

## Notification For Hazardous Substance Discharge (Non-Emergency Only)

Form 4400-225 (R 06/17)

Page 1 of 3

**Emergency Discharges / Spills should be reported via the 24-Hour Hotline: 1-800-943-0003**

**Notice: Hazardous substance discharges must be reported immediately** according to s. 292.11 Wis. Stats. Non-emergency hazardous substance discharges may be reported by telefaxing or e-mailing a completed report to the Department, or calling or visiting a Department office in person. If you choose to notify the Department by telefax or by email, you should use this form to be sure that all necessary information is included. However, use of this form is not mandatory. Under s. 292.99, Wis. Stats., the penalty for violating the reporting requirements of ch. 292 Wis. Stats., shall be no less than \$10 nor more than \$5000 for each violation. Each day of continued violation is a separate offense. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than program administration. However, information submitted on this form may also be made available to requesters under Wisconsin's Open Records Law (ss. 19.31 – 19.39, Wis. Stats.).

Confirmatory laboratory data should be included with this form, to assist the DNR in processing this Hazardous Substance Release Notification.

Complete this form. **TYPE or PRINT LEGIBLY.** NOTIFY appropriate DNR region (see next page) **IMMEDIATELY** upon discovery of a potential release from (**check one**):

- Underground Petroleum Storage Tank System (additional information may be required for Item 6 below)
- Aboveground Petroleum Storage Tank System
- Dry Cleaner Facility
- Other - Describe: \_\_\_\_\_

02-41-580667

ATTN DNR: **R & R Program Associate** Date DNR Notified: 11/28/2017

1. Discharge Reported By		
Name Timothy E. Wimmer, P.G.	Firm The Sigma Group, Inc.	Phone Number (include area code) (414) 643-4139
Mailing Address 1300 W. Canal Street, Milwaukee, WI 53233		Email twimmer@thesigmagroup.com

2. Site Information
Name of site at which discharge occurred. Include local name of site/business, not responsible party name, unless a residence/vacant property. Former Dry Cleaners Site
Location: Include street address, <u>not PO Box</u> . If no street address, describe as precisely as possible, i.e., 1/4 mile NW of CTHs 60 & 123 on E side of CTH 60. 2311 S. 108th Street
Municipality: (City, Village, Township) Specify municipality in which the site is located, not mailing address/city. West Allis <span style="color: blue;">53227</span>
County: Milwaukee      Legal Description: $\frac{1}{4}$ of $\frac{1}{4}$ Section _____, Town _____, Range _____, <input type="radio"/> E <input type="radio"/> W      WTM: X      Y

3. Responsible Party (RP) and/or RP Representative
--

Responsible Party Name: Business or owner name that is responsible for cleanup. If more than one, list all. Attach additional pages as necessary.  
 Paralyzed Veterans of America

A local governmental unit claiming an exemption from state Spill Law and Solid Waste Management responsibilities for the discharge being reported, per Wis. Stat. §§ 292.11(9)(e) and 292.23, should: 1) check this box; 2) review [DNR publication RR-055](#); and 3) provide documentation to DNR that demonstrates compliance with the statutory requirements of the liability exemptions. Local governmental units may also request a fee-based liability clarification letter from DNR by using [DNR Form 4400-237](#).

Contact Person Name (if different) Scott E. Griffith	Phone Number (414) 328-8910	Email sgriffith@wisconsinpva.org		
Mailing Address 2311 S. 108th Street		City West Allis	State WI	ZIP Code 53227

Responsible Party Name: Business or owner name that is responsible for cleanup. If more than one, list all. Attach additional pages as necessary.

Contact Person Name (if different)	Phone Number	Email		
Mailing Address		City	State	ZIP Code

(continued)

## Notification For Hazardous Substance Discharge (Non-Emergency Only)

Timothy E. Wimmer, P.G. The Sigma Group, Inc.

