---	---	**---**	**---**	---	---
Pyrene	ug/kg	---	---	---	---	---	**22,600,000**	**1,790,000**	*54,545.5*	---
RCRA Metals										
Arsenic	mg/kg	<6.9	<2.7	***(22)***	<26	<12	**3**	**0.677**	*0.584*	(8)
Barium	mg/kg	2.9	62	11	26	6.9	**100,000**	**15,300**	*164.8*	(364)
Cadmium	mg/kg	*(1)*	*0.79*	*(1.6)*	*0.98*	*(1.6)*	**985**	**71.1**	*0.752*	(1)
Chromium (a)	mg/kg	2.8	13	0.77	14	2.9	**(b)**	**(b)**	*360,000(c)*	(44) (d)
Lead	mg/kg	8	11	<13	10	12	**800**	**400**	*27*	(52)
Mercury	mg/kg	<0.010	<0.012	<0.011	0.03	0.016	**3.13**	**3.13**	*0.208*	---
Selenium	mg/kg	<4.2	<4.8	<4.2	<4.7	<4.2	**5,840**	**391**	*0.52*	---
Silver	mg/kg	<0.12	<0.67	<0.35	<0.64	<0.58	**5,840**	**391**	*0.8491*	---
Cumulative Hazard Index		0	0	0.6529	0.0019	0.0235	---	---	---	---
Cumulative Cancer Risk		0	0	3.2E-05	0	6.6E-10	---	---	---	---

Notes:

Bold concentrations exceed NR 720 non-industrial direct contact RCL
Boxed and bold concentrations exceed NR 720 industrial direct contact RCL
Italicized concentrations exceed NR 720 groundwater pathway RCL
Concentrations in ( ) exceed NR 720 BTV
--- - Not analyzed/Not Established
J - concentration detected between the laboratory Limit of Detection and the Limit of Quantitation
i.u. - instrument units
mg/kg -milligrams per kilogram, parts per million
ug/kg -micrograms per kilogram, parts per billion
s - saturated
u - unsaturated

PAH - polynuclear aromatic hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
PID - photoionization detector
RCL - residual contaminant level
VOC - volatile organic compounds
RCRA - resource conservation and recovery act
BTV - Background Threshold Value
DC-I - direct contact - industrial
DC-NI - direct contact - non-industrial
GW - groundwater pathway

a - Total Chromium laboratory analytical results may be comprised of trivalent (Cr III) and/or Hexavalent (Cr VI) chromium
b: DC RCL for Chromium VI is 0.301 mg/kg (NI) and 6.36 mg/kg (I) and DC RCL for Chromium III is 100,000 mg/kg.
c: use 360,000 mg/kg for DC RCL, if no CR-VI is present
d: BTV applies to Total Chromium

A.2. SOIL ANALYTICAL RESULTS TABLE (Page 7 of 22) (Celerity)

City of South Milwaukee Vacant Parcel
222 N. Chicago Avenue
South Milwaukee, Wisconsin
BRRTS No. 02-41-556175

Analytical Parameter	Depth / Date / Units	GP-9 S-1 14' 5/3/05	GP-9 S-2 24' 5/3/05	GP-10 S-1 4' 5/3/05	GP-10 S-2 23' 5/3/05	GP-11 S-1 2' 5/3/05	GP-11 S-2 16' 5/3/05	NR 720 RCL DC-I	NR 720 RCL DC-NI	NR 720 RCL GW	NR720 BTV
PID	i.u.	1	1	1	4	3	2	---	---	---	---
Saturated/Unsaturated		u	s	u	s	u	s	---	---	---	---
Detected VOCs											
Dichlorodifluoromethane	ug/kg	---	---	---	66	<63	<65	**530,000**	**126,000**	*3,086.3*	---
Methylene Chloride *	ug/kg	---	---	---	*810*	<63	*370*	**1,150,000**	**618,000**	*2.6*	---
Toluene	ug/kg	<26.0	<26.0	<31.0	280	<31	750	**818,000**	**818,000**	*1,107.2*	---
PAHs											
Acenaphthene	ug/kg	<55	<52	---	---	---	---	**45,200,000**	**3,590,000**	---	---
Acenaphthylene	ug/kg	<89	<86	---	---	---	---	**---**	**---**	---	---
Anthracene	ug/kg	<5.3	<5.2	---	---	---	---	**100,000,000**	**17,900,000**	*196,949.2*	---
Benzo(a)anthracene	ug/kg	<6.3	<5.2	---	---	---	---	**20,800**	**1,140**	---	---
Benzo(a)pyrene	ug/kg	<5.3	<5.2	---	---	---	---	**2,110**	**115**	*470*	---
Benzo(b)fluoranthene	ug/kg	<5.3	<5.7	---	---	---	---	**21,100**	**1,150**	*479.3*	---
Benzo(g,h,i)perylene	ug/kg	<5.3	<6.2	---	---	---	---	**---**	**---**	---	---
Benzo(k)fluoranthene	ug/kg	<8.3	<6.2	---	---	---	---	**211,000**	**11,500**	---	---
Chrysene	ug/kg	<5.3	<5.2	---	---	---	---	**2,110,000**	**11,500**	*144.6*	---
Dibenz(a,h)anthracene	ug/kg	<7.9	<7.8	---	---	---	---	**2,110**	**115**	---	---
Fluoranthene	ug/kg	<11	34	---	---	---	---	**30,100,000**	**2,390,000**	*88,877.8*	---
Fluorene	ug/kg	<11	<10	---	---	---	---	**30,100,000**	**2,390,000**	*14,829.9*	---
Indeno(1,2,3-cd)pyrene	ug/kg	8.8	6.2	---	---	---	---	**21,100**	**1,150**	---	---
1-Methylnaphthalene	ug/kg	<32	<31	---	---	---	---	**72,700**	**17,600**	---	---
2-Methylnaphthalene	ug/kg	<26	<26	---	---	---	---	**3,010,000**	**239,000**	---	---
Naphthalene	ug/kg	<32	<31	---	---	---	---	**24,100**	**5,520**	*658.2*	---
Phenanthrene	ug/kg	<5.3	<5.2	---	---	---	---	**---**	**---**	---	---
Pyrene	ug/kg	<5.3	<5.2	---	---	---	---	**22,600,000**	**1,790,000**	*54,545.5*	---
RCRA Metals											
Arsenic	mg/kg	---	---	<2.8	<11	<14	<26	**3**	**0.677**	*0.584*	(8)
Barium	mg/kg	---	---	93	6	59	*316*	**100,000**	**15,300**	*164.8*	(364)
Cadmium	mg/kg	---	---	<0.13	*(16)*	*(2.3)*	*0.9*	**985**	**71.1**	*0.752*	(1)
Chromium (a)	mg/kg	---	---	(100)	1.5	(1,600)	8.2	**(b)**	**(b)**	*360,000(c)*	(44) (d)
Lead	mg/kg	---	---	15	18	38	9.5	**800**	**400**	*27*	(52)
Mercury	mg/kg	---	---	0.045	0.012	*0.25*	<0.086	**3.13**	**3.13**	*0.208*	---
Selenium	mg/kg	---	---	<5.0	<6.1	<5	<6.4	**5,840**	**391**	*0.52*	---
Silver	mg/kg	---	---	<1.4	0.11	<0.69	<0.60	**5,840**	**391**	*0.8491*	---
Cumulative Hazard Index		0	0	0.0029	0.2285	0.0483	0.0011	---	---	---	---
Cumulative Cancer Risk		7.9E-09	5.2E-09	0	2.0E-08	9.5E-10	6.0E-09	---	---	---	---

Notes:

Bold concentrations exceed NR 720 non-industrial direct contact RCL
Boxed and bold concentrations exceed NR 720 industrial direct contact RCL
Italicized concentrations exceed NR 720 groundwater pathway RCL
Concentrations in ( ) exceed NR 720 BTV
--- - Not analyzed/Not Established
J - concentration detected between the laboratory Limit of Detection and the Limit of Quantitation
i.u. - instrument units
mg/kg -milligrams per kilogram, parts per million
ug/kg -micrograms per kilogram, parts per billion
* - common lab contaminant
s - saturated
u - unsaturated

PAH - polynuclear aromatic hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
PID - photoionization detector
RCL - residual contaminant level
VOC - volatile organic compounds
RCRA - resource conservation and recovery act
BTV - Background Threshold Value
DC-I - direct contact - industrial
DC-NI - direct contact - non-industrial
GW - groundwater pathway

a - Total Chromium laboratory analytical results may be comprised of trivalent (Cr III) and/or Hexavalent (Cr VI) chromium
b: DC RCL for Chromium VI is 0.301 mg/kg (NI) and 6.36 mg/kg (I) and DC RCL for Chromium III is 100,000 mg/kg.
c: use 360,000 mg/kg for DC RCL, if no CR-VI is present
d: BTV applies to Total Chromium

A.2. SOIL ANALYTICAL RESULTS TABLE (Page 8 of 22) (Celerity)

City of South Milwaukee Vacant Parcel
222 N. Chicago Avenue
South Milwaukee, Wisconsin
BRRTS No. 02-41-556175

Analytical Parameter	Depth / Date / Units	GP-12 S-1 3' 5/4/05	GP-12 S-2 13' 5/4/05	GP-13 S-1 2' 5/4/05	GP-13 S-2 18' 5/4/05	GP-14 S-1 4' 5/4/05	GP-14 S-2 20' 5/4/05	NR 720 RCL DC-I	NR 720 RCL DC-NI	NR 720 RCL GW	NR720 BTV
PID	i.u.	0	0	0	0	0	1	---	---	---	---
Saturated/Unsaturated		u	s	u	s	u	s	---	---	---	---
Detected VOCs											
Toluene	ug/kg	<31	<26	<30	<27	<59	<38	**818,000**	**818,000**	*1,107.2*	---
Methylene Chloride *	ug/kg	---	---	---	---	*150*	<58	**1,150,000**	**61,800**	*2.6*	---
PAHs											
Acenaphthene	ug/kg	---	---	---	---	---	---	**45,200,000**	**3,590,000**	---	---
Acenaphthylene	ug/kg	---	---	---	---	---	---	**---**	**---**	---	---
Anthracene	ug/kg	---	---	---	---	---	---	**100,000,000**	**17,900,000**	*196,949.2*	---
Benzo(a)anthracene	ug/kg	---	---	---	---	---	---	**20,800**	**1,140**	---	---
Benzo(a)pyrene	ug/kg	---	---	---	---	---	---	**2,110**	**115**	*470*	---
Benzo(b)fluoranthene	ug/kg	---	---	---	---	---	---	**21,100**	**1,150**	*479.3*	---
Benzo(g,h,i)perylene	ug/kg	---	---	---	---	---	---	**---**	**---**	---	---
Benzo(k)fluoranthene	ug/kg	---	---	---	---	---	---	**211,000**	**11,500**	---	---
Chrysene	ug/kg	---	---	---	---	---	---	**2,110,000**	**11,500**	*144.6*	---
Dibenz(a,h)anthracene	ug/kg	---	---	---	---	---	---	**2,110**	**115**	---	---
Fluoranthene	ug/kg	---	---	---	---	---	---	**30,100,000**	**2,390,000**	*88,877.8*	---
Fluorene	ug/kg	---	---	---	---	---	---	**30,100,000**	**2,390,000**	*14,829.9*	---
Indeno(1,2,3-cd)pyrene	ug/kg	---	---	---	---	---	---	**21,100**	**1,150**	---	---
1-Methylnaphthalene	ug/kg	---	---	---	---	---	---	**72,700**	**17,600**	---	---
2-Methylnaphthalene	ug/kg	---	---	---	---	---	---	**3,010,000**	**239,000**	---	---
Naphthalene	ug/kg	---	---	---	---	---	---	**24,100**	**5,520**	*658.2*	---
Phenanthrene	ug/kg	---	---	---	---	---	---	**---**	**---**	---	---
Pyrene	ug/kg	---	---	---	---	---	---	**22,600,000**	**1,790,000**	*54,545.5*	---
RCRA Metals											
Arsenic	mg/kg	<3.09	<12	<13	<24	<100	<13	**3**	**0.677**	*0.584*	(8)
Barium	mg/kg	54	23	53	6	*230*	49	**100,000**	**15,300**	*164.8*	(364)
Cadmium	mg/kg	<0.517	(1.1)	0.59	(1.7)	(15)	*0.96*	**985**	**71.1**	*0.752*	(1)
Chromium (a)	mg/kg	(91.4)	8.3	(670)	21	<0.42	16	**(b)**	**(b)**	*360,000(c)*	(44) (d)
Lead	mg/kg	15.9	8.4	*37*	12	(190)	9.2	**800**	**400**	*27*	(52)
Mercury	mg/kg	<0.09	0.02	*0.28*	<0.011	*1.1*	0.021	**3.13**	**3.13**	*0.208*	---
Selenium	mg/kg	<1.0	<4.5	<4.4	<8.4	<6.7	<0.76	**5,840**	**391**	*0.52*	---
Silver	mg/kg	0.312	0.62	<13	<0.80	<2.6	<0.54	**5,840**	**391**	*0.8491*	---
Cumulative Hazard Index		0.0008	0.0183	0.0178	0.0239	0.7564	0.0013	---	---	---	---
Cumulative Cancer Risk		0	4.5E-10	0	7.0E-10	8.6E-09	0	---	---	---	---

Notes:
Bold concentrations exceed NR 720 non-industrial direct contact RCL
Boxed and bold concentrations exceed NR 720 industrial direct contact RCL
Italicized concentrations exceed NR 720 groundwater pathway RCL
Concentrations in ( ) exceed NR 720 BTV
--- - Not analyzed/Not Established
J - concentration detected between the laboratory Limit of Detection and the Limit of Quantitation
i.u. - instrument units
mg/kg -milligrams per kilogram, parts per million
ug/kg -micrograms per kilogram, parts per billion
* - common lab contaminant
s - saturated
u - unsaturated

PAH - polynuclear aromatic hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
PID - photoionization detector
RCL - residual contaminant level
VOC - volatile organic compounds
RCRA - resource conservation and recovery act
BTV - Background Threshold Value
DC-I - direct contact - industrial
DC-NI - direct contact - non-industrial
GW - groundwater pathway

a - Total Chromium laboratory analytical results may be comprised of trivalent (Cr III) and/or Hexavalent (Cr VI) chromium
b: DC RCL for Chromium VI is 0.301 mg/kg (NI) and 6.36 mg/kg (I) and DC RCL for Chromium III is 100,000 mg/kg.
c: use 360,000 mg/kg for DC RCL, if no CR-VI is present
d: BTV applies to Total Chromium

A.2. SOIL ANALYTICAL RESULTS TABLE (Page 9 of 22) (Celerity)

City of South Milwaukee Vacant Parcel
222 N. Chicago Avenue
South Milwaukee, Wisconsin
BRRTS No. 02-41-556175

Analytical Parameter	Depth / Date / Units	GP-15 S-1 3' 5/4/05	GP-15 S-2 20' 5/4/05	GP-16 S-1 4' 5/5/05	GP-16 S-2 18' 5/5/05	GP-17 S-1 2.5' 5/5/05	GP-17 S-2 16' 5/5/05	NR 720 RCL DC-I	NR 720 RCL DC-NI	NR 720 RCL GW	NR720 BTV
PID	i.u.	1	4	4	3	2	2	---	---	---	---
Saturated/Unsaturated		u	s	u	s	u	s	---	---	---	---
Detected VOCs											
Toluene	ug/kg	84	<90	130	39	<33	<28	**818,000**	**818,000**	*1,107.2*	---
Methylene Chloride *	ug/kg	*190*	<59	*150*	<54	---	---	**1,150,000**	**61,800**	*2.6*	---
PAHs											
Acenaphthene	ug/kg	<52	<59	<52	<54	<66	<58	**45,200,000**	**3,590,000**	---	---
Acenaphthylene	ug/kg	<69	<100	<88	<81	<110	<85	**---**	**---**	---	---
Anthracene	ug/kg	<5.2	<5.8	<5.2	<5.4	<6.6	<5.6	**100,000,000**	**17,900,000**	*196,949.2*	---
Benzo(a)anthracene	ug/kg	<5.2	<5.9	<5.2	12	67	<5.6	**20,800**	**1,140**	---	---
Benzo(a)pyrene	ug/kg	<5.2	<5.9	<5.2	<5.4	47	<5.6	**2,110**	**115**	*470*	---
Benzo(b)fluoranthene	ug/kg	<5.2	<5.8	<5.2	7.3	38	<5.6	**21,100**	**1,150**	*479.3*	---
Benzo(g,h,i)perylene	ug/kg	<5.2	<5.9	<5.2	11	60	<5.6	**---**	**---**	---	---
Benzo(k)fluoranthene	ug/kg	<5.2	<6.9	<6.2	13	82	<5.6	**211,000**	**11,500**	---	---
Chrysene	ug/kg	<6.2	<5.9	<5.2	14	53	<5.6	**2,110,000**	**11,500**	*144.6*	---
Dibenz(a,h)anthracene	ug/kg	<7.8	<8.9	<7.8	<8.1	12	<5.4	**2,110**	**115**	---	---
Fluoranthene	ug/kg	<10	<12	<10	37	100	<11	**30,100,000**	**2,390,000**	*88,877.8*	---
Fluorene	ug/kg	<10	<12	<10	<19	<13	<11	**30,100,000**	**2,390,000**	*14,829.9*	---
Indeno(1,2,3-cd)pyrene	ug/kg	<5.2	<6.6	<5.2	9.4	64	<5.6	**21,100**	**1,150**	---	---
1-Methylnaphthalene	ug/kg	<31	<38	<31	<32	<39	<34	**72,700**	**17,600**	---	---
2-Methylnaphthalene	ug/kg	<26	<30	<26	<27	<33	<28	**3,010,000**	**239,000**	---	---
Naphthalene	ug/kg	<38	<35	<31	<32	<39	<34	**24,100**	**5,520**	*658.2*	---
Phenanthrene	ug/kg	<6.2	<5.9	<5.2	27	36	<5.6	**---**	**---**	---	---
Pyrene	ug/kg	<9.2	<5.9	<5.2	32	77	<5.6	**22,600,000**	**1,790,000**	*54,545.5*	---
RCRA Metals											
Arsenic	mg/kg	---	---	---	---	---	---	**3**	**0.677**	*0.584*	(8)
Barium	mg/kg	---	---	---	---	---	---	**100,000**	**15,300**	*164.8*	(364)
Cadmium	mg/kg	---	---	---	---	---	---	**985**	**71.1**	*0.752*	(1)
Chromium (a)	mg/kg	---	---	---	---	---	---	**(b)**	**(b)**	*360,000(c)*	(44) (d)
Lead	mg/kg	---	---	---	---	---	---	**800**	**400**	*27*	(52)
Mercury	mg/kg	---	---	---	---	---	---	**3.13**	**3.13**	*0.208*	---
Selenium	mg/kg	---	---	---	---	---	---	**5,840**	**391**	*0.52*	---
Silver	mg/kg	---	---	---	---	---	---	**5,840**	**391**	*0.8491*	---
Cumulative Hazard Index		0.0005	0	0.0004	0	0.0027	0	---	---	---	---
Cumulative Cancer Risk		3.1E-09	0	2.4E-09	2.6E-08	6.7E-07	0	---	---	---	---

Notes:

Bold concentrations exceed NR 720 non-industrial direct contact RCL
Boxed and bold concentrations exceed NR 720 industrial direct contact RCL
Italicized concentrations exceed NR 720 groundwater pathway RCL
Concentrations in ( ) exceed NR 720 BTV
--- - Not analyzed/Not Established
J - concentration detected between the laboratory Limit of Detection and the Limit of Quantitation
i.u. - instrument units
mg/kg -milligrams per kilogram, parts per million
ug/kg -micrograms per kilogram, parts per billion
* - common lab contaminant
s - saturated
u - unsaturated

PAH - polynuclear aromatic hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
PID - photoionization detector
RCL - residual contaminant level
VOC - volatile organic compounds
RCRA - resource conservation and recovery act
BTV - Background Threshold Value
DC-I - direct contact - industrial
DC-NI - direct contact - non-industrial
GW - groundwater pathway

a - Total Chromium laboratory analytical results may be comprised of trivalent (Cr III) and/or Hexavalent (Cr VI) chromium
b: DC RCL for Chromium VI is 0.301 mg/kg (NI) and 6.36 mg/kg (I) and DC RCL for Chromium III is 100,000 mg/kg.
c: use 360,000 mg/kg for DC RCL, if no CR-VI is present
d: BTV applies to Total Chromium

A.2. SOIL ANALYTICAL RESULTS TABLE (Page 10 of 22) (Celerity)

City of South Milwaukee Vacant Parcel
222 N. Chicago Avenue
South Milwaukee, Wisconsin
BRRTS No. 02-41-556175

Analytical Parameter	Depth / Date / Units	GP-18 S-1 3' 5/5/05	GP-18 S-2 18' 5/5/05	GP-19 S-1 2' 5/5/05	GP-19 S-2 24' 5/5/05	NR 720 RCL DC-I	NR 720 RCL DC-NI	NR 720 RCL GW	NR720 BTV
PID	i.u.	0.0	0.0	0.0	0.0	---	---	---	---
Saturated/Unsaturated		u	s	u	u	---	---	---	---
Detected VOCs									
Toluene	ug/kg	<31	<27	<29	<26	**818,000**	**818,000**	*1,107.2*	---
PAHs									
Acenaphthene	ug/kg	<52	<55	---	---	**45,200,000**	**3,590,000**	---	---
Acenaphthylene	ug/kg	<103	<83	---	---	**---**	**---**	---	---
Anthracene	ug/kg	<6.2	<5.5	---	---	**100,000,000**	**17,900,000**	*196,949.2*	---
Benzo(a)anthracene	ug/kg	<6.2	<5.5	---	---	**20,800**	**1,140**	---	---
Benzo(a)pyrene	ug/kg	<6.2	<5.5	---	---	**2,110**	**115**	*470*	---
Benzo(b)fluoranthene	ug/kg	<6.2	<5.5	---	---	**21,100**	**1,150**	*479.3*	---
Benzo(g,h,i)perylene	ug/kg	<6.2	<5.5	---	---	**---**	**---**	---	---
Benzo(k)fluoranthene	ug/kg	<6.2	<5.5	---	---	**211,000**	**11,500**	---	---
Chrysene	ug/kg	<6.2	<5.6	---	---	**2,110,000**	**11,500**	*144.6*	---
Dibenz(a,h)anthracene	ug/kg	<5.3	<5.2	---	---	**2,110**	**115**	---	---
Fluoranthene	ug/kg	<12	<11	---	---	**30,100,000**	**2,390,000**	*88,877.8*	---
Fluorene	ug/kg	<52	<11	---	---	**30,100,000**	**2,390,000**	*14,829.9*	---
Indeno(1,2,3-cd)pyrene	ug/kg	<6.2	<5.5	---	---	**21,100**	**1,150**	---	---
1-Methylnaphthalene	ug/kg	<37	<53	---	---	**72,700**	**17,600**	---	---
2-Methylnaphthalene	ug/kg	<31	<27	---	---	**3,010,000**	**239,000**	---	---
Naphthalene	ug/kg	<33	<33	---	---	**24,100**	**5,520**	*658.2*	---
Phenanthrene	ug/kg	<6.2	<5.5	---	---	**---**	**---**	---	---
Pyrene	ug/kg	<6.2	<5.5	---	---	**22,600,000**	**1,790,000**	*54,545.5*	---
RCRA Metals									
Arsenic	mg/kg	---	---	<7.6	<12	**3**	**0.677**	*0.584*	(8)
Barium	mg/kg	---	---	28	10	**100,000**	**15,300**	*164.8*	(364)
Cadmium	mg/kg	---	---	0.46	*(1.5)*	**985**	**71.1**	*0.752*	(1)
Chromium (a)	mg/kg	---	---	(96)	31	**(b)**	**(b)**	*360,000(c)*	(44) (d)
Lead	mg/kg	---	---	22	16	**800**	**400**	*27*	(52)
Mercury	mg/kg	---	---	0.06	0.16	**3.13**	**3.13**	*0.208*	---
Selenium	mg/kg	---	---	<4.8	<4.2	**5,840**	**391**	*0.52*	---
Silver	mg/kg	---	---	<0.38	<0.12	**5,840**	**391**	*0.8491*	---
Cumulative Hazard Index		0	0	0.0038	0.0313	---	---	---	---
Cumulative Cancer Risk		0	0	0	6.2E-10	---	---	---	---

Notes:

Bold concentrations exceed NR 720 non-industrial direct contact RCL
Boxed and bold concentrations exceed NR 720 industrial direct contact RCL
Italicized concentrations exceed NR 720 groundwater pathway RCL
Concentrations in ( ) exceed NR 720 BTV
--- - Not analyzed/Not Established
J - concentration detected between the laboratory Limit of Detection and the Limit of Quantitation
i.u. - instrument units
mg/kg -milligrams per kilogram, parts per million
ug/kg -micrograms per kilogram, parts per billion
s - saturated
u - unsaturated

PAH - polynuclear aromatic hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
PID - photoionization detector
RCL - residual contaminant level
VOC - volatile organic compounds
RCRA - resource conservation and recovery act
BTV - Background Threshold Value
DC-I - direct contact - industrial
DC-NI - direct contact - non-industrial
GW - groundwater pathway

a - Total Chromium laboratory analytical results may be comprised of trivalent (Cr III) and/or Hexavalent (Cr VI) chromium
b: DC RCL for Chromium VI is 0.301 mg/kg (NI) and 6.36 mg/kg (I) and DC RCL for Chromium III is 100,000 mg/kg.
c: use 360,000 mg/kg for DC RCL, if no CR-VI is present
d: BTV applies to Total Chromium

A.2. SOIL ANALYTICAL RESULTS TABLE (Page 11 of 22) (Celerity)

City of South Milwaukee Vacant Parcel
222 N. Chicago Ave Parcel
South Milwaukee, Wisconsin
BRRTS No. 02-41-556175

