

August 23, 2017

Union Pacific Railroad  
1400 Douglas Street  
Omaha, NE 68179

Attn: Austin Fearnaw

**RE: Retraction Letter for the October 2016 Notification of Continuing Obligations and Residual Contamination (Form 4400-286)  
Former Midwest Tanning Corporation Parcel  
222 North Chicago Avenue (Formerly 1200 Davis Avenue)  
South Milwaukee, Wisconsin  
WDNR BRRTS Activity # 02-41-556117**

Dear Mr. Fearnaw:

Professional Service Industries, Inc. (PSI) originally notified Union Pacific Railroad of potential residual soil contamination that may be present within the railroad right of way (ROW) along the western property line of an existing Walmart store. As set forth below, we are now retracting that notification. Based on further evaluation of the soil analytical results, there is no soil contamination in the railroad ROW that is attributable to the adjacent Walmart property.

The potential contamination was anticipated to have originated from historic site activities that occurred at the former Midwest Tanning Corporation facility that was located on this property. As stated in the WDNR Notification of Residual Contamination form, the potential contaminant of concern was Chromium at residual Total Chromium levels of 87 milligrams per kilogram (mg/kg) and 88 mg/kg. These levels are above the WDNR's NR720 Background Threshold Value (BTV) for Chromium of 44 mg/kg. As such, PSI sent the notification to Union Pacific. A copy of the previously submitted form 4400-286 is included with this letter.

Chromium compounds are utilized in the tanning process of leather. These compounds can be either Trivalent or Hexavalent Chromium. Hexavalent Chromium is a known carcinogen when inhaled. Trivalent Chromium is not a known carcinogen and is an essential mineral for human health. In the original analysis performed by PSI, the type of Chromium within the Total Chromium values was not known. However, following a discussion with the WDNR, PSI reviewed previous analytical testing performed at the property by another consultant (Hygienetics Environmental Services, Inc.). They had tested numerous selected soil samples for the presence of Total Chromium and several of these test results were well above the NR720 BTV for Chromium. However, they also tested these samples for the presence of both Trivalent and Hexavalent Chromium. The test results indicated that the detected Total Chromium was composed entirely of Trivalent Chromium and no Hexavalent Chromium was present within these selected soil samples. A table of the Hygienetics test results is included with this letter.

As such, PSI further evaluated the analytical test results of the selected soil samples which we had collected. This evaluation indicated that when the PSI Total Chromium data is compared with the Hygienetics Chromium data, no Hexavalent Chromium is anticipated to be potentially present within the soils along the western property line of the existing Walmart property. Therefore, no migration of Chromium compounds that could be potentially hazardous to the environment and/or human health has occurred.

In conclusion, the purpose of this letter is to retract the previous notification that contamination above current WDNR NR720 RCLs and/or BTVs may have migrated onto the existing right of way of the Union Pacific Railroad property. PSI's revised table of the test results is included with this letter.

If you have any questions, please feel free to contact the undersigned at 262-521-2125.

Respectfully submitted,

**PROFESSIONAL SERVICE INDUSTRIES, INC.**



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



Larry Raether, P.E.  
Department Manager

Enclosures

cc (w/encl.): Ms. Angela Vick – Wal-Mart Stores, Inc.  
Atty. George Marek – Quarles & Brady, LLP.

**Notification of Continuing Obligations  
and Residual Contamination**  
Form 4400-286 (5/15)

**Section B: ROW Notification: Residual Contamination and/or Continuing Obligations - Non-DOT ROWs**

**KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS**

1400 Douglas Street  
Omaha, NE, 68179

Dear Mr. Fearnow:

I am providing this notification to inform you of the location and extent of contamination remaining in a right-of-way for which you are responsible, and of certain long-term responsibilities (continuing obligations) for which railroad of Union Pacific may become responsible. I investigated a release of:

unknown petroleum and RCRA metals

on 1200 Davis Avenue (Former), South Milwaukee, WI, 53172 that has shown that contamination has migrated into the right-of-way for which Union Pacific is responsible.

I have responded to the release, and will be requesting that the Department of Natural Resources (DNR) grant case closure. Closure means that the DNR will not be requiring any further investigation or cleanup action to be taken. However, continuing obligations may be imposed as a condition of closure approval.

**You have 30 days to comment on the proposed closure request:**

The DNR will not review my closure request for at least 30 days after the date of this letter. As an affected right-of-way holder, you have a right to contact the DNR to provide any technical information that you may have that indicates that closure should not be granted for this site. If you would like to submit any information to the DNR that is relevant to this closure request, you should mail that information to the DNR contact: 2300 N. Dr. Martin Luther King Jr. Drive, Milwaukee, WI, 53212, or at eric.amadi@wisconsin.gov.

**Residual Contamination:**

***Soil Contamination:***

Soil contamination remains at:

along the central portion of the western property line and near the southwest corner of the Former Midwest Tanning Corp parcel, which has been developed with a large retail facility.

The remaining contaminants include :

Chromium at concentrations of 87 and 88 mg/kg

at levels which exceed the soil standards found in ch. NR 720, Wis. Adm. Code. The following steps have been taken to address any exposure to the remaining soil contamination.

The large portion of the known impacted soil fill material in the southwestern area of the large retail property has been removed from the former Midwest Tanning Corp. property and has been covered with pavement and 2 feet of clean fill soils.