Form 4400-225 (R 06/17)

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### 4. Hazardous Substance Information

Identify hazardous substance discharged (check all that apply):

- |   |  |   |
|---|--|---|
| <input checked="" type="checkbox"/> VOCs<br><input checked="" type="checkbox"/> PCE<br><input checked="" type="checkbox"/> TCE<br><input checked="" type="checkbox"/> Other Chlorinated<br><input type="checkbox"/> Diesel<br><input type="checkbox"/> Fuel Oil<br><input type="checkbox"/> Gasoline<br><input type="checkbox"/> Hydraulic Oil<br><input type="checkbox"/> Jet Fuel | <i>(VOCs continued)</i><br><input type="checkbox"/> Mineral Oil<br><input type="checkbox"/> Waste Oil<br><input type="checkbox"/> Petroleum-Unknown Type<br><input type="checkbox"/> PAHs<br><input type="checkbox"/> PCBs<br><input type="checkbox"/> Cyanide<br><input type="checkbox"/> Leachate<br><input type="checkbox"/> Manure | <input type="checkbox"/> Metals<br><input type="checkbox"/> Arsenic<br><input type="checkbox"/> Chromium<br><input type="checkbox"/> Lead<br><input type="checkbox"/> Other: _____<br><input type="checkbox"/> Pesticides: _____<br><input type="checkbox"/> Fertilizer: _____<br><input type="checkbox"/> RCRA Hazardous Waste: _____<br><input type="checkbox"/> Other: _____<br><input type="checkbox"/> Unknown |
|---|--|---|

### 5. Impacts to the Environment Information

Enter "K" for known/confirmed or "P" for potential for all that apply.

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Air Contamination                       | <input type="checkbox"/> Fire Explosion Threat                | <input checked="" type="checkbox"/> Soil Contamination |
| <input type="checkbox"/> Co-mingled (Petroleum & Non-Petroleum)  | <input type="checkbox"/> Free Product                         | <input type="checkbox"/> Soil Gas Contamination        |
| <input type="checkbox"/> Contamination in Fractured Bedrock      | <input checked="" type="checkbox"/> Groundwater Contamination | <input type="checkbox"/> Sub-slab Vapor Contamination  |
| <input type="checkbox"/> Contamination Within 1 Meter of Bedrock | <input type="checkbox"/> Off-Site Contamination               | <input type="checkbox"/> Surface Water Contamination   |
| <input type="checkbox"/> Contaminated Private Well               | <input type="checkbox"/> Sanitary Sewer Contamination         | <input type="checkbox"/> Within 100 ft of Private Well |
| <input type="checkbox"/> Contaminated Public Well                | <input type="checkbox"/> Storm Sewer Contamination            | <input type="checkbox"/> Within 1000 ft of Public Well |
| <input type="checkbox"/> Contamination in Right of Way           | <input type="checkbox"/> Sediment Contamination               |  |
|  | Other (specify): _____  |  |

Contamination was discovered as a result of:

- |   |  |  |
|---|--|--|
| <input checked="" type="checkbox"/> Tank closure assessment | <input type="checkbox"/> Site assessment | <input type="checkbox"/> Other - Describe: _____ |
| Date <input type="text" value="11/14/2017"/>                | Date <input type="text"/>                | Date <input type="text"/>                        |

Lab results:  Lab results will be faxed upon receipt  Lab results are attached

Additional Comments: Include a brief description of immediate actions taken to halt the release and contain or cleanup hazardous substances that have been discharged.

Report with results attached.

### 6. Federal Energy Act Requirements (Section 9002(d) of the Solid Waste Disposal Act (SWDA))

Source	Cause
For all confirmed releases from USTs occurring after 9/30/2007 please provide the following information:  <input type="checkbox"/> Tank <input type="checkbox"/> Piping <input type="checkbox"/> Dispenser <input type="checkbox"/> Submersible Turbine Pump <input type="checkbox"/> Delivery Problem  <input checked="" type="checkbox"/> Does not apply. <input type="checkbox"/> Other (specify): _____	<input type="checkbox"/> Spill <input type="checkbox"/> Overfill <input type="checkbox"/> Corrosion <input type="checkbox"/> Physical or Mechanical Damage <input type="checkbox"/> Installation Problem <input type="checkbox"/> Other (does not fit any of above) <input type="checkbox"/> Unknown

Contact information to report non-emergency releases in DNR's five regions are as follows:

