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US EPA RECORDS CENTER REGION 5
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DATE: September 13, 2005

TO: Brian Brass, U.S. EPA/ERT Work Assignment Manager

FROM: Howard Schmidt, REAC Senior Atmospheric Scientist/Task Leader

THROUGH: Jeffrey Bradstreet, REAC Air Response Section Leader

SUBJECT: Air and Soil Sampling for Asbestos at the N-Forcer® Site in Dearborn, MI
Work Assignment 0-118 – Sampling Final Report

BACKGROUND

The United States Environmental Protection Agency/Environmental Response Team (EPA/ERT) issued Work Assignment (WA) #0-118 to Lockheed Martin under the Response, Engineering, and Analytical Contract (REAC) to perform baseline and soil excavation activity air sampling for asbestos on the property of and nearby the current N-Forcer® property in Dearborn, MI and soil sampling both on N-Forcer® property and private properties in a neighborhood adjoining the site.

The site is located at 14300 Henn St. in Dearborn, Wayne County, MI. Land use nearby the site includes recreational, residential, educational, commercial, and industrial. The site is 2.7 acres and consists of a single 16,000 square foot (sq. ft.) building which was used to process vermiculite into attic insulation and lightweight concrete aggregate. The original site consisted of railroad spur used to off-load vermiculite, two storage silos, exfoliation furnaces, and floor space for bagging and processing. Vermiculite processing ended in 1989 when the former tenant ceased operations at the Dearborn, MI plant.

The current facility was constructed in the late 1940s by National Siding to store manufactured steel siding materials. The plant apparently began processing vermiculite in the early 1950s when the Zonolite Company started using the facility. W. R. Grace (WRG) acquired the Zonolite Company in 1963 and continued to use the Dearborn, MI plant to manufacture attic insulation and lightweight concrete products using vermiculite mined in Libby, MT. WRG closed the Dearborn, MI plant in 1989 and the Libby, MT mine in 1990. The site is currently owned and operated by Die, Mold, and Automation Components, Inc. (DMACI) which produces N-Forcer® nitrogen gas springs and wear plates. DMACI had operated their light industrial facility on a site west of WRG, but expanded their operations onto the former WRG property in 1992. The storage silos and exfoliation furnaces that were on the site have been dismantled and the railroad spur is no longer in use.

Operations from the former WRG facility have resulted in asbestos being deposited in the soil on the property and there has been visual confirmation of asbestos in soil on properties, both private and public, and anecdotal evidence that contaminated "fill" was shipped off-site and used on lawns and gardens in the adjoining neighborhood. Fenceline air sampling was completed to determine if excavation activities were causing asbestos fibers to become airborne and providing the potential to travel off-site. Soil sampling was completed for two reasons; to determine if soil on the site was cleaned to acceptable levels and to determine if concentrations at off-site properties were high enough to warrant excavation and backfilling.

OBSERVATIONS AND ACTIVITIES

REAC personnel traveled to Dearborn, MI on March 9, 2005 for a site inspection and to collect Global Positioning System (GPS) data to assist with atmospheric modeling that would later aid in delineating an area for potential

residential soil sampling. Later on the same day, REAC personnel attended a meeting at U.S. EPA Region V offices in Grosse Ile, MI to discuss and schedule future activities at the site. The meeting was attended by U.S. EPA WAMs, the site On-Scene Coordinator (OSC), U.S. Superfund Technical Assessment and Response Team (START), as well as numerous Federal, state, and local personnel.

REAC personnel mobilized for the following air sampling events:

- April 6, 2005 through April 7, 2005 – Baseline I and Baseline II
- April 11, 2005 through April 28, 2005 – Excavation I through Excavation XVI
- May 17, 2005 through May 18, 2005 – Off-site excavation, Soccer I and Soccer 2

Soil samples were taken on a periodic basis throughout the duration of the mobilization. Initial mobilization commenced on April 5, 2005 with demobilization on May 10, 2005. The time between the final excavation on April 28, 2005 and demobilization was a result of a 7-day turnaround for lab reports to confirm all soil samples were below the designated action levels. It was soon discovered that off-site excavation was warranted adjacent to the high school soccer field due to the amount of dust generated by lawn mowing. Although lab results for asbestos in soil were below the action level, both the WAM and OSC deemed it necessary to excavate the soil. Personnel mobilized for a second time on May 16, 2005 and demobilized for a final time on May 20, 2005 to perform monitoring while soil was excavated adjacent to the soccer field.

Air Sampling for Asbestos

On-site and fenceline sampling for asbestos was conducted using ERT Standard Operating Procedure (SOP) #2015, *Asbestos Sampling*. Laboratory analysis was performed at the EMSL Laboratory in Ann Arbor, MI using Phase Contrast Microscopy (PCM) and following the National Institute for Occupational Health and Safety (NIOSH) Method 7400, Fourth Edition, Issue 2, *Asbestos and Other Fibers by PCM.*

Sampling events Baseline I and Baseline II were used to establish the absence or presence of asbestos in air during normal or undisturbed conditions. For all asbestos sampling locations, an asbestos sampling train consisting of a 0.45-micron (μm), 25-millimeter (mm) diameter mixed cellulose ester (MCE) filter in a sampling cassette was connected to a sampling pump. The top cover from the antistatic cowl extension on the sampling cassette was removed ("open-face") and the cassette was oriented face down for all asbestos filters. All air samples were collected at breathing height, approximately four to five feet above the ground.

Baseline air sampling for asbestos was completed at 12 locations during Baseline I and Baseline II. Tables 1 through 20 provide pertinent information for each of the 154 air samples collected during all sampling events, including field blanks and lot blanks, which were sent to EMSL for analysis. Specific locations for the Baseline events and their accompanying results are shown in Figures 1 and 2 while Figures 3 through 20 indicate air sampling locations and results for each excavation activity. Baseline sampling established current site conditions without excavation activities and was compared to results obtained during excavation to determine the quantity of asbestos released due to excavation activities only. Upwind and downwind sample locations were selected on a daily basis in consultation with the WAM. An Aircon II sampling pump was calibrated to collect 10 liters per minute (L/min) of air through the MCE filter. The flow rate allowed a target volume of 4,500 liters (L) and provided a level of detection of 0.0006 fibers/cubic centimeter (f/cc). As operations continued through the course of several weeks, the sampling pump flow rate was adjusted based on expected hours of work for the day to obtain an optimal volume of air.

Soil Sampling for Asbestos

Soil sampling for asbestos was conducted using REAC SOP #2012, *Soil Sampling*. Laboratory analysis on all asbestos in soil samples was performed at Hygeia Laboratories, Inc. in Sierra Madre, CA following California Air Resources Board (CARB) modified 435 method using Polarized Light Microscopy (PLM). One sample, estimated to be "pure" asbestos was sent to EMSL Laboratory in Ann Arbor, MI for analysis via Transmission Electron Microscopy (TEM). Soil samples were taken from several locations on the site to determine if excavation and backfilling efforts had been successful and a particular area could be deemed "clean". Soil samples were taken by

START personnel off-site along active railroad tracks that run along the border of the property. These samples were assigned a different set of identification numbers, but were shipped and analyzed along with on-site samples. Three confirmatory samples were taken from excavation pits to determine if a particular asbestos in soil concentration criteria had been met, allowing backfilling of the area to begin. The majority of the soil samples were taken off-site from residential and commercial properties to determine if asbestos fibers had migrated due to operations conducted by the former tenant of the facility or if contaminated soil was used on the property for garden or lawn fill.

Unless specified by the WAM, soil samples were sampled as four-point composites, allowing for an action level of 0.5% asbestos in soil and a detection limit of 0.1% asbestos in soil. Confirmatory samples and samples along the railroad tracks were specifically identified by the WAM or OSC. Each off-site property was divided into two or three sampling areas depending on the configuration of the property. Four sampling points per area were randomly generated by a Visual Sampling Program (VSP). The four samples in each of the two to three areas were obtained and combined per REAC SOP #2012 to form two to three composite samples per residence.

RESULTS

Air Sampling Results

Tables 1 and 2 represent results from two days of baseline air sampling on 4/6/2005 and 4/7/2005 before the commencement of excavation activities to determine the background concentration, if any, of asbestos in the ambient air on and nearby the site. Each table shows that 12 samples were taken for both baseline sampling events. Concentrations range from non-detect (ND) to 0.001 f/cc, well below both the on-site action level of 0.1 f/cc and the fenceline action level of 0.05 f/cc.

Tables 3 through 18 represent results from air sampling during excavation of soil on-site over the period 4/11/2005 through 4/29/2005. Based on the location of the excavation activities on the site, the number of samples varied on a day-to-day basis. Additionally, samples were compromised by weather and overloading, adding to the variation in the daily amount of samples analyzed. No sample during any of the 16 excavation events exceeded either the on-site or fenceline action levels for asbestos in air.

Tables 19 and 20 represent the final two sampling events that occurred on 5/17/2005 and 5/18/2005 during excavation of soil adjacent to a soccer field in the neighborhood across the street from the site. Six sampling locations were chosen and results show that asbestos level during excavation were well below criteria.

Graphical representations of Tables 1 through 20 are found in Figures 1 through 20. Each figure shows the daily sample locations with their respective asbestos concentrations and lab results are found in Appendix A. Field data sheets for asbestos in air sampling are found in Appendix B.

Soil Sampling Results

Tables 21 through 32 represent results from soil sampling during the course of activities on the site and indicate the corresponding graphic where analytical results can be found. Samples were taken both on-site and at residential and commercial properties in the vicinity of the site. The properties were chosen both from visual inspection of the soil and from atmospheric modeling results generated before site mobilization. The schedule of soil sampling varied with limiting factors including weather and property access. The number of samples taken in a particular day ranged from one to twenty. The samples were taken periodically during site activities between April 11, 2005 and May 17, 2005. No off-site sample exceeded the action level of 0.5% asbestos in soil. Figures 21 through 26 depict sampling location points and results. The figures do not correspond to particular sampling days, but are divided geographically to better display the analytical results. Lab results for asbestos in soil are found in Appendic C and chains of custody are found in Appendix D.

FUTURE ACTIVITIES

No future activities are anticipated at this time.