If residual soil or groundwater contamination is likely to affect water collected in a pit/trench that requires dewatering, a general permit for Discharge of Contaminated Groundwater from Remedial Action Operations may be needed. If you or any other person plan to conduct utility or building construction for which dewatering will be necessary, you or that person must contact the DNR's Water Quality Program, and if necessary, apply for the necessary discharge permit. Additional information regarding discharge permits is available at <http://dnr.wi.gov/topic/wastewater/GeneralPermits.html>.

**Continuing Obligations on the Right-of-Way (ROW) :** As part of the response actions, I am proposing that the following continuing obligations be used at the affected ROW. If my closure request is approved, you will be responsible for the following continuing obligations:

**Notification of Continuing Obligations  
and Residual Contamination**

Form 4400-286 (5/15)

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**Residual Soil Contamination:**

If soil is excavated from the areas with residual contamination, the right-of-way holder at the time of excavation will be responsible for the following:

- determine if contamination is present,
  - determine whether the material would be considered solid or hazardous waste,
  - ensure that any storage, treatment or disposal is in compliance with applicable statutes and rules.
- Contaminated soil may be managed in-place, in accordance with s. NR 718, Wis. Adm. Code, with prior Department approval.

The right-of-way holder needs to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken during excavation activities to prevent a health threat to humans from ingestion, inhalation or dermal contact.

Depending on site-specific conditions, construction over contaminated soils or groundwater may result in vapor migration of contaminants into enclosed structures or migration along newly placed underground utility lines. The potential for vapor inhalation and means of mitigation should be evaluated when planning any future redevelopment, and measures should be taken to ensure the continued protection of public health, safety, welfare and the environment at the site.

**GIS Registry and Well Construction Requirements:**

If this site is closed, all properties within the site boundaries where contamination remains, or where a continuing obligation is applied, will be listed on the Bureau for Remediation and Redevelopment Tracking System (BRRTS) on the Web, at <http://dnr.wi.gov/topic/Brownfields/clean.html>. Inclusion on this database provides public notice of remaining contamination and of any continuing obligations. Documents can be viewed on this database, and include final closure letters, site maps and any applicable maintenance plans. The location of the site may also be viewed on the Remediation and Redevelopment Sites Map (RR Sites Map), on the "GIS Registry" layer, at the same internet address listed above.

DNR approval prior to well construction or reconstruction is required for all sites included in the GIS Registry, in accordance with s. NR 812.09 (4) (w), Wis. Adm. Code. This requirement applies to private drinking water wells and high capacity wells. Special well construction standards may be necessary to protect the well from the remaining contamination. Well drillers need to first obtain approval from a regional water supply specialist in DNR's Drinking Water and Groundwater Program. The well construction application, form 3300-254, is on the internet at <http://dnr.wi.gov/topic/wells/documents/3300254.pdf>.

If you have any questions regarding this notification, I can be reached at: (262) 521-2125 ,

patrick.patterson@psiusa.com

Signature of responsible party/environmental consultant for the responsible party	Date Signed
 on behalf of Wal-Mart Stores East, LP	10-28-16

**Attachments**

**Contact Information**

**Legal Description for each Parcel:**

**Notification of Continuing Obligations****and Residual Contamination**

Form 4400-286 (5/15)

C. I. Page

**The affected property is:**

- the source property (the source of the hazardous substance discharge), but the property is not owned by the person who conducted the cleanup (a deeded property)
- a deeded property affected by contamination from the source property
- a right-of-way (ROW)
- a Department of Transportation (DOT) ROW

*Indicates if the property is affected by contamination with residual or continuing contamination.***Contact Information****Responsible Party:** The person responsible for sending this form, and for conducting the environmental investigation and cleanup is:

Responsible Party Name Wal-Mart Stores East, LP

Contact Person Last Name Vick	First Angela	MI P	Phone Number (include area code) (479) 204-2042
Address 2001 SE 10th Street	City Bentonville	State AR	ZIP Code 72716
E-mail Angie.Vick@wal-mart.com			

**Name of Party Receiving Notification:**

Business Name, if applicable: C&amp;NW Transportation/Union Pacific Railroad

Title Mr.	Last Name Fearnow	First Austin	MI	Phone Number (include area code) (402) 544-8593
Address 1400 Douglas Street	City Omaha	State NE	ZIP Code 68179	

**Site Name and Source Property Information:**

Site (Activity) Name Midwest Tanning Corp. (Former)

Address 1200 Davis Avenue (Former)	City South Milwaukee	State WI	ZIP Code 53172
DNR ID # (BRRTS#) 02-41-556117	(DATCP) ID #		

**Contacts for Questions:**

If you have any questions regarding the cleanup or about this notification, please contact the Responsible Party identified above, or contact:

**Environmental Consultant:** Professional Service Industries, Inc.

Contact Person Last Name Patterson	First Patrick	MI J	Phone Number (include area code) (262) 521-2125
Address 821 Corporate Court	City Waukesha	State WI	ZIP Code 53189
E-mail patrick.patterson@psiusa.com			

**Department Contact:**

To review the Department's case file, or for questions on cleanups or closure requirements, contact:

**Department of:** Natural Resources (DNR)

Address 2300 N. Dr. Martin Luther King Jr. Drive	City Milwaukee	State WI	ZIP Code 53212
Contact Person Last Name Amadi	First Eric	MI	Phone Number (include area code) (414) 263-8639
E-mail (Firstname.Lastname@wisconsin.gov) eric.amadi@wisconsin.gov			