**Northeast Region (FAX: 920-662-5413); Attention -- R&R Program Associate: DNRRRNER@wisconsin.gov**

Brown, Calumet, Door, Fond du Lac (except City of Waupun - see South Central Region), Green Lake, Kewaunee, Manitowoc, Marinette, Marquette, Menominee, Oconto, Outagamie, Shawano, Sheboygan, Waupaca, Waushara, Winnebago counties

**Northern Region (FAX: 715-623-6773); Attention -- R&R Program Associate: DNRRRNOR@wisconsin.gov**

Ashland, Barron, Bayfield, Burnett, Douglas, Forest, Florence, Iron, Langlade, Lincoln, Oneida, Polk, Price, Rusk, Sawyer, Taylor, Vilas, Washburn counties

**South Central Region (FAX: 608-273-5610); Attention -- R&R Program Associate: DNRRRSCR@wisconsin.gov**

Columbia, Dane, Dodge, Fond du Lac (City of Waupun only), Grant, Green, Iowa, Jefferson, Lafayette, Richland, Rock, Sauk, Walworth counties

**Southeast Region (FAX: 414-263-8550); Attention -- R&R Program Associate: DNRRRSER@wisconsin.gov**

Kenosha, Milwaukee, Ozaukee, Racine, Washington, Waukesha counties

**LETTER OF TRANSMITTAL**

To: **Mr. Chue Yee Yang**

Wisconsin Department of Natural Resources  
 2300 N. Dr. Martin Luther King, Jr. Drive  
 Milwaukee, WI 53212-3128

From: **Timothy E. Wimmer, P.G.**

The Sigma Group, Inc.  
 1300 W. Canal Street  
 Milwaukee, WI 53233

Please check the type(s) of documents you have enclosed. Submittals will be tracked and filed based on the information you provide. **Include the FID and BRRTS numbers which have been assigned to this site, and identify the intent of the document(s) you are submitting in order to speed processing.** Please attach any required fees to this checklist.

Date: 2017.11.28  
 Site Name: Paralyzed Veterans of America  
 Address: 2311 S. 108th Street  
West Allis, Wisconsin  
 FID# \_\_\_\_\_  
 BRRTS # \_\_\_\_\_

<b>IS THIS RELEASE PECFA-ELIGIBLE?</b>		
<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> UNKNOWN AT THIS TIME

**Type of Submittal:**  
 LUST     ERP     VPLE     OTHER

CHECK	Agreements	FEE
	Tax assignment agreement - ss.75.106(2)(d) & 292.55	\$700
	Tax cancellation agreement - ss. 75.106(2)(d) & 292.55	\$700
	Negotiated agreements - s. 292.11(7)(d)2	\$1,400
	<b>Technical Assistance (s. 292.55)</b>	<b>FEE</b>
	NR 708 No Further Action Letter	\$350
	NR 716 No Further Investigation	\$700
	NR 716 Site Investigation Workplan	\$700
	NR 716 Site Investigation Report	\$1,050
	NR 720 Soil Cleanup Standards/Reports	\$1,050
	NR 722 Remedial Action Options Report	\$1,050
	NR 724 Remedial Design Report	\$1,050
	NR 724 Operation and Maintenance Report	\$425
	NR 724 Construction Documentation Reports	\$350
	NR 724 Long-Term Monitoring Plan	\$425
	NR 726 Case Closure Action	\$1,050
	NR 506 Exemption for building on a historic waste site	\$700
	Other Technical Assistance	\$700
	<b>Liability Clarification Letters</b>	<b>FEE</b>
	s. 292.13(3) Off-Site Exemption Letters	\$700
	s. 292.55 Lease Letters - Single Properties	\$700
	s. 292.55 Lease Letters - Multiple Properties	\$1,400
	s. 292.55 General Liability Clarification Letters	\$700
	s. 292.21(1)(c)1.d. Lender Assessments	\$700
	<b>Department Database Fees (ss. 292.12 and 292)</b>	<b>FEE</b>
	Sites with groundwater contamination that attains or exceeds ch. NR 140	\$350
	Sites with soil contamination that attains or exceeds ch. 720 RCLs	\$300
	Sites not otherwise addressed in this schedule, where the department imposes any other limitation or condition in accordance with s. 292.12(2)	\$350
	Cases submitted for closure with monitoring wells not properly abandoned, without residual groundwater contamination	\$350
	Modification or removal of a site or property from the database	\$1,050
	<b>Other / Miscellaneous</b>	
<b>X</b>	Release Notification	