Analytical Parameter	Depth / Date / Units	B-1 12'-14' 9/24/03	B-2 5'-7' 9/24/03	B-3 5'-7' 9/24/03	B-4 10'-12' 9/24/03	B-5 14'-16' 9/24/03	B-6 8'-10' 9/24/03	NR 720 RCL DC-I	NR 720 RCL DC-NI	NR 720 RCL GW	NR720 BTV
PID	i.u.	40	27	285	>1,000	55	57	---	---	---	---
Saturated/Unsaturated		u	u	u	s	u	u	---	---	---	---
Detected VOCs											
Benzene	ug/kg	<25	<25	<25	<25	<25	<25	**7,070**	**1,600**	*5.1*	---
n-Butylbenzene	ug/kg	<25	<25	3,160	2,170	<25	<25	**108,000**	**108,000**	---	---
sec-Butylbenzene	ug/kg	<25	<25	947	721	<25	<25	**145,000**	**145,000**	---	---
Ethylbenzene	ug/kg	<25	<25	272	360	<25	<25	**35,400**	**8,020**	*1,570*	---
p-Isopropyltoluene	ug/kg	<25	<25	<25	443	<25	<25	**162,000**	**162,000**	---	---
Naphthalene	ug/kg	<25	<25	***6,510***	***5,540***	<25	<25	**24,100**	**5,520**	*658.2*	---
n-Propylbenzene	ug/kg	<25	<25	2,830	2,580	57	<25	**264,000**	**264,000**	---	---
Toluene	ug/kg	<25	<25	<25	<25	<25	<25	**818,000**	**818,000**	*1,107.2*	---
1,2,4-Trimethylbenzene	ug/kg	<25	<25	*5,760*	*4,910*	35	<25	**219,000**	**219,000**	*1,382.1*	---
1,3,5-Trimethylbenzene	ug/kg	<25	<25	*4,290*	*90.4*	<25	<25	**182,000**	**182,000**		---
Xylenes	ug/kg	<25	<25	2,370	3,550	39	<25	**260,000**	**260,000**	*3,960*	---
PAHs											
Acenaphthene	ug/kg	<105	<118	<116	NA	NA	<117	**45,200,000**	**3,590,000**	---	---
Acenaphthylene	ug/kg	<210	<232	745	NA	NA	<234	**---**	**---**	---	---
Anthracene	ug/kg	<105	<116	<116	NA	NA	<117	**100,000,000**	**17,900,000**	*196,949.2*	---
Benzo(a)anthracene	ug/kg	<52.5	<57.9	<57.9	NA	NA	<58.5	**20,800**	**1,140**	---	---
Benzo(a)pyrene	ug/kg	<5.25	<5.79	<5.79	NA	NA	<5.85	**2,110**	**115**	*470*	---
Benzo(b)fluoranthene	ug/kg	<52.5	<57.9	<57.9	NA	NA	<58.5	**21,100**	**1,150**	*479.3*	---
Benzo(g,h,i)perylene	ug/kg	<105	<116	<116	NA	NA	<117	**---**	**---**	---	---
Benzo(k)fluoranthene	ug/kg	<105	<116	<116	NA	NA	<117	**211,000**	**11,500**	---	---
Chrysene	ug/kg	<105	<116	<116	NA	NA	<117	**2,110,000**	**11,500**	*144.6*	---
Dibenz(a,h)anthracene	ug/kg	<5.25	<5.79	6.15	NA	NA	<5.85	**2,110**	**115**	---	---
Fluoranthene	ug/kg	<105	<116	164	NA	NA	<117	**30,100,000**	**2,390,000**	*88,877.8*	---
Fluorene	ug/kg	<105	<116	<116	NA	NA	<117	**30,100,000**	**2,390,000**	*14,829.9*	---
Indeno(1,2,3-cd)pyrene	ug/kg	<52.5	<57.9	<57.9	NA	NA	<58.5	**21,100**	**1,150**	---	---
1-Methylnaphthalene	ug/kg	<105	<116	1,420	NA	NA	171	**72,700**	**17,600**	---	---
2-Methylnaphthalene	ug/kg	<105	<116	2,830	NA	NA	215	**3,010,000**	**239,000**	---	---
Naphthalene	ug/kg	<105	<116	*2,220*	NA	NA	<117	**24,100**	**5,520**	*658.2*	---
Phenanthrene	ug/kg	<105	<116	125	NA	NA	<117	**---**	**---**	---	---
Pyrene	ug/kg	<105	<116	550	NA	NA	253	**22,600,000**	**1,790,000**	*54,545.5*	---
RCRA Metals											
Arsenic	mg/kg	NA	NA	***5.9***	NA	NA	NA	**3**	**0.677**	*0.584*	(8)
Barium	mg/kg	NA	NA	<29.1	NA	NA	NA	**100,000**	**15,300**	*164.8*	(364)
Cadmium	mg/kg	NA	NA	<0.582	NA	NA	NA	**985**	**71.1**	*0.752*	(1)
Chromium (a)	mg/kg	NA	NA	5.9	NA	NA	NA	**(b)**	**(b)**	*360,000(c)*	(44) (d)
Lead	mg/kg	NA	NA	14.3	NA	NA	NA	**800**	**400**	*27*	(52)
Mercury	mg/kg	NA	NA	<0.0466	NA	NA	NA	**3.13**	**3.13**	*0.208*	---
Selenium	mg/kg	NA	NA	<2.91	NA	NA	NA	**5,840**	**391**	*0.52*	---
Silver	mg/kg	NA	NA	<2.91	NA	NA	NA	**5,840**	**391**	*0.8491*	---
Cumulative Hazard Index		0	0	0.0818	0.0502	0	0.0011	---	---	---	---
Cumulative Cancer Risk		0	0	1.3E-06	1.0E-06	0	9.7E-09	---	---	---	---

Notes:
Bold concentrations exceed NR 720 non-industrial direct contact RCL
Boxed and bold concentrations exceed NR 720 industrial direct contact RCL
Italicized concentrations exceed NR 720 groundwater pathway RCL
Concentrations in ( ) exceed NR 720 BTV
--- - Not analyzed/Not Established
J - concentration detected between the laboratory Limit of Detection and the Limit of Quantitation
i.u. - instrument units
mg/kg -milligrams per kilogram, parts per million
ug/kg -micrograms per kilogram, parts per billion
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PAH - polynuclear aromatic hydrocarbons
GRO - gasoline range organics
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RCL - residual contaminant level
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DC-I - direct contact - industrial
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a - Total Chromium laboratory analytical results may be comprised of trivalent (Cr III) and/or Hexavalent (Cr VI) chromium
b: DC RCL for Chromium VI is 0.301 mg/kg (NI) and 6.36 mg/kg (I) and DC RCL for Chromium III is 100,000 mg/kg.
c: use 360,000 mg/kg for DC RCL, if no CR-VI is present
d: BTV applies to Total Chromium

A.2. SOIL ANALYTICAL RESULTS TABLE (Page 12 of 22) (Celerity)

City of South Milwaukee Vacant Parcel
222 N. Chicago Ave Parcel
South Milwaukee, Wisconsin
BRRTS No. 02-41-556175

Analytical Parameter	Depth / Date / Units	B-7 17'-19' 9/24/03	B-8 12'-14' 9/24/03	B-9:S5 14' 3/25/04	B-10:S5 14' 3/25/04	B-11:S6 16' 3/25/04	B-12:S6 16' 3/25/04	NR 720 RCL DC-I	NR 720 RCL DC-NI	NR 720 RCL GW	NR720 BTV
PID	i.u.	<1	<1	0	3	4	26	---	---	---	---
Saturated/Unsaturated		s	u	u	u	s	s	---	---	---	---
Detected VOCs											
Benzene	ug/kg	<25	<25	<25	<25	*35*	<25	**7,070**	**1,600**	*5.1*	---
n-Butylbenzene	ug/kg	<25	<25	<25	<25	<25	<25	**108,000**	**108,000**	---	---
sec-Butylbenzene	ug/kg	<25	<25	<25	<25	<25	<25	**145,000**	**145,000**	---	---
Ethylbenzene	ug/kg	<25	<25	<25	<25	<25	<25	**35,400**	**8,020**	*1,570*	---
Isopropylbenzene	ug/kg	<25	<25	<25	<25	<25	57	**268,000**	**268,000**	---	---
p-Isopropyltoluene	ug/kg	<25	<25	<25	<25	<25	<25	**162,000**	**162,000**	---	---
Naphthalene	ug/kg	<25	<25	<25	<25	<25	<25	**24,100**	**5,520**	*658.2*	---
n-Propylbenzene	ug/kg	<25	<25	<25	<25	<25	62	**264,000**	**264,000**	---	---
Toluene	ug/kg	<25	<25	<25	<25	<25	<25	**818,000**	**818,000**	*1,107.2*	---
1,2,4-Trimethylbenzene	ug/kg	41.4	<25	<25	<25	<25	68	**219,000**	**219,000**	*1,382.1*	---
1,3,5-Trimethylbenzene	ug/kg	<25	<25	<25	<25	<25	<25	**182,000**	**182,000**		---
Xylenes	ug/kg	<25	<25	<50	<50	214	367	**260,000**	**260,000**	*3,960*	---
PAHs											
Acenaphthene	ug/kg	1,100	205	<28	<28	NA	<28	**45,200,000**	**3,590,000**	---	---
Acenaphthylene	ug/kg	<227	<210	<32	<32	NA	<32	**---**	**---**	---	---
Anthracene	ug/kg	240	110	<46	<46	NA	<46	**100,000,000**	**17,900,000**	*196,949.2*	---
Benzo(a)anthracene	ug/kg	652	211	120	<33	NA	<33	**20,800**	**1,140**	---	---
Benzo(a)pyrene	ug/kg	***544***	**215**	**120**	<43	NA	<43	**2,110**	**115**	*470*	---
Benzo(b)fluoranthene	ug/kg	*580*	191	160	<42	NA	<42	**21,100**	**1,150**	*479.3*	---
Benzo(g,h,i)perylene	ug/kg	525	291	100	<32	NA	<32	**---**	**---**	---	---
Benzo(k)fluoranthene	ug/kg	306	116	61	<45	NA	<45	**211,000**	**11,500**	---	---
Chrysene	ug/kg	*832*	*170*	110	<46	NA	<46	**2,110,000**	**11,500**	*144.6*	---
Dibenz(a,h)anthracene	ug/kg	**432**	**164**	<47	<47	NA	<47	**2,110**	**115**	---	---
Fluoranthene	ug/kg	1,270	490	200	38	NA	44	**30,100,000**	**2,390,000**	*88,877.8*	---
Fluorene	ug/kg	<113	<105	<32	<32	NA	<32	**30,100,000**	**2,390,000**	*14,829.9*	---
Indeno(1,2,3-cd)pyrene	ug/kg	503	194	75	<56	NA	<56	**21,100**	**1,150**	---	---
1-Methylnaphthalene	ug/kg	262	<105	<47	<47	NA	<47	**72,700**	**17,600**	---	---
2-Methylnaphthalene	ug/kg	373	157	<22	<22	NA	<22	**3,010,000**	**239,000**	---	---
Naphthalene	ug/kg	557	258	<39	<39	NA	<39	**24,100**	**5,520**	*658.2*	---
Phenanthrene	ug/kg	610	290	120	<36	NA	<36	**---**	**---**	---	---
Pyrene	ug/kg	673	267	180	<39	NA	<39	**22,600,000**	**1,790,000**	*54,545.5*	---
RCRA Metals											
Arsenic	mg/kg	NA	NA	NA	NA	NA	NA	**3**	**0.677**	*0.584*	(8)
Barium	mg/kg	NA	NA	NA	NA	NA	NA	**100,000**	**15,300**	*164.8*	(364)
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA	**985**	**71.1**	*0.752*	(1)
Chromium (a)	mg/kg	NA	NA	NA	NA	NA	NA	**(b)**	**(b)**	*360,000(c)*	(44) (d)
Lead	mg/kg	NA	NA	13	9.2	8.9	7.5	**800**	**400**	*27*	(52)
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	**3.13**	**3.13**	*0.208*	---
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	**5,840**	**391**	*0.52*	---
Silver	mg/kg	NA	NA	NA	NA	NA	NA	**5,840**	**391**	*0.8491*	---
Cumulative Hazard Index		0.0367	0.0146	0.0069	0	0.0006	0.0009	---	---	---	---
Cumulative Cancer Risk		1.0E-05	3.9E-06	1.4E-06	0	2.2E-08	0	---	---	---	---

Notes:

Bold concentrations exceed NR 720 non-industrial direct contact RCL
Boxed and bold concentrations exceed NR 720 industrial direct contact RCL
Italicized concentrations exceed NR 720 groundwater pathway RCL
Concentrations in ( ) exceed NR 720 BTV
--- - Not analyzed/Not Established
J - concentration detected between the laboratory Limit of Detection and the Limit of Quantitation
i.u. - instrument units
mg/kg -milligrams per kilogram, parts per million
ug/kg -micrograms per kilogram, parts per billion
s - saturated
u - unsaturated

PAH - polynuclear aromatic hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
PID - photoionization detector
RCL - residual contaminant level
VOC - volatile organic compounds
RCRA - resource conservation and recovery act
BTV - Background Threshold Value
DC-I - direct contact - industrial
DC-NI - direct contact - non-industrial
GW - groundwater pathway

a - Total Chromium laboratory analytical results may be comprised of trivalent (Cr III) and/or Hexavalent (Cr VI) chromium
b: DC RCL for Chromium VI is 0.301 mg/kg (NI) and 6.36 mg/kg (I) and DC RCL for Chromium III is 100,000 mg/kg.
c: use 360,000 mg/kg for DC RCL, if no CR-VI is present
d: BTV applies to Total Chromium

A.2. SOIL ANALYTICAL RESULTS TABLE (Page 13 of 22) (Celerity)

City of South Milwaukee Vacant Parcel
222 N. Chicago Ave Parcel
South Milwaukee, Wisconsin
BRRTS No. 02-41-556175

Analytical Parameter	Depth / Date / Units	B-13:S5 14' 3/25/04	B-14:S2 6' 3/25/04	B-15-S6 16' 11/16/04	B-16-S6 16' 11/16/04	B-17-S2 6' 11/16/04	B-18-S6 16' 11/16/04	NR 720 RCL DC-I	NR 720 RCL DC-NI	NR 720 RCL GW	NR720 BTV
PID	i.u.	280	70	<1	<1	<1	10.0	---	---	---	---
Saturated/Unsaturated		u	u	u	s	u	s	---	---	---	---
Detected VOCs											
Benzene	ug/kg	*29*	<25	*88*	*70*	<25	*35*	**7,070**	**1,600**	*5.1*	---
n-Butylbenzene	ug/kg	1,010	89	NA	NA	NA	NA	**108,000**	**108,000**	---	---
sec-Butylbenzene	ug/kg	381	51	NA	NA	NA	NA	**145,000**	**145,000**	---	---
Ethylbenzene	ug/kg	71	<25	26	110	<25	73	**35,400**	**8,020**	*1,570*	---
Isopropylbenzene	ug/kg	664	<25	NA	NA	NA	NA	**268,000**	**268,000**	---	---
p-Isopropyltoluene	ug/kg	212	26	NA	NA	NA	NA	**162,000**	**162,000**	---	---
Naphthalene	ug/kg	*1,780*	74	94	92	64	160	**24,100**	**5,520**	*658.2*	---
n-Propylbenzene	ug/kg	2,580	36	NA	NA	NA	NA	**264,000**	**264,000**	---	---
Toluene	ug/kg	<25	<25	<25	48	<25	46	**818,000**	**818,000**	*1,107.2*	---
1,2,4-Trimethylbenzene	ug/kg	*7,610*	124	30	120	26	78	**219,000**	**219,000**	*1,382.1*	---
1,3,5-Trimethylbenzene	ug/kg	*90*	63	54	92	<25	47	**182,000**	**182,000**		---
Xylenes	ug/kg	1,330	68	<75	230	<75	130	**260,000**	**260,000**	*3,960*	---
PAHs											
Acenaphthene	ug/kg	<560	490	<28	<28	<28	<28	**45,200,000**	**3,590,000**	---	---
Acenaphthylene	ug/kg	<640	<320	<32	<32	<32	<32	**---**	**---**	---	---
Anthracene	ug/kg	<920	1,700	<46	<46	<46	<46	**100,000,000**	**17,900,000**	*196,949.2*	---
Benzo(a)anthracene	ug/kg	<660	**1,400**	<33	45	<33	<33	**20,800**	**1,140**	---	---
Benzo(a)pyrene	ug/kg	<860	***1,300***	<43	<43	<43	<43	**2,110**	**115**	*470*	---
Benzo(b)fluoranthene	ug/kg	<840	***1,800***	<42	<42	<42	<42	**21,100**	**1,150**	*479.3*	---
Benzo(g,h,i)perylene	ug/kg	<640	460	<32	<32	<32	<32	**---**	**---**	---	---
Benzo(k)fluoranthene	ug/kg	<900	600	<45	<45	<45	<45	**211,000**	**11,500**	---	---
Chrysene	ug/kg	<920	*1,400*	<46	49	<46	<46	**2,110,000**	**11,500**	*144.6*	---
Dibenz(a,h)anthracene	ug/kg	<940	<470	<47	<47	<47	<47	**2,110**	**115**	---	---
Fluoranthene	ug/kg	<600	4,000	<30	85	<30	<30	**30,100,000**	**2,390,000**	*88,877.8*	---
Fluorene	ug/kg	<640	1,000	<32	<32	<32	<32	**30,100,000**	**2,390,000**	*14,829.9*	---
Indeno(1,2,3-cd)pyrene	ug/kg	<1120	<560	<56	<56	<56	<56	**21,100**	**1,150**	---	---
1-Methylnaphthalene	ug/kg	3,000	1,500	<47	<47	<47	<47	**72,700**	**17,600**	---	---
2-Methylnaphthalene	ug/kg	5,600	<220	<22	<22	<22	<22	**3,010,000**	**239,000**	---	---
Naphthalene	ug/kg	*2,100*	<390	<39	<39	<39	<39	**24,100**	**5,520**	*658.2*	---
Phenanthrene	ug/kg	<720	3,400	<36	55	<36	<36	**---**	**---**	---	---
Pyrene	ug/kg	<780	3,200	<39	88	<39	<39	**22,600,000**	**1,790,000**	*54,545.5*	---
RCRA Metals											
Arsenic	mg/kg	NA	NA	NA	NA	NA	NA	**3**	**0.677**	*0.584*	(8)
Barium	mg/kg	NA	NA	NA	NA	NA	NA	**100,000**	**15,300**	*164.8*	(364)
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA	**985**	**71.1**	*0.752*	(1)
Chromium (a)	mg/kg	NA	NA	NA	NA	NA	NA	**(b)**	**(b)**	*360,000(c)*	(44) (d)
Lead	mg/kg	10	20	NA	NA	NA	NA	**800**	**400**	*27*	(52)
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	**3.13**	**3.13**	*0.208*	---
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	**5,840**	**391**	*0.52*	---
Silver	mg/kg	NA	NA	NA	NA	NA	NA	**5,840**	**391**	*0.8491*	---
Cumulative Hazard Index		0.0594	0.0785	0.0016	0.0022	0.0005	0.0018	---	---	---	---
Cumulative Cancer Risk		5.8E-07	1.4E-05	7.5E-08	1.1E-07	1.2E-08	6.0E-08	---	---	---	---

Notes:

Bold concentrations exceed NR 720 non-industrial direct contact RCL
Boxed and bold concentrations exceed NR 720 industrial direct contact RCL
Italicized concentrations exceed NR 720 groundwater pathway RCL
Concentrations in ( ) exceed NR 720 BTV
--- - Not analyzed/Not Established
J - concentration detected between the laboratory Limit of Detection and the Limit of Quantitation
i.u. - instrument units
mg/kg -milligrams per kilogram, parts per million
ug/kg -micrograms per kilogram, parts per billion
s - saturated
u - unsaturated

PAH - polynuclear aromatic hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
PID - photoionization detector
RCL - residual contaminant level
VOC - volatile organic compounds
RCRA - resource conservation and recovery act
BTV - Background Threshold Value
DC-I - direct contact - industrial
DC-NI - direct contact - non-industrial
GW - groundwater pathway

a - Total Chromium laboratory analytical results may be comprised of trivalent (Cr III) and/or Hexavalent (Cr VI) chromium
b: DC RCL for Chromium VI is 0.301 mg/kg (NI) and 6.36 mg/kg (I) and DC RCL for Chromium III is 100,000 mg/kg.
c: use 360,000 mg/kg for DC RCL, if no CR-VI is present
d: BTV applies to Total Chromium

A.2. SOIL ANALYTICAL RESULTS TABLE (Page 14 of 22) (Celerity)

City of South Milwaukee Vacant Parcel
222 N. Chicago Ave Parcel
South Milwaukee, Wisconsin
BRRTS No. 02-41-556175

Analytical Parameter	Depth Date Units	B-19:S3 6' 11/16/04	B-19:S6 14' 11/16/04	NR 720 RCL DC-I	NR 720 RCL DC-NI	NR 720 RCL GW	NR720 BTV
PID	i.u.	<1	10	---	---	---	---
Saturated/Unsaturated		u	u	---	---	---	---
Detected VOCs							
Benzene	ug/kg	<25	*250*	**7,070**	**1,600**	*5.1*	---
n-Butylbenzene	ug/kg	NA	NA	**108,000**	**108,000**	---	---
sec-Butylbenzene	ug/kg	NA	NA	**145,000**	**145,000**	---	---
Ethylbenzene	ug/kg	<25	87	**35,400**	**8,020**	*1,570*	---
Isopropylbenzene	ug/kg	NA	NA	**268,000**	**268,000**	---	---
p-Isopropyltoluene	ug/kg	NA	NA	**162,000**	**162,000**	---	---
Naphthalene	ug/kg	100	160	**24,100**	**5,520**	*658.2*	---
n-Propylbenzene	ug/kg	NA	NA	**264,000**	**264,000**	---	---
Toluene	ug/kg	<25	56	**818,000**	**818,000**	*1,107.2*	---
1,2,4-Trimethylbenzene	ug/kg	31.0	*2,300*	**219,000**	**219,000**	*1,382.1*	---
1,3,5-Trimethylbenzene	ug/kg	26	*160*	**182,000**	**182,000**		---
Xylenes	ug/kg	<75	800	**260,000**	**260,000**	*3,960*	---
PAHs							
Acenaphthene	ug/kg	<280	<28	**45,200,000**	**3,590,000**	---	---
Acenaphthylene	ug/kg	<320	<32	**---**	**---**	---	---
Anthracene	ug/kg	<460	<46	**100,000,000**	**17,900,000**	*196,949.2*	---
Benzo(a)anthracene	ug/kg	<330	<33	**20,800**	**1,140**	---	---
Benzo(a)pyrene	ug/kg	<430	<43	**2,110**	**115**	*470*	---
Benzo(b)fluoranthene	ug/kg	<420	<42	**21,100**	**1,150**	*479.3*	---
Benzo(g,h,i)perylene	ug/kg	<320	<32	**---**	**---**	---	---
Benzo(k)fluoranthene	ug/kg	<450	<45	**211,000**	**11,500**	---	---
Chrysene	ug/kg	<460	<46	**2,110,000**	**11,500**	*144.6*	---
Dibenz(a,h)anthracene	ug/kg	<470	<47	**2,110**	**115**	---	---
Fluoranthene	ug/kg	<300	<30	**30,100,000**	**2,390,000**	*88,877.8*	---
Fluorene	ug/kg	<320	<32	**30,100,000**	**2,390,000**	*14,829.9*	---
Indeno(1,2,3-cd)pyrene	ug/kg	<560	<56	**21,100**	**1,150**	---	---
1-Methylnaphthalene	ug/kg	<470	<47	**72,700**	**17,600**	---	---
2-Methylnaphthalene	ug/kg	<220	<22	**3,010,000**	**239,000**	---	---
Naphthalene	ug/kg	<390	<39	**24,100**	**5,520**	*658.2*	---
Phenanthrene	ug/kg	<360	<36	**---**	**---**	---	---
Pyrene	ug/kg	<390	<39	**22,600,000**	**1,790,000**	*54,545.5*	---
RCRA Metals							
Arsenic	mg/kg	NA	NA	**3**	**0.677**	*0.584*	(8)
Barium	mg/kg	NA	NA	**100,000**	**15,300**	*164.8*	(364)
Cadmium	mg/kg	NA	NA	**985**	**71.1**	*0.752*	(1)
Chromium (a)	mg/kg	NA	NA	**(b)**	**(b)**	*360,000(c)*	(44) (d)
Lead	mg/kg	NA	NA	**800**	**400**	*27*	(52)
Mercury	mg/kg	NA	NA	**3.13**	**3.13**	*0.208*	---
Selenium	mg/kg	NA	NA	**5,840**	**391**	*0.52*	---
Silver	mg/kg	NA	NA	**5,840**	**391**	*0.8491*	---
Cumulative Hazard Index		0.0007	0.0109	---	---	---	---
Cumulative Cancer Risk		1.8E-08	2.0E-07	---	---	---	---

Notes:

Bold concentrations exceed NR 720 non-industrial direct contact RCL
Boxed and bold concentrations exceed NR 720 industrial direct contact RCL
Italicized concentrations exceed NR 720 groundwater pathway RCL
Concentrations in ( ) exceed NR 720 BTV
--- - Not analyzed/Not Established
J - concentration detected between the laboratory Limit of Detection and the L
i.u. - instrument units
mg/kg -milligrams per kilogram, parts per million
ug/kg -micrograms per kilogram, parts per billion
s - saturated
u - unsaturated

PAH - polynuclear aromatic hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
PID - photoionization detector
RCL - residual contaminant level
VOC - volatile organic compounds
RCRA - resource conservation and recovery act
BTV - Background Threshold Value
DC-I - direct contact - industrial
DC-NI - direct contact - non-industrial
GW - groundwater pathway

a - Total Chromium laboratory analytical results may be comprised of trivalent (Cr III) and/or Hexavalent (Cr VI) chromium
b: DC RCL for Chromium VI is 0.301 mg/kg (NI) and 6.36 mg/kg (I) and DC RCL for Chromium III is 100,000 mg/kg.
c: use 360,000 mg/kg for DC RCL, if no CR-VI is present
d: BTV applies to Total Chromium