Tables

Table 1
Asbestos in Air Sampling Results
4/6/2005 – Baseline I
N-Forcer® Site
Dearborn, MI
August 2005

Sample Number	Location	Volume (l)	# of Fibers	Level of Detection (f/cc)	Results (f/cc)	Notes
WRGD-0001	A1	2590.00	9.0	0.001	0.002	
WRGD-0002	A3	4690.00	<5.5	0.0006	<0.0006	
WRGD-0003	A5	4630.00	13.0	0.0006	0.001	
WRGD-0004	A7	4620.00	6.0	0.0006	0.0006	
WRGD-0005	A9	4840.00	<5.5	0.0006	<0.0006	
WRGD-0006	A11	3760.00	9.0	0.0007	0.001	
WRGD-0007	A12	4800.00	10.0	0.0006	0.001	
WRGD-0008	A14	4800.00	<5.5	0.0006	<0.0006	
WRGD-0009	A15	4800.00	8.0	0.0006	0.0008	
WRGD-0010	A16	4920.00	8.0	0.0005	0.0008	
WRGD-0011	A17	4950.00	13.0	0.0005	0.001	
WRGD-0012	A18	4710.00	7.0	0.0006	0.0007	
WRGD-0013	Field Blank	0.00	<5.5	N/A	N/A	Field Blank
N/A	Lot Blank	0.00	<5.5	N/A	N/A	Lot Blank

f/cc = Fibers per cubic centimeter
l = liters
N/A = not applicable

Table 2
Asbestos in Air Sampling Results
4/7/2005 – Baseline II
N-Forcer® Site
Dearborn, MI
August 2005

Sample Number	Location	Volume (l)	# of Fibers	Level of Detection (f/cc)	Results (f/cc)	Notes
WRGD-0014	A1	4500.00	14.0	0.0006	0.002	
WRGD-0015	A3	4500.00	<5.5	0.0006	<0.0006	
WRGD-0016	A5	4500.00	8.0	0.0006	0.0009	
WRGD-0017	A7	4500.00	9.0	0.0006	0.001	
WRGD-0018	A9	4500.00	12.0	0.0006	0.001	
WRGD-0019	A11	4450.00	7.0	0.0006	0.0008	
WRGD-0020	A12	4450.00	8.0	0.0006	0.0009	
WRGD-0021	A14	4420.00	11.0	0.0006	0.001	
WRGD-0022	A15	4410.00	8.0	0.0006	0.0009	
WRGD-0023	A16	4500.00	8.0	0.0006	0.0008	
WRGD-0024	A17	4500.00	7.0	0.0006	<0.0006	
WRGD-0025	A18	4500.00	<5.5	0.0006	<0.0006	
WRGD-0026	Field Blank	0.00	<5.5	N/A	N/A	Field Blank

f/cc = Fibers per cubic centimeter
l = liters
N/A = not applicable

Table 3
Asbestos in Air Sampling Results
4/11/2005 – Excavation I
N-Forcer® Site
Dearborn, MI
August 2005

Sample Number	Location	Volume (l)	# of Fibers	Level of Detection (f/cc)	Results (f/cc)	Notes
WRGD-0027	A1	1820.00	11.0	0.001	0.003	
WRGD-0028	A2	1839.50	<5.5	0.001	<0.001	
WRGD-0029	A5	1820.00	<5.5	0.001	<0.001	
WRGD-0030	A14A	1930.50	6.0	0.001	0.002	
WRGD-0031	A15A	1911.00	12.0	0.001	0.003	
WRGD-0032	A18	1839.50	13.0	0.001	0.003	
WRGD-0033	Field Blank	0.00	<5.5	N/A	N/A	Field Blank

f/cc = Fibers per cubic centimeter
l = liters
N/A = not applicable

Table 4
Asbestos in Air Sampling Results
4/13/2005 – Excavation II
N-Forcer® Site
Dearborn, MI
August 2005

Sample Number	Location	Volume (l)	# of Fibers	Level of Detection (f/cc)	Results (f/cc)	Notes
WRGD-0034	A1	3900.00	13.0	0.0007	0.002	
WRGD-0035	A2	3900.00	15.0	0.0007	0.002	
WRGD-0036	A5	3900.00	14.0	0.0007	0.002	
WRGD-0037	A12	3900.00	10.0	0.0007	0.001	
WRGD-0038	A15A	3900.00	8.0	0.0007	0.001	
WRGD-0039	A18	3900.00	11.0	0.0007	0.001	
WRGD-0040	Field Blank	0.00	<5.5	N/A	N/A	Field Blank

f/cc = Fibers per cubic centimeter
l = liters
N/A = not applicable

Table 5
Asbestos in Air Sampling Results
4/14/2005 – Excavation III
N-Forcer® Site
Dearborn, MI
August 2005

Sample Number	Location	Volume (l)	# of Fibers	Level of Detection (f/cc)	Results (f/cc)	Notes
WRGD-0041	A1	3900.00	8.0	0.0007	0.001	
WRGD-0042	A2	3900.00	13.0	0.0007	0.002	
WRGD-0043	A5	3900.00	9.0	0.0007	0.001	
WRGD-0044	A7	1755.00	<5.5	0.002	<0.002	
WRGD-0045	A11	3900.00	10.0	0.0007	0.001	
WRGD-0046	A12	3900.00	8.0	0.0007	0.001	
WRGD-0047	A18	3900.00	9.0	0.0007	0.001	
WRGD-0048	Field Blank	0.00	<5.5	N/A	N/A	Field Blank
N/A	Lot Blank	0.00	6.0	N/A	N/A	Lot Blank

f/cc = Fibers per cubic centimeter
l = liters
N/A = not applicable

Table 6
Asbestos in Air Sampling Results
4/15/2005 – Excavation IV
N-Forcer® Site
Dearborn, MI
August 2005

Sample Number	Location	Volume (l)	# of Fibers	Level of Detection (f/cc)	Results (f/cc)	Notes
WRGD-0049	A2	3510.00	10.0	0.0008	0.001	
WRGD-0050	A5	3510.00	6.0	0.0008	0.0008	
WRGD-0051	A7	3510.00	8.0	0.0008	0.001	
WRGD-0052	A9	3510.00	7.0	0.0008	0.001	
WRGD-0053	A15A	N/A	N/A	N/A	N/A	Filter Overloaded
WRGD-0054	A18	3510.00	<5.5	0.0008	<0.0008	
WRGD-0055	Field Blank	0.00	<5.5	N/A	N/A	Field Blank

f/cc = Fibers per cubic centimeter
l = liters
N/A = not applicable

Table 7
Asbestos in Air Sampling Results
4/16/2005 – Excavation V
N-Forcer® Site
Dearborn, MI
August 2005

Sample Number	Location	Volume (l)	# of Fibers	Level of Detection (f/cc)	Results (f/cc)	Notes
WRGD-0056	A2	N/A	N/A	N/A	N/A	Filter Overloaded
WRGD-0057	A5	3840.00	11.0	0.0007	0.001	
WRGD-0058	A7	3840.00	6.0	0.0007	0.0008	
WRGD-0059	A9	3840.00	10.0	0.0007	0.001	
WRGD-0060	A15A	3840.00	8.0	0.0007	0.001	
WRGD-0061	A18	3840.00	7.0	0.0008	0.0009	
WRGD-0062	Field Blank	0.00	<5.5	N/A	N/A	Field Blank

f/cc = Fibers per cubic centimeter
l = liters
N/A = not applicable

Table 8
Asbestos in Air Sampling Results
4/18/2005 – Excavation VI
N-Forcer® Site
Dearborn, MI
August 2005

Sample Number	Location	Volume (l)	# of Fibers	Level of Detection (f/cc)	Results (f/cc)	Notes
WRGD-0063	A2	N/A	N/A	N/A	N/A	Filter Overloaded
WRGD-0064	A5	3600.00	10.0	0.0007	0.001	
WRGD-0065	A7	3600.00	7.0	0.0007	0.001	
WRGD-0066	A9	3600.00	12.0	0.0007	0.002	
WRGD-0067	A15A	3600.00	10.0	0.0007	0.001	
WRGD-0068	A18	3600.00	11.0	0.0007	0.001	
WRGD-0069	Field Blank	0.00	11.0	0.0007	0.001	Possibly Contaminated

f/cc = Fibers per cubic centimeter
l = liters
N/A = not applicable

Table 9
Asbestos in Air Sampling Results
4/19/2005 – Excavation VII
N-Forcer® Site
Dearborn, MI
August 2005

Sample Number	Location	Volume (l)	# of Fibers	Level of Detection (f/cc)	Results (f/cc)	Notes
WRGD-0070	A2	2610.00	<5.5	0.001	<0.001	
WRGD-0071	A5	2610.00	7.0	0.001	0.001	
WRGD-0072	A7	2610.00	12.0	0.001	0.002	
WRGD-0073	A9	2610.00	6.0	0.001	0.001	
WRGD-0074	A15A	2610.00	6.0	0.001	0.001	
WRGD-0075	A18	2610.00	7.0	0.001	0.001	
WRGD-0076	Field Blank	0.00	<5.5	N/A	N/A	Field Blank

f/cc = Fibers per cubic centimeter
l = liters
N/A = not applicable

Table 10
Asbestos in Air Sampling Results
4/20/2005 – Excavation VIII
N-Forcer® Site
Dearborn, MI
August 2005

Sample Number	Location	Volume (l)	# of Fibers	Level of Detection (f/cc)	Results (f/cc)	Notes
WRGD-0078	A2	1800.00	11.0	0.001	0.003	
WRGD-0079	A5	1800.00	16.0	0.001	0.004	
WRGD-0080	A7	1800.00	12.0	0.001	0.003	
WRGD-0081	A9	1800.00	6.0	0.001	0.002	
WRGD-0082	A15A	1800.00	10.0	0.001	0.003	
WRGD-0083	A18	1800.00	<5.5	0.001	<0.001	
WRGD-0084	Field Blank	0.00	<5.5	N/A	N/A	Field Blank

f/cc = Fibers per cubic centimeter
l = liters
N/A = not applicable

Table 11
Asbestos in Air Sampling Results
4/21/2005 – Excavation IX
N-Forcer® Site
Dearborn, MI
August 2005

Sample Number	Location	Volume (l)	# of Fibers	Level of Detection (f/cc)	Results (f/cc)	Notes
WRGD-0085	A5	3600.00	11.0	0.0007	0.001	
WRGD-0086	A7	3600.00	9.0	0.0007	0.001	
WRGD-0087	A9	3600.00	6.0	0.0007	0.0008	
WRGD-0088	A11	3600.00	<5.5	0.0007	<0.0007	
WRGD-0089	A12	3600.00	11.0	0.0007	0.001	
WRGD-0090	A18	3600.00	9.0	0.0007	0.001	
WRGD-0091	Field Blank	0.00	<5.5	N/A	N/A	Field Blank
WRGD-0092	Lot Blank	0.00	<5.5	N/A	N/A	Lot Blank

f/cc = Fibers per cubic centimeter
l = liters
N/A = not applicable

Table 12
Asbestos in Air Sampling Results
4/22/2005 – Excavation X
N-Forcer® Site
Dearborn, MI
August 2005

Sample Number	Location	Volume (l)	# of Fibers	Level of Detection (f/cc)	Results (f/cc)	Notes
WRGD-0093	A5	3780.00	<5.5	0.0007	<0.0007	
WRGD-0094	A7	3780.00	<5.5	0.0007	<0.0007	
WRGD-0095	A9	3780.00	<5.5	0.0007	<0.0007	
WRGD-0097	A11	3780.00	<5.5	0.0007	<0.0007	
WRGD-0098	A12	3780.00	<5.5	0.0007	<0.0007	
WRGD-0099	Field Blank	0.00	<5.5	N/A	N/A	Field Blank

f/cc = Fibers per cubic centimeter
l = liters
N/A = not applicable
Sample Number WRGD-0096 damaged by rain and discarded; not sent to lab

Table 13
Asbestos in Air Sampling Results
4/23/2005 – Excavation XI
N-Forcer® Site
Dearborn, MI
August 2005

Sample Number	Location	Volume (l)	# of Fibers	Level of Detection (f/cc)	Results (f/cc)	Notes
WRGD-0101	A5	909.00	<5.5	0.003	<0.003	
WRGD-0102	A7	3944.00	<5.5	0.0007	<0.0007	
WRGD-0103	A9	3752.00	<5.5	0.0007	<0.0007	
WRGD-0104	A11	3720.00	6.0	0.0007	0.0008	
WRGD-0107	Field Blank	0.00	<5.5	N/A	N/A	Field Blank

f/cc = Fibers per cubic centimeter
l = liters
N/A = not applicable
Sample Numbers WRGD-0105 and WRGD-0106 damaged by rain and snow and discarded; not sent to lab