Remarks: \_\_\_\_\_

November 28, 2017

Project Reference #17287

**Sent via email to: ChueYee.Yang@wisconsin.gov**

Mr. Chue Yee Yang  
Bureau of Remediation and Redevelopment  
Wisconsin Department of Natural Resources  
2300 North Martin Luther King, Jr. Drive  
Milwaukee, WI 53212

**RE: Hazardous Substance Discharge Notification for the Paralyzed Veterans of America Site Located at 2311 S. 108<sup>th</sup> Street, West Allis, Wisconsin**

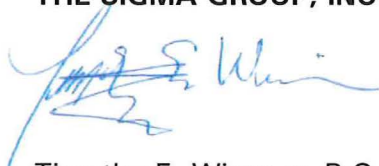
Dear Mr. Yang:

The Sigma Group, Inc. (Sigma) is submitting the attached Notification for Hazardous Substance Discharge Form 4400-225 on behalf of Paralyzed Veterans of America for the property located at 2311 S. 108<sup>th</sup> Street, West Allis, Wisconsin ("Property"). We are also providing a copy of the November 21, 2017 Tank System Site Assessment (TSSA) Report prepared by Sigma.

In the meantime, if you have any questions regarding our submittal or require additional information, please do not hesitate to contact me.

Sincerely,

**THE SIGMA GROUP, INC.**



Timothy E. Wimmer, P.G.  
Senior Project Manager  
(414) 643-4139 (direct)  
twimmer@thesigmagroup.com

List of Attachments:

Notification for Hazardous Substance Discharge Form 4400-225  
TSSA Report

cc: Mr. Scott E. Griffith – Paralyzed Veterans of America ([sgriffith@wisconsinpva.org](mailto:sgriffith@wisconsinpva.org))  
Mr. Gordon Steimle – Ogden & Company ([gordons@ogdenre.com](mailto:gordons@ogdenre.com))  
DNRRRSER@wisconsin.gov

November 21, 2017

Project Reference #17287

Sent Via email to: [gordons@ogdenre.com](mailto:gordons@ogdenre.com)

Paralyzed Veterans of America  
c/o Gordon J. Steimle, CSM  
Executive Vice President Commercial Brokerage  
Ogden & Company, Inc.  
1665 N. Water Street  
Milwaukee, WI 53202

**RE: Results for Tank System Site Assessment for Paralyzed Veterans of America Site  
2311 South 108<sup>th</sup> Street, West Allis, Wisconsin**

Dear Mr. Steimle:

The Sigma Group, Inc. (Sigma) was retained by Paralyzed Veterans of America (Client) to remove a 150-gallon underground storage tank (UST) used to store Tetrachloroethene for historical dry-cleaning operations. The UST was removed on November 14, 2017. Following the removal of the UST, two soil samples were collected from the base of the excavation at an approximate depth of seven feet below ground surface (bgs) and designated East Base and West Base. The soil samples were submitted to Synergy Environmental Lab, Inc. for analysis of volatile organic compounds (VOCs).

A review of the laboratory analytical report indicates that the VOC results for the East Base sample were reported at a concentration less than the laboratory Limit of Detection (LOD). The VOC results from the West Base sample detected four chlorinated VOC compounds ranging in concentration from 0.197 to 15.7 milligrams per kilogram (mg/kg). Soil results were generally compared to groundwater pathway RCLs and non-industrial Direct contact RCLs which are the Wisconsin regulatory standards for soil. A summary of the results compared to the RCLs is presented below.

Compound	Result (mg/kg)	Groundwater Pathway RCL (mg/kg)	Non-Industrial Direct Contact RCL (mg/kg)
Tetrachloroethene (PCE)	15.7	0.0045	30.7
cis-1,2-Dichloroethene	0.60	0.0412	156
Trichloroethene (TCE)	0.38	0.0036	1.26
Vinyl Chloride	0.197	0.0001	0.067

A copy of the laboratory analytical report is attached.