A.2. SOIL ANALYTICAL RESULTS TABLE (Page 15 of 22) (Midwest Enviro-Sciences)

City of South Milwaukee Vacant Parcel
222 N. Chicago Avenue
South Milwaukee, Wisconsin
BRRTS No. 02-41-556175

Analytical Parameter	Depth / Date / Units	SB-1 9-11' Jul-93	SB-1 13-15' Jul-93	SB-2 13-15' Jul-93	SB-3 13-15' Jul-93	SB-4 11' Jul-93	NR 720 RCL DC-I	NR 720 RCL DC-NI	NR 720 RCL GW	NR720 BTV
PID	i.u.	---	---	---	---	---	---	---	---	---
Saturated/Unsaturated		u	s	s	s	u	---	---	---	---
PVOCs										
Benzene	ug/kg	<140	<570	<1.2	<1.1	<1,300	**7,070**	**1,600**	*5.1*	---
Ethylbenzene	ug/kg	*2,200*	*2,200*	<1.2	<1.1	*1,900*	**35,400**	**8,020**	*1,570*	---
Methyl-tert-butyl-ether	ug/kg	<140	<570	<1.2	<1.1	<1,300	**282,000**	**63,800**	*27*	---
Toluene	ug/kg	<140	880	<1.2	2.4	<1,300	**818,000**	**818,000**	*1,107.2*	---
1,2,4-Trimethylbenzene	ug/kg	*20,000*	*35,000*	<1.2	<1.1	*83,000*	**219,000**	**219,000**	*1,382.1*	---
1,3,5-Trimethylbenzene	ug/kg	*1,700*	*5,200*	<1.2	<1.1	*14,000*	**182,000**	**182,000**		---
Xylenes	ug/kg	*4,600*	*12,000*	<2.3	<2.2	3,000	**260,000**	**260,000**	*3,960*	---
PAHs										
Acenaphthene	ug/kg	<1,800	<380	<370	<350	<1,700	**45,200,000**	**3,590,000**	---	---
Acenaphthylene	ug/kg	<1,800	<380	<370	<350	<1,700	**---**	**---**	---	---
Anthracene	ug/kg	<1,800	<380	<370	<350	<1,700	**100,000,000**	**17,900,000**	*196,949.2*	---
Benzo(a)anthracene	ug/kg	<1,800	<380	<370	<350	<1,700	**20,800**	**1,140**	---	---
Benzo(a)pyrene	ug/kg	<1,800	<380	<370	<350	<1,700	**2,110**	**115**	*470*	---
Benzo(b)fluoranthene	ug/kg	<1,800	<380	<370	<350	<1,700	**21,100**	**1,150**	*479.3*	---
Benzo(g,h,i)perylene	ug/kg	<1,800	<380	<370	<350	<1,700	**---**	**---**	---	---
Benzo(k)fluoranthene	ug/kg	<1,800	<380	<370	<350	<1,700	**211,000**	**11,500**	---	---
Chrysene	ug/kg	<1,800	<380	<370	<350	<1,700	**2,110,000**	**11,500**	*144.6*	---
Dibenz(a,h)anthracene	ug/kg	<1,800	<380	<370	<350	<1,700	**2,110**	**115**	---	---
Fluoranthene	ug/kg	300J	<380	<370	<350	250J	**30,100,000**	**2,390,000**	*88,877.8*	---
Fluorene	ug/kg	520J	<380	<370	<350	<1,700	**30,100,000**	**2,390,000**	*14,829.9*	---
Indeno(1,2,3-cd)pyrene	ug/kg	<1,800	<380	<370	<350	<1,700	**21,100**	**1,150**	---	---
Naphthalene	ug/kg	*1,100J*	*2,000*	<370	<350	*4,900*	**24,100**	**5,520**	*658.2*	---
Phenanthrene	ug/kg	200J	<380	<370	<350	340J	**---**	**---**	---	---
Pyrene	ug/kg	280J	<380	<370	<350	190J	**22,600,000**	**1,790,000**	*54,545.5*	---
RCRA Metals										
Lead	mg/kg	14	6.3	4.1	7.7	11	**800**	**400**	*27*	(52)
Cumulative Hazard Index		0.0715	0.1358	0	0	0.2957	---	---	---	---
Cumulative Cancer Risk		4.7E-07	6.4E-07	0	0	1.1E-06	---	---	---	---

Notes:
Bold concentrations exceed NR 720 non-industrial direct contact RCL
Boxed and bold concentrations exceed NR 720 industrial direct contact RCL
Italicized concentrations exceed NR 720 groundwater pathway RCL
Concentrations in ( ) exceed NR 720 BTV
--- - Not analyzed/Not Established
J - concentration detected between the laboratory Limit of Detection and the Limit of Quantitation
i.u. - instrument units
mg/kg -milligrams per kilogram, parts per million
ug/kg -micrograms per kilogram, parts per billion
s - saturated
u - unsaturated

PAH - polynuclear aromatic hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
PID - photoionization detector
RCL - residual contaminant level
PVOC - petroleum volatile organic compounds
RCRA - resource conservation and recovery act
BTV - Background Threshold Value
DC-I - direct contact - industrial
DC-NI - direct contact - non-industrial
GW - groundwater pathway

a - Total Chromium laboratory analytical results may be comprised of trivalent (Cr III) and/or Hexavalent (Cr VI) chromium
b: DC RCL for Chromium VI is 0.301 mg/kg (NI) and 6.36 mg/kg (I) and DC RCL for Chromium III is 100,000 mg/kg.
c: use 360,000 mg/kg for DC RCL, if no CR-VI is present
d: BTV applies to Total Chromium

A.2. SOIL ANALYTICAL RESULTS TABLE (Page 16 of 22) (Midwest Enviro-Sciences)

City of South Milwaukee Vacant Parcel
222 N. Chicago Avenue
South Milwaukee, Wisconsin
BRRTS No. 02-41-556175

Analytical Parameter	Depth / Date / Units	MW-1 9-11' Jul-93	MW-1 13-15' Jul-93	MW-2 13-15' Jul-93	MW-3 9-11' Jul-93	MW-3 13-15' Jul-93	MW-4 5-7' Jul-93	MW-4 13-15' Jul-93	NR 720 RCL DC-I	NR 720 RCL DC-NI	NR 720 RCL GW	NR720 BTV
PID	i.u.	---	---	---	---	---	---	---	---	---	---	---
Saturated/Unsaturated		u	s	s	u	s	u	s	---	---	---	---
PVOCs												
Benzene	ug/kg	<1.1	<1.2	<2.6	<1.0	<0.98	<1.1	*29*	**7,070**	**1,600**	*5.1*	---
Ethylbenzene	ug/kg	<1.1	<1.2	7.5	<1.0	<0.98	<1.1	3.3	**35,400**	**8,020**	*1,570*	---
Methyl-tert-butyl-ether	ug/kg	<1.1	<1.2	<2.6	<1.0	<0.98	<1.1	<1.1	**282,000**	**63,800**	*27*	---
Toluene	ug/kg	<1.1	<1.2	<2.6	<1.0	2.2	<1.1	6.6	**818,000**	**818,000**	*1,107.2*	---
1,2,4-Trimethylbenzene	ug/kg	<1.1	<1.2	77	<1.0	1.8	<1.1	<1.1	**219,000**	**219,000**	*1,382.1*	---
1,3,5-Trimethylbenzene	ug/kg	<1.1	<1.2	7.8	<1.0	<0.98	<1.1	<1.1	**182,000**	**182,000**		---
Xylenes	ug/kg	<2.1	<2.3	48	<2.0	<2.0	<2.3	12	**260,000**	**260,000**	*3,960*	---
PAHs												
Acenaphthene	ug/kg	<340	<370	<350	<340	<370	<370	<370	**45,200,000**	**3,590,000**	---	---
Acenaphthylene	ug/kg	<340	<370	<350	<340	<370	<370	<370	**---**	**---**	---	---
Anthracene	ug/kg	<340	<370	<350	<340	<370	<370	<370	**100,000,000**	**17,900,000**	*196,949.2*	---
Benzo(a)anthracene	ug/kg	<340	<370	<350	<340	<370	<370	<370	**20,800**	**1,140**	---	---
Benzo(a)pyrene	ug/kg	<340	<370	<350	<340	<370	<370	<370	**2,110**	**115**	*470*	---
Benzo(b)fluoranthene	ug/kg	<340	<370	<350	<340	<370	<370	<370	**21,100**	**1,150**	*479.3*	---
Benzo(g,h,i)perylene	ug/kg	<340	<370	<350	<340	<370	<370	<370	**---**	**---**	---	---
Benzo(k)fluoranthene	ug/kg	<340	<370	<350	<340	<370	<370	<370	**211,000**	**11,500**	---	---
Chrysene	ug/kg	38J	<370	<350	<340	<370	<370	<370	**2,110,000**	**11,500**	*144.6*	---
Dibenz(a,h)anthracene	ug/kg	<340	<370	<350	<340	<370	<370	<370	**2,110**	**115**	---	---
Fluoranthene	ug/kg	49J	<370	<350	<340	44J	<370	<370	**30,100,000**	**2,390,000**	*88,877.8*	---
Fluorene	ug/kg	<340	<370	<350	<340	<370	<370	<370	**30,100,000**	**2,390,000**	*14,829.9*	---
Indeno(1,2,3-cd)pyrene	ug/kg	<340	<370	<350	<340	<370	<370	<370	**21,100**	**1,150**	---	---
Naphthalene	ug/kg	<340	<370	<350	<340	<370	<370	<370	**24,100**	**5,520**	*658.2*	---
Phenanthrene	ug/kg	<340	<370	<350	<340	<370	<370	<370	**---**	**---**	---	---
Pyrene	ug/kg	83J	<370	<350	<340	54J	<370	<370	**22,600,000**	**1,790,000**	*54,545.5*	---
RCRA Metals												
Lead	mg/kg	7.6	5.4	10	7.8	4.7	12	4.9	**800**	**400**	*27*	(52)
Cumulative Hazard Index		0	0	0.0003	0	0	0	0.0003	---	---	---	---
Cumulative Cancer Risk		3.3E-10	0	9.4E-10	0	0	0	1.9E-08	---	---	---	---

Notes:

Bold concentrations exceed NR 720 non-industrial direct contact RCL
Boxed and bold concentrations exceed NR 720 industrial direct contact RCL
Italicized concentrations exceed NR 720 groundwater pathway RCL
Concentrations in ( ) exceed NR 720 BTV
--- - Not analyzed/Not Established
J - concentration detected between the laboratory Limit of Detection and the Limit of Quantitation
i.u. - instrument units
mg/kg -milligrams per kilogram, parts per million
ug/kg -micrograms per kilogram, parts per billion
s - saturated
u - unsaturated

PAH - polynuclear aromatic hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
PID - photoionization detector
RCL - residual contaminant level
PVOC - petroleum volatile organic compounds
RCRA - resource conservation and recovery act
BTV - Background Threshold Value
DC-I - direct contact - industrial
DC-NI - direct contact - non-industrial
GW - groundwater pathway

a - Total Chromium laboratory analytical results may be comprised of trivalent (Cr III) and/or Hexavalent (Cr VI) chromium
b: DC RCL for Chromium VI is 0.301 mg/kg (NI) and 6.36 mg/kg (I) and DC RCL for Chromium III is 100,000 mg/kg.
c: use 360,000 mg/kg for DC RCL, if no CR-VI is present
d: BTV applies to Total Chromium

A.2. SOIL ANALYTICAL RESULTS TABLE (Page 17 of 22) PSI

City of South Milwaukee Vacant Parcel
Soil Excavation -(SP-1)
222 North Chicago Avenue
South Milwaukee, Wisconsin
BRRTS No. 02-41-556175

Analytical Parameter	Depth / Date / Units	SB-1 13' 7/3/12	SB-2 13' 7/3/12	SWSW 7' - 11' 7/3/12	SNSW 7' - 11' 7/3/12	SSSW 7' - 11' 7/3/12	NR 720 RCLs DC-I	NR 720 RCLs DC-NI	NR 720 RCLs GW	NR720 BTV
PID	i.u.	0.0	0.0	0.0	0.0	0.0	---	---	---	---
DRO	mg/kg	9.1	45.2	1.8	9.2	3.3	---	---	---	---
No GRO or VOCs detected in submitted soil samples										
Detected PAHs										
Acenaphthylene	ug/kg	<8.6	<8.3	<9	<9.2	<8.5	**---**	**---**	---	---
Anthracene	ug/kg	<1.8	<1.7	2.1J	<1.9	<1.7	**100,000,000**	**17,900,000**	*196,949.2*	---
Benzo(a)anthracene	ug/kg	<8.6	<8.3	<9	<9.2	<8.5	**20,800**	**1,140**	---	---
Benzo(a)pyrene	ug/kg	<8.6	<8.3	<9	<9.2	<8.5	**2,110**	**115**	*470*	---
Benzo(b)fluoranthene	ug/kg	<2.5	<2.4	6.3J	<2.7	2.6J	**21,100**	**1,150**	*479.3*	---
Benzo(g,h,i)perylene	ug/kg	<8.6	<8.3	<9	<9.2	<8.5	**---**	**---**	---	---
Benzo(k)fluoranthene	ug/kg	<8.6	<8.3	<9	<9.2	<8.5	**211,000**	**11,500**	---	---
Chrysene	ug/kg	<2	4.3J	7.5J	<2.1	2.1J	**2,110,000**	**11,500**	*144.6*	---
Dibenz(a,h)anthracene	ug/kg	<8.6	<8.3	<9	<9.2	<8.5	**2,110**	**115**	---	---
Fluoranthene	ug/kg	<8.6	<8.3	<9	<9.2	<8.5	**30,100,000**	**2,390,000**	*88,877.8*	---
Indeno(1,2,3-cd)pyrene	ug/kg	<8.6	<8.3	<9	<9.2	<8.5	**21,100**	**1,150**	---	---
1-Methylnaphthalene	ug/kg	<7.9	<7.6	<8.2	<8.4	<7.8	**72,700**	**17,600**	---	---
2-Methylnaphthalene	ug/kg	<1.6	<1.6	3.8J	<1.7	<1.6	**3,010,000**	**239,000**	---	---
Naphthalene	ug/kg	<3.3	<3.1	5.5J	<3.5	<3.2	**24,100**	**5,520**	*658.2*	---
Phenanthrene	ug/kg	<2.2	<2.1	6.5J	<2.4	<2.2	**---**	**---**	---	---
Pyrene	ug/kg	<8.6	<8.3	<9	<9.2	<8.5	**22,600,000**	**1,790,000**	*54,545.5*	---
Detected RCRA Metals										
Arsenic	mg/kg	***(9.4)***	***3.7***	***4.6***	***(33.4)***	***3.5***	**3**	**0.677**	*0.584*	(8)
Barium	mg/kg	25.2	11.0	24.0	120	15.6	**100,000**	**15,300**	*164.8*	(364)
Cadmium	mg/kg	ND	0.28J	0.11J	0.19J	0.11J	**985**	**71.1**	*0.752*	(1)
Chromium (a)	mg/kg	8.8	6.4	10.2	7.7	8.8	**(b)**	**(b)**	*360,000(c)*	(44) (d)
Lead	mg/kg	15.4	5.9	5.7	7.2	5.2	**800**	**400**	*27*	(52)
Mercury	mg/kg	0.0059J	0.0030	0.0055J	ND	0.0062	**3**	**3.13**	*0.208*	---

Notes:

Bold concentrations exceed NR 720 non-industrial direct contact RCL
Boxed and bold concentrations exceed NR 720 industrial direct contact RCL
Italicized concentrations exceed NR 720 groundwater pathway RCL
Concentrations in ( ) exceed NR 720 BTV
--- - Not analyzed/Not Established
J - concentration detected between the laboratory Limit of Detection and the Limit of Quantitation
i.u. - instrument units
mg/kg -milligrams per kilogram, parts per million
ug/kg -micrograms per kilogram, parts per billion

PAH - polynuclear aromatic hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
PID - photoionization detector
RCL - residual contaminant level
VOC - volatile organic compounds
RCRA - resource conservation and recovery act
BTV - Background Threshold Value
DC-I - direct contact - industrial
DC-NI - direct contact - non-industrial
GW - groundwater pathway

a - Total Chromium laboratory analytical results may be comprised of trivalent (Cr III) and/or Hexavalent (Cr VI) chromium
b: DC RCL for Chromium VI is 0.301 mg/kg (NI) and 6.36 mg/kg (I) and DC RCL for Chromium III is 100,000 mg/kg.
c: use 360,000 mg/kg for DC RCL, if no CR-VI is present
d: BTV applies to Total Chromium

A.2. SOIL ANALYTICAL RESULTS TABLE (Page 18 of 22) PSI

City of South Milwaukee Vacant Parcel
Soil Excavation -(SP-2 and SP-3)
222 North Chicago Avenue
South Milwaukee, Wisconsin
BRRTS No. 02-41-556175

Analytical Parameter	Depth / Date / Units	NNSW 3' - 7' 6/11/12	NSSW 3' - 7' 6/11/12	NWSW-1 3' - 7' 6/11/12	NWSW-2 3' - 7' 6/11/12	NR 720 RCLs DC-I	NR 720 RCLs DC-NI	NR 720 RCLs GW	NR720 BTV
PID	i.u.	0.0	0.0	0.0	0.0	---	---	---	---
saturated/unsaturated		u	u	u	u	---	---	---	---
DRO	mg/kg	8.0	52.3	4.6	38.4	---	---	---	---
Detected VOCs									
Toluene	ug/kg	<25	<25	<25	<25	**818,000**	818,000	*1,107.2*	---
PAHs									
Acenaphthene	ug/kg	<2.9	<3.0	<3.0	21.4J	**45,200,000**	**3,590,000**	---	---
Acenaphthylene	ug/kg	<3.3	3.5J	<3.4	295	**---**	**---**	---	---
Anthracene	ug/kg	<4.8	6.5J	<4.9	484	**100,000,000**	**17,900,000**	*196,949.2*	---
Benzo(a)anthracene	ug/kg	<2.9	23.7	8.5J	470	**20,800**	**1,140**	---	---
Benzo(a)pyrene	ug/kg	<3.4	27.2	8.5J	***761***	**2,110**	**115**	*470*	---
Benzo(b)fluoranthene	ug/kg	<3.5	33.3	10.9J	*899*	**21,100**	**1,150**	*479.3*	---
Benzo(g,h,i)perylene	ug/kg	<2.7	22.6	7.9J	568	**---**	**---**	---	---
Benzo(k)fluoranthene	ug/kg	<3.8	18.4J	7.7J	844	**211,000**	**11,500**	---	---
Chrysene	ug/kg	<3.7	30.6	12.5J	*846*	**2,110,000**	**11,500**	*144.6*	---
Dibenz(a,h)anthracene	ug/kg	<5.6	<5.9	<5.9	**208**	**2,110**	**115**	---	---
Fluoranthene	ug/kg	<10.3	40.1	18.2J	1,370	**30,100,000**	**2,390,000**	*88,877.8*	---
Fluorene	ug/kg	<5.1	<5.4	<5.2	46.0J	**30,100,000**	**2,390,000**	*14,829.9*	---
Indeno(1,2,3-cd)pyrene	ug/kg	<2.9	14.1J	5.3J	520	**21,100**	**1,150**	---	---
1-Methylnaphthalene	ug/kg	<3.1	29.3	4.6J	75.6J	**72,700**	**17,600**	---	---
2-Methylnaphthalene	ug/kg	<3.1	47.7	6.6J	89.1	**3,010,000**	**239,000**	---	---
Naphthalene	ug/kg	<3.6	45.5	10.7J	88.2	**24,100**	**5,520**	*658.2*	---
Phenanthrene	ug/kg	<4.5	34.5	11.9J	1,020	**---**	**---**	---	---
Pyrene	ug/kg	<3.8	32.4	14.1J	1,040	**22,600,000**	**1,790,000**	*54,545.5*	---
RCRA Metals									
Arsenic	mg/kg	***5.4***	***(35.3)***	***5.8***	***(9)***	**3**	**0.677**	*0.584*	(8)
Barium	mg/kg	91	*173*	52.1	150	**100,000**	**15,300**	*164.8*	(364)
Cadmium	mg/kg	0.44J	0.61J	0.20J	0.29J	**985**	**71.1**	*0.752*	(1)
Chromium	mg/kg	24.9	(12,100)	(1,180)	(3,290)	**(b)**	**(b)**	*360,000(c)*	(44) (d)
Lead	mg/kg	12.6	*(127)*	*(66.5)*	*48.6*	**800**	**400**	*27*	(52)
Mercury	mg/kg	0.035	*0.31*	0.068	0.11	**3**	**3.13**	*0.208*	---
Selenium	mg/kg	<0.53	<2.8	<0.56	<0.53	**5,840**	**391**	*0.52*	---
Silver	mg/kg	<0.24	<1.3	<0.25	<0.24	**5,840**	**391**	*0.8491*	---
Chromium (TCLP)	mg/L	---	0.21J	<0.12	0.30	**---**	**---**	**---**	---
Lead (TCLP)	mg/L	---	<0.015	---	---	**---**	**---**	**---**	---

Notes:

Bold concentrations exceed NR 720 non-industrial direct contact RCL
Boxed and bold concentrations exceed NR 720 industrial direct contact RCL
Italicized concentrations exceed NR 720 groundwater pathway RCL
Concentrations in ( ) exceed NR 720 BTV
--- - Not analyzed/Not Established
J - concentration detected between the laboratory Limit of Detection and the Limit of Quantitation
i.u. - instrument units
mg/kg -milligrams per kilogram, parts per million
ug/kg -micrograms per kilogram, parts per billion
s - saturated
u - unsaturated

PAH - polynuclear aromatic hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
PID - photoionization detector
RCL - residual contaminant level
VOC - volatile organic compounds
RCRA - resource conservation and recovery act
BTV - Background Threshold Value
DC-I - direct contact - industrial
DC-NI - direct contact - non-industrial
GW - groundwater pathway

a - Total Chromium laboratory analytical results may be comprised of trivalent (Cr III) and/or Hexavalent (Cr VI) chromium
b: DC RCL for Chromium VI is 0.301 mg/kg (NI) and 6.36 mg/kg (I) and DC RCL for Chromium III is 100,000 mg/kg.
c: use 360,000 mg/kg for DC RCL, if no CR-VI is present
d: BTV applies to Total Chromium

A.2. SOIL ANALYTICAL RESULTS TABLE (Page 19 of 22) PSI

City of South Milwaukee Vacant Parcel
Soil Excavation -(SP-2 and SP-3)
222 North Chicago Avenue
South Milwaukee, Wisconsin
BRRTS No. 02-41-556175

Analytical Parameter	Depth / Date / Units	NESW-1 3' - 7' 6/11/12	NESW-2 3' - 7' 6/11/12	NBASE-1 8' 6/11/12	NBASE-2 8' 6/11/12	NR 720 RCLs DC-I	NR 720 RCLs DC-NI	NR 720 RCLs GW	NR720 BTV
PID	i.u.	0.0	0.0	0.0	0.0	---	---	---	---
saturated/unsaturated		u	u	u	u	---	---	---	---
DRO	mg/kg	22.3	69.6	35.3	7.0	---	---	---	---
Detected VOCs									
Toluene	ug/kg	36.1J	<25	<25	<25	**818,000**	818,000	*1,107.2*	---
PAHs									
Acenaphthene	ug/kg	<9.7	<3	<2.7	<2.7	**45,200,000**	**3,590,000**	---	---
Acenaphthylene	ug/kg	22.8J	<3.4	<3	<3	**---**	**---**	---	---
Anthracene	ug/kg	23.2J	<5	<4.4	<4.4	**100,000,000**	**17,900,000**	*196,949.2*	---
Benzo(a)anthracene	ug/kg	60.3J	12.4J	<2.7	<2.7	**20,800**	**1,140**	---	---
Benzo(a)pyrene	ug/kg	60.2J	11.9J	<3.1	<3.1	**2,110**	**115**	*470*	---
Benzo(b)fluoranthene	ug/kg	76.0	15.5J	<3.3	<3.3	**21,100**	**1,150**	*479.3*	---
Benzo(g,h,i)perylene	ug/kg	77.1	12.6J	<2.5	<2.5	**---**	**---**	---	---
Benzo(k)fluoranthene	ug/kg	56.8J	9.9J	<3.5	<3.5	**211,000**	**11,500**	---	---
Chrysene	ug/kg	87.9	16.2J	<3.4	<3.4	**2,110,000**	**11,500**	*144.6*	---
Dibenz(a,h)anthracene	ug/kg	19.8J	<5.9	<5.2	<5.2	**2,110**	**115**	---	---
Fluoranthene	ug/kg	132	17.3J	<9.5	<9.5	**30,100,000**	**2,390,000**	*88,877.8*	---
Fluorene	ug/kg	<17.1	<5.4	<4.7	<4.7	**30,100,000**	**2,390,000**	*14,829.9*	---
Indeno(1,2,3-cd)pyrene	ug/kg	52.4J	8.5J	<2.7	<2.7	**21,100**	**1,150**	---	---
1-Methylnaphthalene	ug/kg	131	18.4J	<2.9	<2.9	**72,700**	**17,600**	---	---
2-Methylnaphthalene	ug/kg	188	23.0	<2.9	<2.9	**3,010,000**	**239,000**	---	---
Naphthalene	ug/kg	233	29.3	<3.3	<3.3	**24,100**	**5,520**	*658.2*	---
Phenanthrene	ug/kg	156	24.3	<4.2	<4.2	**---**	**---**	---	---
Pyrene	ug/kg	90.0	15.5J	<3.5	<3.5	**22,600,000**	**1,790,000**	*54,545.5*	---
RCRA Metals									
Arsenic	mg/kg	***(22.2)***	***(14.8)***	***6.1***	***2.5***	**3**	**0.677**	*0.584*	(8)
Barium	mg/kg	*(883)*	157	30.8	35	**100,000**	**15,300**	*164.8*	(364)
Cadmium	mg/kg	0.51J	*0.77J*	0.22J	0.16J	**985**	**71.1**	*0.752*	(1)
Chromium	mg/kg	(4,310)	(8,690)	15.7	37.7	**(b)**	**(b)**	*360,000(c)*	(44) (d)
Lead	mg/kg	*(71.3)*	*(153)*	6.7	8.0	**800**	**400**	*27*	(52)
Mercury	mg/kg	*0.39*	*0.41*	0.0090	0.012	**3**	**3.13**	*0.208*	---
Selenium	mg/kg	*2.6J*	<2.8	<0.55	<0.52	**5,840**	**391**	*0.52*	---
Silver	mg/kg	<0.3	<1.3	<0.25	<0.24	**5,840**	**391**	*0.8491*	---
Chromium (TCLP)	mg/L	0.29	0.22J	---	---	**---**	**---**	**---**	---
Lead (TCLP)	mg/L	---	<0.015	---	---	**---**	**---**	**---**	---