# CONTAMINATION LOCATION MAP

BRRTS No. 02-41-556117  
(C & NW ROW)

Property Boundary and  
Approximate Extent of  
Engineered Cap/Barrier

Approximate Area of  
Residual Soil Contamination  
C & NW ROW



Legend:

: Approximate Extent of Soil-Impacted Above NR720 BTVs

Adapted from 2015 Google Earth Aerial Photograph

0 110 220  
Scale (feet)

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

© 2016 Google  
42°55'39.21" N 87°51'41.83" W elev 660

**A.2. SOIL ANALYTICAL RESULTS TABLE**  
**SIGMA - HYGIENETICS**  
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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	(2) Industrial	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	06/13/01	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	<b>(1,2) 5.5</b>	NA	<b>(1,2) 4.3</b>	NA	NA	NA	<b>(1,2) 3.3</b>	NA	NA	<b>(1,2) 6.5</b>	NA	<1.7	NA	<b>(1,2) 5.2</b>	<b>(1,2) 4.3</b>	NA	NA	NA	<b>(1,2) 3.3</b>	NA	<b>(1,2) 5.6</b>	NA	NA	<b>(1,2) 5.7<sup>MS</sup></b>	
Barium	mg/kg	NC	NS	NS	<b>94</b>	NA	<b>50</b>	NA	NA	NA	<b>48</b>	NA	NA	<b>96</b>	NA	<b>4.9</b>	NA	<b>46</b>	<b>19</b>	NA	NA	NA	<b>83</b>	NA	<b>33</b>	NA	NA	<b>67</b>	
Cadmium	mg/kg	NC	8.0	510	<b>0.74</b>	NA	<0.64	NA	NA	NA	<0.61	NA	NA	<0.6	NA	<0.57	NA	<0.58	<0.58	NA	NA	NA	<0.59	NA	<0.59	NA	NA	<b>0.54</b>	
Chromium, ICP	mg/kg	NC	NS	NS	<b>417</b>	NA	<b>24</b>	NA	NA	NA	<b>17</b>	NA	NA	<b>30</b>	NA	<b>4.9</b>	NA	<b>17</b>	<b>1100</b>	NA	NA	NA	NA	<b>21</b>	NA	<b>14</b>	<b>17</b>	<b>22</b>	
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	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	<5.8	<6.4	<5.9	<5.8	<5.6	NA	<5.8	<5.6	NA	NA	
Lead	mg/kg	NC	50	500	<b>26</b>	NA	<b>9.1</b>	NA	NA	NA	<b>7.4</b>	NA	NA	<b>12</b>	NA	<4.6	NA	<b>8.4</b>	<b>6.7</b>	NA	NA	NA	<b>9.4</b>	NA	<b>8.5</b>	NA	NA	<b>11</b>	
Mercury	mg/kg	NC	NS	NS	<b>0.061</b>	NA	<0.051	NA	NA	NA	<0.049	NA	NA	<0.048	NA	<0.046 <sup>MS</sup>	NA	<0.046	<b>0.068</b>	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	<1.7	NA	<1.7	NA	<1.7	NA	NA	NA	NA	<1.8	NA	<1.8	NA	NA	<1.7 <sup>M+</sup>	
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	NA	NA	NA	NA	<2.4	NA	<2.3	NA	NA	<b>2.3</b>	
INORGANICS		SSL (GW)	SSL (D.C.-R)																										
pH, Non-Aqueous	units	NS	NS		NA	<b>8.77</b>	NA	<b>7.96</b>	<b>8.92</b>	<b>9.79</b>	NA	<b>9.14</b>	<b>8.67</b>	NA	<b>8.54</b>	NA	<b>9.28</b>	NA	NA	<b>8.48</b>	<b>8.53</b>	<b>8.45</b>	<b>8.38</b>	<b>8.82</b>	NA	<b>8.51</b>	NA	<b>8.02</b>	<b>8.09</b>
Sulfide, total	mg/kg	NS	NS		NA	<11 <sup>S</sup>	NA	<13 <sup>S</sup>	<12 <sup>S</sup>	<12 <sup>S</sup>	NA	<12 <sup>S</sup>	<11 <sup>S</sup>	NA	<11 <sup>S</sup>	NA	<11 <sup>S</sup>	NA	<12 <sup>S</sup>	<13 <sup>S</sup>	<12 <sup>S</sup>	<12 <sup>S</sup>	<11 <sup>S</sup>	NA	<12 <sup>S</sup>	NA	<23.1 <sup>S</sup>	<22.4 <sup>S</sup>	
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	
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	<300	NA	NA	NA	<290	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	<300	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	<300	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 Parameters 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 Parameters 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 analytes)