Table 14
Asbestos in Air Sampling Results
4/25/2005 – Excavation XII
N-Forcer® Site
Dearborn, MI
August 2005

Sample Number	Location	Volume (l)	# of Fibers	Level of Detection (f/cc)	Results (f/cc)	Notes
WRGD-0108	A5	3150.00	<5.5	0.0009	<0.0009	
WRGD-0109	A7	3150.00	<5.5	0.0009	<0.0009	
WRGD-0110	A9	3150.00	<5.5	0.0009	<0.0009	
WRGD-0111	A11	3150.00	<5.5	0.0009	<0.0009	
WRGD-0112	A12	3150.00	<5.5	0.0009	<0.0009	
WRGD-0113	A18	3150.00	<5.5	0.0009	<0.0009	
WRGD-0114	Field Blank	0.00	<5.5	N/A	N/A	Field Blank

f/cc = Fibers per cubic centimeter
l = liters
N/A = not applicable

Table 15
Asbestos in Air Sampling Results
4/26/2005 – Excavation XIII
N-Forcer® Site
Dearborn, MI
August 2005

Sample Number	Location	Volume (l)	# of Fibers	Level of Detection (f/cc)	Results (f/cc)	Notes
WRGD-0115	A18	4480.00	<5.5	0.0006	<0.0006	
WRGD-0116	A2	N/A	N/A	N/A	N/A	Filter Damaged
WRGD-0117	A9	4480.00	<5.5	0.0006	<0.0006	
WRGD-0118	A5	4480.00	<5.5	0.0006	<0.0006	
WRGD-0119	A7	4480.00	<5.5	0.0006	<0.0006	
WRGD-0120	A15A	4480.00	<5.5	0.0006	<0.0006	
WRGD-0121	Field Blank	0.00	<5.5	N/A	N/A	Field Blank

f/cc = Fibers per cubic centimeter
l = liters
N/A = not applicable

Table 16
Asbestos in Air Sampling Results
4/27/2005 – Excavation XIV
N-Forcer® Site
Dearborn, MI
August 2005

Sample Number	Location	Volume (l)	# of Fibers	Level of Detection (f/cc)	Results (f/cc)	Notes
WRGD-0122	A5	4200.00	<5.5	0.0006	<0.0006	
WRGD-0123	A7	4200.00	<5.5	0.0006	<0.0006	
WRGD-0124	A18	4200.00	<5.5	0.0006	<0.0006	
WRGD-0125	A9	1820.00	<5.5	0.001	<0.001	
WRGD-0126	A6	4200.00	6.0	0.0006	0.0007	
WRGD-0127	A12	2800.00	<5.5	0.001	<0.001	
WRGD-0128	Field Blank	0.00	<5.5	N/A	N/A	Field Blank
WRGD-0129	A9A	2208.00	<5.5	0.001	<0.001	

f/cc = Fibers per cubic centimeter
l = liters
N/A = not applicable

Table 17
Asbestos in Air Sampling Results
4/28/2005 – Excavation XV
N-Forcer® Site
Dearborn, MI
August 2005

Sample Number	Location	Volume (l)	# of Fibers	Level of Detection (f/cc)	Results (f/cc)	Notes
WRGD-0130	A9A	4795.00	<5.5	0.0006	<0.0006	
WRGD-0131	A10	4795.00	<5.5	0.0006	<0.0006	
WRGD-0132	A18	4795.00	<5.5	0.0006	<0.0006	
WRGD-0133	A5	4795.00	<5.5	0.0006	<0.0006	
WRGD-0134	A12	4165.00	<5.5	0.0006	<0.0006	
WRGD-0135	A8A	3570.00	<5.5	0.0008	<0.0008	
WRGD-0136	Field Blank	0.00	<5.5	N/A	N/A	Field Blank

f/cc = Fibers per cubic centimeter
l = liters
N/A = not applicable

Table 18
Asbestos in Air Sampling Results
4/29/2005 – Excavation XVI
N-Forcer® Site
Dearborn, MI
August 2005

Sample Number	Location	Volume (l)	# of Fibers	Level of Detection (f/cc)	Results (f/cc)	Notes
WRGD-0137	A18	4248.00	7.0	0.0006	0.0008	
WRGD-0138	A9A	4336.00	9.0	0.0006	0.0009	
WRGD-0139	A11	N/A	N/A	N/A	N/A	Overloaded
WRGD-0140	A10	4424.00	14.0	0.0006	0.002	
WRGD-0141	A8A	4256.00	12.0	0.0006	0.001	
WRGD-0142	A12	4224.00	8.0	0.0006	0.0009	
WRGD-0143	Field Blank	0.00	<5.5	N/A	N/A	Field Blank

f/cc = Fibers per cubic centimeter
l = liters
N/A = not applicable

Table 19
Asbestos in Air Sampling Results
5/17/2005 – Soccer I
N-Forcer® Site
Dearborn, MI
August 2005

Sample Number	Location	Volume (l)	# of Fibers	Level of Detection (f/cc)	Results (f/cc)	Notes
WRGD-0144	E1	3600.00	7.0	0.0007	0.001	
WRGD-0145	E2	3240.00	10.0	0.0008	0.002	
WRGD-0146	E3	3600.00	<5.5	0.0007	<0.0007	
WRGD-0147	E4	3600.00	10.0	0.0007	0.001	
WRGD-0148	E5	3600.00	8.0	0.0007	0.0008	
WRGD-0149	E6	3600.00	<5.5	0.0007	<0.0007	
WRGD-0153	Field Blank	0.00	<5.5	N/A	N/A	Field Blank

f/cc = Fibers per cubic centimeter
l = liters
N/A = not applicable

Table 20
Asbestos in Air Sampling Results
5/18/2005 – Soccer II
N-Forcer® Site
Dearborn, MI
August 2005

Sample Number	Location	Volume (l)	# of Fibers	Level of Detection (f/cc)	Results (f/cc)	Notes
WRGD-0154	E1	3780.00	7.0	0.0007	0.0009	
WRGD-0155	E2	3780.00	<5.5	0.0007	<0.0007	
WRGD-0156	E3	3780.00	6.0	0.0007	0.0008	
WRGD-0157	E4	3780.00	<5.5	0.0007	<0.0007	
WRGD-0158	E5	3060.00	14.0	0.0009	0.002	
WRGD-0159	E6	3780.00	13.0	0.0007	0.002	
WRGD-0160	Field Blank	0.00	<5.5	N/A	N/A	Field Blank

f/cc = Fibers per cubic centimeter
l = liters
N/A = not applicable

Table 21
Asbestos in Soil Sampling Results
4/11/2005 – USGS I
N-Forcer® Site
Dearborn, MI
August 2005

Sample Number	Location	Level of Detection (% asbestos)	Results (% asbestos)	Notes
USGS-S0001	S183	0.1	ND	Sample originally analyzed with a detection limit of 1.0%; Figure 24
USGS-S0002	S416	1.0	ND	Figure 24
USGS-S0003	S578	0.1	ND	Sample originally analyzed with a detection limit of 1.0%; Figure 24
USGS-S0004	S593	1.0	ND	Figure 24

ND = non-detect
NOTE: Samples taken by other contractor

Table 22
Asbestos in Soil Sampling Results
4/12/2005 – USGS II
N-Forcer® Site
Dearborn, MI
August 2005

Sample Number	Location	Level of Detection (% asbestos)	Results (% asbestos)	Notes
USGS-S0005	RAILROAD	1.0	<1.0	tremolite/actinolite
USGS-S0006	S15P	1.0	ND	Figure 24
USGS-S0007	S15G	0.1	ND	Sample originally analyzed with a detection limit of 1.0%; Figure 24
USGS-S0008	S1	1.0	ND	Figure 24
USGS-S0009	S580	1.0	ND	Figure 26

ND = non-detect
NOTE: Samples taken by other contractor

Table 23
Asbestos in Soil Sampling Results
4/18/2005 – Soil I
N-Forcer® Site
Dearborn, MI
August 2005

Sample Number	Location	Level of Detection (% asbestos)	Results (% asbestos)	Notes
WRGD-S0001	S2	1.0	ND	Figure 24
WRGD-S0002	S16	1.0	ND	Figure 24
WRGD-S0003	S33	1.0	ND	Figure 22
WRGD-S0004	S650	1.0	ND	Figure 24
WRGD-S0005	S170	1.0	ND	Figure 24
WRGD-S0006	S166	1.0	ND	Figure 24

ND = non-detect

Table 24
Asbestos in Soil Sampling Results
4/19/2005 – Soil II
N-Forcer® Site
Dearborn, MI
August 2005

Sample Number	Location	Level of detection (% asbestos)	Results (% asbestos)	Notes
WRGD-S0007	S167A	1.0	ND	Figure 23
WRGD-S0008	S167B	1.0	ND	Figure 23
WRGD-S0008	S167C	1.0	ND	Figure 23
WRGD-S0010	S771A	0.1	<0.1	Sample originally analyzed with a detection limit of 1.0%; tremolite/actinolite; Figure 22
WRGD-S0011	S771B	1.0	ND	Figure 22

ND = non-detect

Table 25
Asbestos in Soil Sampling Results
4/20/2005 – Soil III
N-Forcer® Site
Dearborn, MI
August 2005

Sample Number	Location	Level of Detection (% asbestos)	Results (% asbestos)	Notes
WRGD-S0012	S168A	0.09	ND	Figure 23
WRGD-S0013	S168B	0.09	ND	Figure 23
WRGD-S0014	S148A	0.08	ND	Figure 23
WRGD-S0015	S148B	0.08	ND	Figure 23
WRGD-S0016	S148C	0.08	ND	Figure 23
WRGD-S0017	S56A	0.08	ND	Figure 23
WRGD-S0018	S56B	0.08	ND	Figure 23
WRGD-S0019	S56C	0.08	ND	Figure 23
WRGD-S0020	S191A	0.09	ND	Figure 23
WRGD-S0021	S191B	0.09	ND	Figure 23
WRGD-S0022	S191C	0.09	ND	Figure 23
WRGD-S0023	S150A	0.08	ND	Figure 23
WRGD-S0024	S150B	0.08	ND	Figure 23
WRGD-S0025	S150C	0.08	ND	Figure 23
WRGD-S0026	S193A	0.09	ND	Figure 23
WRGD-S0027	S193B	0.07	ND	Figure 23
WRGD-S0028	S193C	0.07	ND	Figure 23

ND = non-detect

Table 26
Asbestos in Soil Sampling Results
4/21/2005 – Soil IV
N-Forcer® Site
Dearborn, MI
August 2005

Sample Number	Location	Level of Detection (% asbestos)	Results (% asbestos)	Notes
WRGD-S0029	S967A	0.08	ND	Figure 22
WRGD-S0030	S967B	0.08	ND	Figure 22
WRGD-S0031	S967C	0.08	ND	Figure 22
WRGD-S0032	S182A	0.08	ND	Figure 22
WRGD-S0033	S182B	0.09	ND	Figure 22
WRGD-S0034	S182C	0.09	ND	Figure 22
WRGD-S0035	S11A	0.09	ND	Figure 22
WRGD-S0036	S11B	0.09	ND	Figure 22
WRGD-S0037	S11C	0.08	ND	Figure 22
WRGD-S0038	S956A	0.09	ND	Figure 22
WRGD-S0039	S956B	0.07	ND	Figure 22
WRGD-S0040	S956C	0.08	ND	Figure 22
WRGD-S0041	S190A	0.08	ND	Figure 22
WRGD-S0042	S190B	0.09	ND	Figure 22
WRGD-S0043	S190C	0.08	ND	Figure 22
WRGD-S0044	S952A	0.09	ND	Figure 22
WRGD-S0045	S952B	0.09	ND	Figure 22