Notes:

Bold concentrations exceed NR 720 non-industrial direct contact RCL
Boxed and bold concentrations exceed NR 720 industrial direct contact RCL
Italicized concentrations exceed NR 720 groundwater pathway RCL
Concentrations in ( ) exceed NR 720 BTV
--- - Not analyzed/Not Established
J - concentration detected between the laboratory Limit of Detection and the Limit of Quantitation
i.u. - instrument units
mg/kg -milligrams per kilogram, parts per million
ug/kg -micrograms per kilogram, parts per billion
s - saturated
u - unsaturated

PAH - polynuclear aromatic hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
PID - photoionization detector
RCL - residual contaminant level
VOC - volatile organic compounds
RCRA - resource conservation and recovery act
BTV - Background Threshold Value
DC-I - direct contact - industrial
DC-NI - direct contact - non-industrial
GW - groundwater pathway

a - Total Chromium laboratory analytical results may be comprised of trivalent (Cr III) and/or Hexavalent (Cr VI) chromium
b: DC RCL for Chromium VI is 0.301 mg/kg (NI) and 6.36 mg/kg (I) and DC RCL for Chromium III is 100,000 mg/kg.
c: use 360,000 mg/kg for DC RCL, if no CR-VI is present
d: BTV applies to Total Chromium

A.2. SOIL ANALYTICAL RESULTS TABLE (Page 20 of 22) PSI

City of South Milwaukee Vacant Parcel
Northeast UST Excavation- Additonal Sampling
222 North Chicago Avenue
South Milwaukee, Wisconsin
BRRTS No. 02-41-556175

Analytical Parameter	Depth Date Units	NEWSW-1 5' - 7' 7/10/12	NEWSW-2 5' - 7' 7/10/12	NENSW-1 5' - 7' 7/10/12	NENSW-2 5' - 7' 7/10/12	NEESW-1 5' - 7' 7/10/12	NEESW-2 5' - 7' 7/10/12	NR 720 RCL DC-I	NR 720 RCL DC-NI	NR 720 RCL GW	NR720 BTV
PID	i.u.	---	---	---	---	---	---	---	---	---	---
saturated/unsaturated		u	u	u	u	u	u	---	---	---	---
DRO	mg/kg	85.6	710	10	145	71.3	93.0	---	---	---	---
GRO	mg/kg	1,450	6,230	49.5	136	403	236	---	---	---	---
Detected VOCs											
Benzene	ug/kg	<1,000	***4,820J***	<25	<50	<250	*79.9J*	**7,100**	**1,600**	*5.1*	---
n-Butylbenzene	ug/kg	<1,620	<3,230	345	678	<404	<101	**108,000**	**108,000**	---	---
sec-Butylbenzene	ug/kg	3,310	9,930	451	415	664J	324	**145,000**	**145,000**	---	---
Ethylbenzene	ug/kg	***33,900***	***184,000***	69.0J	94.9J	*5,700*	*2,040*	**35,400**	**8,020**	*1,570*	---
Isopropylbenzene (Cumene)	ug/kg	5,030	18,600	454	394	774	353	**268,000**	**268,000**	---	---
p-Isopropyltoluene	ug/kg	1,880J	5,250J	<25	<50	522J	465	**162,000**	**162,000**	---	---
Naphthalene	ug/kg	***23,000***	***45,400***	<25	<50	***6,210***	*2,830*	**24,100**	**5,520**	*658.2*	---
n-Propylbenzene	ug/kg	24,700	85,800	2,330	792	3,180	1,280	**264,000**	**264,000**	---	---
Toluene	ug/kg	<1,000	*4,910J*	<25	<50	<250	<62.5	**818,000**	**818,000**	*1,107.2*	---
1,2,4-Trimethylbenzene	ug/kg	*154,000*	***443,000***	83.9	87.5J	*46,200*	*11,000*	**219,000**	**219,000**	*1382.1*	---
1,3,5-Trimethylbenzene	ug/kg	*43,500*	*136,000*	<25	<50	*15,000*	*3,560*	**182,000**	**182,000**		---
Total Xylenes	ug/kg	*148,000*	***671,350***	<25	267J	*32,810*	*9,070*	**260,000**	**260,000**	*3.,960*	---
Detected PAHs											
Acenaphthene	ug/kg	<207	<206	<9.7	97.1J	<41.2	<9.8	**45,200,000**	**3,590,000**	---	---
Anthracene	ug/kg	<42.4	252J	<2	20.0J	<8.4	<2	**100,000,000**	**17,900,000**	*196,949.2*	---
Benzo(a)anthracene	ug/kg	<207	323J	<9.7	<62.1	<41.2	<9.8	**20,800**	**1,140**	---	---
Benzo(a)pyrene	ug/kg	<207	**280J**	<9.7	<62.1	<41.2	<9.8	**2,110**	**115**	470	---
Benzo(b)fluoranthene	ug/kg	<59.7	233J	<2.8	<17.9	<11.9	<2.8	**21,100**	**1,150**	479.3	---
Benzo(k)fluoranthene	ug/kg	<207	275J	<9.7	<62.1	<41.2	<9.8	**211,000**	**11,500**	---	---
Chrysene	ug/kg	<47	*329J*	<2.2	<14.1	<9.4	<2.2	**2,110,000**	**115,000**	*144.6*	---
Fluoranthene	ug/kg	<207	802	<9.7	<62.1	<41.2	<9.8	**30,100,000**	**2,390,000**	*88,877.8*	---
Fluorene	ug/kg	<207	272J	<9.7	122J	<41.2	<9.8	**30,100,000**	**2,390,000**	*14,829.9*	---
1-Methylnaphthalene	ug/kg	3,470	2,400	17.4J	1,410	647	268	**72,700**	**17,600**	---	---
2-Methylnaphthalene	ug/kg	6,400	5,160	8.8J	2,300	1,240	591	**3,010,000**	**239,000**	---	---
Naphthalene	ug/kg	*7,800*	*7,470*	39.0	607	*1,460*	*866*	**24,100**	**5,520**	*658.2*	---
Phenanthrene	ug/kg	56.0J	972	9.9J	204	21.7J	<2.5	**---**	**---**	---	---
Pyrene	ug/kg	<207	561	<9.7	<62.1	<41.2	<9.8	**22,600,000**	**1,790,000**	54,545.50	---
Detected RCRA Metals											
Arsenic	mg/kg	***2.3***	***6.1***	***5.0***	***4.5***	***6.0***	***5.5***	**3**	**0.677**	*0.584*	(8)
Barium	mg/kg	45.8	44.9	39.6	33.7	47.2	23.5	**100,000**	**15,300**	*164.8*	(364)
Cadmium	mg/kg	0.18J	0.19J	0.15J	0.048J	<0.033	0.14J	**985**	**71.1**	*0.752*	(1)
Chromium	mg/kg	15.2	17.0	16.7	15.4	20.3	13.1	**b**	**b**	*360,000(c)*	'(44) (d)
Lead	mg/kg	17.1	*(140)*	9.1	8.1	13.5	8.6	**800**	**400**	*27*	(52)
Mercury	mg/kg	0.033	0.048	0.014	0.0093	0.013	0.012	**3.13**	**3.13**	*0.208*	---
Selenium	mg/kg	<0.55	<0.5	<0.5	<0.5	<0.51	*0.68J*	**5,840**	**391**	*0.52*	---

Notes:
Bold concentrations exceed NR 720 non-industrial direct contact RCLs
Boxed and bold concentrations exceed NR 720 industrial direct contact RCLs
Italicized concentrations exceed NR 720 groundwater pathway RCLs
Concentrations in ( ) exceed NR 720 BTV
"--- - Not analyzed/Not established
J - concentration detected between the laboratory Limit of Detection and the Limit of Quantitation
i.u. - instrument units
mg/kg -milligrams per kilogram
ug/kg -micrograms per kilogram
s - saturated
u - unsaturated

PAH - polynuclear aromatic hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
PID - photoionization detector
RCL - residual contaminant level
VOC - volatile organic compounds
RCRA - resource conservation and recovery act
DC-I - direct contact - industrial
DC-NI - direct contact - non-industrial
GW - groundwater pathway

a - Total Chromium laboratory analytical results may be comprised of trivalent (Cr III) and/or Hexavalent (Cr VI) chromium
b: DC RCL for Chromium VI is 0.301 mg/kg (NI) and 6.36 mg/kg (I) and DC RCL for Chromium III is 100,000 mg/kg.
c: use 360,000 mg/kg for DC RCL, if no CR-VI is present
d: BTV applies to Total Chromium

A.2. SOIL ANALYTICAL RESULTS TABLE (Page 21 of 22) PSI

City of South Milwaukee Vacant Parcel
Northeast UST Excavation- Additonal Sampling
222 North Chicago Avenue
South Milwaukee, Wisconsin
BRRTS No. 02-41-556175

Analytical Parameter	Depth / Date / Units	NESSW-1 5' - 7' 7/10/12	NESSW-2 5' - 7' 7/10/12	NEB-1 9' 7/10/12	NEB-2 9' 7/10/12	NEB-3 9' 7/10/12	NEB-4 9' 7/10/12	NR 720 RCL DC-I	NR 720 RCL DC-NI	NR 720 RCL GW	NR720 BTV
PID	i.u.	---	---	---	---	---	---	---	---	---	---
saturated/unsaturated		u	u	u	u	u	u	---	---	---	---
DRO	mg/kg	122	2.2	15.3	49.9	ND	5.0	---	---	---	---
GRO	mg/kg	1,050	ND	210	103	243	21.4	---	---	---	---
Detected VOCs											
Benzene	ug/kg	*1,010J*	<25	***1,610***	*685*	*742*	***2,450***	**7,100**	**1,600**	*5.1*	---
n-Butylbenzene	ug/kg	<808	ND	1,650	373	<202	<40.2	**108,000**	**108,000**	---	---
sec-Butylbenzene	ug/kg	1,100J	<25	383	209	387	<25	**145,000**	**145,000**	---	---
Ethylbenzene	ug/kg	***15,900***	311	*5,150*	1,090	***12,900***	*1,570*	**35,400**	**8,020**	*1,570*	---
Isopropylbenzene (Cumene)	ug/kg	1630	<25	685	551	1,080	<25	**268,000**	**268,000**	---	---
p-Isopropyltoluene	ug/kg	<500	<25	242	184	181J	<25	**162,000**	**162,000**	---	---
Naphthalene	ug/kg	***7,370***	<25	*2,050*	*2,490*	***7,350***	<25	**24,100**	**5,520**	*658.2*	---
n-Propylbenzene	ug/kg	8,840	79.7	2,970	1,410	5,020	30.9J	**264,000**	**264,000**	---	---
Toluene	ug/kg	*1,390J*	<25	104J	36.2J	164J	*1,860*	**818,000**	**818,000**	*1,107.2*	---
1,2,4-Trimethylbenzene	ug/kg	*66,100*	403	*17,400*	*6,340*	*26,900*	142	**219,000**	**219,000**	*1382.1*	---
1,3,5-Trimethylbenzene	ug/kg	*21,600*	104	*114J*	*876*	*6,320*	32.1J	**182,000**	**182,000**		---
Total Xylenes	ug/kg	*80,500*	1,200	*14,220*	*4,456*	*51,020*	2,905	**260,000**	**260,000**	*3.,960*	---
Detected PAHs											
Acenaphthene	ug/kg	46.3J	<63.3	<9.6	75.4J	<31.6	<9.6	**45,200,000**	**3,590,000**	---	---
Anthracene	ug/kg	102	ND	<2	13.2J	<6.5	<2	**100,000,000**	**17,900,000**	*196,949.2*	---
Benzo(a)anthracene	ug/kg	151	<63.3	<9.6	<38.7	<31.6	<9.6	**20,800**	**1,140**	---	---
Benzo(a)pyrene	ug/kg	**157**	<63.3	<9.6	<38.7	<31.6	<9.6	**2,110**	**115**	470	---
Benzo(b)fluoranthene	ug/kg	140	44.2J	<2.8	<11.2	<9.1	<2.8	**21,100**	**1,150**	479.3	---
Benzo(g,h,i)perylene	ug/kg	103	<63.3	<9.6	<38.7	<31.6	<9.6	---	---	---	---
Benzo(k)fluoranthene	ug/kg	149	<63.3	<9.6	<38.7	<31.6	<9.6	**211,000**	**11,500**	---	---
Chrysene	ug/kg	*176*	49.7J	<2.2	<8.8	8.6J	<2.2	**2,110,000**	**115,000**	*144.6*	---
Fluoranthene	ug/kg	430	<63.3	<9.6	<38.7	<31.6	<9.6	**30,100,000**	**2,390,000**	*88,877.8*	---
Fluorene	ug/kg	81.0	<63.3	<9.6	85.5	<31.6	<9.6	**30,100,000**	**2,390,000**	*14,829.9*	---
Indeno(1,2,3-cd)pyrene	ug/kg	89.0	<63.3	<9.6	<38.7	<31.6	<9.6	**21,100**	**1,150**	---	---
1-Methylnaphthalene	ug/kg	706	<57.8	298	987	268	11.5J	**72,700**	**17,600**	---	---
2-Methylnaphthalene	ug/kg	1,440	<11.9	690	1,620	474	17.7J	**3,010,000**	**239,000**	---	---
Naphthalene	ug/kg	*1,700*	39.7J	577	320	*1,290*	26.3	**24,100**	**5,520**	*658.2*	---
Phenanthrene	ug/kg	396	<16.1	5.2J	173	26.8J	9.3J	---	---	---	---
Pyrene	ug/kg	314	<63.3	<9.6	<38.7	<31.6	<9.6	**22,600,000**	**1,790,000**	54,545.50	---
Detected RCRA Metals											
Arsenic	mg/kg	***4.6***	***6.0***	***2.3***	***5.6***	***2.0J***	***5.4***	**3**	**0.677**	*0.584*	(8)
Barium	mg/kg	51.0	83.7	38.0	36.3	34.3	30.5	**100,000**	**15,300**	*164.8*	(364)
Cadmium	mg/kg	0.22J	0.12J	0.11J	<0.032	<0.033	<0.03	**985**	**71.1**	*0.752*	(1)
Chromium	mg/kg	15.2	24.3	15.3	20.5	13.6	14.7	**b**	**b**	*360,000(c)*	(44) (d)
Lead	mg/kg	*36.6*	21.9	7.2	6.7	6.7	6.0	**800**	**400**	*27*	(52)
Mercury	mg/kg	0.047	0.036	0.011	0.011	0.0086	0.010	**3.13**	**3.13**	*0.208*	---

Notes:
Bold concentrations exceed NR 720 non-industrial direct contact RCLs
Boxed and bold concentrations exceed NR 720 industrial direct contact RCLs
Italicized concentrations exceed NR 720 groundwater pathway RCLs
Concentrations in ( ) exceed NR 720 BTV
"--- - Not analyzed/Not established
J - concentration detected between the laboratory Limit of Detection and the Limit of Quantitation
i.u. - instrument units
mg/kg -milligrams per kilogram
ug/kg -micrograms per kilogram
s - saturated
u - unsaturated

PAH - polynuclear aromatic hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
PID - photoionization detector
RCL - residual contaminant level
VOC - volatile organic compounds
RCRA - resource conservation and recovery act
DC-I - direct contact - industrial
DC-NI - direct contact - non-industrial
GW - groundwater pathway

a - Total Chromium laboratory analytical results may be comprised of trivalent (Cr III) and/or Hexavalent (Cr VI) chromium
b: DC RCL for Chromium VI is 0.301 mg/kg (NI) and 6.36 mg/kg (I) and DC RCL for Chromium III is 100,000 mg/kg.
c: use 360,000 mg/kg for DC RCL, if no CR-VI is present
d: BTV applies to Total Chromium

A.2. SOIL ANALYTICAL RESULTS TABLE (Page 22 of 22) PSI

City of South Milwaukee Vacant Parcel
Soil Excavation - (SP-21)
222 North Chicago Avenue
South Milwaukee, Wisconsin
BRRTS No. 02-41-556175

Analytical Parameter	Depth / Date / Units	EWSW-1 7' - 9' 7/3/12	EBASE1 9' 7/3/12	EBASE2 9' 7/3/12	ENSW-1 7' - 9' 7/3/12	ENSW-2 7' - 9' 7/3/12	EESW-1 7' - 9' 7/3/12	NR 720 RCL DC-I	NR 720 RCL DC-NI	NR 720 RCL GW	NR720 BTV
PID	i.u.	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---	---
saturated/unsaturated		u	u	u	u	u	u	---	---	---	---
DRO	mg/kg	23.1	26.2	31.6	12.2	19.6	14.5	---	---	---	---
No GRO or VOCs detected in submitted soil samples											
Detected PAHs											
Acenaphthene	ug/kg	---	---	---	<9.3	<8.8	<8.5	**45,200,00**	**3,590,00**	---	---
Acenaphthylene	ug/kg	33.1J	<9	<30.8	<9.3	<8.8	<8.5	**---**	**---**	---	---
Anthracene	ug/kg	42.9	15.3J	180	29.6	1.8J	<1.8	**100,000,000**	**17,900,000**	*196,949.2*	---
Benzo(a)anthracene	ug/kg	180	85.5	**631**	99.9	14.3J	<8.5	**20,800**	**1,140**	---	---
Benzo(a)pyrene	ug/kg	**217**	113	***681***	**115**	16.8J	<8.5	**2,110**	**115**	*470*	---
Benzo(b)fluoranthene	ug/kg	250	125	*633*	126	17.1J	5.0J	**21,100**	**1,150**	*479.3*	---
Benzo(g,h,i)perylene	ug/kg	168	86.8	466	87.8	15.7J	8.7J	**---**	**---**	---	---
Benzo(k)fluoranthene	ug/kg	177	95.2	558	90.1	14.3J	<8.5	**211,000**	**11,500**	---	---
Chrysene	ug/kg	*239*	115	*721*	125	18.7	5.9J	**2,110,000**	**11,500**	*144.6*	---
Dibenz(a,h)anthracene	ug/kg	60.5	30.5	**156**	29.4	<8.8	<8.5	**2,110**	**115**	---	---
Fluoranthene	ug/kg	381	189	1310	246	25.8	<8.5	**30,100,000**	**2,390,000**	*88,877.8*	---
Fluorene	ug/kg	---	---	---	<9.3	<8.8	<8.5	**30,100,000**	**2,390,000**	*14,829.9*	---
Indeno(1,2,3-cd)pyrene	ug/kg	137	71.0	375	71.2	10.6J	<8.5	**21,100**	**1,150**	---	---
1-Methylnaphthalene	ug/kg	30.7J	10.3J	<28.1	12.8J	<8	<7.8	**72,700**	**17,600**	---	---
2-Methylnaphthalene	ug/kg	34.3J	11.8J	21.0J	14.5J	3.5J	<1.6	**3,010,000**	**239,000**	---	---
Naphthalene	ug/kg	27.3J	9.5J	19.5J	10.8J	3.5J	<3.2	**24,100**	**5,520**	*658.2*	---
Phenanthrene	ug/kg	141	57.0	343	121	8.9J	<2.2	**---**	**---**	---	---
Pyrene	ug/kg	324	156	1100	188	20.9	<8.5	**22,600,000**	**1,790,000**	*54,545.5*	---
RCRA Metals											
Arsenic	mg/kg	***6.0***	***4.3***	***5.1***	***5.1***	***7.6***	***5.9***	**3**	**0.677**	*0.584*	(8)
Barium	mg/kg	64.8	41.6	43.2	43.2	52.2	32.9	**100,000**	**15,300**	*164.8*	(364)
Cadmium	mg/kg	0.39J	0.14J	0.22J	0.22J	0.22J	0.20J	**985**	**71.1**	*0.752*	(1)
Chromium	mg/kg	19.7	13.9	17.2	17.2	17.0	12.3	**(b)**	**(b)**	*360,000(c)*	(44) (d)
Lead	mg/kg	*(60.6)*	*36.1*	*43.0*	*43.0*	*49.6*	23.0	**800**	**400**	*27*	(52)
Mercury	mg/kg	0.096	0.045	0.059	0.059	0.067	0.026	**3**	**3.13**	*0.208*	---

Notes:

Bold concentrations exceed NR 720 non-industrial direct contact RCL
Boxed and bold concentrations exceed NR 720 industrial direct contact RCL
Italicized concentrations exceed NR 720 groundwater pathway RCL
Concentrations in ( ) exceed NR 720 BTV
--- - Not analyzed/Not Established
J - concentration detected between the laboratory Limit of Detection and the Limit of Quantitation
i.u. - instrument units
mg/kg -milligrams per kilogram, parts per million
ug/kg -micrograms per kilogram, parts per billion
s - saturated
u - unsaturated

PAH - polynuclear aromatic hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
PID - photoionization detector
RCL - residual contaminant level
VOC - volatile organic compounds
RCRA - resource conservation and recovery act
BTV - Background Threshold Value
DC-I - direct contact - industrial
DC-NI - direct contact - non-industrial
GW - groundwater pathway

a - Total Chromium laboratory analytical results may be comprised of trivalent (Cr III) and/or Hexavalent (Cr VI) chromium
b: DC RCL for Chromium VI is 0.301 mg/kg (NI) and 6.36 mg/kg (I) and DC RCL for Chromium III is 100,000 mg/kg.
c: use 360,000 mg/kg for DC RCL, if no CR-VI is present
d: BTV applies to Total Chromium

A.2. SOIL ANALYTICAL RESULTS TABLE
SIGMA - HYGIENETICS

DETECTS ONLY

1200 Davis Avenue
South Milwaukee, Wisconsin
Project Reference #12101

Soil Boring Identification:					SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8	SB-9	SB-10	SB-11	SB-12	SB-13	SB-14	SB-15	SB-17	SB-18	SB-19	SB-20	SB-21	SB-22	SB-23	SB-24	SB-25	SB-26	SB-27
Sample Depth (ft):					2-4	1-2	4-6	5-6	3.5-4.5	8-9	14-14.5	5-7	10-12	6-8	7-8	6-7	5-6	7-8	5-6	6-8	5-6	9-10	11-12	9-10	6-7	7-8	10-11	10-12	7-9	7-10
METALS	Units	SSL (GW)	NR 720 RCL Table 2 (1) Non-Industrial	NR 720 RCL Table 2 (2) Industrial	06/11/01	06/11/01	06/11/01	06/11/01	06/11/01	06/11/01	06/11/01	06/12/01	06/12/01	06/12/01	06/12/01	06/12/01	06/12/01	06/12/01	06/12/01	06/12/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	07/17/01	07/17/01	07/17/01
Arsenic	mg/kg	NC	0.039	1.6	**(1,2) 5.5**	NA	**(1,2) 4.3**	NA	NA	NA	**(1,2) 3.3**	NA	NA	**(1,2) 6.5**	NA	<1.7	NA	**(1,2) 5.2**	**(1,2) 4.3**	NA	NA	NA	NA	NA	**(1,2) 3.3**	NA	**(1,2) 5.6**	NA	NA	**(1,2) 5.7**[MS]
Barium	mg/kg	NC	NS	NS	**94**	NA	**50**	NA	NA	NA	**48**	NA	NA	**96**	NA	**4.9**	NA	**46**	**19**	NA	NA	NA	NA	NA	**83**	NA	**33**	NA	NA	**67**
Cadmium	mg/kg	NC	8.0	510	**0.74**	NA	<0.64	NA	NA	NA	<0.61	NA	NA	<0.6	NA	<0.57	NA	<0.58	<0.58	NA	NA	NA	NA	NA	<0.59	NA	<0.59	NA	NA	**0.54**
Chromium, ICP	mg/kg	NC	NS	NS	**417**	NA	**24**	NA	NA	NA	**17**	NA	NA	**30**	NA	**4.9**	NA	**17**	**1100**	NA	NA	NA	NA	NA	**21**	NA	**14**	**17**	**17**	**22**
Chromium, Trivalent	mg/kg	359,854	16,000	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**17**	**17**	NA
Chromium, Hexavalent	mg/kg	NC	14	200	NA	<5.7	NA	<6.5	<5.9	<5.9	NA	<6.1	<5.7	NA	<5.7	NA	<5.7	NA	NA	<5.8	<6.4	<5.9	<5.8	<5.6	NA	<5.8	NA	<5.8	<5.6	NA
Lead	mg/kg	NC	50	500	**26**	NA	**9.1**	NA	NA	NA	**7.4**	NA	NA	**12**	NA	<4.6	NA	**8.4**	**6.7**	NA	NA	NA	NA	NA	**9.4**	NA	**8.5**	NA	NA	**11**
Mercury	mg/kg	NC	NS	NS	**0.061**	NA	<0.051	NA	NA	NA	<0.049	NA	NA	<0.048	NA	<0.046[MS]	NA	<0.046	**0.068**	NA	NA	NA	NA	NA	<0.047	NA	<0.047	NA	NA	<0.046
Selenium	mg/kg	NC	NS	NS	<1.8	NA	<1.9	NA	NA	NA	<1.8	NA	NA	<1.8	NA	<1.7	NA	<1.7	<1.7	NA	NA	NA	NA	NA	<1.8	NA	<1.8	NA	NA	<1.7[M+]
Silver	mg/kg	NC	NS	NS	<2.5	NA	<2.6	NA	NA	NA	<2.5	NA	NA	<2.4	NA	<2.3	NA	<2.3	<2.3	NA	NA	NA	NA	NA	<2.4	NA	<2.3	NA	NA	**2.3**
INORGANICS		SSL (GW)	SSL (D.C.-R)																											
pH, Non-Aqueous	units	NS	NS		NA	**8.77**	NA	**7.96**	**8.92**	**9.79**	NA	**9.14**	**8.67**	NA	**8.54**	NA	**9.28**	NA	NA	**8.48**	**8.53**	**8.45**	**8.38**	**8.82**	NA	**8.51**	NA	**8.02**	**8.09**	NA
Sulfide, total	mg/kg	NS	NS		NA	<11[S]	NA	<13[S]	<12[S]	<12[S]	NA	<12[S]	<11[S]	NA	<11[S]	NA	<11[S]	NA	NA	<12[S]	<13[S]	<12[S]	<12[S]	<11[S]	NA	<12[S]	NA	<23.1[S]	<22.4[S]	NA
N-Ammonia	mg/kg	NS	10,900,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
POLYNUCLEAR AROMATIC HYDROCARBONS		Suggested Generic RCLs for PAHs in Soil (for PAHs) OR SSLs (other SVOCs) (3) GW Pathway	(1) Non-Industrial	(2) Industrial																										
Fluorene	µg/kg	100,000	600,000	40,000,000	NA	NA	<320	NA	NA	NA	NA	NA	NA	<300	NA	NA	NA	<290	NA	NA	NA	NA	NA	NA	<290	NA	<290	NA	NA	<285
N-Nitrosodiphenylamine	µg/kg	87.7	13,000	NC	NA	NA	<320	NA	NA	NA	NA	NA	NA	<300	NA	NA	NA	<290	NA	NA	NA	NA	NA	NA	<290	NA	<290	NA	NA	<285
Phenanthrene	µg/kg	1,800	18,000	390,000	NA	NA	<320	NA	NA	NA	NA	NA	NA	<300	NA	NA	NA	<290	NA	NA	NA	NA	NA	NA	<290	NA	<290	NA	NA	<285