**A.2. SOIL ANALYTICAL RESULTS TABLE**  
**SIGMA - HYGIENETICS**  
 (page 2 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		
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	07/18/01	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	(1,2) 6.0	NA	(1,2) 8.5	(1,2) 5.0	NA	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	87	NA	175	60	NA	NA	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	<0.6	NA	0.85	<0.57	NA	NA	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	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	NA	<5.9	NA	<5.8	NA	<5.6	<5.8	<5.8	<6.1	<5.7	<6.0	<5.7	<6.2		
Lead	mg/kg	NC	50	500	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	NA
Mercury	mg/kg	NC	NS	NS	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	NA	NA
Selenium	mg/kg	NC	NS	NS	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	NA	NA
Silver	mg/kg	NC	NS	NS	NA	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
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 <sup>s</sup>	<23.5 <sup>s</sup>	50.6 <sup>b</sup>	<23.9 <sup>s</sup>	<24 <sup>s</sup>	<22.9 <sup>s</sup>	<23.2 <sup>s</sup>	134 <sup>b</sup>	<22.9 <sup>s</sup>	<23.9 <sup>s</sup>	<24.9 <sup>s</sup>	<23.5 <sup>s</sup>	<24.8 <sup>s</sup>	NA	<23.2 <sup>s</sup>	NA	NA	<22.3 <sup>s</sup>	<23.3 <sup>s</sup>	<23 <sup>s</sup>	<24.4 <sup>s</sup>	<22.8 <sup>s</sup>	<24 <sup>s</sup>	<22.7 <sup>s</sup>	<22.9 <sup>s</sup>	<24.9 <sup>s</sup>
N-Ammonia	mg/kg	NS	10,900,000		NA	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
SEMIVOLATILE ORGANIC COMPOUNDS			Suggested Generic RCLs for PAHs in Soil (for PAHs) OR SSLs (other SVOCs)																											
Fluorene	µg/kg	100,000	600,000	40,000,000	NA	NA	NA	NA	NA	<287 <sup>MS</sup>	NA	NA	NA	NA	NA	NA	<298	NA	632	<284	NA	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	<298	NA	(3) 753	<284	NA	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	<298	NA	1340	<284	NA	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 Parameters 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 Parameters 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 analytes)

**A.2. SOIL ANALYTICAL RESULTS TABLE**  
**SIGMA - HYGIENETICS**  
 (page 3 of 4)

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 (2) Table 1	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		
				µg/kg	NC	NC	NS	NA	NA	<b>19</b>	NA	NA	NA	<6.1	NA	NA	<6.0	NA	<5.7	NA	<5.8	NA	NA	NA	NA	NA	<5.9	NA	<5.9
n-Butylbenzene	µg/kg	NC	NC	NS	NA	NA	<b>10</b>	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	<5.7
sec-Butylbenzene	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	<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	<5.7
p-Isopropyltoluene	µg/kg	NC	NC	NS	NA	NA	<b>13</b>	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	<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	<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	<5.7
1,2,4-Trimethylbenzene	µg/kg	7,449	33,700	83,000	NA	NA	<b>43</b>	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	<5.7

Notes:

SSL (GW) = Soil Screening Level for the groundwater pathway calculated using EPA Soil Screening Level Web site using Wisconsin Default Parameters 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 Parameters 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	07/18/01	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	
		µg/kg	NC	NC	NS	NA	NA	NA	NA	<5.7	<5.8	NA	NA	NA	NA	NA	NA	<6.0	NA	<b>1610</b>	<5.7	NA	NA	NA	NA	NA	NA	NA
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	<b>1750</b>	<5.7	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	<b>188</b>	<5.7	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	<b>726</b>	<5.7	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	<b>148</b>	<17	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	<b>444</b>	<5.7	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	<b>2420</b>	<5.7	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	<b>6.8</b>	NA	NA	NA	NA	NA	NA	<6.0	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 Parameters 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 Parameters 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	SP-27	SP-28	SP-29	SP-30	NR 720			NR 720
		1' - 2' 3/15/11	1' - 2' 3/15/11	1' - 2' 3/15/11	1' - 4' 3/14/11	1' - 4' 3/14/11	DC-I	RCL	DC-NI	
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	---	---	---	---
<b>Detected VOCs</b>										
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		---
<b>PAHs</b>										
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	---
<b>RCRA Metals</b>										
Arsenic	mg/kg	<b>6.8</b>	(8.5)	<b>3.9</b>	<b>5.0</b>	<b>7.8</b>	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	SP-32	SP-33	SP-34	SP-35	SP-36	NR 720			NR 720
		0' - 4' 3/14/11	0' - 4' 3/14/11	0' - 4' 3/14/11	0' - 4' 3/14/11	0' - 4' 3/15/11	0' - 4' 3/15/11	DC-I	RCL	DC-NI	
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	---	---	---	---
<b>Detected VOCs</b>											
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		---
<b>PAHs</b>											
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	---
<b>RCRA Metals</b>											
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 Hygenetics 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	SP-38	SP-39	SP-40	SP-41	SP-42	NR 720			NR 720
		3' - 5' 3/14/11	7.5' - 10' 3/14/11	3' - 5' 3/14/11	3' - 5' 3/15/11	3' - 5' 3/15/11	3' - 5' 3/15/11	DC-I	RCL	DC-NI	
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	---	---	---	---
<b>Detected VOCs</b>											
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		---
<b>PAHs</b>											
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	---
<b>RCRA Metals</b>											
Arsenic	mg/kg	<b>5.8</b>	<b>4.6</b>	<b>5.4</b>	<b>(8.5)</b>	<b>5.1</b>	0.42J	<b>3</b>	<b>0.677</b>	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
- Bold 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			NR 720
		DC-I	DC-NI	GW	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	---	---	---	---
<b>Detected VOCs</b>										
n-Butylbenzene	ug/kg	<40.4	<40.4	<40.4	<40.4	<40.4	<b>108,000</b>	<b>108,000</b>	---	---
sec-Butylbenzene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<b>145,000</b>	<b>145,000</b>	---	---
tert-Butylbenzene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<b>183,000</b>	<b>183,000</b>	---	---
1,2-Dichlorobenzene	ug/kg	<44.4	<44.4	<44.4	<44.4	<44.4	<b>376,000</b>	<b>376,000</b>	1,168	---
Isopropylbenzene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<b>268,000</b>	<b>268,000</b>	---	---
p-Isopropyltoluene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<b>162,000</b>	<b>162,000</b>	---	---
Naphthalene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<b>24,100</b>	<b>5,520</b>	658.2	---
n-Propylbenzene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<b>264,000</b>	<b>264,000</b>	---	---
1,2,4-Trimethylbenzene	ug/kg	<25.0	<25.0	36.2J	<25.0	<25.0	<b>219,000</b>	<b>219,000</b>	1,382.1	---
1,3,5-Trimethylbenzene	ug/kg	<25.0	<25.0	36.2J	<25.0	<25.0	<b>182,000</b>	<b>182,000</b>		---
Total Xylenes	ug/kg	<50.0	<50.0	30.3J	<50.0	<50.0	<b>260,000</b>	<b>260,000</b>	3,960	---
Tetrachloroethene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<b>145,000</b>	<b>33,000</b>	4.5	---
1,1,1-Trichloroethane	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<b>640,000</b>	<b>640,000</b>	140.2	---
<b>PAHs</b>										
Acenaphthene	ug/kg	<2.8	<2.9	6.1J	<2.9	<5.3	<b>45,200,000</b>	<b>3,590,000</b>	---	---
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	<b>100,000,000</b>	<b>17,900,000</b>	196,949.2	---
Benzo(a)anthracene	ug/kg	<2.9	4.0J	31.6	<2.9	<5.4	<b>20,800</b>	<b>1,140</b>	---	---
Benzo(a)pyrene	ug/kg	<3.3	4.2J	32.3	<3.4	<6.2	<b>2,110</b>	<b>115</b>	470	---
Benzo(b)fluoranthene	ug/kg	<3.5	6.5J	48.8	<3.6	<6.6	<b>21,100</b>	<b>1,150</b>	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	<b>211,000</b>	<b>11,500</b>	---	---
Chrysene	ug/kg	<3.7	6.8J	56.8	<3.8	<6.9	<b>2,110,000</b>	<b>115,000</b>	144.6	---
Dibenz(a,h)anthracene	ug/kg	<5.5	<5.5	9.0J	<5.6	<10.4	<b>2110</b>	<b>115</b>	---	---
Fluoranthene	ug/kg	<10.1	12.8J	72.7	<10.4	<19	<b>30,100,000</b>	<b>2,390,000</b>	88,877.8	---
Fluorene	ug/kg	<5.0	<5.0	7.0J	<5.2	<9.5	<b>30,100,000</b>	<b>2,390,000</b>	14,829.9	---
Indeno(1,2,3-cd)pyrene	ug/kg	<2.9	<2.9	20.6	<2.9	<5.4	<b>21,100</b>	<b>1,150</b>	---	---
1-Methylnaphthalene	ug/kg	<3.1	3.7J	93.9	<3.2	<5.8	<b>72,700</b>	<b>17,600</b>	---	---
2-Methylnaphthalene	ug/kg	<3.1	3.8J	113	<3.2	9.7J	<b>3,010,000</b>	<b>239,000</b>	---	---
Naphthalene	ug/kg	<3.5	8.6J	78.8	<3.6	16.5J	<b>24,100</b>	<b>5,520</b>	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	<b>22,600,000</b>	<b>1,790,000</b>	54,545.2	---
<b>RCRA Metals</b>										
Arsenic	mg/kg	<b>7.5</b>	<b>7.1</b>	<b>5.6</b>	<b>4.6</b>	(9.7)	<b>3</b>	<b>0.677</b>	<b>0.584</b>	(8)
Barium	mg/kg	68.8	40.3	84	51.6	63.1	<b>100,000</b>	<b>15,300</b>	164.8	(364)
Cadmium	mg/kg	<0.034	0.22J	0.23J	0.29J	0.18J	<b>985</b>	<b>71.1</b>	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	<b>100,000</b>	<b>100,000</b>	---	---
Chromium, Hexavalent	mg/kg	d	d	d	d	d	<b>6.36</b>	<b>0.301</b>	---	---
Lead	mg/kg	13.5	7.8	41.4	7.8	13	<b>800</b>	<b>400</b>	27	(52)
Mercury	mg/kg	0.049	0.020	0.025	0.015	0.017	<b>3.13</b>	<b>3.13</b>	0.208	---
Selenium	mg/kg	<b>4.3</b>	<0.52	1.1J	<0.55	<0.48	<b>5,840</b>	<b>391</b>	0.52	---
Silver	mg/kg	<0.24	<0.24	<0.24	<0.25	<0.22	<b>5,840</b>	<b>391</b>	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