#### CONCLUSIONS

Laboratory analytical results for soil samples collected at the Site indicate that soil has been impacted with CVOCs, which is indicative of dry cleaning solvent. The detected concentrations of CVOCs in the West Base soil sample are above the Groundwater Pathway RCLs. Vinyl Chloride was the only compound reported above the Non-Industrial Direct Contact RCLs.

#### RECOMMENDATIONS

Based on our current understanding of the potential redevelopment of the Site, Sigma providing the following recommendations for:

- Notification of a release of a hazardous substance;
- Additional investigation activities;

Notification - Based on the subsurface impacts identified at the Site, pursuant to s. 292.11 Wis. Stat., the owner or operator of a property is required to notify the WDNR of a hazardous substance discharge to the environment. The definition of a "discharge" means, but is not limited to, spilling, leaking, pumping, pouring, emitting, emptying or dumping. Notification would require using the Notification for Hazardous Substance Discharge (Non-Emergency) form 4400-225 and this report.

Additional Investigation Activities - Further soil and groundwater sampling will likely be necessary to define the extent of contamination and potential vapor intrusion impacts. Sampling locations would likely focus in the areas around the detected CVOC impacts.

#### **LIMITATIONS OF INVESTIGATION**

This report was prepared under the constraint of cost, time, and scope of work, and reflects an assessment and evaluation that is based on data collected from potential areas of concern at the time of the evaluation. Our assessment was performed using the degree of care and skill ordinarily exercised, under similar circumstances, by professional consultants practicing in this or similar localities. No other warranty or guarantee, expressed or implied, is made as the conclusions and professional advice included in this report.

The findings of this report are valid as of the present date of the assessment. However, changes in the conditions of a property can occur with the passage of time, whether due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate standards may occur, whether they result from legislation, from the broadening of knowledge, or from other reasons. Accordingly, the findings of this report may be invalid wholly or partially by changes outside our control.

A subsurface exploration was performed and is presented in this report. However, subsurface exploration cannot totally reveal what is below the surface. Depending upon the sampling method and frequency, every soil condition may not be observed, and some materials or layers, which are present in the subsurface, may not be noted.

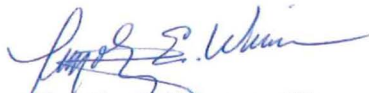
This report is issued with understanding that it is the responsibility of the owner(s) to ensure that the information and recommendations contained herein are brought to the attention of the appropriate regulatory agencies, if warranted.

#### **CLOSING**

If you have any questions or comments regarding the completed activities, please call the undersigned at (414) 643-4200.

Sincerely,

**THE SIGMA GROUP, INC.**

  
Timothy E. Wimmer, PG  
Senior Project Manager  
(414) 643-4139 (direct)  
[twimmer@thesigmagroup.com](mailto:twimmer@thesigmagroup.com)

  
Randy E. Boness, PG  
Geosciences Manager  
(414) 643-4116 (direct)  
[rboness@thesigmagroup.com](mailto:rboness@thesigmagroup.com)

Attachments

cc: Derek Reinke - [derekr@ogdenre.com](mailto:derekr@ogdenre.com)

**FIGURE**

Paralyzed of  
Veterans of  
America  
Tank Removal

East Base

+

X

West  
Base





## **APPENDIX B**

### **Laboratory Analytical Reports**

# Synergy Environmental Lab, INC.

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

TIM WIMMER  
THE SIGMA GROUP, INC.  
1300 W. CANAL STREET  
MILWAUKEE, WI 53233

Report Date 21-Nov-17

Project Name PARALYZED VETERANS  
Project # 17082  
Lab Code 5033909A  
Sample ID EAST BASE  
Sample Matrix Soil  
Sample Date 11/14/2017