Notes

SSL (GW) = Soil Screening Level for the groundwater pathway calculated using EPA Soil Screening Level Web site using Wisconsin Default Paramaters and methodology in Appendix D of WDNR publication RR-682.
SSL (D.C.-R) = Soil Screening Level for the direct contact pathway (residential) calculated using EPA Soil Screening Level Web site using Wisconsin Default Paramaters and a site area of 5 acres. For reference only; most appropriate values for several parameters were not determined.
mg/kg = milligrams per kilogram (equivalent to parts per million)
NA = Not Analyzed
NS = No Standard Established (for SSLs this indicates analyte not available in EPA web site).
NC = Not Calculated (for SSLs)
NR 720 RCL = Wisconsin Administrative Code, Chapter NR 720 generic Residual Contaminant Level (industrial land use RCLs for RCRA metals).
Suggested Generic RCL = More stringent generic Residual Contaminant Level for protection of groundwater (gw) or direct contact (dc) pathway for non-industrial land use from WDNR Publication RR-519-97 *"Soil Cleanup Levels for Polycyclic Aromatic Hydrocarbons (PAHs) Interim Guidance"* (April 1997)
Exceedances:
BOLD = detected compound
(1) = concentration exceeds Non-Industrial Direct Contact RCLs
(2) = concentration exceeds Industrial Direct Contact RCLs
(3) = concentration exceeds suggested generic Groundwater Pathway RCLs (PAHs) or groundwater pathway SSLs (other analytess)

A.2. SOIL ANALYTICAL RESULTS TABLE
SIGMA - HYGIENETICS

DETECTS ONLY

1200 Davis Avenue
South Milwaukee, Wisconsin
Project Reference #12101

Soil Boring Identification:					SB-28	SB-29	SB-30	SB-31	SB-32	SB-33	SB-34	SB-35	SB-37	SB-38	SB-39	SB-40	SB-41	SB-42	SB-43	SB-44		SB-45	SB-46	SB-47	SB-48	SB-49	SB-50	SB-51	SB-52	SB-53
Sample Depth (ft):					4-7	7-8	8.5-10	6.5-7	4-5	4-7	4-8	0-6	4-5	4-7	7-9	5-6	2-4	4-6	5-6.5	4-7	9-10	4-5	2-3	5-7	3-4	4-6	1-2	2-3	4-5	3-4
METALS	Units	SSL (GW)	NR 720 RCL Table 2 **(1)** Non-industrial	**(2)** Industrial	07/17/01	07/17/01	7/17/2001	07/17/01	07/17/01	07/17/01	07/17/01	07/18/01	07/18/01	07/18/01	07/18/01	07/18/01	07/18/01	07/18/01	07/18/01	07/18/01	07/18/01	07/18/01	07/18/01	07/18/01	07/18/01	07/18/01	07/18/01	07/19/01	07/19/01	07/19/01
Arsenic	mg/kg	NC	0.039	1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**(1,2) 6.0**	NA	**(1,2) 8.5**	**(1,2) 5.0**	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	NC	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**87**	NA	**175**	**60**	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	NC	8.0	510	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.6	NA	**0.85**	<0.57	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium, ICP	mg/kg	NC	NS	NS	**16**	**24**	**24**	**18**	**672**	**19**	**60**	**36**	**25**	**25**	**34**	**21**	**26**	**24**	**57**	**54**	**20**	**38**	**31**	**31**	**33**	**34**	**38**	**25**	**27**	**30**
Chromium, Trivalent	mg/kg	359,854	16,000	NS	**16**	**24**	**24**	**18**	**672**	**19**	**60**	**36**	**25**	**25**	**34**	**21**	**26**	NA	**57**	NA	NA	**38**	**31**	**31**	**33**	**34**	**38**	**25**	**27**	**30**
Chromium, Hexavalent	mg/kg	NC	14	200	<5.7	<5.9	<6.3	<6.0	<6.0	<5.7	<5.8	<6.0	<5.7	<6.0	<6.2	<5.9	<6.2	NA	<5.8	NA	NA	<5.6	<5.8	<5.8	<6.1	<5.7	<6.0	<5.7	<5.7	<6.2
Lead	mg/kg	NC	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**11**	NA	**19**	**9.6**	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	NC	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.048	NA	<0.054	<0.045	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	NC	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.8	NA	<2.0	<1.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	NC	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2.4	NA	<2.7	<2.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
INORGANICS		SSL (GW)	SSL (D.C.-R)																											
pH, Non-Aqueous	units	NS	NS		**9.5**	**10.88**	**9.63**	**8.75**	**9.4**	**8.71**	**9.33**	**9.61**	**9.53**	**8.2**	**8.69**	**8.87**	**9.24**	NA	**8.58**	NA	NA	**8.19**	**8.42**	**8.43**	**7.33**	**8.42**	**7.59**	**8.58**	**8.91**	**8.55**
Sulfide, total	mg/kg	NS	NS		<23[S]	<23.5[S]	**50.6[8]**	<23.9[S]	<24[S]	<22.9[S]	<23.2[S]	**134[8]**	<22.9[S]	<23.9[S]	<24.9[S]	<23.5[S]	<24.8[S]	NA	<23.2[S]	NA	NA	<22.3[S]	<23.3[S]	<23[S]	<24.4[S]	<22.8[S]	<24[S]	<22.7[S]	<22.9[S]	<24.9[S]
N-Ammonia	mg/kg	NS	10,900,000		NA	NA	NA	NA	NA	NA	**506**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEMIVOLATILE ORGANIC COMPOUNDS		Suggested Generic RCLs for PAHs in Soil (for PAHs) OR SSLs (other SVOCs)																												
		(3) GW Pathway	**(1)** Non-Industrial	**(2)** Industrial																										
Fluorene	µg/kg	100,000	600,000	40,000,000	NA	NA	NA	NA	NA	<287[MS]	NA	NA	NA	NA	NA	NA	NA	<298	NA	**632**	<284	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	µg/kg	87.7	13,000	NC	NA	NA	NA	NA	NA	<287	NA	NA	NA	NA	NA	NA	NA	<298	NA	**(3) 753**	<284	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	µg/kg	1,800	18,000	390,000	NA	NA	NA	NA	NA	<287	NA	NA	NA	NA	NA	NA	NA	<298	NA	**1340**	<284	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes

SSL (GW) = Soil Screening Level for the groundwater pathway calculated using EPA Soil Screening Level Web site using Wisconsin Default Paramaters and methodology in Appendix D of WDNR publication RR-682.

SSL (D.C.-R) = Soil Screening Level for the direct contact pathway (residential) calculated using EPA Soil Screening Level Web site using Wisconsin Default Paramaters and a site area of 5 acres. For reference only; most appropriate values for several parameters were not determined.

mg/kg = milligrams per kilogram (equivalent to parts per million)

NA = Not Analyzed

NS = No Standard Established (for SSLs this indicates analyte not available in EPA web site).

NC = Not Calculated (for SSLs)

NR 720 RCL = Wisconsin Administrative Code, Chapter NR 720 generic Residual Contaminant Level (industrial land use RCLs for RCRA metals).

Suggested Generic Interim RCL = More stringent generic Residual Contaminant Level for protection of groundwater (gw) or direct contact (dc) pathway for non-industrial land use from WDNR Publication RR-519-97 *"Soil Cleanup Levels for Polycyclic Aromatic Hydrocarbons (PAHs) Interim Guidance"* (April 1997)

Exceedances:
BOLD = detected compound
(1) = concentration exceeds Non-Industrial Direct Contact RCLs
(2) = concentration exceeds Industrial Direct Contact RCLs
(3) = concentration exceeds suggested generic Groundwater Pathway RCLs (PAHs) or groundwater pathway SSLs (other analytess)

A.2. SOIL ANALYTICAL RESULTS TABLE
SIGMA - HYGIENETICS

DETECTS ONLY

1200 Davis Avenue
South Milwaukee, Wisconsin
Project Reference #12101

Soil Boring Identification:					SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8	SB-9	SB-10	SB-11	SB-12	SB-13	SB-14	SB-15	SB-17	SB-18	SB-19	SB-20	SB-21	SB-22	SB-23	SB-24	SB-25	SB-26	SB-27
Sample Depth (ft):					2-4	1-2	4-6	5-6	3.5-4.5	8-9	14-14.5	5-7	10-12	6-8	7-8	6-7	5-6	7-8	5-6	6-8	5-6	9-10	11-12	9-10	6-7	7-8	10-11	10-12	7-9	7-10
VOLATILE ORGANIC COMPOUNDS	Unit	SSL (3) GW	SSL (1) D.C.-R	NR 746 (2) Table 1	06/11/01	06/11/01	06/11/01	06/11/01	06/11/01	06/11/01	06/11/01	06/12/01	06/12/01	06/12/01	06/12/01	06/12/01	06/12/01	06/12/01	06/12/01	06/12/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	06/13/01	07/17/01	07/17/01	07/17/01
n-Butylbenzene	µg/kg	NC	NC	NS	NA	NA	**19**	NA	NA	NA	<6.1	NA	NA	<6.0	NA	<5.7	NA	<5.8	NA	NA	NA	NA	NA	NA	<5.9	NA	<5.9	NA	NA	<5.7
sec-Butylbenzene	µg/kg	NC	NC	NS	NA	NA	**10**	NA	NA	NA	<6.1	NA	NA	<6.0	NA	<5.7	NA	<5.8	NA	NA	NA	NA	NA	NA	<5.9	NA	<5.9	NA	NA	<5.7
Isopropylbenzene	µg/kg	NC	NC	NS	NA	NA	<6.4	NA	NA	NA	<6.1	NA	NA	<6.0	NA	<5.7	NA	<5.8	NA	NA	NA	NA	NA	NA	<5.9	NA	<5.9	NA	NA	<5.7
p-Isopropyltoluene	µg/kg	NC	NC	NS	NA	NA	**13**	NA	NA	NA	<6.1	NA	NA	<6.0	NA	<5.7	NA	<5.8	NA	NA	NA	NA	NA	NA	<5.9	NA	<5.9	NA	NA	<5.7
Methylene chloride	µg/kg	NC	NC	NS	NA	NA	<19	NA	NA	NA	<18	NA	NA	<18	NA	<17	NA	<17	NA	NA	NA	NA	NA	NA	<18	NA	<18	NA	NA	<17
n-Propylbenzene	µg/kg	NC	NC	NS	NA	NA	<6.4	NA	NA	NA	<6.1	NA	NA	<6.0	NA	<5.7	NA	<5.8	NA	NA	NA	NA	NA	NA	<5.9	NA	<5.9	NA	NA	<5.7
1,2,4-Trimethylbenzene	µg/kg	7,449	33,700	83,000	NA	NA	**43**	NA	NA	NA	<6.1	NA	NA	<6.0	NA	<5.7	NA	<5.8	NA	NA	NA	NA	NA	NA	<5.9	NA	<5.9	NA	NA	<5.7

Notes:

SSL (GW) = Soil Screening Level for the groundwater pathway calculated using EPA Soil Screening Level Web site using Wisconsin Default Paramaters and methodology in Appendix D of WDNR publication RR-682.

SSL (D.C.-R) = Soil Screening Level for the direct contact pathway (residential) calculated using EPA Soil Screening Level Web site using Wisconsin Default Paramaters and a site area of 5 acres. For reference only; most appropriate values for several parameters were not determined.

µg/kg = micrograms per kilogram (equivalent to parts per billion)

NA = Not Analyzed NS = No Standard

NC = Not Calculated (for SSLs)

NR 746 Table 1 = Wisconsin Administrative Code, Chapter NR 746, Table 1 soil screening level: Indicators of Residual Petroleum Products in Soil Pores.

Exceedances: **BOLD** = detected compound

(1) = concentration exceeds residential direct contact pathway SSL

(2) = concentration exceeds NR 726 Table 1 value

(3) = concentration exceeds groundwater pathway SSL

A.2. SOIL ANALYTICAL RESULTS TABLE
SIGMA - HYGIENETICS
(page 4 of 4)

DETECTS ONLY

1200 Davis Avenue
South Milwaukee, Wisconsin
Project Reference #12101

Soil Boring Identification:					SB-28	SB-29	SB-30	SB-31	SB-32	SB-33	SB-34	SB-35	SB-37	SB-38	SB-39	SB-40	SB-41	SB-42	SB-43	SB-44		SB-45	SB-46	SB-47	SB-48	SB-49	SB-50	SB-51	SB-52	SB-53
Sample Depth (ft):					4-7	7-8	8.5-10	6.5-7	4-5	4-7	4-8	0-6	4-5	4-7	7-9	5-6	2-4	4-6	5-6.5	4-7	9-10	4-5	2-3	5-7	3-4	4-6	1-2	2-3	4-5	3-4
VOLATILE ORGANIC COMPOUNDS	Unit	SSL (3) GW	SSL (1) D.C.-R	NR 746 (2) Table 1	07/17/01	07/17/01	7/17/2001	07/17/01	07/17/01	07/17/01	07/17/01	07/18/01	07/18/01	07/18/01	07/18/01	07/18/01	07/18/01	07/18/01	07/18/01	07/18/01	07/18/01	07/18/01	07/18/01	07/18/01	07/18/01	07/18/01	07/18/01	07/19/01	07/19/01	07/19/01
n-Butylbenzene	µg/kg	NC	NC	NS	NA	NA	NA	NA	NA	<5.7	<5.8	NA	NA	NA	NA	NA	NA	<6.0	NA	**1610**	<5.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	µg/kg	NC	NC	NS	NA	NA	NA	NA	NA	<5.7	<5.8	NA	NA	NA	NA	NA	NA	<6.0	NA	**1750**	<5.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	µg/kg	NC	NC	NS	NA	NA	NA	NA	NA	<5.7	<5.8	NA	NA	NA	NA	NA	NA	<6.0	NA	**188**	<5.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	µg/kg	NC	NC	NS	NA	NA	NA	NA	NA	<5.7	<5.8	NA	NA	NA	NA	NA	NA	<6.0	NA	**726**	<5.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	µg/kg	NC	NC	NS	NA	NA	NA	NA	NA	<17	<17	NA	NA	NA	NA	NA	NA	<18	NA	**148**	<17	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	µg/kg	NC	NC	NS	NA	NA	NA	NA	NA	<5.7	<5.8	NA	NA	NA	NA	NA	NA	<6.0	NA	**444**	<5.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	µg/kg	7,449	33,700	83,000	NA	NA	NA	NA	NA	<5.7	**6.8**	NA	NA	NA	NA	NA	NA	<6.0	NA	**2420**	<5.7	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

SSL (GW) = Soil Screening Level for the groundwater pathway calculated using EPA Soil Screening Level Web site using Wisconsin Default Paramaters and methodology in Appendix D of WDNR publication RR-682.

SSL (D.C.-R) = Soil Screening Level for the direct contact pathway (residential) calculated using EPA Soil Screening Level Web site using Wisconsin Default Paramaters and a site area of 5 acres. For reference only; most appropriate values for several parameters were not determined.

µg/kg = micrograms per kilogram (equivalent to parts per billion)

NA = Not Analyzed NS = No Standard

NC = Not Calculated (for SSLs)

NR 746 Table 1 = Wisconsin Administrative Code, Chapter NR 746, Table 1 soil screening level: Indicators of Residual Petroleum Products in Soil Pores.

Exceedances: **BOLD** = detected compound

(1) = concentration exceeds residential direct contact pathway SSL

(2) = concentration exceeds NR 726 Table 1 value

(3) = concentration exceeds groundwater pathway SSL

A.2. SOIL ANALYTICAL RESULTS TABLE (Page 1 of 12)

Midwest Tanning Corp. (Former)
222 N. Chicago Avenue (Formerly 1200 Davis Avenue)
South Milwaukee, Wisconsin
BRRTS No. 02-41-556117

Analytical Parameter	Depth Date Units	SP-26 1' - 2' 3/15/11	SP-27 1' - 2' 3/15/11	SP-28 1' - 2' 3/15/11	SP-29 1' - 4' 3/14/11	SP-30 1' - 4' 3/14/11	NR 720 RCL DC-I	NR 720 RCL DC-NI	NR 720 RCL GW	NR 720 BTV
saturated/unsaturated		u	u	u	u	u	---	---	---	---
PID	i.u.	0	0	0	0	0	---	---	---	---
DRO	mg/kg	<0.53	14.1	3.5	24.6	38.9	---	---	---	---
GRO	mg/kg	<2.9	<1.3	<1.4	71.8	<2.8	---	---	---	---
Detected VOCs										
sec-Butylbenzene	ug/kg	<25.0	<9.5	<9.7	189	<25.0	**145,000**	**145,000**	---	---
Isopropylbenzene	ug/kg	<25.0	<6.5	<6.6	<25.0	<25.0	**268,000**	**268,000**	---	---
p-Isopropyltoluene	ug/kg	<25.0	<23.7	<24.0	175	<25.0	**162,000**	**162,000**	---	---
Methylene Chloride	ug/kg	*53.2J*	*65.6*	*49.1J*	*65.7J*	*38.4J*	**1,150,000**	**61,800**	*2.6*	---
Naphthalene	ug/kg	<25.0	*1,830*	<18.1	<25.0	<25.0	**24,100**	**5,520**	*658.2*	---
n-Propylbenzene	ug/kg	<25.0	<11.9	<12.1	35.1J	<25.0	**264,000**	**264,000**	---	---
1,2,4-Trimethylbenzene	ug/kg	<25.0	<22.6	<22.9	394	<25.0	**219,000**	**219,000**	*1,382.1*	---
1,3,5-Trimethylbenzene	ug/kg	<25.0	<10.9	<11.1	165	<25.0	**182,000**	**182,000**		---
PAHs										
Acenaphthene	ug/kg	<2.7	568	<2.8	<2.8	365J	**45,200,000**	**3,590,000**	---	---
Acenaphthylene	ug/kg	<3.0	<31.6	<3.2	<3.2	<121	**---**	**---**	---	---
Anthracene	ug/kg	<4.4	1,160	<4.7	<4.6	1,080	**100,000,000**	**17,900,000**	*196,949.2*	---
Benzo(a)anthracene	ug/kg	<2.7	**1,190**	2.9J	<2.8	**2,540**	**20,800**	**1,140**	---	---
Benzo(a)pyrene	ug/kg	<3.1	***1,120***	<3.3	<3.3	***2,790***	**2,110**	**115**	*470*	---
Benzo(b)fluoranthene	ug/kg	<3.3	*931*	<3.5	<3.4	***2,710***	**21,100**	**1,150**	*479.3*	---
Benzo(g,h,i)perylene	ug/kg	<2.5	400	<2.7	<2.6	1,980	**---**	**---**	---	---
Benzo(k)fluoranthene	ug/kg	<3.5	1,050	<3.7	<3.7	2,940	**211,000**	**11,500**	---	---
Chrysene	ug/kg	<3.5	*1,200*	4.3J	<3.6	*2,840*	**2,110,000**	**115,000**	*144.6*	---
Dibenz(a,h)anthracene	ug/kg	<5.2	**175J**	<5.5	<5.4	**577J**	**2110**	**115**	---	---
Fluoranthene	ug/kg	<9.5	2,930	<10.1	<9.9	7,110	**30,100,000**	**2,390,000**	*88,877.8*	---
Fluorene	ug/kg	<4.7	619	<5.0	<4.9	456J	**30,100,000**	**2,390,000**	*14,829.9*	---
Indeno(1,2,3-cd)pyrene	ug/kg	<2.7	402	<2.9	<2.8	**1,630**	**21,100**	**1,150**	---	---
1-Methylnaphthalene	ug/kg	<2.9	199	7.5J	<3.0	<116	**72,700**	**17,600**	---	---
2-Methylnaphthalene	ug/kg	<2.9	287	8.2J	<3.0	<116	**3,010,000**	**239,000**	---	---
Naphthalene	ug/kg	<3.3	587	6.4J	<3.5	<133	**24,100**	**5,520**	*658.2*	---
Phenanthrene	ug/kg	<4.2	3,290	7.1J	<4.4	4,370	**---**	**---**	---	---
Pyrene	ug/kg	<3.5	2,650	4.6J	<3.6	6,080	**22,600,000**	**1,790,000**	*54,545.2*	---
RCRA Metals										
Arsenic	mg/kg	***6.8***	***(8.5)***	***3.9***	***5.0***	***7.8***	**3**	**0.677**	*0.584*	(8)
Barium	mg/kg	42.9	83.6	44.1	38	*276*	**100,000**	**15,300**	*164.8*	(364)
Cadmium	mg/kg	0.35J	0.25J	0.18J	0.25J	0.24J	**985**	**71.1**	*0.752*	(1)
Chromium (a)	mg/kg	19.1	(76.9)	20.3	(87)	(575)	**---**	**---**	*360,000 (b)*	(44) (c)
Chromium, Trivalent	mg/kg	19.1	76.9	20.3	87	575	**100,000**	**100,000**	---	---
Chromium, Hexavalent	mg/kg	d	d	d	d	d	**6.36**	**0.301**	---	---
Lead	mg/kg	9.3	*32*	15.1	9.8	*(144)*	**800**	**400**	*27*	(52)
Mercury	mg/kg	0.018	0.032	0.030	0.014	0.10	**3.13**	**3.13**	*0.208*	---
Selenium	mg/kg	0.43J	0.50J	0.50J	0.32J	*0.67J*	**5,840**	**391**	*0.52*	---
Silver	mg/kg	0.15J	0.088J	0.10J	0.12J	0.089J	**5,840**	**391**	*0.8491*	---
Cumulative Hazard Index		0.0011	0.2642	0.0018	0.0054	0.0126	---	---	---	---
Cumulative Cancer Risk		0	1.1E-04	0	0	2.4E-04	---	---	---	---

Notes:

Bold concentrations exceed NR 720 non-industrial direct contact RCLs
Boxed and bold concentrations exceed NR 720 industrial direct contact RCLs
Italicized concentrations exceed NR 720 groundwater pathway RCL
Concentrations in ( ) exceed NR 720 background threshold value
--- - Not analyzed/Not Established
J - estimated concentration detected between the laboratory Limit of Detection and the Limit of Quantitation
i.u. - instrument units
mg/kg -milligrams per kilogram, parts per million
ug/kg -micrograms per kilogram, parts per billion

PAHs - polynuclear aromatic hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
PID - photoionization detector
RCL - residual contaminant level
VOCs - volatile organic compounds
RCRA - resource conservation and recovery act
BTV - background threshold value
DC-I - direct contact industrial
DC-NI - direct contact non-industrial
GW - groundwater pathway

a - Total Chromium laboratory analytical results may be comprised of trivalent (Cr III) and/or Hexavalent (Cr VI) Chromium
b: use 360,000 mg/kg for GW RCL, if no CR-VI is present
c: BTV applies to Total Chromium
d: In review of the Hygienetics data within the Sigma letter report, dated 9/30/10, detected Chromium levels are attributable to Trivalent Chromium with no detectable Hexavalent Chromium

A.2. SOIL ANALYTICAL RESULTS TABLE (Page 2 of 12)

Midwest Tanning Corp. (Former)
222 N. Chicago Avenue (Formerly 1200 Davis Avenue)
South Milwaukee, Wisconsin
BRRTS No. 02-41-556117