ND = non-detect

Table 27
Asbestos in Soil Sampling Results
4/22/2005 – Soil V
N-Forcer® Site
Dearborn, MI
August 2005

Sample Number	Location	Level of Detection (% asbestos)	Results (% asbestos)	Notes
WRGD-S0046	S670A	0.08	ND	Figure 22
WRGD-S0047	S670B	0.08	ND	Figure 22
WRGD-S0048	S670C	0.09	ND	Figure 22
Confirmation #1	Area #1	0.1	1.2	tremolite/actinolite

ND = non-detect

Table 28
Asbestos in Soil Sampling Results
4/25/2005 – Soil VI
N-Forcer® Site
Dearborn, MI
August 2005

Sample Number	Location	Level of Detection (% asbestos)	Results (% asbestos)	Notes
WRGD-S0049	S901A	0.1	<0.1	actinolite/tremolite; Figure 22
WRGD-S0050	S586A	0.08	ND	Figure 22
WRGD-S0051	S586B	0.1	<0.1	actinolite/tremolite; Figure 22
WRGD-S0052	S932A	0.09	ND	Figure 22
WRGD-S0053	S932B	0.09	ND	Figure 22
WRGD-S0054	S932C	0.09	ND	Figure 22
WRGD-S0055	S132A	0.08	ND	Figure 22
WRGD-S0056	S132B	0.09	ND	Figure 22
WRGD-S0057	S132C	0.1	<0.1	actinolite/tremolite; Figure 22
WRGD-S0058	S428A	0.08	ND	Figure 22
WRGD-S0059	S428B	0.09	ND	Figure 22
WRGD-S0060	S130A	0.1	<0.1	actinolite/tremolite; Figure 22
WRGD-S0061	S130B	0.1	<0.1	actinolite/tremolite; Figure 22
WRGD-S0062	S130C	0.1	<0.1	actinolite/tremolite; Figure 22

ND = non-detect

Table 29
Asbestos in Soil Sampling Results
4/26/2005 – Soil VII
N-Forcer® Site
Dearborn, MI
August 2005

Sample Number	Location	Level of Detection (% asbestos)	Results (% asbestos)	Notes
WRGD-S0063	S419A	0.08	ND	Figure 21
WRGD-S0064	S419B	0.08	ND	Figure 21
WRGD-S0065	S419C	0.08	ND	Figure 21
WRGD-S0066	S429A	0.09	ND	Figure 21
WRGD-S0067	S429B	0.09	ND	Figure 21
WRGD-S0068	S429C	0.09	ND	Figure 21
WRGD-S0069	S430A	0.09	ND	Figure 21
WRGD-S0070	S430B	0.09	ND	Figure 21
WRGD-S0071	S857A	0.05	ND	Figure 21
WRGD-S0072	S857B	0.04	ND	Figure 21
WRGD-S0073	S973A	0.09	ND	Figure 21
WRGD-S0074	S973B	0.09	ND	Figure 21
WRGD-S0075	S973C	0.09	ND	Figure 21
WRGD-S0076	S378A	0.08	ND	Figure 21
WRGD-S0077	S378B	0.07	ND	Figure 21
WRGD-S0078	S378C	0.06	ND	Figure 21
WRGD-S0079	Area 2	0.1	4.4	tremolite/actinolite

ND = non-detect

Table 30
Asbestos in Soil Sampling Results
4/27/2005 – Soil VIII
N-Forcer® Site
Dearborn, MI
August 2005

Sample Number	Location	Level of Detection (% asbestos)	Results (% asbestos)	Notes
WRGD-S0080	S141A	0.09	ND	Figure 24
WRGD-S0081	S141B	0.09	ND	Figure 24
WRGD-S0082	S169A	0.06	ND	Figure 25
WRGD-S0083	S197A	0.09	ND	Figure 24
WRGD-S0084	S197B	0.09	ND	Figure 24
WRGD-S0085	S418A	0.09	ND	Figure 21
WRGD-S0086	S418B	0.09	ND	Figure 21
WRGD-S0087	S418C	0.08	ND	Figure 21
WRGD-S0088	Area #2	0.07	0.9	tremolite/actinolite

ND = non-detect

Table 31
Asbestos in Soil Sampling Results
4/29/2005 – Soil IX
N-Forcer® Site
Dearborn, MI
August 2005

Sample Number	Location	Level of Detection (% asbestos)	Results (% asbestos)	Notes
WRGD-S0089	Area #3	0.09	1.2	tremolite/actinolite

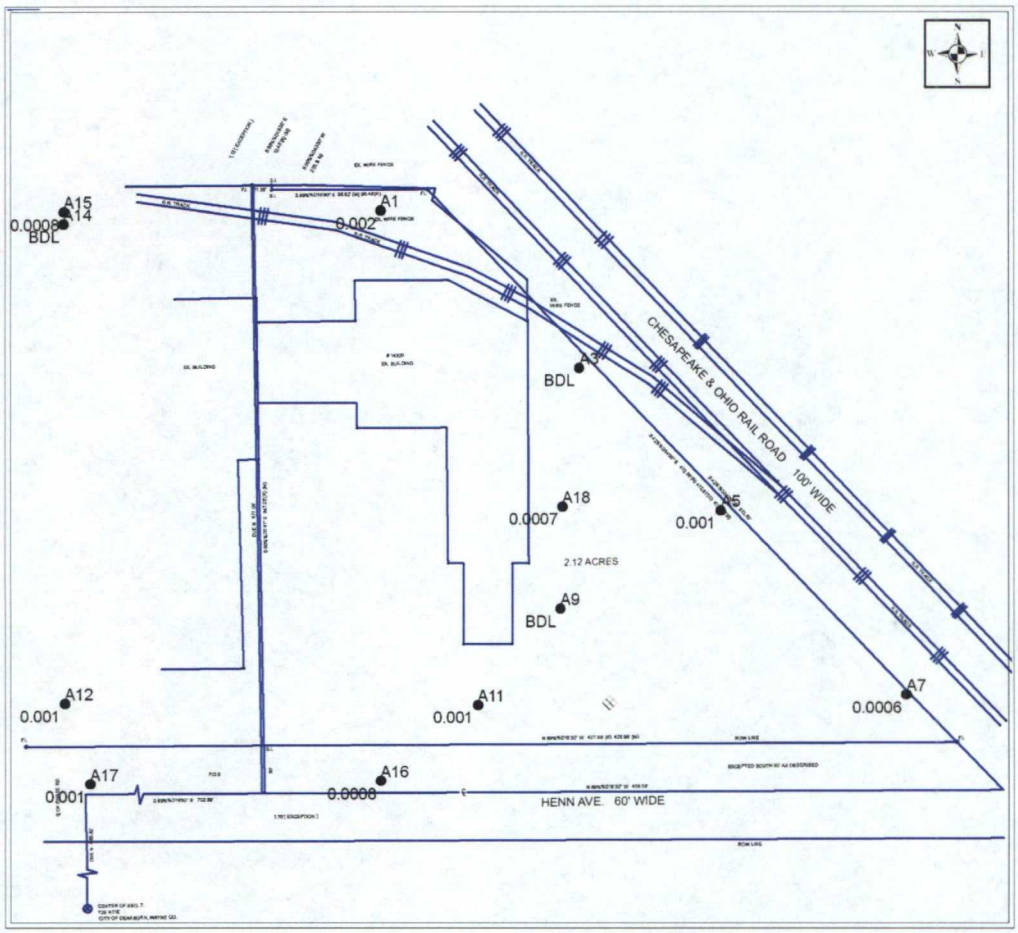
ND = non-detect

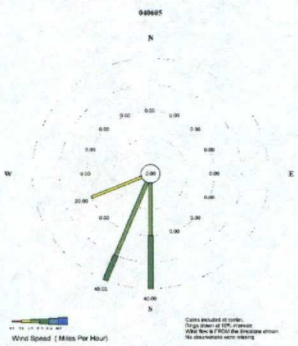
Table 32
Asbestos in Soil Sampling Results
5/17/2005 – Soil X
N-Forcer® Site
Dearborn, MI
August 2005

Sample Number	Location	Level of Detection (% asbestos)	Results (% asbestos)	Notes
CSX-01	RAILROAD	0.1	0.23	tremolite/actinolite
CSX-02	RAILROAD	0.1	2.1	tremolite/actinolite
CSX-03	RAILROAD	0.1	<0.1	tremolite/actinolite
WRGD-S0090	S771D	0.1	ND	Figure 23
WRGD-S0091	S771E	0.1	<0.1	tremolite/actinolite; Figure 22
WRGD-S0092	S771F	0.1	ND	Figure 22

ND = non-detect

Figures





Legend

- Meteorological Station
- Sample Point
- BDL Below Detection Limit

Please refer to the analytical results for the detection limits.

Author's statement:

Map Creation Date: 02JUN2005

Coordinate system: GCS NAD83

Data: proj\wr grace dearborn
MXD file: proj\wr grace dearborn

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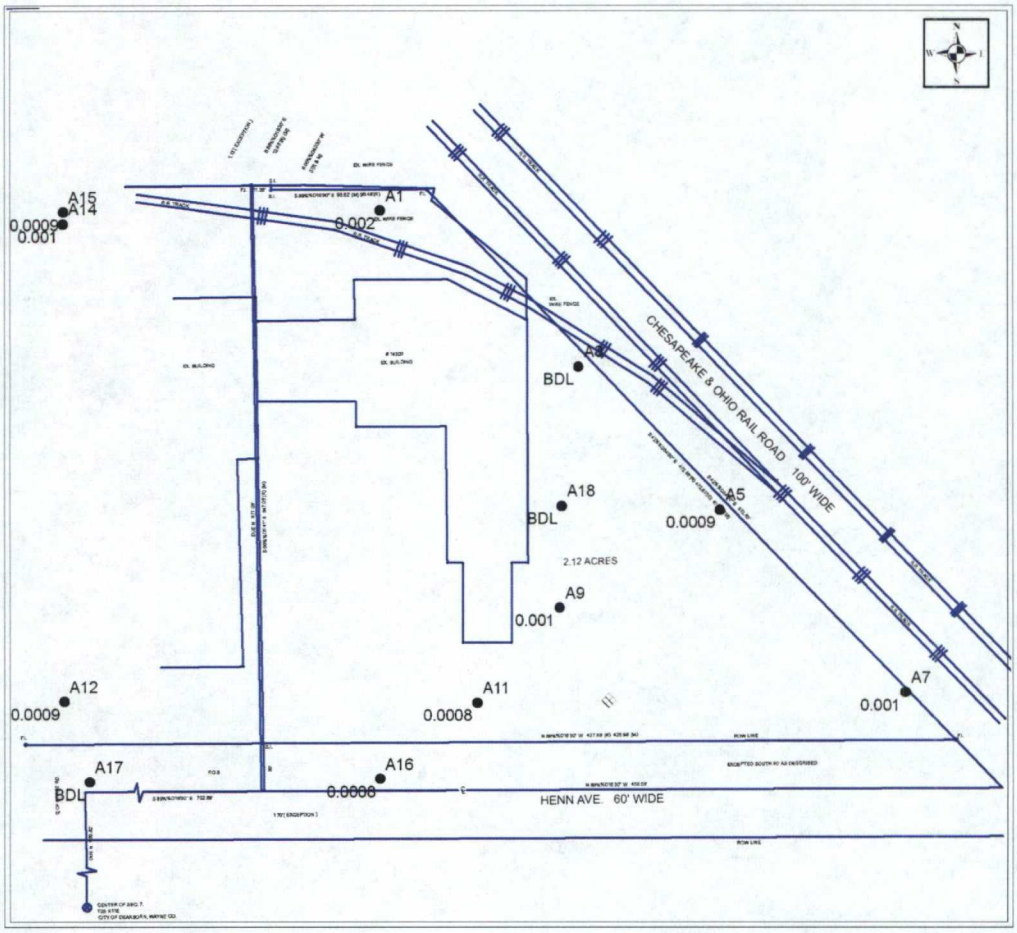
Figure 1
Baseline I
Asbestos in Air Samples (fibers/cc)
N-Forcer
Sampled April 6, 2005
Dearborn, MI