Invoice # E33909

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	76.3	%			1	5021		11/15/2017	NJC	1
Organic										
VOC's										
Benzene	< 0.03	mg/kg	0.03	0.096	1	8260B		11/16/2017	CJR	1
Bromobenzene	< 0.025	mg/kg	0.025	0.081	1	8260B		11/16/2017	CJR	1
Bromodichloromethane	< 0.074	mg/kg	0.074	0.24	1	8260B		11/16/2017	CJR	1
Bromoform	< 0.029	mg/kg	0.029	0.092	1	8260B		11/16/2017	CJR	1
tert-Butylbenzene	< 0.026	mg/kg	0.026	0.084	1	8260B		11/16/2017	CJR	1
sec-Butylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		11/16/2017	CJR	1
n-Butylbenzene	< 0.04	mg/kg	0.04	0.13	1	8260B		11/16/2017	CJR	1
Carbon Tetrachloride	< 0.016	mg/kg	0.016	0.053	1	8260B		11/16/2017	CJR	1
Chlorobenzene	< 0.013	mg/kg	0.013	0.04	1	8260B		11/16/2017	CJR	1
Chloroethane	< 0.091	mg/kg	0.091	0.29	1	8260B		11/16/2017	CJR	1
Chloroform	< 0.035	mg/kg	0.035	0.11	1	8260B		11/16/2017	CJR	1
Chloromethane	< 0.076	mg/kg	0.076	0.24	1	8260B		11/16/2017	CJR	1
2-Chlorotoluene	< 0.015	mg/kg	0.015	0.047	1	8260B		11/16/2017	CJR	1
4-Chlorotoluene	< 0.018	mg/kg	0.018	0.057	1	8260B		11/16/2017	CJR	1
1,2-Dibromo-3-chloropropane	< 0.058	mg/kg	0.058	0.18	1	8260B		11/16/2017	CJR	1
Dibromochloromethane	< 0.025	mg/kg	0.025	0.079	1	8260B		11/16/2017	CJR	1
1,4-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		11/16/2017	CJR	1
1,3-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		11/16/2017	CJR	1
1,2-Dichlorobenzene	< 0.028	mg/kg	0.028	0.088	1	8260B		11/16/2017	CJR	1
Dichlorodifluoromethane	< 0.048	mg/kg	0.048	0.15	1	8260B		11/16/2017	CJR	1
1,2-Dichloroethane	< 0.038	mg/kg	0.038	0.12	1	8260B		11/16/2017	CJR	1
1,1-Dichloroethane	< 0.034	mg/kg	0.034	0.11	1	8260B		11/16/2017	CJR	1
1,1-Dichloroethene	< 0.022	mg/kg	0.022	0.069	1	8260B		11/16/2017	CJR	1
cis-1,2-Dichloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		11/16/2017	CJR	1
trans-1,2-Dichloroethene	< 0.028	mg/kg	0.028	0.09	1	8260B		11/16/2017	CJR	1
1,2-Dichloropropane	< 0.035	mg/kg	0.035	0.11	1	8260B		11/16/2017	CJR	1
1,3-Dichloropropane	< 0.025	mg/kg	0.025	0.079	1	8260B		11/16/2017	CJR	1
trans-1,3-Dichloropropene	< 0.022	mg/kg	0.022	0.068	1	8260B		11/16/2017	CJR	1