Analytical Parameter	Depth Date Units	SP-31 0' - 4' 3/14/11	SP-32 0' - 4' 3/14/11	SP-33 0' - 4' 3/14/11	SP-34 0' - 4' 3/14/11	SP-35 0' - 4' 3/15/11	SP-36 0' - 4' 3/15/11	NR 720 RCL DC-I	NR 720 RCL DC-NI	NR 720 RCL GW	NR 720 BTV
saturated/unsaturated		u	u	u	u	u	u	---	---	---	---
PID	i.u.	0	0	0	0	0	0	---	---	---	---
DRO	mg/kg	6.3	4.4	4.0	2.5	1.3	11.7	---	---	---	---
GRO	mg/kg	<3.2	<3.0	<3.0	<2.9	<1.4	1.5J	---	---	---	---
Detected VOCs											
sec-Butylbenzene	ug/kg	<25.0	<25.0	<25.0	<25.0	<9.7	<9.7	**145,000**	**145,000**	---	---
Isopropylbenzene	ug/kg	<25.0	<25.0	<25.0	<25.0	<6.6	<6.6	**268,000**	**268,000**	---	---
p-Isopropyltoluene	ug/kg	<25.0	<25.0	<25.0	<25.0	<24.1	<24.1	**162,000**	**162,000**	---	---
Methylene Chloride	ug/kg	*43.7J*	*41.1J*	*47.9J*	*58.7J*	*44.3J*	*65.7*	**1,150,000**	**61,800**	*2.6*	---
Naphthalene	ug/kg	<25.0	<25.0	<25.0	<25.0	<18.2	<18.2	**24,100**	**5,520**	*658.2*	---
n-Propylbenzene	ug/kg	<25.0	<25.0	<25.0	<25.0	<12.1	<12.2	**264,000**	**264,000**	---	---
1,2,4-Trimethylbenzene	ug/kg	<25.0	<25.0	<25.0	<25.0	<23.0	<23.1	**219,000**	**219,000**	*1,382.1*	---
1,3,5-Trimethylbenzene	ug/kg	<25.0	<25.0	<25.0	<25.0	<11.2	<11.2	**182,000**	**182,000**		---
PAHs											
Acenaphthene	ug/kg	<3.0	<2.8	6.5J	<2.7	40.8J	12.8J	**45,200,000**	**3,590,000**	---	---
Acenaphthylene	ug/kg	<3.4	<3.2	12.9J	<3.1	41.5J	203	**---**	**---**	---	---
Anthracene	ug/kg	<5.0	<4.7	39.5	<4.5	197	136	**100,000,000**	**17,900,000**	*196,949.2*	---
Benzo(a)anthracene	ug/kg	<3.1	9.0J	163	<2.8	846	481	**20,800**	**1,140**	---	---
Benzo(a)pyrene	ug/kg	<3.5	8.7J	**180**	<3.2	***862***	***685***	**2,110**	**115**	*470*	---
Benzo(b)fluoranthene	ug/kg	<3.7	8.8J	171	<3.4	*967*	*833*	**21,100**	**1,150**	*479.3*	---
Benzo(g,h,i)perylene	ug/kg	<2.9	6.1J	136	<2.6	375	381	**---**	**---**	---	---
Benzo(k)fluoranthene	ug/kg	<4.0	9.5J	175	<3.6	870	547	**211,000**	**11,500**	---	---
Chrysene	ug/kg	<3.9	11.4J	*182*	3.6J	*1,040*	*549*	**2,110,000**	**115,000**	*144.6*	---
Dibenz(a,h)anthracene	ug/kg	<5.9	<5.4	43.6	<5.3	**169**	**122**	**2110**	**115**	---	---
Fluoranthene	ug/kg	<10.8	16.3J	295	<9.8	1,630	816	**30,100,000**	**2,390,000**	*88,877.8*	---
Fluorene	ug/kg	<5.4	<5.0	9.1J	<4.9	54.2J	22J	**30,100,000**	**2,390,000**	*14,829.9*	---
Indeno(1,2,3-cd)pyrene	ug/kg	<3.1	4.9J	106	<2.8	377	334	**21,100**	**1,150**	---	---
1-Methylnaphthalene	ug/kg	<3.3	<3.1	<3.1	<3.0	140	35.6J	**72,700**	**17,600**	---	---
2-Methylnaphthalene	ug/kg	<3.3	<3.1	3.7J	<3.0	193	71.0	**3,010,000**	**239,000**	---	---
Naphthalene	ug/kg	<3.8	<3.5	9.9J	<3.4	161	167	**24,100**	**5,520**	*658.2*	---
Phenanthrene	ug/kg	<4.8	7.9J	117	5.7J	838	339	**---**	**---**	---	---
Pyrene	ug/kg	4.3J	14.3J	260	3.8J	1,430	846	**22,600,000**	**1,790,000**	*54,545.2*	---
RCRA Metals											
Arsenic	mg/kg	***(11.1)***	***(11.9)***	***6.0***	***4.4***	***(8.5)***	***(9)***	**3**	**0.677**	*0.584*	(8)
Barium	mg/kg	108	60.8	44.1	34.4	63.8	42.7	**100,000**	**15,300**	*164.8*	(364)
Cadmium	mg/kg	0.16J	0.17J	0.26J	0.15J	0.26J	0.25J	**985**	**71.1**	*0.752*	(1)
Chromium (a)	mg/kg	36.3	40.5	(64.1)	23.7	(54.6)	27.1	**---**	**---**	*360,000 (b)*	(44) (c)
Chromium, Trivalent	mg/kg	36.3	40.5	64.1	23.7	54.6	27.1	**100,000**	**100,000**	---	---
Chromium, Hexavalent	mg/kg	d	d	d	d	d	d	**6.36**	**0.301**	---	---
Lead	mg/kg	14.6	18	13	8.4	*27.6*	18.3	**800**	**400**	*27*	(52)
Mercury	mg/kg	0.079	0.087	0.037	0.053	0.065	0.037	**3.13**	**3.13**	*0.208*	---
Selenium	mg/kg	0.42J	0.42J	0.37J	0.41J	*0.84J*	0.41J	**5,840**	**391**	*0.52*	---
Silver	mg/kg	0.14J	0.15J	0.14J	0.14J	0.19J	0.23J	**5,840**	**391**	*0.8491*	---
Cumulative Hazard Index		0.3283	0.3521	0.0025	0.053	0.2541	0.2668	---	---	---	---
Cumulative Cancer Risk		1.8E-05	1.9E-05	1.8E-05	0	9.9E-05	8.1E-05	---	---	---	---

Notes:

Bold concentrations exceed NR 720 non-industrial direct contact RCLs
Boxed and bold concentrations exceed NR 720 industrial direct contact RCLs
Italicized concentrations exceed NR 720 groundwater pathway RCL
Concentrations in ( ) exceed NR 720 background threshold value
--- - Not analyzed/Not Established
J - estimated concentration detected between the laboratory Limit of Detection and the Limit of Quantitation
i.u. - instrument units
mg/kg -milligrams per kilogram, parts per million
ug/kg -micrograms per kilogram, parts per billion

PAHs - polynuclear aromatic hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
PID - photoionization detector
RCL - residual contaminant level
VOCs - volatile organic compounds
RCRA - resource conservation and recovery act
BTV - background threshold value
DC-I - direct contact industrial
DC-NI - direct contact non-industrial
GW - groundwater pathway

a - Total Chromium laboratory analytical results may be comprised of trivalent (Cr III) and/or Hexavalent (Cr VI) Chromium
b: use 360,000 mg/kg for GW RCL, if no CR-VI is present
c: BTV applies to Total Chromium
d: In review of the Hygienetics data within the Sigma letter report, dated 9/30/10, detected Chromium levels are attributable to Trivalent Chromium with no detectable Hexavalent Chromium

A.2. SOIL ANALYTICAL RESULTS TABLE (Page 3 of 12)

Midwest Tanning Corp. (Former)
222 N. Chicago Avenue (Formerly 1200 Davis Avenue)
South Milwaukee, Wisconsin
BRRTS No. 02-41-556117

Analytical Parameter	Depth / Date / Units	SP-37 3' - 5' 3/14/11	SP-38 7.5' - 10' 3/14/11	SP-39 3' - 5' 3/14/11	SP-40 3' - 5' 3/15/11	SP-41 3' - 5' 3/15/11	SP-42 3' - 5' 3/15/11	NR 720 RCL DC-I	NR 720 RCL DC-NI	NR 720 RCL GW	NR 720 BTV
saturated/unsaturated		u	u	u	u	u	u	---	---	---	---
PID	i.u.	0	38.2	0	0	0	0	---	---	---	---
DRO	mg/kg	61.4	0.91J	0.74J	41.3	6.2	3.1	---	---	---	---
GRO	mg/kg	<2.8	127	<2.8	37.0	<1.3	<1.2	---	---	---	---
Detected VOCs											
sec-Butylbenzene	ug/kg	<25.0	153	<25.0	165	<9.3	<8.8	**145,000**	**145,000**	---	---
Isopropylbenzene	ug/kg	<25.0	<25.0	<25.0	9.9J	<6.4	<6.0	**268,000**	**268,000**	---	---
p-Isopropyltoluene	ug/kg	<25.0	128	<25.0	136	<23.2	<21.8	**162,000**	**162,000**	---	---
Methylene Chloride	ug/kg	*48.4J*	*50.7J*	*59.4J*	*49.3J*	*44.3J*	*39.9J*	**1,150,000**	**61,800**	*2.6*	---
Naphthalene	ug/kg	<25.0	274	<25.0	224J	<17.5	<16.5	**24,100**	**5,520**	*658.2*	---
n-Propylbenzene	ug/kg	<25.0	<25.0	<25.0	25.7J	<11.7	<11.0	**264,000**	**264,000**	---	---
1,2,4-Trimethylbenzene	ug/kg	<25.0	180	<25.0	294	<22.1	<20.9	**219,000**	**219,000**	*1,382.1*	---
1,3,5-Trimethylbenzene	ug/kg	<25.0	<25.0	<25.0	191	<10.7	<10.1	**182,000**	**182,000**		---
PAHs											
Acenaphthene	ug/kg	<2.7	9.6J	<2.6	<2.9	<2.7	<2.6	**45,200,000**	**3,590,000**	---	---
Acenaphthylene	ug/kg	<3.0	<10.1	<3.0	<3.3	<3.1	<2.9	**---**	**---**	---	---
Anthracene	ug/kg	<4.4	<14.8	<4.4	<4.8	<4.5	<4.3	**100,000,000**	**17,900,000**	*196,949.2*	---
Benzo(a)anthracene	ug/kg	3.5J	<9.0	<2.7	3.2J	<2.8	5.3J	**20,800**	**1,140**	---	---
Benzo(a)pyrene	ug/kg	3.3J	<10.4	<3.1	<3.4	<3.2	5.3J	**2,110**	**115**	*470*	---
Benzo(b)fluoranthene	ug/kg	3.7J	<11.0	<3.2	<3.6	<3.4	4.2J	**21,100**	**1,150**	*479.3*	---
Benzo(g,h,i)perylene	ug/kg	2.5J	<8.4	<2.5	<2.7	<2.6	4.2J	**---**	**---**	---	---
Benzo(k)fluoranthene	ug/kg	<3.5	<11.8	<3.5	<3.8	<3.6	6.5J	**211,000**	**11,500**	---	---
Chrysene	ug/kg	6.7J	<11.5	<3.4	7.8J	<3.5	6.7J	**2,110,000**	**115,000**	*144.6*	---
Dibenz(a,h)anthracene	ug/kg	<5.1	<17.3	<5.1	<5.6	<5.3	<5.0	**2110**	**115**	---	---
Fluoranthene	ug/kg	<9.4	<31.7	<9.4	<10.3	<9.7	10.8J	**30,100,000**	**2,390,000**	*88,877.8*	---
Fluorene	ug/kg	<4.7	<15.8	<4.7	<5.1	<4.8	<4.6	**30,100,000**	**2,390,000**	*14,829.9*	---
Indeno(1,2,3-cd)pyrene	ug/kg	<2.7	<9.0	<2.7	<2.9	<2.8	3.1J	**21,100**	**1,150**	---	---
1-Methylnaphthalene	ug/kg	<2.9	489	<2.9	33.3	5.1J	<2.8	**72,700**	**17,600**	---	---
2-Methylnaphthalene	ug/kg	3.9J	716	<2.9	34.2	6.6J	<2.8	**3,010,000**	**239,000**	---	---
Naphthalene	ug/kg	3.6J	290	<3.3	15.0J	<3.4	<3.2	**24,100**	**5,520**	*658.2*	---
Phenanthrene	ug/kg	<4.1	<14.0	<4.1	10.1J	<4.3	6.7J	**---**	**---**	---	---
Pyrene	ug/kg	4.5J	<11.6	<3.4	5.3J	<3.6	10.4J	**22,600,000**	**1,790,000**	*54,545.2*	---
RCRA Metals											
Arsenic	mg/kg	***5.8***	***4.6***	***5.4***	***(8.5)***	***5.1***	*0.42J*	**3**	**0.677**	*0.584*	(8)
Barium	mg/kg	37.4	29.2	36.1	84.5	65.3	14.2	**100,000**	**15,300**	*164.8*	(364)
Cadmium	mg/kg	0.23J	0.22J	0.29J	0.26J	0.37J	0.083J	**985**	**71.1**	*0.752*	(1)
Chromium (a)	mg/kg	17.8	15.5	15.2	31.9	26.7	8.3	**---**	**---**	*360,000 (b)*	(44) (c)
Chromium, Trivalent	mg/kg	17.8	15.5	15.2	31.9	26.7	8.3	**100,000**	**100,000**	---	---
Chromium, Hexavalent	mg/kg	d	d	d	d	d	d	**6.36**	**0.301**	---	---
Lead	mg/kg	8.7	7.4	8.1	15.9	9.0	9.9	**800**	**400**	*27*	(52)
Mercury	mg/kg	0.014	0.015	0.013	0.037	0.012	<0.0011	**3.13**	**3.13**	*0.208*	---
Selenium	mg/kg	0.26J	0.39J	0.19J	0.29J	*0.52J*	0.19J	**5,840**	**391**	*0.52*	---
Silver	mg/kg	0.12J	<0.048	0.069J	0.17J	0.20J	0.055J	**5,840**	**391**	*0.8491*	---
Cumulative Hazard Index		0.0008	0.0076	0.0008	0.2535	0.0008	0	---	---	---	---
Cumulative Cancer Risk		0	0	0	1.4E-05	0	0	---	---	---	---

Notes:

Bold concentrations exceed NR 720 non-industrial direct contact RCLs
Boxed and bold concentrations exceed NR 720 industrial direct contact RCLs
Underlined concentrations exceed NR 720 groundwater pathway RCL
Concentrations in ( ) exceed NR 720 background threshold value
--- - Not analyzed/Not Established
J - concentration detected between the laboratory Limit of Detection and the Limit of Quantitation
i.u. - instrument units
mg/kg -milligrams per kilogram, parts per million
ug/kg -micrograms per kilogram, parts per billion

PAHs - polynuclear aromatic hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
PID - photoionization detector
RCL - residual contaminant level
VOCs - volatile organic compounds
RCRA - resource conservation and recovery act
BTV - background threshold value
DC-I - direct contact industrial
DC-NI - direct contact non-industrial
GW - groundwater pathway

a - Total Chromium laboratory analytical results may be comprised of trivalent (Cr III) and/or Hexavalent (Cr VI) Chromium
b: use 360,000 mg/kg for GW RCL, if no CR-VI is present
c: BTV applies to Total Chromium
d: In review of the Hygienetics data within the Sigma letter report, dated 9/30/10, detected Chromium levels are attributable to Trivalent Chromium with no detectable Hexavalent Chromium

A.2. SOIL ANALYTICAL RESULTS TABLE (Page 4 of 12)

Midwest Tanning Corp. (Former)
222 N. Chicago Avenue (Formerly 1200 Davis Avenue)
South Milwaukee, Wisconsin
BRRTS No. 02-41-556117

Analytical Parameter	Depth / Date / Units	SP-1 0' - 4' 3/19/12	SP-2 0' - 4' 3/19/12	SP-3 0' - 4' 3/19/12	SP-4 0' - 4' 3/19/12	SP-5 0' - 4' 3/19/12	NR 720 RCL DC-I	NR 720 RCL DC-NI	NR 720 RCL GW	NR 720 BTV
saturated/unsaturated		u	u	u	u	u	---	---	---	---
PID	i.u.	0	0	0	0	0	---	---	---	---
DRO	mg/kg	2.6	6.8	66.7	1.2J	<0.96	---	---	---	---
GRO	mg/kg	<3.0	<3.0	5.2	<3.1	<2.9	---	---	---	---
Detected VOCs										
n-Butylbenzene	ug/kg	<40.4	<40.4	<40.4	<40.4	<40.4	**108,000**	**108,000**	---	---
sec-Butylbenzene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	**145,000**	**145,000**	---	---
tert-Butylbenzene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	**183,000**	**183,000**	---	---
1,2-Dichlorobenzene	ug/kg	<44.4	<44.4	<44.4	<44.4	<44.4	**376,000**	**376,000**	*1,168*	---
Isopropylbenzene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	**268,000**	**268,000**	---	---
p-Isopropyltoluene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	**162,000**	**162,000**	---	---
Naphthalene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	**24,100**	**5,520**	*658.2*	---
n-Propylbenzene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	**264,000**	**264,000**	---	---
1,2,4-Trimethylbenzene	ug/kg	<25.0	<25.0	36.2J	<25.0	<25.0	**219,000**	**219,000**	*1,382.1*	---
1,3,5-Trimethylbenzene	ug/kg	<25.0	<25.0	36.2J	<25.0	<25.0	**182,000**	**182,000**		---
Total Xylenes	ug/kg	<50.0	<50.0	30.3J	<50.0	<50.0	**260,000**	**260,000**	*3,960*	---
Tetrachloroethene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	**145,000**	**33,000**	*4.5*	---
1,1,1-Trichloroethane	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	**640,000**	**640,000**	*140.2*	---
PAHs										
Acenaphthene	ug/kg	<2.8	<2.9	6.1J	<2.9	<5.3	**45,200,000**	**3,590,000**	---	---
Acenaphthylene	ug/kg	<3.2	<3.2	7.3J	<3.3	<6.1	**---**	**---**	---	---
Anthracene	ug/kg	<4.7	<4.7	16.5J	<4.8	<8.9	**100,000,000**	**17,900,000**	*196,949.2*	---
Benzo(a)anthracene	ug/kg	<2.9	4.0J	31.6	<2.9	<5.4	**20,800**	**1,140**	---	---
Benzo(a)pyrene	ug/kg	<3.3	4.2J	32.3	<3.4	<6.2	**2,110**	**115**	*470*	---
Benzo(b)fluoranthene	ug/kg	<3.5	6.5J	48.8	<3.6	<6.6	**21,100**	**1,150**	*479.3*	---
Benzo(g,h,i)perylene	ug/kg	<2.7	4.3J	32.8	<2.7	<5.0	**---**	**---**	---	---
Benzo(k)fluoranthene	ug/kg	<3.8	4.4J	23.4	<3.8	<7.1	**211,000**	**11,500**	---	---
Chrysene	ug/kg	<3.7	6.8J	56.8	<3.8	<6.9	**2,110,000**	**115,000**	*144.6*	---
Dibenz(a,h)anthracene	ug/kg	<5.5	<5.5	9.0J	<5.6	<10.4	**2110**	**115**	---	---
Fluoranthene	ug/kg	<10.1	12.8J	72.7	<10.4	<19	**30,100,000**	**2,390,000**	*88,877.8*	---
Fluorene	ug/kg	<5.0	<5.0	7.0J	<5.2	<9.5	**30,100,000**	**2,390,000**	*14,829.9*	---
Indeno(1,2,3-cd)pyrene	ug/kg	<2.9	<2.9	20.6	<2.9	<5.4	**21,100**	**1,150**	---	---
1-Methylnaphthalene	ug/kg	<3.1	3.7J	93.9	<3.2	<5.8	**72,700**	**17,600**	---	---
2-Methylnaphthalene	ug/kg	<3.1	3.8J	113	<3.2	9.7J	**3,010,000**	**239,000**	---	---
Naphthalene	ug/kg	<3.5	8.6J	78.8	<3.6	16.5J	**24,100**	**5,520**	*658.2*	---
Phenanthrene	ug/kg	<4.4	10.6J	105	<4.6	<8.4	**---**	**---**	---	---
Pyrene	ug/kg	<3.7	8.4J	62.9	<3.8	<7	**22,600,000**	**1,790,000**	*54,545.2*	---
RCRA Metals										
Arsenic	mg/kg	***7.5***	***7.1***	***5.6***	***4.6***	***(9.7)***	**3**	**0.677**	*0.584*	(8)
Barium	mg/kg	68.8	40.3	84	51.6	63.1	**100,000**	**15,300**	*164.8*	(364)
Cadmium	mg/kg	<0.034	0.22J	0.23J	0.29J	0.18J	**985**	**71.1**	*0.752*	(1)
Chromium (a)	mg/kg	38.3	20.8	(1,030)	23.7	27.4	**---**	**---**	*360,000 (b)*	(44) (c)
Chromium, Trivalent	mg/kg	38.3	20.8	1,030	23.7	27.4	**100,000**	**100,000**	---	---
Chromium, Hexavalent	mg/kg	d	d	d	d	d	**6.36**	**0.301**	---	---
Lead	mg/kg	13.5	7.8	*41.4*	7.8	13	**800**	**400**	*27*	(52)
Mercury	mg/kg	0.049	0.020	0.025	0.015	0.017	**3.13**	**3.13**	*0.208*	---
Selenium	mg/kg	*4.3*	<0.52	*1.1J*	<0.55	<0.48	**5,840**	**391**	*0.52*	---
Silver	mg/kg	<0.24	<0.24	<0.24	<0.25	<0.22	**5,840**	**391**	*0.8491*	---
Cumulative Hazard Index		0.0029	0.0012	0.0025	0.0009	0.2838	---	---	---	---
Cumulative Cancer Risk		0	0	2.9E-06	0	1.6E-05	---	---	---	---

Notes:

Bold concentrations exceed NR 720 non-industrial direct contact RCLs
Boxed and bold concentrations exceed NR 720 industrial direct contact RCLs
Underlined concentrations exceed NR 720 groundwater pathway RCL
Concentrations in ( ) exceed NR 720 background threshold value
--- - Not analyzed/Not Established
J - estimated concentration detected between the laboratory Limit of Detection and the Limit of Quantitation
i.u. - instrument units
mg/kg -milligrams per kilogram, parts per million
ug/kg -micrograms per kilogram, parts per billion

PAHs - polynuclear aromatic hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
PID - photoionization detector
RCL - residual contaminant level
VOCs - volatile organic compounds
RCRA - resource conservation and recovery act
BTV - background threshold value
DC-I - direct contact industrial
DC-NI - direct contact non-industrial
GW - groundwater pathway

a - Total Chromium laboratory analytical results may be comprised of trivalent (Cr III) and/or Hexavalent (Cr VI) Chromium
b: use 360,000 mg/kg for GW RCL, if no CR-VI is present
c: BTV applies to Total Chromium
d: In review of the Hygienetics data within the Sigma letter report, dated 9/30/10, detected Chromium levels are attributable to Trivalent Chromium with no detectable Hexavalent Chromium

A.2. SOIL ANALYTICAL RESULTS TABLE (Page 5 of 12)

Midwest Tanning Corp. (Former)
222 N. Chicago Avenue (Formerly 1200 Davis Avenue)
South Milwaukee, Wisconsin
BRRTS No. 02-41-556117