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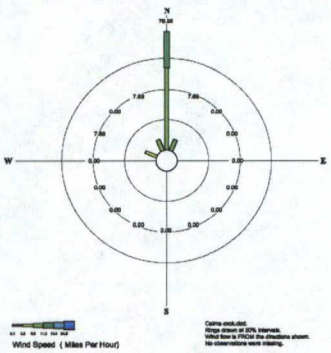

Legend

- Meteorological Station
- Sample Point
- BDL Below Detection Limit

Please refer to the analytical results for the detection limits.

Author's statement:

Map Creation Date: 02JUN2005

Coordinate system: GCS NAD83

Data: proj\wr grace dearborn
MXD file: proj\wr grace dearborn

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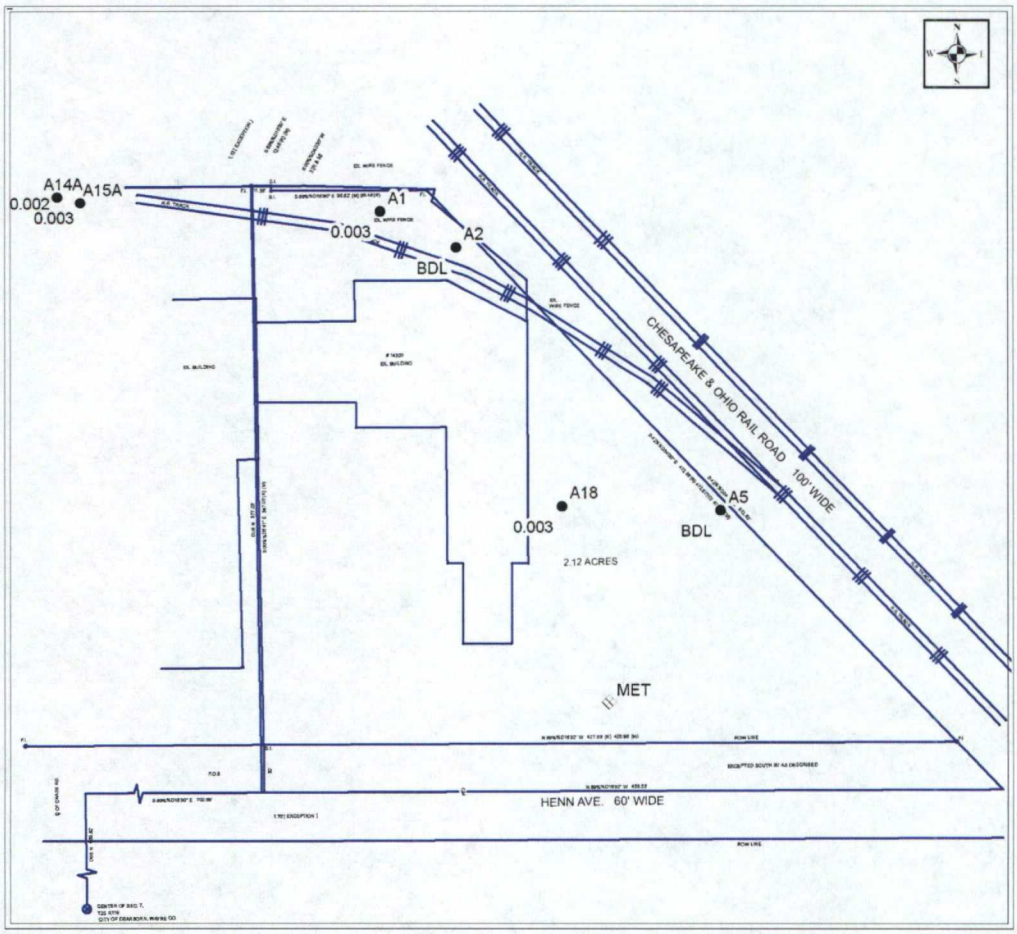
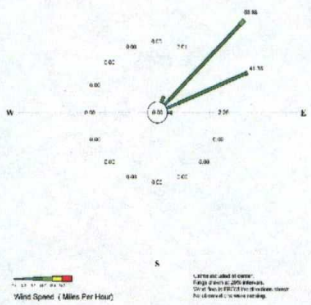
W.A.# EAC00118

Figure 2
Baseline II
Asbestos in Air Samples (fibers/cc)
N-Forcer
Sampled April 7, 2005
Dearborn, MI



25 0 25 50 75 100 Meters



Legend

- Meteorological Station
- Sample Point
- BDL Below Detection Limit

Please refer to the analytical results for the detection limits.

Author's statement:

Map Creation Date: 02JUN2005

Coordinate system: GCS NAD83

Data: proj\wr grace dearborn
MXD file: proj\wr grace dearborn

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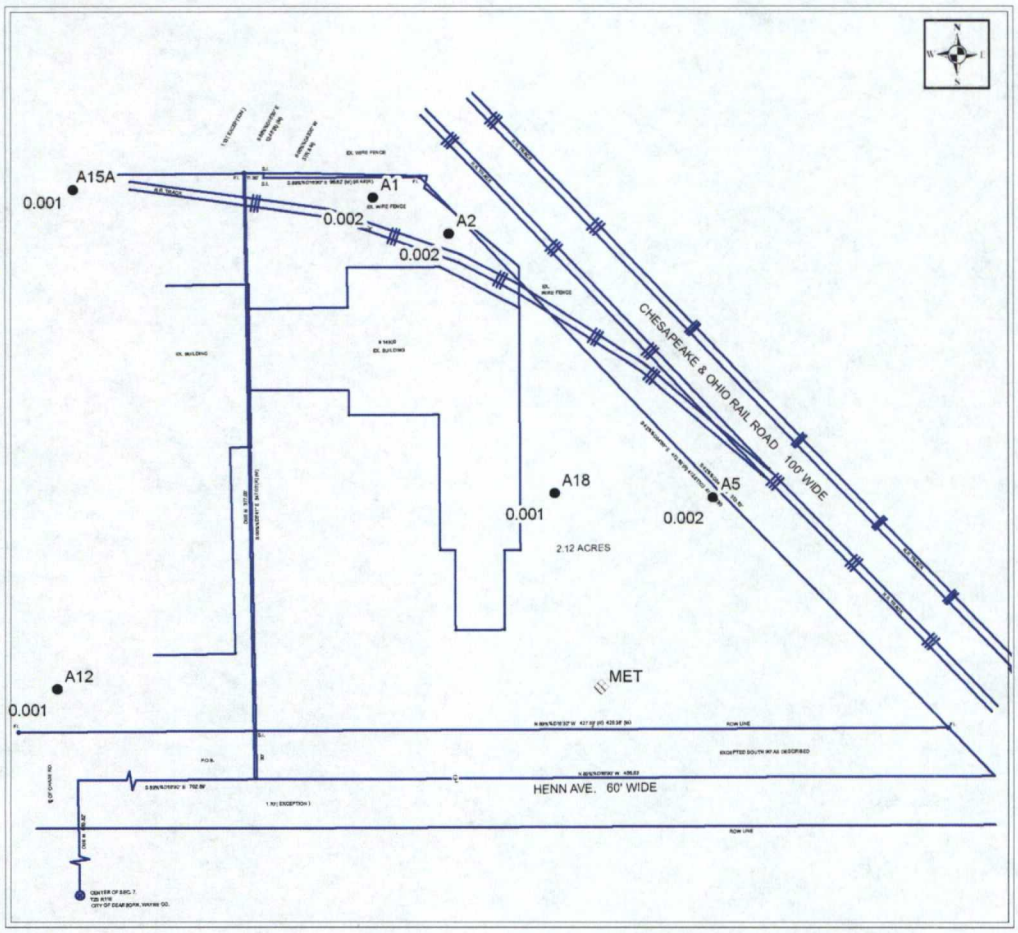
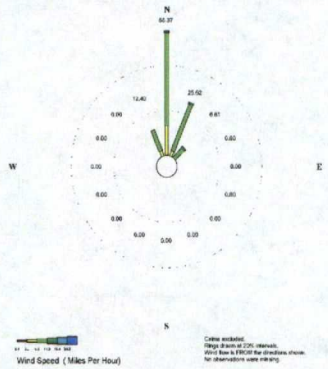
Figure 3
Excavation I
Asbestos in Air Samples (fibers/cc)
N-Forcer
Sampled April 11, 2005
Dearborn, MI





Legend

- Meteorological Station
- Sample Point

Please refer to the analytical results for the detection limits.