Project Name PARALYZED VETERANS

Invoice # E33909

Project # 17082

Lab Code 5033909A

Sample ID EAST BASE

Sample Matrix Soil

Sample Date 11/14/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
cis-1,3-Dichloropropene	< 0.039	mg/kg	0.039	0.12	1	8260B		11/16/2017	CJR	1
Di-isopropyl ether	< 0.01	mg/kg	0.01	0.032	1	8260B		11/16/2017	CJR	1
EDB (1,2-Dibromoethane)	< 0.023	mg/kg	0.023	0.072	1	8260B		11/16/2017	CJR	1
Ethylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		11/16/2017	CJR	1
Hexachlorobutadiene	< 0.085	mg/kg	0.085	0.27	1	8260B		11/16/2017	CJR	1
Isopropylbenzene	< 0.034	mg/kg	0.034	0.11	1	8260B		11/16/2017	CJR	1
p-Isopropyltoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		11/16/2017	CJR	1
Methylene chloride	< 0.15	mg/kg	0.15	0.46	1	8260B		11/16/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.05	mg/kg	0.05	0.16	1	8260B		11/16/2017	CJR	1
Naphthalene	< 0.094	mg/kg	0.094	0.3	1	8260B		11/16/2017	CJR	1
n-Propylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		11/16/2017	CJR	1
1,1,2,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.88	1	8260B		11/16/2017	CJR	1
1,1,1,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.09	1	8260B		11/16/2017	CJR	1
Tetrachloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		11/16/2017	CJR	1
Toluene	< 0.032	mg/kg	0.032	0.1	1	8260B		11/16/2017	CJR	1
1,2,4-Trichlorobenzene	< 0.064	mg/kg	0.064	0.2	1	8260B		11/16/2017	CJR	1
1,2,3-Trichlorobenzene	< 0.066	mg/kg	0.066	0.21	1	8260B		11/16/2017	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.96	1	8260B		11/16/2017	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		11/16/2017	CJR	1
Trichloroethene (TCE)	< 0.041	mg/kg	0.041	0.13	1	8260B		11/16/2017	CJR	1
Trichlorofluoromethane	< 0.041	mg/kg	0.041	0.13	1	8260B		11/16/2017	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.025	0.08	1	8260B		11/16/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.032	mg/kg	0.032	0.1	1	8260B		11/16/2017	CJR	1
Vinyl Chloride	< 0.019	mg/kg	0.019	0.062	1	8260B		11/16/2017	CJR	1
m&p-Xylene	< 0.072	mg/kg	0.072	0.23	1	8260B		11/16/2017	CJR	1
o-Xylene	< 0.044	mg/kg	0.044	0.14	1	8260B		11/16/2017	CJR	1
SUR - Dibromofluoromethane	96	Rec %			1	8260B		11/16/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	99	Rec %			1	8260B		11/16/2017	CJR	1
SUR - 4-Bromofluorobenzene	93	Rec %			1	8260B		11/16/2017	CJR	1
SUR - Toluene-d8	94	Rec %			1	8260B		11/16/2017	CJR	1