Analytical Parameter	Depth / Date / Units	SP-6 0' - 4' 3/19/12	SP-7 0' - 4' 3/23/12	SP-8 0' - 5' 3/19/12	SP-9 0' - 4' 3/22/12	SP-10 2' - 4' 3/22/12	NR 720 RCL DC-I	NR 720 RCL DC-NI	NR 720 RCL GW	NR 720 BTV
saturated/unsaturated		u	u	u	u	u	---	---	---	---
PID	i.u.	0	0	0	0	0	---	---	---	---
DRO	mg/kg	1.6J	1.5J	2.0J	1,400	25.7	---	---	---	---
GRO	mg/kg	<2.9	<3.0	<3.0	<3.0	<3.1	---	---	---	---
Detected VOCs										
n-Butylbenzene	ug/kg	<40.4	<40.4	<40.4	<40.4	<40.4	**108,000**	**108,000**	---	---
sec-Butylbenzene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	**145,000**	**145,000**	---	---
tert-Butylbenzene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	**183,000**	**183,000**	---	---
1,2-Dichlorobenzene	ug/kg	<44.4	<44.4	<44.4	<44.4	<44.4	**376,000**	**376,000**	*1,168*	---
Isopropylbenzene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	**268,000**	**268,000**	---	---
p-Isopropyltoluene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	**162,000**	**162,000**	---	---
Naphthalene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	**24,100**	**5,520**	*658.2*	---
n-Propylbenzene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	**264,000**	**264,000**	---	---
1,2,4-Trimethylbenzene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	**219,000**	**219,000**	*1,382.1*	---
1,3,5-Trimethylbenzene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	**182,000**	**182,000**		---
Total Xylenes	ug/kg	<50.0	<50.0	<50.0	<50.0	<50.0	**260,000**	**260,000**	*3,960*	---
Tetrachloroethene	ug/kg	<25.0	*1,080*	<25.0	<25.0	<25.0	**145,000**	**33,000**	*4.5*	---
1,1,1-Trichloroethane	ug/kg	<25.0	73.6	<25.0	<25.0	<25.0	**640,000**	**640,000**	*140.2*	---
PAHs										
Acenaphthene	ug/kg	255	<2.9	<2.8	<2.8	<2.9	**45,200,000**	**3,590,000**	---	---
Acenaphthylene	ug/kg	64.3	<3.2	<3.2	<3.2	<3.3	**---**	**---**	---	---
Anthracene	ug/kg	96.3	<4.7	<4.7	<4.7	<4.8	**100,000,000**	**17,900,000**	*196,949.2*	---
Benzo(a)anthracene	ug/kg	<2.7	4.7J	<2.9	<2.9	<3	**20,800**	**1,140**	---	---
Benzo(a)pyrene	ug/kg	<3.2	<3.3	<3.3	<3.3	<3.4	**2,110**	**115**	*470*	---
Benzo(b)fluoranthene	ug/kg	<3.3	5.5J	<3.5	<3.5	<3.6	**21,100**	**1,150**	*479.3*	---
Benzo(g,h,i)perylene	ug/kg	<2.5	2.9J	<2.7	<2.7	<2.7	**---**	**---**	---	---
Benzo(k)fluoranthene	ug/kg	<3.6	<3.8	<3.7	<3.7	<3.9	**211,000**	**11,500**	---	---
Chrysene	ug/kg	4.5J	5.5J	<3.7	<3.6	<3.8	**2,110,000**	**115,000**	*144.6*	---
Dibenz(a,h)anthracene	ug/kg	<5.2	<5.5	<5.5	<5.5	<5.7	**2110**	**115**	---	---
Fluoranthene	ug/kg	27.8	<10.1	<10.1	<10.1	<10.4	**30,100,000**	**2,390,000**	*88,877.8*	---
Fluorene	ug/kg	325	<5.0	<5	<5	<5.2	**30,100,000**	**2,390,000**	*14,829.9*	---
Indeno(1,2,3-cd)pyrene	ug/kg	<2.7	<2.9	<2.9	<2.9	<3	**21,100**	**1,150**	---	---
1-Methylnaphthalene	ug/kg	546	4.2J	4.3J	<3.1	<3.2	**72,700**	**17,600**	---	---
2-Methylnaphthalene	ug/kg	7.5J	3.8J	4.5J	<3.1	2.39	**3,010,000**	**239,000**	---	---
Naphthalene	ug/kg	54.7	5.3J	4.5J	<3.5	<3.6	**24,100**	**5,520**	*658.2*	---
Phenanthrene	ug/kg	243	9.4J	<4.4	<4.4	<4.6	**---**	**---**	---	---
Pyrene	ug/kg	81.7	7.1J	<3.7	<3.7	6.7J	**22,600,000**	**1,790,000**	*54,545.2*	---
RCRA Metals										
Arsenic	mg/kg	***5.1***	***6.1***	***7.9***	***7.6***	***(8.4)***	**3**	**0.677**	*0.584*	(8)
Barium	mg/kg	48.7	52.7	75.3	69	67.7	**100,000**	**15,300**	*164.8*	(364)
Cadmium	mg/kg	0.24J	0.28J	0.23J	0.12J	0.34J	**985**	**71.1**	*0.752*	(1)
Chromium (a)	mg/kg	21.9	18.1	29.2	25.2	(503)	**---**	**---**	*360,000 (b)*	(44) (c)
Chromium, Trivalent	mg/kg	21.9	18.1	29.2	25.2	503	**100,000**	**100,000**	---	---
Chromium, Hexavalent	mg/kg	d	d	d	d	d	**6.36**	**0.301**	---	---
Lead	mg/kg	7.9	17.4	17.6	15.1	16.1	**800**	**400**	*27*	(52)
Mercury	mg/kg	0.013	0.028	0.033	0.024	0.039	**3.13**	**3.13**	*0.208*	---
Selenium	mg/kg	<0.50	<0.55	<0.52	<0.58	<0.55	**5,840**	**391**	*0.52*	---
Silver	mg/kg	<0.23	<0.25	<0.24	<0.27	<0.25	**5,840**	**391**	*0.8491*	---
Cumulative Hazard Index		0.0019	0.0111	0.002	0.0014	0.2472	---	---	---	---
Cumulative Cancer Risk		4.6E-08	3.5E-08	0	0	1.4E-05	---	---	---	---

Notes:

Bold concentrations exceed NR 720 non-industrial direct contact RCLs
Boxed and bold concentrations exceed NR 720 industrial direct contact RCLs
Underlined concentrations exceed NR 720 groundwater pathway RCL
Concentrations in ( ) exceed NR 720 background threshold value
--- - Not analyzed/Not Established
J - estimated concentration detected between the laboratory Limit of Detection and the Limit of Quantitation
i.u. - instrument units
mg/kg -milligrams per kilogram, parts per million
ug/kg -micrograms per kilogram, parts per billion

PAHs - polynuclear aromatic hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
PID - photoionization detector
RCL - residual contaminant level
VOCs - volatile organic compounds
RCRA - resource conservation and recovery act
BTV - background threshold value
DC-I - direct contact industrial
DC-NI - direct contact non-industrial
GW - groundwater pathway

a - Total Chromium laboratory analytical results may be comprised of trivalent (Cr III) and/or Hexavalent (Cr VI) Chromium
b: use 360,000 mg/kg for GW RCL, if no CR-VI is present
c: BTV applies to Total Chromium
d: In review of the Hygienetics data within the Sigma letter report, dated 9/30/10, detected Chromium levels are attributable to Trivalent Chromium with no detectable Hexavalent Chromium

A.2. SOIL ANALYTICAL RESULTS TABLE (Page 6 of 12)

Midwest Tanning Corp. (Former)
222 N. Chicago Avenue (Formerly 1200 Davis Avenue)
South Milwaukee, Wisconsin
BRRTS No. 02-41-556117

Analytical Parameter	Depth Date Units	SP-11 0' - 4' 3/23/12	SP-12 0' - 2' 3/23/12	SP-13 4' - 6' 3/22/12	SP-14 0' - 4' 3/22/12	SP-15 2' - 4' 3/22/12	NR 720 RCL DC-I	NR 720 RCL DC-NI	NR 720 RCL GW	NR 720 BTV
saturated/unsaturated		**u**	**u**	**u**	**u**	**u**	**---**	**---**	**---**	**---**
PID	i.u.	0	0	60	0	7.5	**---**	**---**	**---**	**---**
DRO	mg/kg	19.6	44.7	1,850	13.2	6.4	**---**	**---**	**---**	**---**
GRO	mg/kg	<3.3	<3.2	456	<3.0	<2.8	---	---	---	---
Detected VOCs										
n-Butylbenzene	ug/kg	<40.4	<40.4	601	<40.4	<40.4	**108,000**	**108,000**	---	---
sec-Butylbenzene	ug/kg	<25.0	<25.0	1,060	<25.0	<25.0	**145,000**	**145,000**	---	---
tert-Butylbenzene	ug/kg	<25.0	<25.0	36.7J	<25.0	<25.0	**183,000**	**183,000**	---	---
1,2-Dichlorobenzene	ug/kg	<44.4	<44.4	82.5	<44.4	<44.4	**376,000**	**376,000**	*1,168*	---
Isopropylbenzene	ug/kg	<25.0	<25.0	168	<25.0	<25.0	**268,000**	**268,000**	---	---
p-Isopropyltoluene	ug/kg	<25.0	<25.0	1,410	<25.0	<25.0	**162,000**	**162,000**	---	---
Naphthalene	ug/kg	<25.0	<25.0	*1,330*	<25.0	<25.0	**24,100**	**5,520**	*658.2*	---
n-Propylbenzene	ug/kg	<25.0	<25.0	440	<25.0	<25.0	**264,000**	**264,000**	---	---
1,2,4-Trimethylbenzene	ug/kg	<25.0	<25.0	*1,790*	<25.0	<25.0	**219,000**	**219,000**	*1,382.1*	---
1,3,5-Trimethylbenzene	ug/kg	<25.0	<25.0	*97.7*	<25.0	<25.0	**182,000**	**182,000**		---
Total Xylenes	ug/kg	<50.0	<50.0	214	<50.0	<50.0	**260,000**	**260,000**	*3,960*	---
Tetrachloroethene	ug/kg	*77.6J*	<25.0	<25.0	<25.0	<25.0	**145,000**	**33,000**	*4.5*	---
PAHs										
Acenaphthene	ug/kg	<3.1	<3	27.9	<2.8	<2.7	**45,200,000**	**3,590,000**	---	---
Acenaphthylene	ug/kg	<3.5	<3.4	18.5J	<3.2	<3	**---**	**---**	---	---
Anthracene	ug/kg	7J	5.9J	<4.7	<4.7	6.9J	**100,000,000**	**17,900,000**	*196,949.2*	---
Benzo(a)anthracene	ug/kg	19.9J	6.9J	13.1J	<2.9	14.1J	**20,800**	**1,140**	---	---
Benzo(a)pyrene	ug/kg	21.2J	6.8J	3.4J	<3.3	13.1J	**2,110**	**115**	*470*	---
Benzo(b)fluoranthene	ug/kg	30	11.5J	7.4J	<3.5	18.1J	**21,100**	**1,150**	*479.3*	---
Benzo(g,h,i)perylene	ug/kg	18.8J	7.9J	3J	6.6J	10.4J	**---**	**---**	---	---
Benzo(k)fluoranthene	ug/kg	16.5J	7.1J	<3.8	<3.7	9.4J	**211,000**	**11,500**	---	---
Chrysene	ug/kg	28.4	18.9J	81.3	<3.6	18.6J	**2,110,000**	**115,000**	*144.6*	---
Dibenz(a,h)anthracene	ug/kg	<6	<5.8	<5.5	<5.5	<5.2	**2110**	**115**	---	---
Fluoranthene	ug/kg	38.3	17J	11.7J	<10	35.9	**30,100,000**	**2,390,000**	*88,877.8*	---
Fluorene	ug/kg	<5.5	<5.3	38.3	<5.0	<4.7	**30,100,000**	**2,390,000**	*14,829.9*	---
Indeno(1,2,3-cd)pyrene	ug/kg	14.9J	4.4J	<2.9	<2.9	7.1J	**21,100**	**1,150**	---	---
1-Methylnaphthalene	ug/kg	20.8J	24.2	82.2	6J	8J	**72,700**	**17,600**	---	---
2-Methylnaphthalene	ug/kg	24.2	33.1	42.6	6.8J	7.9J	**3,010,000**	**239,000**	---	---
Naphthalene	ug/kg	24	34.7	126	4.7J	6.4J	**24,100**	**5,520**	*658.2*	---
Phenanthrene	ug/kg	43.6	24	26.5	6.6J	25.2	**---**	**---**	---	---
Pyrene	ug/kg	37.2	14.4J	7.9J	<3.7	30.9	**22,600,000**	**1,790,000**	*54,545.2*	---
RCRA Metals										
Arsenic	mg/kg	***7.4***	***7.9***	***(8.4)***	***5.4***	***4.2***	**3**	**0.677**	*0.584*	(8)
Barium	mg/kg	129	*247*	44.6	47.5	22.5	**100,000**	**15,300**	*164.8*	(364)
Cadmium	mg/kg	0.12J	0.29J	0.19J	0.10J	0.22J	**985**	**71.1**	*0.752*	(1)
Chromium (a)	mg/kg	(5,150)	(361)	34.6	22.8	17.9	**---**	**---**	*360,000 (b)*	(44) (c)
Chromium, Trivalent	mg/kg	5,150	361	34.6	22.8	17.9	**100,000**	**100,000**	---	---
Chromium, Hexavalent	mg/kg	d	d	d	d	d	**6.36**	**0.301**	---	---
Lead	mg/kg	*28.3*	*(58.2)*	9.6	11.3	7.1	**800**	**400**	*27*	(52)
Mercury	mg/kg	0.069	*0.3*	0.18	0.051	0.012	**3.13**	**3.13**	*0.208*	---
Selenium	mg/kg	<0.58	<0.59	<0.58	<0.57	<0.55	**5,840**	**391**	*0.52*	---
Silver	mg/kg	<0.26	<0.27	<0.26	<0.26	<0.25	**5,840**	**391**	*0.8491*	---
Cumulative Hazard Index		0.0044	0.0181	0.2835	0.003	0.0007	---	---	---	---
Cumulative Cancer Risk		2.1E-07	8.3E-09	1.4E-05	0	0	---	---	---	---

Notes:

Bold concentrations exceed NR 720 non-industrial direct contact RCLs
Boxed and bold concentrations exceed NR 720 industrial direct contact RCLs
Underlined concentrations exceed NR 720 groundwater pathway RCL
Concentrations in ( ) exceed NR 720 background threshold value
--- - Not analyzed/Not Established
J - estimated concentration detected between the laboratory Limit of Detection and the Limit of Quantitation
i.u. - instrument units
mg/kg -milligrams per kilogram, parts per million
ug/kg -micrograms per kilogram, parts per billion

PAHs - polynuclear aromatic hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
PID - photoionization detector
RCL - residual contaminant level
VOCs - volatile organic compounds
RCRA - resource conservation and recovery act
BTV - background threshold value
DC-I - direct contact industrial
DC-NI - direct contact non-industrial
GW - groundwater pathway

a - Total Chromium laboratory analytical results may be comprised of trivalent (Cr III) and/or Hexavalent (Cr VI) Chromium
b: use 360,000 mg/kg for GW RCL, if no CR-VI is present
c: BTV applies to Total Chromium
d: In review of the Hygienetics data within the Sigma letter report, dated 9/30/10, detected Chromium levels are attributable to Trivalent Chromium with no detectable Hexavalent Chromium

A.2. SOIL ANALYTICAL RESULTS TABLE (Page 7 of 12)

Midwest Tanning Corp. (Former)
222 N. Chicago Avenue (Formerly 1200 Davis Avenue)
South Milwaukee, Wisconsin

BRRTS No. 02-41-556117

Analytical Parameter	Depth / Date / Units	SP-16 4' - 6' 3/19/12	SP-17 6' - 8' 3/19/12	SP-18 0' - 4' 3/22/12	SP-19 0' - 4' 3/22/12	SP-20 0' - 2' 3/23/12	NR 720 RCL DC-I	NR 720 RCL DC-NI	NR 720 RCL GW	NR 720 BTV
saturated/unsaturated		**u**	**u**	**u**	**u**	**u**	**---**	**---**	**---**	**---**
PID	i.u.	0	0	0	0	0	**---**	**---**	**---**	**---**
DRO	mg/kg	82.7	613	1.8J	2.8	25.6	**---**	**---**	**---**	**---**
GRO	mg/kg	12.8	141	<2.9	<3.1	<3.4	---	---	---	---
Detected VOCs										
n-Butylbenzene	ug/kg	74.4	226	<40.4	<40.4	<40.4	**108,000**	**108,000**	---	---
sec-Butylbenzene	ug/kg	225	251	<25.0	<25.0	<25.0	**145,000**	**145,000**	---	---
tert-Butylbenzene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	**183,000**	**183,000**	---	---
1,2-Dichlorobenzene	ug/kg	<44.4	<44.4	<44.4	<44.4	<44.4	**376,000**	**376,000**	*1,168*	---
Isopropylbenzene (Cumene)	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	**268,000**	**268,000**	---	---
p-Isopropyltoluene	ug/kg	<25.0	55.4J	<25.0	<25.0	<25.0	**162,000**	**162,000**	---	---
Naphthalene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	**24,100**	**5,520**	*658.2*	---
n-Propylbenzene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	**264,000**	**264,000**	---	---
1,2,4-Trimethylbenzene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	**219,000**	**219,000**	*1,382.1*	---
1,3,5-Trimethylbenzene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	**182,000**	**182,000**		---
Total Xylenes	ug/kg	<50.0	<50.0	<50.0	<50.0	<50.0	**260,000**	**260,000**	*3,960*	---
Tetrachloroethene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	**145,000**	**33,000**	*4.5*	---
PAHs										
Acenaphthene	ug/kg	29.7	254	<2.8	<2.9	65.9	**45,200,000**	**3,590,000**	---	---
Acenaphthylene	ug/kg	5J	56.5	<3.1	5J	32.2	**---**	**---**	---	---
Anthracene	ug/kg	11.9J	83.4	<4.6	9.1J	188	**100,000,000**	**17,900,000**	*196,949.2*	---
Benzo(a)anthracene	ug/kg	<2.7	<2.9	<2.8	11J	144	**20,800**	**1,140**	---	---
Benzo(a)pyrene	ug/kg	<3.2	<3.3	<3.2	16J	114	**2,110**	**115**	*470*	---
Benzo(b)fluoranthene	ug/kg	<3.3	<3.5	<3.4	18.8J	121	**21,100**	**1,150**	*479.3*	---
Benzo(g,h,i)perylene	ug/kg	<2.5	<2.7	<2.6	15.6J	54.4	**---**	**---**	---	---
Benzo(k)fluoranthene	ug/kg	<3.6	<3.8	<3.6	10.7J	59.7	**211,000**	**11,500**	---	---
Chrysene	ug/kg	<3.5	3.9J	<3.6	16J	*153*	**2,110,000**	**115,000**	*144.6*	---
Dibenz(a,h)anthracene	ug/kg	<5.2	<5.6	<5.3	<5.6	20.5J	**2110**	**115**	---	---
Fluoranthene	ug/kg	<9.6	29.0	<9.8	23.9	416	**30,100,000**	**2,390,000**	*88,877.8*	---
Fluorene	ug/kg	19.5	334	<4.9	<5.1	108	**30,100,000**	**2,390,000**	*14,829.9*	---
Indeno(1,2,3-cd)pyrene	ug/kg	<2.7	<2.9	<2.8	10.4J	49.4	**21,100**	**1,150**	---	---
1-Methylnaphthalene	ug/kg	18.3J	367	<3	9.1J	86.3	**72,700**	**17,600**	---	---
2-Methylnaphthalene	ug/kg	<2.9	23.4	<3	7.9J	103	**3,010,000**	**239,000**	---	---
Naphthalene	ug/kg	8.5J	36.7	<3.4	8.5J	2.39	**24,100**	**5,520**	*658.2*	---
Phenanthrene	ug/kg	17.6J	191	<4.3	17.5J	542	**---**	**---**	---	---
Pyrene	ug/kg	13.3J	69.8	<3.6	22.1	313	**22,600,000**	**1,790,000**	*54,545.2*	---
RCRA Metals										
Arsenic	mg/kg	***3.0***	***7.5***	***5.6***	***6.4***	***(9.2)***	**3**	**0.677**	*0.584*	(8)
Barium	mg/kg	60.5	35.9	68.6	72.4	123	**100,000**	**15,300**	*164.8*	(364)
Cadmium	mg/kg	0.13J	0.23J	0.15J	0.22J	0.29J	**985**	**71.1**	*0.752*	(1)
Chromium (a)	mg/kg	19.2	18.0	18.8	20.3	(128)	**---**	**---**	*360,000 (b)*	(44) (c)
Chromium, Trivalent	mg/kg	19.2	18.0	18.8	20.3	128	**100,000**	**100,000**	---	---
Chromium, Hexavalent	mg/kg	d	d	d	d	d	**6.36**	**0.301**	---	---
Lead	mg/kg	5.6	11.0	11.4	21.1	22.6	**800**	**400**	*27*	(52)
Mercury	mg/kg	0.017	0.014	0.028	0.032	0.074	**3.13**	**3.13**	*0.208*	---
Selenium	mg/kg	<0.52	<0.54	<0.50	<0.57	<0.62	**5,840**	**391**	*0.52*	---
Silver	mg/kg	<0.24	<0.25	<0.23	0.27J	0.39J	**5,840**	**391**	*0.8491*	---
Cumulative Hazard Index		0.0007	0.0016	0.0017	0.002	0.2733	---	---	---	---
Cumulative Cancer Risk		0	3.1E-08	0	0	1.7E-05	---	---	---	---

Notes:

Bold concentrations exceed NR 720 non-industrial direct contact RCLs
Boxed and bold concentrations exceed NR 720 industrial direct contact RCLs
Underlined concentrations exceed NR 720 groundwater pathway RCL
Concentrations in ( ) exceed NR 720 background threshold value
--- - Not analyzed/Not Established
J - estimated concentration detected between the laboratory Limit of Detection and the Limit of Quantitation
i.u. - instrument units
mg/kg -milligrams per kilogram, parts per million
ug/kg -micrograms per kilogram, parts per billion

PAHs - polynuclear aromatic hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
PID - photoionization detector
RCL - residual contaminant level
VOCs - volatile organic compounds
RCRA - resource conservation and recovery act
BTV - background threshold value
DC-I - direct contact industrial
DC-NI - direct contact non-industrial
GW - groundwater pathway

a - Total Chromium laboratory analytical results may be comprised of trivalent (Cr III) and/or Hexavalent (Cr VI) Chromium
b: use 360,000 mg/kg for GW RCL, if no CR-VI is present
c: BTV applies to Total Chromium
d: In review of the Hygienetics data within the Sigma letter report, dated 9/30/10, detected Chromium levels are attributable to Trivalent Chromium with no detectable Hexavalent Chromium

A.2. SOIL ANALYTICAL RESULTS TABLE (Page 8 of 12)

Midwest Tanning Corp. (Former) (Hotspot #5)
222 N. Chicago Avenue (Former 1200 Davis Avenue)
South Milwaukee, Wisconsin
BRRTS No. 02-41-556117

Analytical Parameter	Depth Date Units	NSW-1 2' - 3' 7/18/12	NSW-2 2' - 3' 7/18/12	NSW-3 2' - 3' 7/18/12	NSW-4 2' - 3' 7/18/12	ESW 2' - 3' 7/18/12	NR 720 RCL DC-I	NR 720 RCL DC-NI	NR 720 RCL GW	NR 720 BTV
saturated/unsaturated		**u**	**u**	**u**	**u**	**u**				
PID	i.u.	**---**	**---**	**---**	**---**	**---**	---	---	---	---
DRO	mg/kg	8.7	234	3.3	66.1	2.7	---	---	---	---
Detected VOCs										
sec-Butylbenzene	ug/kg	<25	<25	<25	30.4J	<25	**145,000**	**145,000**	---	---
Naphthalene	ug/kg	<25	<25	<25	37.2J	<25	**24,100**	**5,520**	*658.2*	---
1,2,4-Trimethylbenzene	ug/kg	<25	<25	<25	41.2J	<25	**219,000**	**219,000**	*1,382.1*	---
PAHs										
Acenaphthene	ug/kg	<2.8	<2.7	<2.7	19.5J	ND	**45,200,000**	**3,590,000**	---	---
Acenaphthylene	ug/kg	<2.9	<3.0	<3.0	<3.1	ND	**---**	**---**	---	---
Anthracene	ug/kg	9.4J	<4.4	<4.4	8.1J	14.3J	**100,000,000**	**17,900,000**	*196,949.2*	---
Benzo(a)anthracene	ug/kg	11.5J	<2.7	<2.7	<2.8	35.6	**20,800**	**1,140**	---	---
Benzo(a)pyrene	ug/kg	10.3J	<3.1	<3.1	<3.2	29.2	**2,110**	**115**	*470*	---
Benzo(b)fluoranthene	ug/kg	11.5J	<3.3	<3.3	7.2J	24.3	**21,100**	**1,150**	*479.3*	---
Benzo(g,h,i)perylene	ug/kg	<2.9	<2.5	<2.5	<2.6	15.8J	**---**	**---**	---	---
Benzo(k)fluoranthene	ug/kg	11.8J	<2.6	<2.7	<2.8	31.2	**211,000**	**11,500**	---	---
Chrysene	ug/kg	14.0J	12.6J	3.2J	9.2J	40.1	**2,110,000**	**115,000**	*144.6*	---
Dibenz(a,h)anthracene	ug/kg	<2.9	<5.2	<5.2	<5.3	<5.4	**2110**	**115**	---	---
Fluoranthene	ug/kg	26.7	<9.5	<9.5	16.5J	70.1	**30,100,000**	**2,390,000**	*88,877.8*	---
Fluorene	ug/kg	<2.9	<4.7	<4.7	21.5	<4.7	**30,100,000**	**2,390,000**	*14,829.9*	---
Indeno(1,2,3-cd)pyrene	ug/kg	<2.1	<2.7	<2.7	<2.8	14.6J	**21,100**	**1,150**	---	---
1-Methylnaphthalene	ug/kg	19.7J	<2.9	<2.9	50.1	27.3	**72,700**	**17,600**	---	---
2-Methylnaphthalene	ug/kg	21.2	<2.9	2.1J	29.7	30.7	**3,010,000**	**239,000**	---	---
Naphthalene	ug/kg	73.1	<3.3	<3.4	7.7J	26.8	**24,100**	**5,520**	*658.2*	---
Phenanthrene	ug/kg	43.3	<4.2	5.7J	68.0	59.9	**---**	**---**	---	---
Pyrene	ug/kg	19.2J	<3.5	<3.6	21.1	46.1	**22,600,000**	**1,790,000**	*54,545.2*	---
RCRA Metals										
Arsenic	mg/kg	***5.1***	***4.2***	***6.0***	***5.5***	***7.9***	**3**	**0.677**	*0.584*	(8)
Barium	mg/kg	71.7	46.2	42.7	52.1	143	**100,000**	**15,300**	*164.8*	(364)
Cadmium	mg/kg	0.10J	0.069J	0.082J	<0.2	0.25J	**985**	**71.1**	*0.752*	(1)
Chromium (a)	mg/kg	31.3	20.6	20.7	24.1	20.1	**---**	**---**	*360,000 (b)*	(44) (c)
Trivalent Chromium	mg/kg	31.3	20.6	20.7	24.1	20.1	**100,000**	**100,000**	---	---
Hexavalent Chromium	mg/kg	d	d	d	d	d	**6.36**	**0.301**	---	---
Lead	mg/kg	15.9	7.5	7.9	10.8	18.4	**800**	**400**	*27*	(52)
Mercury	mg/kg	0.51	0.012	0.018	0.032	0.042	**3.13**	**3.13**	*0.208*	---
Selenium	mg/kg	<0.45	<0.45	<0.45	<0.45	0.63J	**5,840**	**391**	*0.52*	---
Silver	mg/kg	<0.25	<0.25	<0.25	<0.25	<0.25	**5,840**	**391**	*0.8491*	---
Cumulative Hazard Index		0.0307	0.0007	0.0011	0.0021	0.0028	---	---	---	---
Cumulative Cancer Risk		1.4E-08	0	0	3.2E-09	2.4E-06	---	---	---	---

Notes:

Bold concentrations exceed NR 720 non-industrial direct contact RCLs
Boxed and bold concentrations exceed NR 720 industrial direct contact RCLs
Underlined concentrations exceed NR 720 groundwater pathway RCL
Concentrations in ( ) exceed NR 720 background threshold value
--- - Not analyzed/Not Established
J - estimated concentration detected between the laboratory Limit of Detection and the Limit of Quantitation
i.u. - instrument units
mg/kg -milligrams per kilogram, parts per million
ug/kg -micrograms per kilogram, parts per billion