Author's statement:

Map Creation Date: 02JUN2005

Coordinate system: GCS NAD83

Data: proj\wr grace dearborn
MXD file: proj\wr grace dearborn

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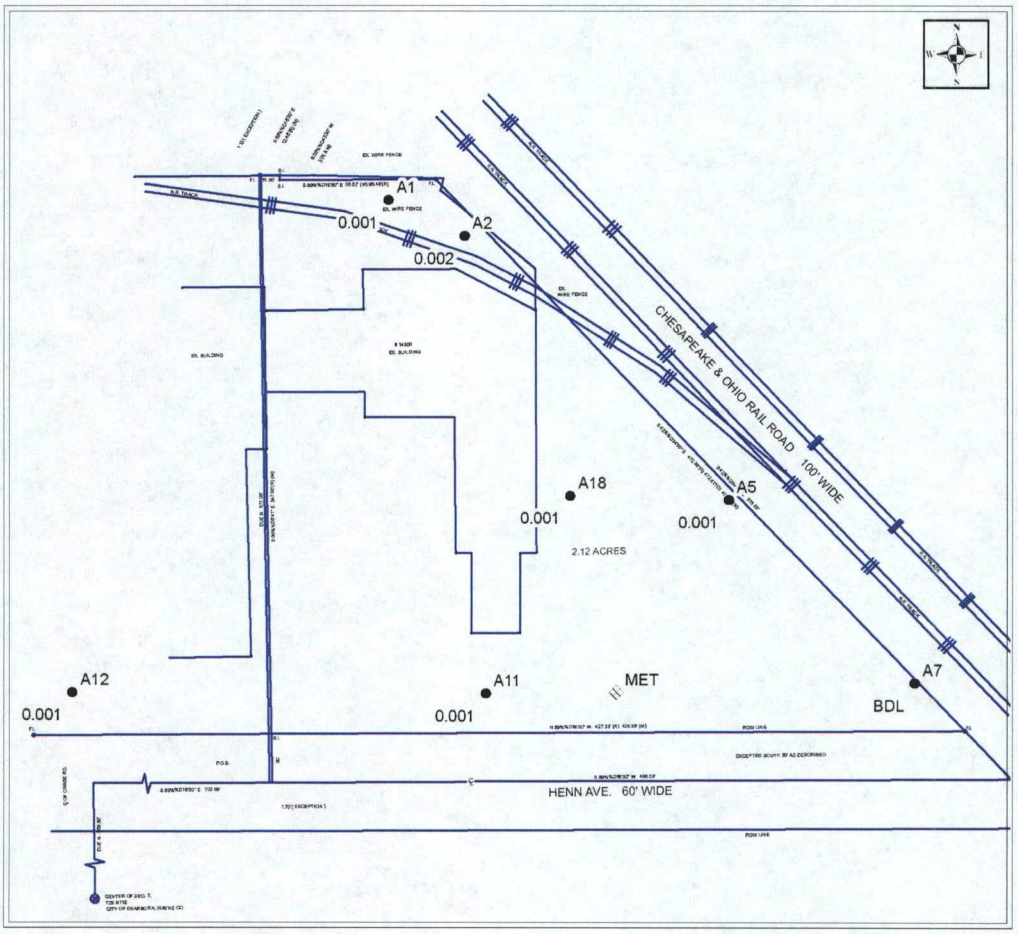
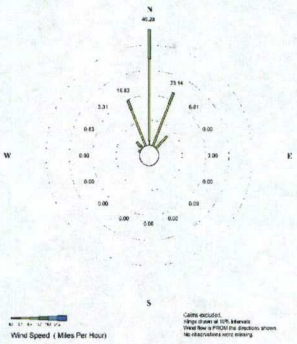
Figure 4
Excavation II
Asbestos in Air Samples (fibers/cc)
N-Forcer
Sampled April 13, 2005
Dearborn, MI





Legend

- Meteorological Station
- Sample Location
- BDL Below Detection Limit

Please refer to the analytical results for the detection limits.

Author's statement:

Map Creation Date: 02JUN2005

Coordinate system: GCS NAD83

Data: proj\wr grace dearborn
MXD file: proj\wr grace dearborn

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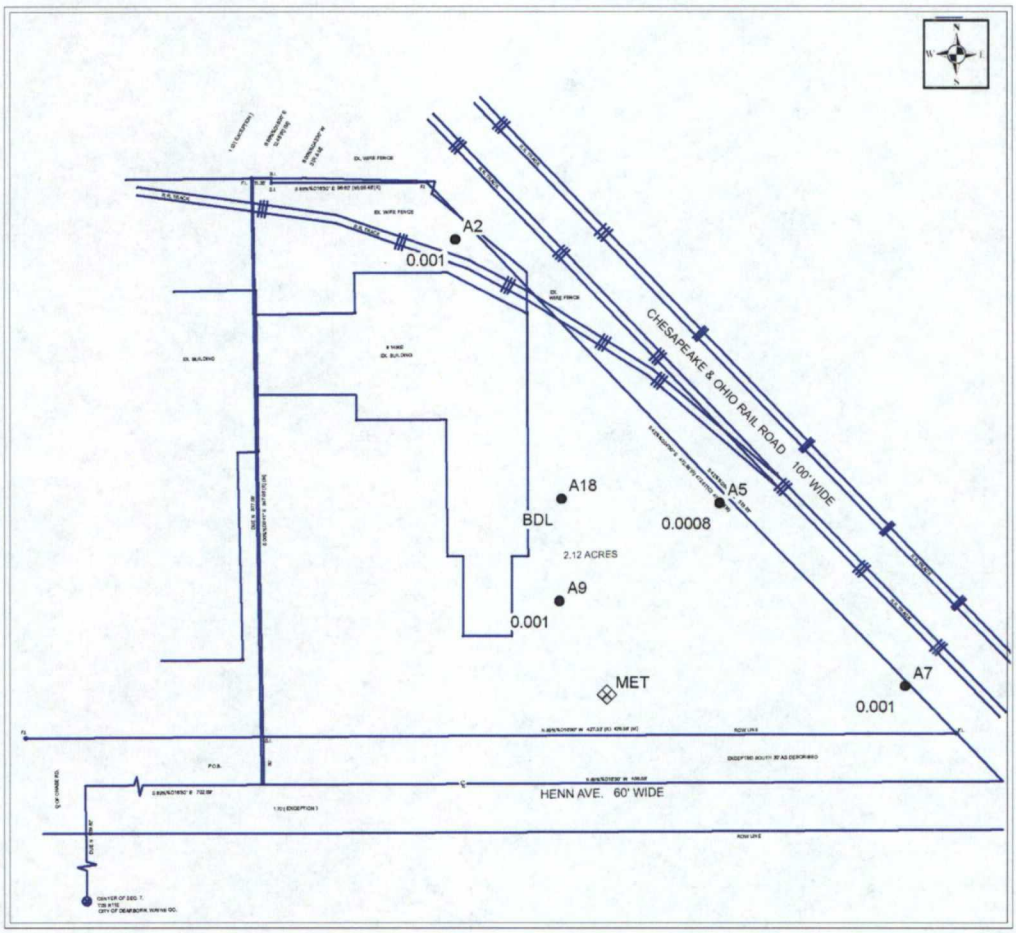
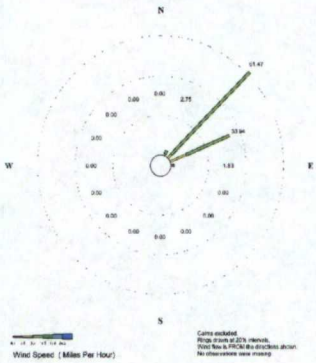
Figure 5
Excavation III
Asbestos in Air Samples (fibers/cc)
N-Forcer
Sampled April 14, 2005
Dearborn, MI





Legend

- Meteorological Station
- Sample Location
- BDL Below Detection Limit

Please refer to the analytical results for the detection limits.

Author's statement:

Map Creation Date: 06jun2005

Coordinate system: GCS NAD83

Data:
MXD file:

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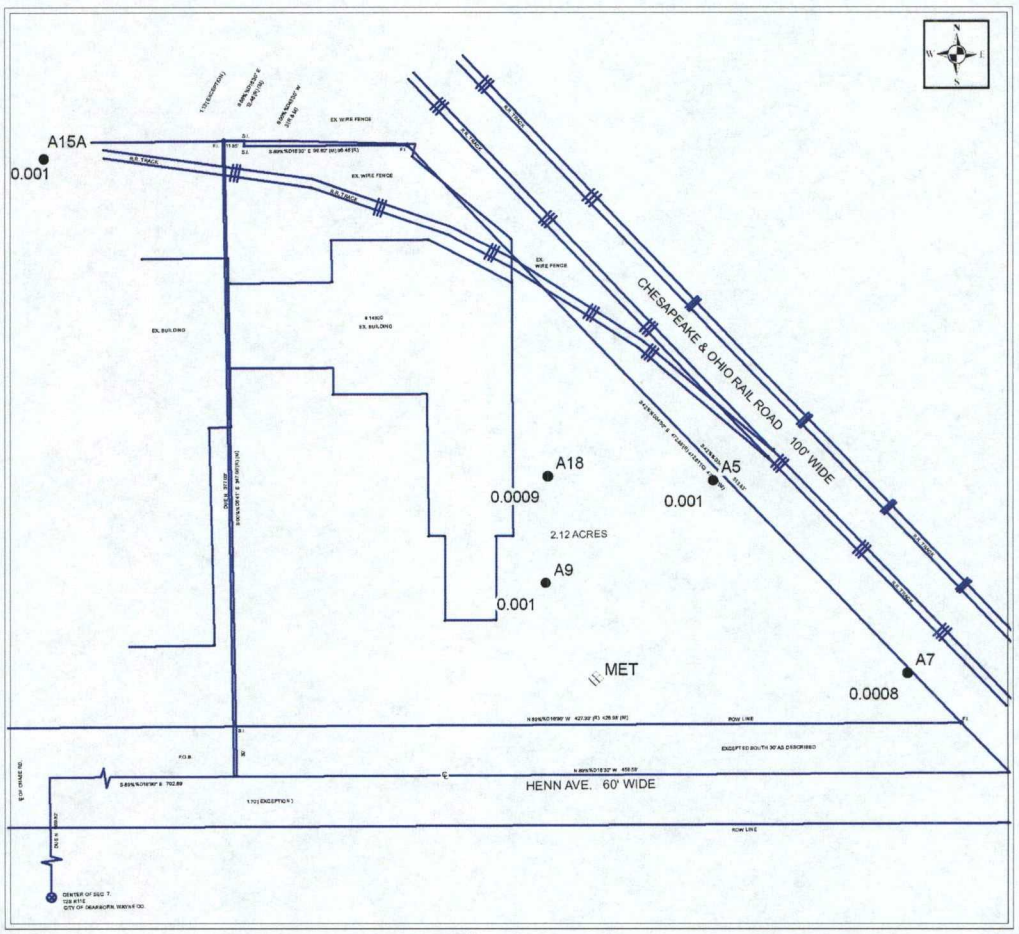
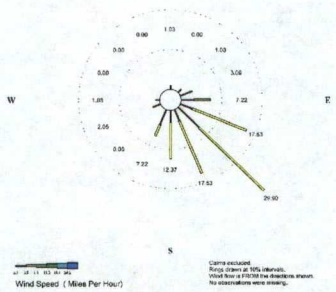
Figure 6
Excavation IV
Asbestos in Air Samples (fibers/cc)
N-Forcer
Sampled April 15, 2005
Dearborn, MI



25 0 25 50 75 100 Meters



Legend

- Meteorological Station
- Sample Location

Please refer to the analytical results for the detection limits.