Project Name PARALYZED VETERANS  
 Project # 17082

Invoice # E33909

Lab Code 5033909B  
 Sample ID WEST BASE  
 Sample Matrix Soil  
 Sample Date 11/14/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	76.3	%			1	5021		11/15/2017	NJC	1
Organic										
VOC's										
Benzene	< 0.03	mg/kg	0.03	0.096	1	8260B		11/16/2017	CJR	1
Bromobenzene	< 0.025	mg/kg	0.025	0.081	1	8260B		11/16/2017	CJR	1
Bromodichloromethane	< 0.074	mg/kg	0.074	0.24	1	8260B		11/16/2017	CJR	1
Bromoform	< 0.029	mg/kg	0.029	0.092	1	8260B		11/16/2017	CJR	1
tert-Butylbenzene	< 0.026	mg/kg	0.026	0.084	1	8260B		11/16/2017	CJR	1
sec-Butylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		11/16/2017	CJR	1
n-Butylbenzene	< 0.04	mg/kg	0.04	0.13	1	8260B		11/16/2017	CJR	1
Carbon Tetrachloride	< 0.016	mg/kg	0.016	0.053	1	8260B		11/16/2017	CJR	1
Chlorobenzene	< 0.013	mg/kg	0.013	0.04	1	8260B		11/16/2017	CJR	1
Chloroethane	< 0.091	mg/kg	0.091	0.29	1	8260B		11/16/2017	CJR	1
Chloroform	< 0.035	mg/kg	0.035	0.11	1	8260B		11/16/2017	CJR	1
Chloromethane	< 0.076	mg/kg	0.076	0.24	1	8260B		11/16/2017	CJR	1
2-Chlorotoluene	< 0.015	mg/kg	0.015	0.047	1	8260B		11/16/2017	CJR	1
4-Chlorotoluene	< 0.018	mg/kg	0.018	0.057	1	8260B		11/16/2017	CJR	1
1,2-Dibromo-3-chloropropane	< 0.058	mg/kg	0.058	0.18	1	8260B		11/16/2017	CJR	1
Dibromochloromethane	< 0.025	mg/kg	0.025	0.079	1	8260B		11/16/2017	CJR	1
1,4-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		11/16/2017	CJR	1
1,3-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		11/16/2017	CJR	1
1,2-Dichlorobenzene	< 0.028	mg/kg	0.028	0.088	1	8260B		11/16/2017	CJR	1
Dichlorodifluoromethane	< 0.048	mg/kg	0.048	0.15	1	8260B		11/16/2017	CJR	1
1,2-Dichloroethane	< 0.038	mg/kg	0.038	0.12	1	8260B		11/16/2017	CJR	1
1,1-Dichloroethane	< 0.034	mg/kg	0.034	0.11	1	8260B		11/16/2017	CJR	1
1,1-Dichloroethene	< 0.022	mg/kg	0.022	0.069	1	8260B		11/16/2017	CJR	1
cis-1,2-Dichloroethene	0.60	mg/kg	0.032	0.1	1	8260B		11/16/2017	CJR	1
trans-1,2-Dichloroethene	< 0.028	mg/kg	0.028	0.09	1	8260B		11/16/2017	CJR	1
1,2-Dichloropropane	< 0.035	mg/kg	0.035	0.11	1	8260B		11/16/2017	CJR	1
1,3-Dichloropropane	< 0.025	mg/kg	0.025	0.079	1	8260B		11/16/2017	CJR	1
trans-1,3-Dichloropropene	< 0.022	mg/kg	0.022	0.068	1	8260B		11/16/2017	CJR	1
cis-1,3-Dichloropropene	< 0.039	mg/kg	0.039	0.12	1	8260B		11/16/2017	CJR	1
Di-isopropyl ether	< 0.01	mg/kg	0.01	0.032	1	8260B		11/16/2017	CJR	1
EDB (1,2-Dibromoethane)	< 0.023	mg/kg	0.023	0.072	1	8260B		11/16/2017	CJR	1
Ethylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		11/16/2017	CJR	1
Hexachlorobutadiene	< 0.085	mg/kg	0.085	0.27	1	8260B		11/16/2017	CJR	1
Isopropylbenzene	< 0.034	mg/kg	0.034	0.11	1	8260B		11/16/2017	CJR	1
p-Isopropyltoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		11/16/2017	CJR	1
Methylene chloride	< 0.15	mg/kg	0.15	0.46	1	8260B		11/16/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.05	mg/kg	0.05	0.16	1	8260B		11/16/2017	CJR	1
Naphthalene	< 0.094	mg/kg	0.094	0.3	1	8260B		11/16/2017	CJR	1
n-Propylbenzene	< 0.033	mg/kg	0.033	0.1	1	8260B		11/16/2017	CJR	1
1,1,2,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.88	1	8260B		11/16/2017	CJR	1
1,1,1,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.09	1	8260B		11/16/2017	CJR	1
Tetrachloroethene	15.7	mg/kg	0.32	1	10	8260B		11/20/2017	CJR	1
Toluene	< 0.032	mg/kg	0.032	0.1	1	8260B		11/16/2017	CJR	1
1,2,4-Trichlorobenzene	< 0.064	mg/kg	0.064	0.2	1	8260B		11/16/2017	CJR	1
1,2,3-Trichlorobenzene	< 0.066	mg/kg	0.066	0.21	1	8260B		11/16/2017	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.96	1	8260B		11/16/2017	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		11/16/2017	CJR	1
Trichloroethene (TCE)	0.38	mg/kg	0.041	0.13	1	8260B		11/16/2017	CJR	1
Trichlorofluoromethane	< 0.041	mg/kg	0.041	0.13	1	8260B		11/16/2017	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.025	0.08	1	8260B		11/16/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.032	mg/kg	0.032	0.1	1	8260B		11/16/2017	CJR	1
Vinyl Chloride	0.197	mg/kg	0.019	0.062	1	8260B		11/16/2017	CJR	1

Project Name PARALYZED VETERANS  
Project # 17082

Invoice # E33909

Lab Code 5033909B  
Sample ID WEST BASE  
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Sample Date 11/14/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
m&p-Xylene	< 0.072	mg/kg	0.072	0.23	1	8260B		11/16/2017	CJR	1
o-Xylene	< 0.044	mg/kg	0.044	0.14	1	8260B		11/16/2017	CJR	1
SUR - Toluene-d8	97	Rec %			1	8260B		11/16/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	98	Rec %			1	8260B		11/16/2017	CJR	1
SUR - 4-Bromofluorobenzene	93	Rec %			1	8260B		11/16/2017	CJR	1
SUR - Dibromofluoromethane	96	Rec %			1	8260B		11/16/2017	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code	Comment
1	Laboratory QC within limits.

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

Authorized Signature