PAHs - polynuclear aromatic hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
PID - photoionization detector
RCL - residual contaminant level
VOCs - volatile organic compounds
RCRA - resource conservation and recovery act
BTV - background threshold value
DC-I - direct contact industrial
DC-NI - direct contact non-industrial
GW - groundwater pathway

a - Total Chromium laboratory analytical results may be comprised of trivalent (Cr III) and/or Hexavalent (Cr VI) Chromium
b: use 360,000 mg/kg for GW RCL, if no CR-VI is present
c: BTV applies to Total Chromium
d: In review of the Hygienetics data within the Sigma letter report, dated 9/30/10, detected Chromium levels are attributable to Trivalent Chromium with no detectable Hexavalent Chromium

A.2. SOIL ANALYTICAL RESULTS TABLE (Page 9 of 12)

Midwest Tanning Corp. (Former) (Hotspot #5)
222 N. Chicago Avenue (Former 1200 Davis Avenue)
South Milwaukee, Wisconsin
BRRTS No. 02-41-556117

Analytical Parameter	Depth / Date / Units	SSW-1 2' - 3' 7/18/12	SSW-2 2' - 3' 7/18/12	SSW-3 2' - 3' 7/18/12	SSW-4 2' - 3' 7/18/12	WSW 2' - 3' 7/18/12	NR 720 RCL DC-I	NR 720 RCL DC-NI	NR 720 RCL GW	NR 720 BTV
saturated/unsaturated		**u**	**u**	**u**	**u**	**u**				
PID	i.u.	---	---	---	---	---	---	---	---	---
DRO	mg/kg	1.7J	1.6J	4.6	<3.0	<3.0	---	---	---	---
No VOCs detected in these samples										
PAHs										
Acenaphthene	ug/kg	<2.7	<2.7	<2.7	<2.7	10.7J	**45,200,000**	**3,590,000**	---	---
Acenaphthylene	ug/kg	<3.0	<3.0	<3.0	<3.0	<3.1	**---**	**---**	---	---
Anthracene	ug/kg	<4.4	<4.4	10.4J	<4.4	3.1J	**100,000,000**	**17,900,000**	*196,949.2*	---
Benzo(a)anthracene	ug/kg	<2.7	<2.7	44.2	<2.7	<2.7	**20,800**	**1,140**	---	---
Benzo(a)pyrene	ug/kg	<3.1	<3.1	56.2	<3.1	<3.1	**2,110**	**115**	*470*	---
Benzo(b)fluoranthene	ug/kg	<3.3	<3.3	44.4	<3.3	<3.3	**21,100**	**1,150**	*479.3*	---
Benzo(g,h,i)perylene	ug/kg	<2.5	<2.5	38.7	<2.5	<2.5	**---**	**---**	---	---
Benzo(k)fluoranthene	ug/kg	<3.5	<3.5	48.3	<3.5	<3.5	**211,000**	**11,500**	---	---
Chrysene	ug/kg	<3.5	<3.5	51.8	2.4J	<3.5	**2,110,000**	**115,000**	*144.6*	---
Dibenz(a,h)anthracene	ug/kg	<5.2	<5.2	<5.3	<5.2	<5.2	**2110**	**115**	---	---
Fluoranthene	ug/kg	<9.5	<9.5	78.8	<9.5	<9.5	**30,100,000**	**2,390,000**	*88,877.8*	---
Fluorene	ug/kg	<4.7	<4.7	<4.8	<4.7	16.6J	**30,100,000**	**2,390,000**	*14,829.9*	---
Indeno(1,2,3-cd)pyrene	ug/kg	<2.7	<2.7	31.6	<2.7	<2.8	**21,100**	**1,150**	---	---
1-Methylnaphthalene	ug/kg	<2.9	<2.9	<2.2	<2.9	113	**72,700**	**17,600**	---	---
2-Methylnaphthalene	ug/kg	<2.9	<2.9	4.7J	4.0J	191	**3,010,000**	**239,000**	---	---
Naphthalene	ug/kg	<3.3	<3.3	5.3J	4.8J	43.0	**24,100**	**5,520**	*658.2*	---
Phenanthrene	ug/kg	<4.2	<4.2	27.6	4.3J	33.0	**---**	**---**	---	---
Pyrene	ug/kg	<3.5	<3.5	65.7	<3.5	<3.6	**22,600,000**	**1,790,000**	*54,545.2*	---
RCRA Metals										
Arsenic	mg/kg	***5.2***	***4.6***	***4.4***	***(8.1)***	***7.5***	**3**	**0.677**	*0.584*	(8)
Barium	mg/kg	44.3	46.3	43.9	85.3	96.2	**100,000**	**15,300**	*164.8*	(364)
Cadmium	mg/kg	0.050J	0.12J	0.070J	0.089J	0.096J	**985**	**71.1**	*0.752*	(1)
Chromium (a)	mg/kg	18.7	18.5	(60.7)	33.1	(88)	**---**	**---**	*360,000 (b)*	(44) (c)
Trivalent Chromium	mg/kg	18.7	18.5	60.7	33.1	88	**100,000**	**100,000**	---	---
Hexavalent Chromium	mg/kg	d	d	d	d	d	**6.36**	**0.301**	---	---
Lead	mg/kg	6.4	7.0	6.9	14.4	13.4	**800**	**400**	*27*	(52)
Mercury	mg/kg	0.013	0.0096	0.019	0.055	0.076	**3.13**	**3.13**	*0.208*	---
Selenium	mg/kg	<0.45	<0.45	<0.45	<0.45	<0.45	**5,840**	**391**	*0.52*	---
Silver	mg/kg	<0.25	<0.25	<0.26	<0.25	<0.26	**5,840**	**391**	*0.8491*	---
Cumulative Hazard Index		0.0008	0.0006	0.0012	0.0033	0.0056	---	---	---	---
Cumulative Cancer Risk		0	0	4.6E-06	0	1.6E-08	---	---	---	---

Notes:

Bold concentrations exceed NR 720 non-industrial direct contact RCLs
Boxed and bold concentrations exceed NR 720 industrial direct contact RCLs
Underlined concentrations exceed NR 720 groundwater pathway RCL
Concentrations in ( ) exceed NR 720 background threshold value
--- - Not analyzed/Not Established
J - estimated concentration detected between the laboratory Limit of Detection and the Limit of Quantitation
i.u. - instrument units
mg/kg -milligrams per kilogram, parts per million
ug/kg -micrograms per kilogram, parts per billion

PAHs - polynuclear aromatic hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
PID - photoionization detector
RCL - residual contaminant level
VOCs - volatile organic compounds
RCRA - resource conservation and recovery act
BTV - background threshold value
DC-I - direct contact industrial
DC-NI - direct contact non-industrial
GW - groundwater pathway

a - Total Chromium laboratory analytical results may be comprised of trivalent (Cr III) and/or Hexavalent (Cr VI) Chromium
b: use 360,000 mg/kg for GW RCL, if no CR-VI is present
c: BTV applies to Total Chromium
d: In review of the Hygienetics data within the Sigma letter report, dated 9/30/10, detected Chromium levels are attributable to Trivalent Chromium with no detectable Hexavalent Chromium

A.2. SOIL ANALYTICAL RESULTS TABLE (Page 10 of 12)

Midwest Tanning Corp. (Former) (Hotspot #5)
222 N. Chicago Avenue (Former 1200 Davis Avenue)
South Milwaukee, Wisconsin
BRRTS No. 02-41-556117

Analytical Parameter	Depth Date / Units	BASE-1 4' 7/18/12	BASE-2 4' 7/18/12	BASE-3 4' 7/18/12	BASE-4 4' 7/18/12	BASE-5 4' 7/18/12	NR 720 RCL DC-I	NR 720 RCL DC-NI	NR 720 RCL GW	NR 720 BTV
saturated/unsaturated		**u**	**u**	**u**	**u**	**u**				
PID	i.u.	**---**	**---**	**---**	**---**	**---**	---	---	---	---
DRO	mg/kg	81.5	2.0	15.7	3.7	1.5J	---	---	---	---
No VOCs detected in these samples										
PAHs										
Acenaphthene	ug/kg	<2.7	<2.7	<2.8	<2.7	<2.7	**45,200,000**	**3,590,000**	---	---
Acenaphthylene	ug/kg	<3.0	<3.0	<3.1	<3.0	<3.0	**---**	**---**	---	---
Anthracene	ug/kg	<4.4	<4.4	<4.5	<4.4	<4.4	**100,000,000**	**17,900,000**	*196,949.2*	---
Benzo(a)anthracene	ug/kg	<2.7	<2.7	<2.8	<2.7	<2.7	**20,800**	**1,140**	---	---
Benzo(a)pyrene	ug/kg	<3.1	<3.1	<3.1	<3.1	<3.1	**2,110**	**115**	*470*	---
Benzo(b)fluoranthene	ug/kg	<3.3	<3.3	<3.3	<3.3	<3.3	**21,100**	**1,150**	*479.3*	---
Benzo(g,h,i)perylene	ug/kg	<2.5	<2.5	<2.6	<2.5	<2.5	**---**	**---**	---	---
Benzo(k)fluoranthene	ug/kg	<3.5	<3.5	<3.6	<3.5	<3.5	**211,000**	**11,500**	---	---
Chrysene	ug/kg	2.7J	<3.5	3.3J	<3.5	<3.5	**2,110,000**	**115,000**	*144.6*	---
Dibenz(a,h)anthracene	ug/kg	<5.2	<5.2	<5.3	<5.2	<5.2	**2110**	**115**	---	---
Fluoranthene	ug/kg	<9.5	<9.5	<9.6	<9.5	<9.5	**30,100,000**	**2,390,000**	*88,877.8*	---
Fluorene	ug/kg	<4.7	<4.7	<4.8	<4.7	<4.7	**30,100,000**	**2,390,000**	*14,829.9*	---
Indeno(1,2,3-cd)pyrene	ug/kg	<2.7	<2.7	<2.7	<2.7	<2.7	**21,100**	**1,150**	---	---
1-Methylnaphthalene	ug/kg	<2.9	<2.9	<2.9	<2.9	60.0	**72,700**	**17,600**	---	---
2-Methylnaphthalene	ug/kg	<2.9	<2.9	<2.9	<2.9	84.8	**3,010,000**	**239,000**	---	---
Naphthalene	ug/kg	<3.3	<3.3	<3.4	<3.3	16.8J	**24,100**	**5,520**	*658.2*	---
Phenanthrene	ug/kg	<4.2	<4.2	<4.3	<4.2	<4.3	**---**	**---**	---	---
Pyrene	ug/kg	<3.5	<3.5	<3.6	<3.5	<3.6	**22,600,000**	**1,790,000**	*54,545.2*	---
RCRA Metals										
Arsenic	mg/kg	***5.2***	***4.3***	***5.5***	***5.7***	***3.5***	**3**	**0.677**	*0.584*	(8)
Barium	mg/kg	38.3	88.2	36.6	33.6	46.9	**100,000**	**15,300**	*164.8*	(364)
Cadmium	mg/kg	0.20J	0.12J	0.10J	0.13J	0.035J	**985**	**71.1**	*0.752*	(1)
Chromium (a)	mg/kg	17.2	29.3	17.7	17.6	19.7	**---**	**---**	*360,000 (b)*	(44) (c)
Trivalent Chromium	mg/kg	17.2	29.3	17.7	17.6	19.7	**100,000**	**100,000**	---	---
Hexavalent Chromium	mg/kg	d	d	d	d	d	**6.36**	**0.301**	---	---
Lead	mg/kg	6.7	7.0	6.9	8.6	4.9	**800**	**400**	*27*	(52)
Mercury	mg/kg	0.0046J	0.013	0.0086	0.012	0.012	**3.13**	**3.13**	*0.208*	---
Selenium	mg/kg	<0.45	<0.45	<0.45	<0.45	<0.45	**5,840**	**391**	*0.52*	---
Silver	mg/kg	<0.25	0.25J	<0.25	<0.25	<0.25	**5,840**	**391**	*0.8491*	---
Cumulative Hazard Index		0	0.0008	0.0051	0.0007	0.0011	---	---	---	---
Cumulative Cancer Risk		0	0	0	0	3.8E-09	---	---	---	---

Notes:

Bold concentrations exceed NR 720 non-industrial direct contact RCLs
Boxed and bold concentrations exceed NR 720 industrial direct contact RCLs
Underlined concentrations exceed NR 720 groundwater pathway RCL
Concentrations in ( ) exceed NR 720 background threshold value
--- - Not analyzed/Not Established
J - estimated concentration detected between the laboratory Limit of Detection and the Limit of Quantitation
i.u. - instrument units
mg/kg -milligrams per kilogram, parts per million
ug/kg -micrograms per kilogram, parts per billion

PAHs - polynuclear aromatic hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
PID - photoionization detector
RCL - residual contaminant level
VOCs - volatile organic compounds
RCRA - resource conservation and recovery act
BTV - background threshold value
DC-I - direct contact industrial
DC-NI - direct contact non-industrial
GW - groundwater pathway

a - Total Chromium laboratory analytical results may be comprised of trivalent (Cr III) and/or Hexavalent (Cr VI) Chromium
b: use 360,000 mg/kg for GW RCL, if no CR-VI is present
c: BTV applies to Total Chromium
d: In review of the Hygienetics data within the Sigma letter report, dated 9/30/10, detected Chromium levels are attributable to Trivalent Chromium with no detectable Hexavalent Chromium

A.2. SOIL ANALYTICAL RESULTS TABLE (Page 11 of 12)

Midwest Tanning Corp. (Former) (Hotspot #5)
222 N. Chicago Avenue (Former 1200 Davis Avenue)
South Milwaukee, Wisconsin
BRRTS No. 02-41-556117

Analytical Parameter	Depth / Date / Units	VSWW 10' - 12' 7/18/12	VSWN 10' - 12' 7/18/12	VSWE 10' - 12' 7/18/12	VSWS 10' - 12' 7/18/12	VBASE 15' 7/18/12	NR 720 RCL DC-I	NR 720 RCL DC-NI	NR 720 RCL GW	NR 720 BTV
saturated/unsaturated		**u**	**u**	**u**	**u**	**u**				
PID	i.u.	---	---	---	---	---	---	---	---	---
DRO	mg/kg	3.5	5.8	5.7	1.7	4.6	---	---	---	---
Detected VOCs										
Benzene	ug/kg	<25	<25	*28.8J*	<25	<25	**7,070**	**1,600**	*5.1*	---
PAHs										
Acenaphthene	ug/kg	<2.7	<2.7	<2.7	<2.8	<2.9	**45,200,000**	**3,590,000**	---	---
Acenaphthylene	ug/kg	<3.0	<3.0	<3.0	<3.1	<3.2	**---**	**---**	---	---
Anthracene	ug/kg	<4.4	<4.4	<4.4	<4.5	9.1J	**100,000,000**	**17,900,000**	*196,949.2*	---
Benzo(a)anthracene	ug/kg	<2.7	<2.7	<2.7	<2.8	29.4	**20,800**	**1,140**	---	---
Benzo(a)pyrene	ug/kg	<3.1	<3.1	<3.1	<3.1	29.1	**2,110**	**115**	*470*	---
Benzo(b)fluoranthene	ug/kg	<3.3	<3.3	<3.3	<3.3	20.6	**21,100**	**1,150**	*479.3*	---
Benzo(g,h,i)perylene	ug/kg	<2.5	<2.5	<2.5	<2.6	17.1J	**---**	**---**	---	---
Benzo(k)fluoranthene	ug/kg	<3.5	<3.5	<3.5	<3.6	27.6	**211,000**	**11,500**	---	---
Chrysene	ug/kg	<3.5	<3.5	<3.5	2.3J	33.1	**2,110,000**	**115,000**	*144.6*	---
Dibenz(a,h)anthracene	ug/kg	<5.2	<5.2	<5.2	<5.2	<5.3	**2110**	**115**	---	---
Fluoranthene	ug/kg	<9.5	<9.5	<9.5	<9.5	62.5	**30,100,000**	**2,390,000**	*88,877.8*	---
Fluorene	ug/kg	<4.7	<4.7	<4.7	<4.7	<4.8	**30,100,000**	**2,390,000**	*14,829.9*	---
Indeno(1,2,3-cd)pyrene	ug/kg	<2.7	<2.7	<2.7	<2.7	14.7J	**21,100**	**1,150**	---	---
1-Methylnaphthalene	ug/kg	<2.9	<2.9	<2.9	<2.9	<2.10	**72,700**	**17,600**	---	---
2-Methylnaphthalene	ug/kg	<2.9	3.5J	<2.9	<2.9	2.0J	**3,010,000**	**239,000**	---	---
Naphthalene	ug/kg	<3.3	4.4J	<3.3	<3.3	<3.4	**24,100**	**5,520**	*658.2*	---
Phenanthrene	ug/kg	<4.2	<4.3	<4.2	<4.2	31.7	**---**	**---**	---	---
Pyrene	ug/kg	<3.5	<3.6	<3.5	<3.5	48.7	**22,600,000**	**1,790,000**	*54,545.2*	---
RCRA Metals										
Arsenic	mg/kg	***3.7***	***4.5***	***4.6***	***3.9***	***4.6***	**3**	**0.677**	*0.584*	(8)
Barium	mg/kg	38.3	41.0	33.3	29.2	32.9	**100,000**	**15,300**	*164.8*	(364)
Cadmium	mg/kg	0.12J	0.073J	0.064J	0.074J	0.050J	**985**	**71.1**	*0.752*	(1)
Chromium (a)	mg/kg	18.8	22.2	18.6	18.6	24.7	**---**	**---**	*360,000 (b)*	(44) (c)
Trivalent Chromium	mg/kg	18.8	22.2	18.6	18.6	24.7	**100,000**	**100,000**	---	---
Hexavalent Chromium	mg/kg	d	d	d	d	d	**6.36**	**0.301**	---	---
Lead	mg/kg	7.1	6.3	6.8	6.2	6.3	**800**	**400**	*27*	(52)
Mercury	mg/kg	0.012	0.010	0.0089	0.010	0.0083	**3.13**	**3.13**	*0.208*	---
Selenium	mg/kg	<0.45	<0.45	<0.45	<0.45	<0.45	**5,840**	**391**	*0.52*	---
Silver	mg/kg	<0.25	<0.25	<0.25	<0.25	<0.25	**5,840**	**391**	*0.8491*	---
Cumulative Hazard Index		0.0007	0.0006	0.0005	0.0006	0.0005	---	---	---	---
Cumulative Cancer Risk		0	0	0	0	2.3E-06	---	---	---	---

Notes:

Bold concentrations exceed NR 720 non-industrial direct contact RCLs
Boxed and bold concentrations exceed NR 720 industrial direct contact RCLs
Underlined concentrations exceed NR 720 groundwater pathway RCL
Concentrations in ( ) exceed NR 720 background threshold value
--- - Not analyzed/Not Established
J - estimated concentration detected between the laboratory Limit of Detection and the Limit of Quantitation
i.u. - instrument units
mg/kg -milligrams per kilogram, parts per million
ug/kg -micrograms per kilogram, parts per billion

PAHs - polynuclear aromatic hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
PID - photoionization detector
RCL - residual contaminant level
VOCs - volatile organic compounds
RCRA - resource conservation and recovery act
BTV - background threshold value
DC-I - direct contact industrial
DC-NI - direct contact non-industrial
GW - groundwater pathway

a - Total Chromium laboratory analytical results may be comprised of trivalent (Cr III) and/or Hexavalent (Cr VI) Chromium
b: use 360,000 mg/kg for GW RCL, if no CR-VI is present
c: BTV applies to Total Chromium
d: In review of the Hygienetics data within the Sigma letter report, dated 9/30/10, detected Chromium levels are attributable to Trivalent Chromium with no detectable Hexavalent Chromium

A.2. SOIL ANALYTICAL RESULTS TABLE (Page 12 of 12)

Midwest Tanning Corp. (Former) (Hotspot #5)
222 N. Chicago Avenue (Former 1200 Davis Avenue)
South Milwaukee, Wisconsin
BRRTS No. 02-41-556117

Analytical Parameter	Depth / Date / Units	NSP-17 6' - 7' 7/23/12	ESP-17 6' - 7' 7/23/12	WSP-17 6' - 7' 7/23/12	SSP-17 6' - 7' 7/23/12	BSP-17 10' 7/23/12	NR 720 RCL DC-I	NR 720 RCL DC-NI	NR 720 RCL GW	NR 720 BTV
saturated/unsaturated		**u**	**u**	**u**	**u**	**u**				
PID	i.u.	---	---	---	---	---	---	---	---	---
DRO	mg/kg	1.1J	83.4	2.1	14.2	2.5	---	---	---	---
GRO	mg/kg	<3.0	69.2	<3.0	<3.1	<3.2	---	---	---	---
No VOCs detected in these samples										
PAHs										
Acenaphthene	ug/kg	<2.8	11.1J	<2.7	<2.8	<2.9	**45,200,000**	**3,590,000**	---	---
Acenaphthylene	ug/kg	<2.9	21.0J	<3.0	<3.1	<3.2	**---**	**---**	---	---
Anthracene	ug/kg	3.9J	<4.5	<4.4	<4.5	2.3J	**100,000,000**	**17,900,000**	*196,949.2*	---
Benzo(a)anthracene	ug/kg	16.6J	<2.8	<2.7	<2.8	<2.9	**20,800**	**1,140**	---	---
Benzo(a)pyrene	ug/kg	<3.1	<3.1	<3.1	<3.1	<3.2	**2,110**	**115**	*470*	---
Benzo(b)fluoranthene	ug/kg	12.0J	4.2J	<3.3	<3.3	4.1J	**21,100**	**1,150**	*479.3*	---
Benzo(g,h,i)perylene	ug/kg	<2.5	<2.6	<2.5	<2.6	<2.7	**---**	**---**	---	---
Benzo(k)fluoranthene	ug/kg	15.6J	<3.6	<3.5	<3.6	<3.7	**211,000**	**11,500**	---	---
Chrysene	ug/kg	23.4	5.6J	3.2J	3.7J	6.5J	**2,110,000**	**115,000**	*144.6*	---
Dibenz(a,h)anthracene	ug/kg	<5.2	<5.3	<5.2	<5.2	<5.2	**2110**	**115**	---	---
Fluoranthene	ug/kg	29.7	<9.5	<9.5	<9.5	<9.5	**30,100,000**	**2,390,000**	*88,877.8*	---
Fluorene	ug/kg	<4.7	35.0	<4.7	<4.7	<4.7	**30,100,000**	**2,390,000**	*14,829.9*	---
Indeno(1,2,3-cd)pyrene	ug/kg	<2.7	<2.8	<2.7	<2.7	<2.7	**21,100**	**1,150**	---	---
1-Methylnaphthalene	ug/kg	<2.8	13.5J	<2.9	<2.9	<2.9	**72,700**	**17,600**	---	---
2-Methylnaphthalene	ug/kg	4.7J	10.3J	<2.9	<2.9	2.9J	**3,010,000**	**239,000**	---	---
Naphthalene	ug/kg	8.3J	24.4	<3.3	<3.3	<3.4	**24,100**	**5,520**	*658.2*	---
Phenanthrene	ug/kg	10.2J	16.3J	4.3J	<3.4	8.0J	**---**	**---**	---	---
Pyrene	ug/kg	23.8	<3.6	<3.6	<3.7	<3.8	**22,600,000**	**1,790,000**	*54,545.2*	---
RCRA Metals										
Arsenic	mg/kg	***7.2***	***7.5***	***6.5***	***6.3***	***6.8***	**3**	**0.677**	*0.584*	(8)
Barium	mg/kg	75.0	60.6	32.5	29.9	43.8	**100,000**	**15,300**	*164.8*	(364)
Cadmium	mg/kg	<0.1	<0.1	0.12J	<0.1	0.066J	**985**	**71.1**	*0.752*	(1)
Chromium (a)	mg/kg	(82.5)	(117)	14.9	29.3	35.3	**---**	**---**	*360,000 (b)*	(44) (c)
Trivalent Chromium	mg/kg	82.5	117	14.9	29.3	35.3	**100,000**	**100,000**	---	---
Hexavalent Chromium	mg/kg	d	d	d	d	d	**6.36**	**0.301**	---	---
Lead	mg/kg	10.5	11.3	10.0	6.0	11.2	**800**	**400**	*27*	(52)
Mercury	mg/kg	0.022	0.024	0.012	0.0069	0.036	**3.13**	**3.13**	*0.208*	---
Selenium	mg/kg	<0.45	<0.45	<0.45	<0.45	<0.45	**5,840**	**391**	*0.52*	---
Silver	mg/kg	<0.25	<0.25	<0.25	<0.25	<0.25	**5,840**	**391**	*0.8491*	---
Cumulative Hazard Index		0.0014	0.0015	0.0007	0.0004	0.0021	---	---	---	---
Cumulative Cancer Risk		1.6E-09	4.7E-09	0	0	0	---	---	---	---

Notes:

Bold concentrations exceed NR 720 non-industrial direct contact RCLs
Boxed and bold concentrations exceed NR 720 industrial direct contact RCLs
Underlined concentrations exceed NR 720 groundwater pathway RCL
Concentrations in ( ) exceed NR 720 background threshold value
--- - Not analyzed/Not Established
J - estimated concentration detected between the laboratory Limit of Detection and the Limit of Quantitation
i.u. - instrument units
mg/kg -milligrams per kilogram, parts per million
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PAHs - polynuclear aromatic hydrocarbons
GRO - gasoline range organics
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PID - photoionization detector
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a - Total Chromium laboratory analytical results may be comprised of trivalent (Cr III) and/or Hexavalent (Cr VI) Chromium
b: use 360,000 mg/kg for GW RCL, if no CR-VI is present
c: BTV applies to Total Chromium
d: In review of the Hygienetics data within the Sigma letter report, dated 9/30/10, detected Chromium levels are attributable to Trivalent Chromium with no detectable Hexavalent Chromium