Author's statement:

Map Creation Date: 06JUN2005

Coordinate system: GCS NAD83

Data: proj\wr grace dearborn
MXD file: proj\wr grace dearborn

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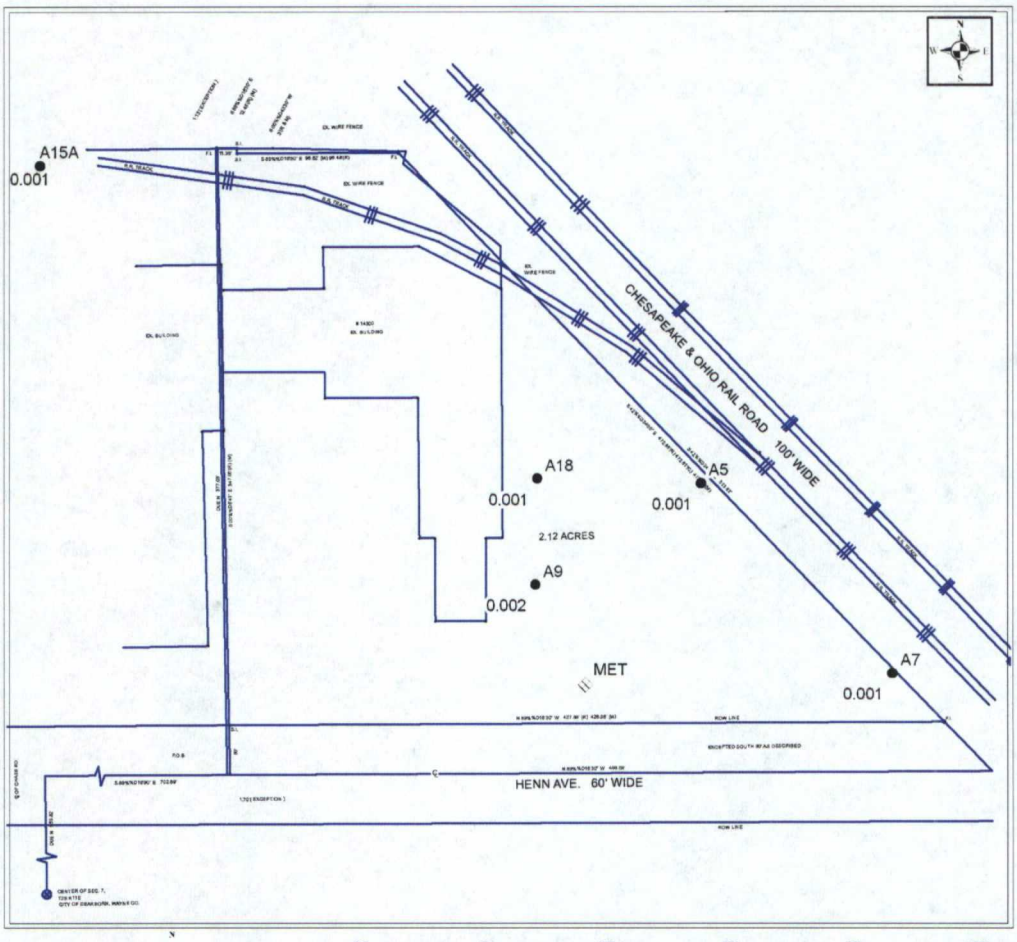
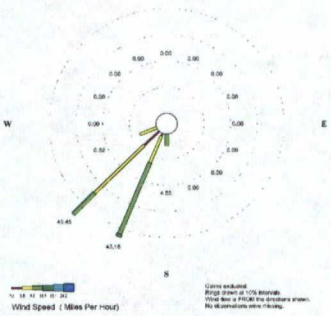
Figure 7
Excavation V
Asbestos in Air Samples (fibers/cc)
N-Forcer
Sampled April 16, 2005
Dearborn, MI



25 0 25 50 75 100 Meters

Legend

- Meteorological Station
- Sample Location



Please refer to the analytical results for the detection limits.

Author's statement:

Map Creation Date: 06JUN2005

Coordinate system: GCS NAD83

Data: proj\wr grace dearborn
MXD file: proj\wr grace dearborn

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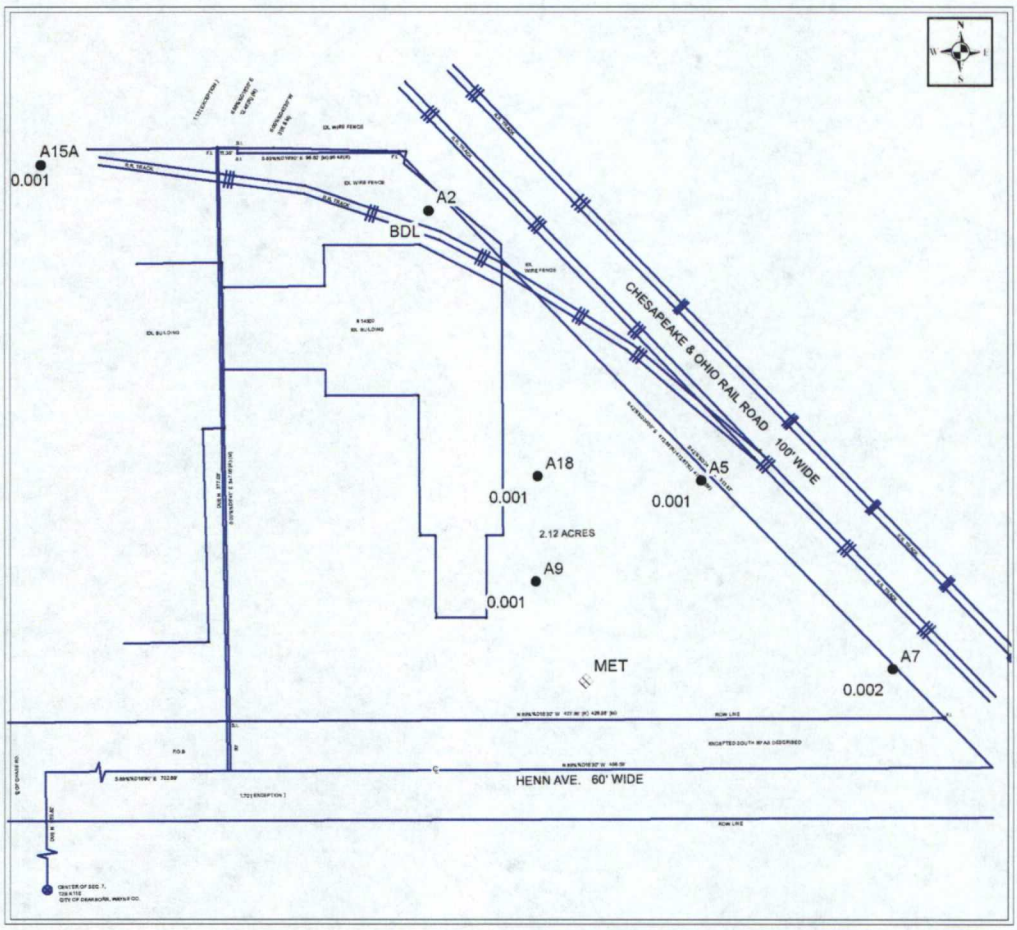
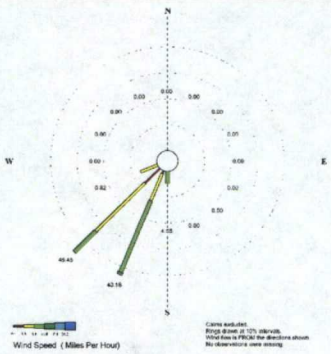
Figure 8
Excavation VI
Asbestos in Air Samples (fibers/cc)
N-Forcer
Sampled April 18, 2005
Dearborn, MI



25 0 25 50 75 100 Meters



Legend

- Meteorological Station
- Sample Location
- BDL Below Detection Limit

Please refer to the analytical results for the detection limits.

Author's statement:

Map Creation Date: 08JUN2005

Coordinate system: GCS NAD83

Data: proj\wr grace dearborn
MXD file: proj\wr grace dearborn

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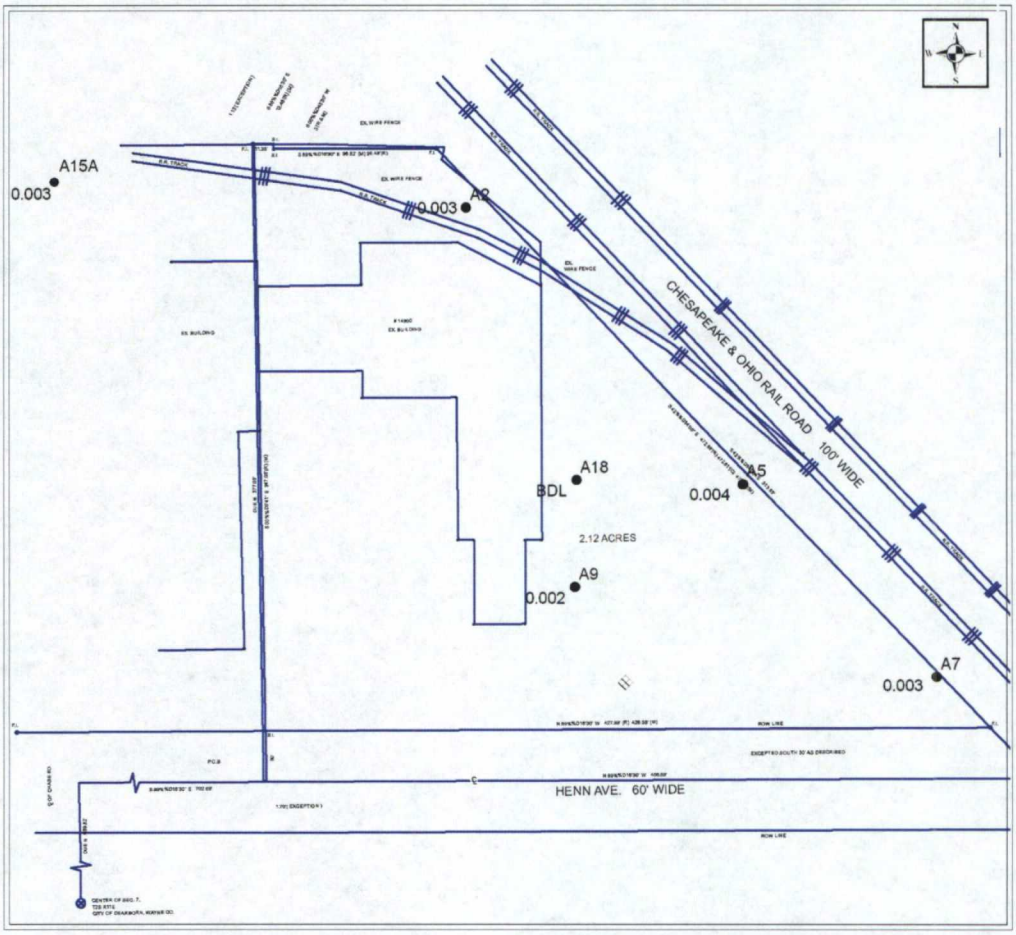
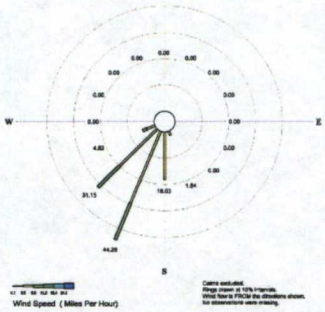
Figure 9
Excavation VII
Asbestos in Air Samples (fibers/cc)
N-Forcer
Sampled April 19, 2005
Dearborn, MI



25 0 25 50 75 100 Meters



Legend

- Meteorological Station
- Sample Location
- BDL Below Detection Limit

Please refer to the analytical results for the detection limits.