Bboxed 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 millior

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 Hygienes 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	SP-7	SP-8	SP-9	SP-10	NR 720			NR 720
		0' - 4' 3/19/12	0' - 4' 3/23/12	0' - 5' 3/19/12	0' - 4' 3/22/12	2' - 4' 3/22/12	DC-I	RCL DC-NI	GW	
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	---	---	---	---
<b>Detected VOCs</b>										
n-Butylbenzene	ug/kg	<40.4	<40.4	<40.4	<40.4	<40.4	<b>108,000</b>	<b>108,000</b>	---	---
sec-Butylbenzene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<b>145,000</b>	<b>145,000</b>	---	---
tert-Butylbenzene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<b>183,000</b>	<b>183,000</b>	---	---
1,2-Dichlorobenzene	ug/kg	<44.4	<44.4	<44.4	<44.4	<44.4	<b>376,000</b>	<b>376,000</b>	1,168	---
Isopropylbenzene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<b>268,000</b>	<b>268,000</b>	---	---
p-Isopropyltoluene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<b>162,000</b>	<b>162,000</b>	---	---
Naphthalene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<b>24,100</b>	<b>5,520</b>	658.2	---
n-Propylbenzene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<b>264,000</b>	<b>264,000</b>	---	---
1,2,4-Trimethylbenzene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<b>219,000</b>	<b>219,000</b>	1,382.1	---
1,3,5-Trimethylbenzene	ug/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<b>182,000</b>	<b>182,000</b>		---
Total Xylenes	ug/kg	<50.0	<50.0	<50.0	<50.0	<50.0	<b>260,000</b>	<b>260,000</b>	3,960	---
Tetrachloroethene	ug/kg	<25.0	1,080	<25.0	<25.0	<25.0	<b>145,000</b>	<b>33,000</b>	4.5	---
1,1,1-Trichloroethane	ug/kg	<25.0	73.6	<25.0	<25.0	<25.0	<b>640,000</b>	<b>640,000</b>	140.2	---
<b>PAHs</b>										
Acenaphthene	ug/kg	255	<2.9	<2.8	<2.8	<2.9	<b>45,200,000</b>	<b>3,590,000</b>	---	---
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	<b>100,000,000</b>	<b>17,900,000</b>	196,949.2	---
Benzo(a)anthracene	ug/kg	<2.7	4.7J	<2.9	<2.9	<3	<b>20,800</b>	<b>1,140</b>	---	---
Benzo(a)pyrene	ug/kg	<3.2	<3.3	<3.3	<3.3	<3.4	<b>2,110</b>	<b>115</b>	470	---
Benzo(b)fluoranthene	ug/kg	<3.3	5.5J	<3.5	<3.5	<3.6	<b>21,100</b>	<b>1,150</b>	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	<b>211,000</b>	<b>11,500</b>	---	---
Chrysene	ug/kg	4.5J	5.5J	<3.7	<3.6	<3.8	<b>2,110,000</b>	<b>115,000</b>	144.6	---
Dibenz(a,h)anthracene	ug/kg	<5.2	<5.5	<5.5	<5.5	<5.7	<b>2110</b>	<b>115</b>	---	---
Fluoranthene	ug/kg	27.8	<10.1	<10.1	<10.1	<10.4	<b>30,100,000</b>	<b>2,390,000</b>	88,877.8	---
Fluorene	ug/kg	325	<5.0	<5	<5	<5.2	<b>30,100,000</b>	<b>2,390,000</b>	14,829.9	---
Indeno(1,2,3-cd)pyrene	ug/kg	<2.7	<2.9	<2.9	<2.9	<3	<b>21,100</b>	<b>1,150</b>	---	---
1-Methylnaphthalene	ug/kg	546	4.2J	4.3J	<3.1	<3.2	<b>72,700</b>	<b>17,600</b>	---	---
2-Methylnaphthalene	ug/kg	7.5J	3.8J	4.5J	<3.1	2.39	<b>3,010,000</b>	<b>239,000</b>	---	---
Naphthalene	ug/kg	54.7	5.3J	4.5J	<3.5	<3.6	<b>24,100</b>	<b>5,520</b>	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	<b>22,600,000</b>	<b>1,790,000</b>	54,545.2	---
<b>RCRA Metals</b>										
Arsenic	mg/kg	<b>5.1</b>	<b>6.1</b>	<b>7.9</b>	<b>7.6</b>	(8.4)	<b>3</b>	<b>0.677</b>	<b>0.584</b>	(8)
Barium	mg/kg	48.7	52.7	75.3	69	67.7	<b>100,000</b>	<b>15,300</b>	164.8	(364)
Cadmium	mg/kg	0.24J	0.28J	0.23J	0.12J	0.34J	<b>985</b>	<b>71.1</b>	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	<b>100,000</b>	<b>100,000</b>	---	---
Chromium, Hexavalent	mg/kg	d	d	d	d	d	<b>6.36</b>	<b>0.301</b>	---	---
Lead	mg/kg	7.9	17.4	17.6	15.1	16.1	<b>800</b>	<b>400</b>	27	(52)
Mercury	mg/kg	0.013	0.028	0.033	0.024	0.039	<b>3.13</b>	<b>3.13</b>	0.208	---
Selenium	mg/kg	<0.50	<0.55	<0.52	<0.58	<0.55	<b>5,840</b>	<b>391</b>	0.52	---
Silver	mg/kg	<0.23	<0.25	<0.24	<0.27	<0.25	<b>5,840</b>	<b>391</b>	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

Bboxed 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 millior

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 Hygienes 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			NR 720
		DC-I	DC-NI	GW	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	---	---	---	---
<b>Detected VOCs</b>										
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	---
<b>PAHs</b>										
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	---
<b>RCRA Metals</b>										
Arsenic	mg/kg	<b>7.4</b>	<b>7.9</b>	(8.4)	<b>5.4</b>	<b>4.2</b>	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 Hygenetics 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			NR 720
		DC-I	DC-NI	GW	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	---	---	---	---
<b>Detected VOCs</b>										
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	---
<b>PAHs</b>										
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	---
<b>RCRA Metals</b>										
Arsenic	mg/kg	<b>3.0</b>	<b>7.5</b>	<b>5.6</b>	<b>6.4</b>	<b>(9.2)</b>	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 Hygenetics 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			NR 720 BTM	
		DC-I	DC-NI	GW							
saturated/unsaturated		u	u	u	u	u					
PID	i.u.	---	---	---	---	---	---	---	---	---	
DRO	mg/kg	8.7	234	3.3	66.1	2.7	---	---	---	---	
<b>Detected VOCs</b>											
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	---	
<b>PAHs</b>											
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	---	
Benz(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	---	
<b>RCRA Metals</b>											
Arsenic	mg/kg	<b>5.1</b>	<b>4.2</b>	<b>6.0</b>	<b>5.5</b>	<b>7.9</b>	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	<0.45	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

BTM - 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: BTM 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	SSW-2	SSW-3	SSW-4	WSW	NR 720			NR 720 BTV
		2' - 3' 7/18/12	DC-I	RCL DC-NI	GW					
saturated/unsaturated		u	u	u	u	u				
PID	i.u.	---	---	---	---	---	---	---	---	---
DRO	mg/kg	1.7J	1.6J	4.6	<3.0	<3.0	---	---	---	---
<b>No VOCs detected in these samples</b>										
<b>PAHs</b>										
Acenaphthene	ug/kg	<2.7	<2.7	<2.7	<2.7	10.7J	<b>45,200,000</b>	<b>3,590,000</b>	---	---
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	<b>100,000,000</b>	<b>17,900,000</b>	196,949.2	---
Benzo(a)anthracene	ug/kg	<2.7	<2.7	44.2	<2.7	<2.7	<b>20,800</b>	<b>1,140</b>	---	---
Benzo(a)pyrene	ug/kg	<3.1	<3.1	56.2	<3.1	<3.1	<b>2,110</b>	<b>115</b>	470	---
Benzo(b)fluoranthene	ug/kg	<3.3	<3.3	44.4	<3.3	<3.3	<b>21,100</b>	<b>1,150</b>	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	<b>211,000</b>	<b>11,500</b>	---	---
Chrysene	ug/kg	<3.5	<3.5	51.8	2.4J	<3.5	<b>2,110,000</b>	<b>115,000</b>	144.6	---
Dibenz(a,h)anthracene	ug/kg	<5.2	<5.2	<5.3	<5.2	<5.2	<b>2110</b>	<b>115</b>	---	---
Fluoranthene	ug/kg	<9.5	<9.5	78.8	<9.5	<9.5	<b>30,100,000</b>	<b>2,390,000</b>	88,877.8	---
Fluorene	ug/kg	<4.7	<4.7	<4.8	<4.7	16.6J	<b>30,100,000</b>	<b>2,390,000</b>	14,829.9	---
Indeno(1,2,3-cd)pyrene	ug/kg	<2.7	<2.7	31.6	<2.7	<2.8	<b>21,100</b>	<b>1,150</b>	---	---
1-Methylnaphthalene	ug/kg	<2.9	<2.9	<2.2	<2.9	113	<b>72,700</b>	<b>17,600</b>	---	---
2-Methylnaphthalene	ug/kg	<2.9	<2.9	4.7J	4.0J	191	<b>3,010,000</b>	<b>239,000</b>	---	---
Naphthalene	ug/kg	<3.3	<3.3	5.3J	4.8J	43.0	<b>24,100</b>	<b>5,520</b>	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	<b>22,600,000</b>	<b>1,790,000</b>	54,545.2	---
<b>RCRA Metals</b>										
Arsenic	mg/kg	<b>5.2</b>	<b>4.6</b>	<b>4.4</b>	(8.1)	<b>7.5</b>	3	<b>0.677</b>	0.584	(8)
Barium	mg/kg	44.3	46.3	43.9	85.3	96.2	<b>100,000</b>	<b>15,300</b>	164.8	(364)
Cadmium	mg/kg	0.050J	0.12J	0.070J	0.089J	0.096J	<b>985</b>	<b>71.1</b>	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	<b>100,000</b>	<b>100,000</b>	---	---
Hexavalent Chromium	mg/kg	d	d	d	d	d	<b>6.36</b>	<b>0.301</b>	---	---
Lead	mg/kg	6.4	7.0	6.9	14.4	13.4	<b>800</b>	<b>400</b>	27	(52)
Mercury	mg/kg	0.013	0.0096	0.019	0.055	0.076	<b>3.13</b>	<b>3.13</b>	0.208	---
Selenium	mg/kg	<0.45	<0.45	<0.45	<0.45	<0.45	<b>5,840</b>	<b>391</b>	0.52	---
Silver	mg/kg	<0.25	<0.25	<0.26	<0.25	<0.26	<b>5,840</b>	<b>391</b>	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			NR 720 BTW
		DC-I	RCL DC-NI	GW						
saturated/unsaturated	u	u	u	u	u					
PID	i.u.	---	---	---	---	---	---	---	---	---
DRO	mg/kg	81.5	2.0	15.7	3.7	1.5J	---	---	---	---
<b>No VOCs detected in these samples</b>										
<b>PAHs</b>										
Acenaphthene	ug/kg	<2.7	<2.7	<2.8	<2.7	<2.7	<b>45,200,000</b>	<b>3,590,000</b>	---	---
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	<b>100,000,000</b>	<b>17,900,000</b>	196,949.2	---
Benzo(a)anthracene	ug/kg	<2.7	<2.7	<2.8	<2.7	<2.7	<b>20,800</b>	<b>1,140</b>	---	---
Benzo(a)pyrene	ug/kg	<3.1	<3.1	<3.1	<3.1	<3.1	<b>2,110</b>	<b>115</b>	470	---
Benzo(b)fluoranthene	ug/kg	<3.3	<3.3	<3.3	<3.3	<3.3	<b>21,100</b>	<b>1,150</b>	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	<b>211,000</b>	<b>11,500</b>	---	---
Chrysene	ug/kg	2.7J	<3.5	3.3J	<3.5	<3.5	<b>2,110,000</b>	<b>115,000</b>	144.6	---
Dibenz(a,h)anthracene	ug/kg	<5.2	<5.2	<5.3	<5.2	<5.2	<b>2110</b>	<b>115</b>	---	---
Fluoranthene	ug/kg	<9.5	<9.5	<9.6	<9.5	<9.5	<b>30,100,000</b>	<b>2,390,000</b>	88,877.8	---
Fluorene	ug/kg	<4.7	<4.7	<4.8	<4.7	<4.7	<b>30,100,000</b>	<b>2,390,000</b>	14,829.9	---
Indeno(1,2,3-cd)pyrene	ug/kg	<2.7	<2.7	<2.7	<2.7	<2.7	<b>21,100</b>	<b>1,150</b>	---	---
1-Methylnaphthalene	ug/kg	<2.9	<2.9	<2.9	<2.9	60.0	<b>72,700</b>	<b>17,600</b>	---	---
2-Methylnaphthalene	ug/kg	<2.9	<2.9	<2.9	<2.9	84.8	<b>3,010,000</b>	<b>239,000</b>	---	---
Naphthalene	ug/kg	<3.3	<3.3	<3.4	<3.3	16.8J	<b>24,100</b>	<b>5,520</b>	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	<b>22,600,000</b>	<b>1,790,000</b>	54,545.2	---
<b>RCRA Metals</b>										
Arsenic	mg/kg	<b>5.2</b>	<b>4.3</b>	<b>5.5</b>	<b>5.7</b>	<b>3.5</b>	3	0.677	0.584	(8)
Barium	mg/kg	38.3	88.2	36.6	33.6	46.9	<b>100,000</b>	<b>15,300</b>	164.8	(364)
Cadmium	mg/kg	0.20J	0.12J	0.10J	0.13J	0.035J	<b>985</b>	<b>71.1</b>	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	<b>100,000</b>	<b>100,000</b>	---	---
Hexavalent Chromium	mg/kg	d	d	d	d	d	<b>6.36</b>	<b>0.301</b>	---	---
Lead	mg/kg	6.7	7.0	6.9	8.6	4.9	<b>800</b>	<b>400</b>	27	(52)
Mercury	mg/kg	0.0046J	0.013	0.0086	0.012	0.012	<b>3.13</b>	<b>3.13</b>	0.208	---
Selenium	mg/kg	<0.45	<0.45	<0.45	<0.45	<0.45	<b>5,840</b>	<b>391</b>	0.52	---
Silver	mg/kg	<0.25	0.25J	<0.25	<0.25	<0.25	<b>5,840</b>	<b>391</b>	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

BTW - 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: BTW 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	VWSW 10' - 12' 7/18/12	VBASE 15' 7/18/12	NR 720			NR 720 BTM
		DC-I	DC-NI	GW						
saturated/unsaturated		u	u	u	u	u				
PID	i.u.	---	---	---	---	---	---	---	---	---
DRO	mg/kg	3.5	5.8	5.7	1.7	4.6	---	---	---	---
<b>Detected VOCs</b>										
Benzene	ug/kg	<25	<25	28.8J	<25	<25	7,070	1,600	5.1	---
<b>PAHs</b>										
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	---
<b>RCRA Metals</b>										
Arsenic	mg/kg	<b>3.7</b>	<b>4.5</b>	<b>4.6</b>	<b>3.9</b>	<b>4.6</b>	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)
Triivalent 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

BTM - 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: BTM 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	ESP-17	WSP-17	SSP-17	BSP-17	NR 720			NR 720
		6' - 7' 7/23/12	6' - 7' 7/23/12	6' - 7' 7/23/12	6' - 7' 7/23/12	10' 7/23/12	DC-I	RCL DC-NI	GW	BTM
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	---	---	---	---
<b>No VOCs detected in these samples</b>										
<b>PAHs</b>										
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	---
<b>RCRA Metals</b>										
Arsenic	mg/kg	<b>7.2</b>	<b>7.5</b>	<b>6.5</b>	<b>6.3</b>	<b>6.8</b>	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

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

BTM - 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: BTM 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