Author's statement:

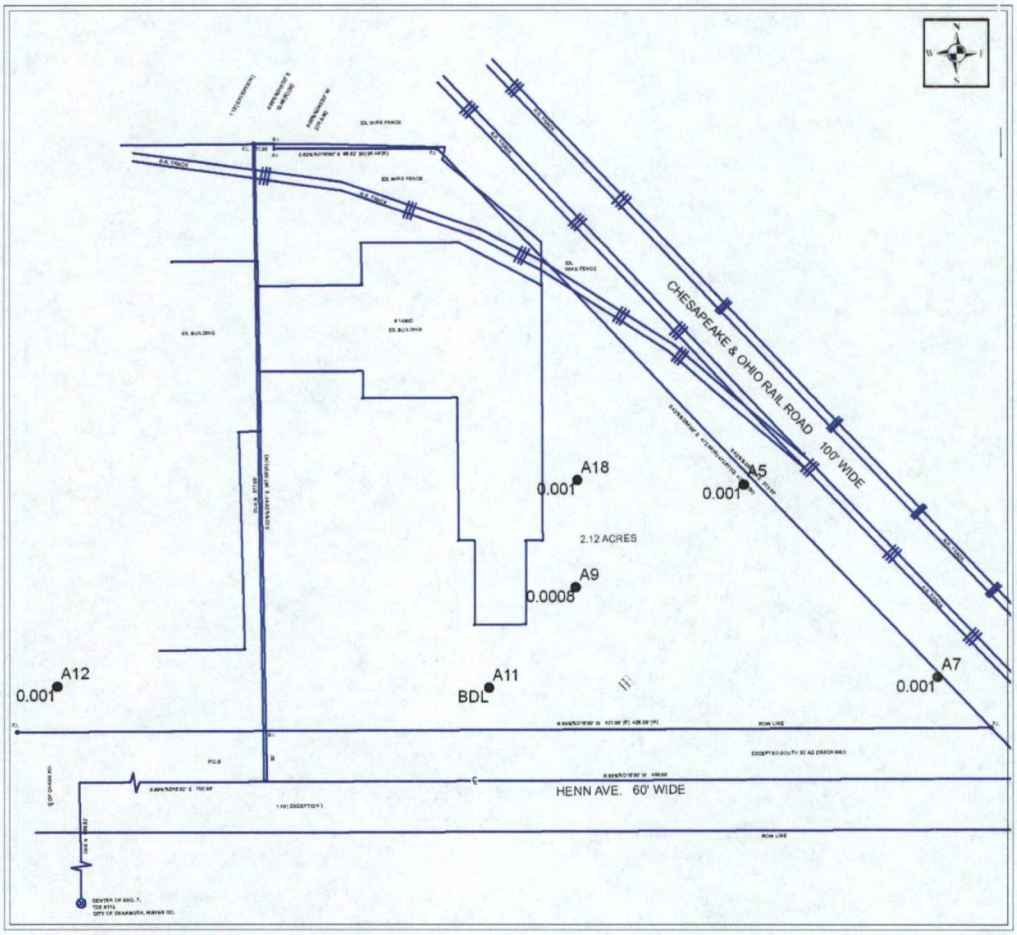
Map Creation Date: 06JUN2005

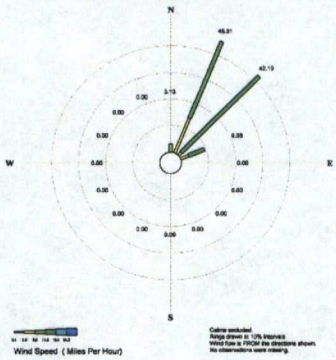
Coordinate system: GCS NAD83

Data: proj\wr grace dearborn
MXD file: proj\wr grace dearborn

U.S. EPA Environmental Response Team
Response, Engineering and Analytical Contract
EP-C04-032
W.A.# EAC00118

Figure 10
Excavation VIII
Asbestos in Air Samples (fibers/cc)
N-Forcer
Sampled April 20, 2005
Dearborn, MI





Legend

- Meteorological Station
- Sample Location
- BDL Below Detection Limit

Please refer to the analytical results for the detection limits.

Author's statement:

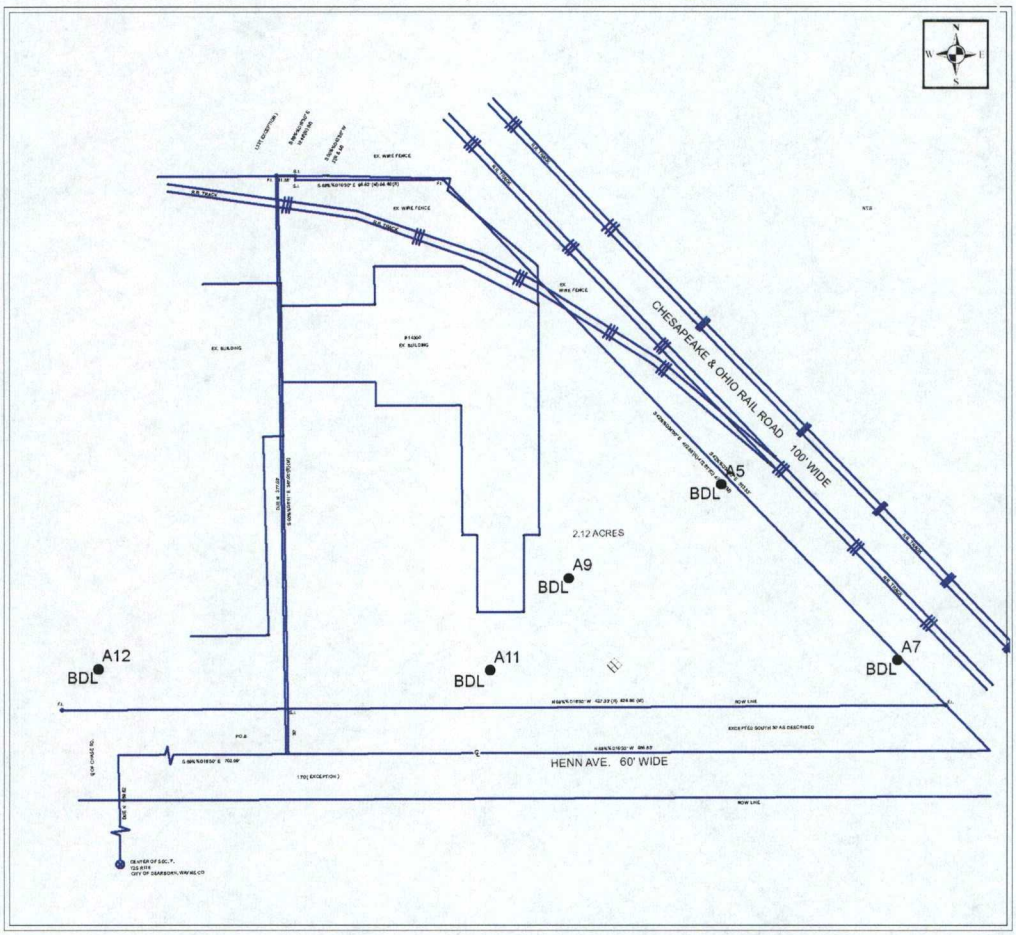
Map Creation Date: 06JUN2005

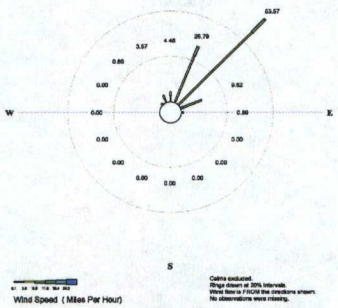
Coordinate system: GCS NAD83

Data: proj\wr grace dearborn
MXD file: proj\wr grace dearborn

U.S. EPA Environmental Response Team
Response, Engineering and Analytical Contract
EP-C04-032
W.A.# EAC00118

Figure 11
Excavation IX
Asbestos in Air Samples (fibers/cc)
N-Forcer
Sampled April 21, 2005
Dearborn, MI





Legend

- Meteorological Station
- Sample Location
- BDL Below Detection Limit

Please refer to the analytical results for the detection limits.

Author's statement:

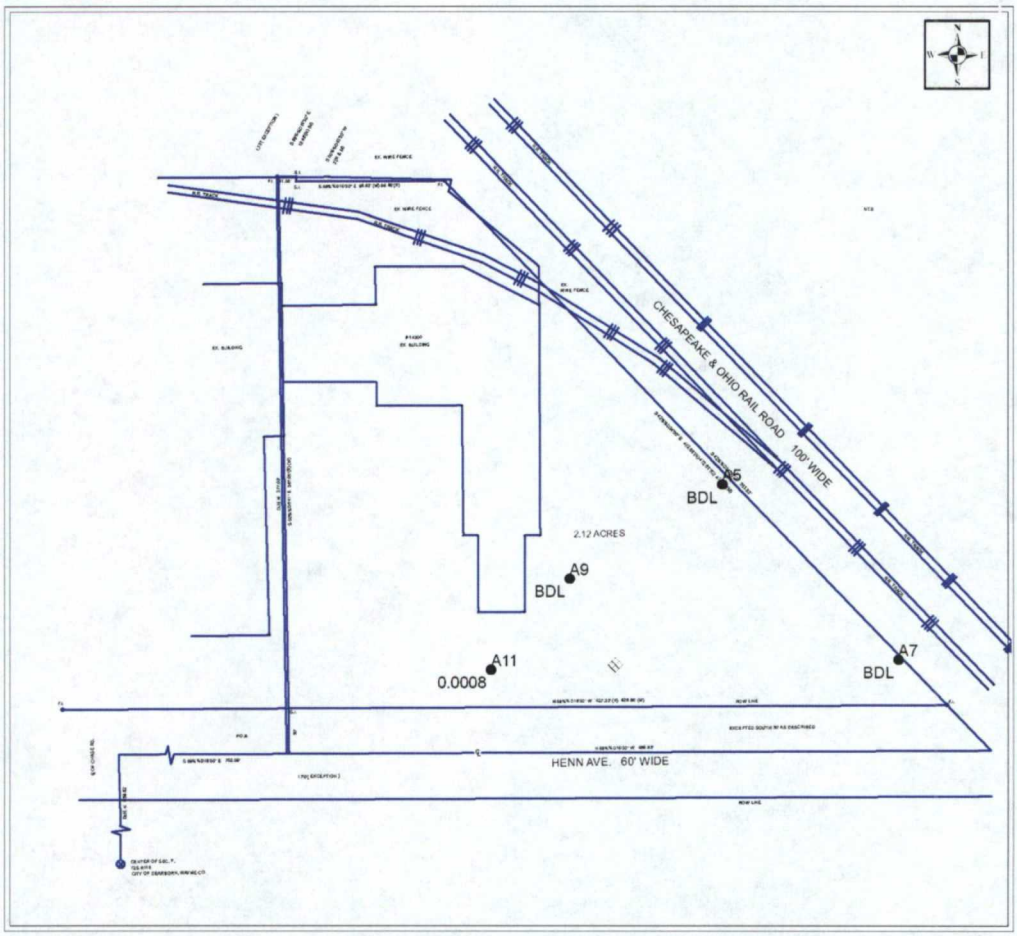
Map Creation Date: 06JUN2005

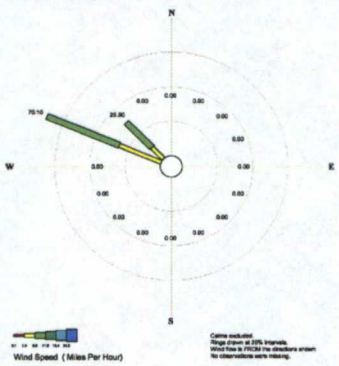
Coordinate system: GCS NAD83

Data: proj\wr grace dearborn
MXD file: proj\wr grace dearborn

U.S. EPA Environmental Response Team
Response, Engineering and Analytical Contract
EP-C04-032
W.A.# EAC00118

Figure 12
Excavation X
Asbestos in Air Samples (fibers/cc)
N-Forcer
Sampled April 22, 2005
Dearborn, MI





Legend

- Meteorological Station
- Sample Location
- BDL Below Detection Limit

Please refer to the analytical results for the detection limits.

Author's statement:

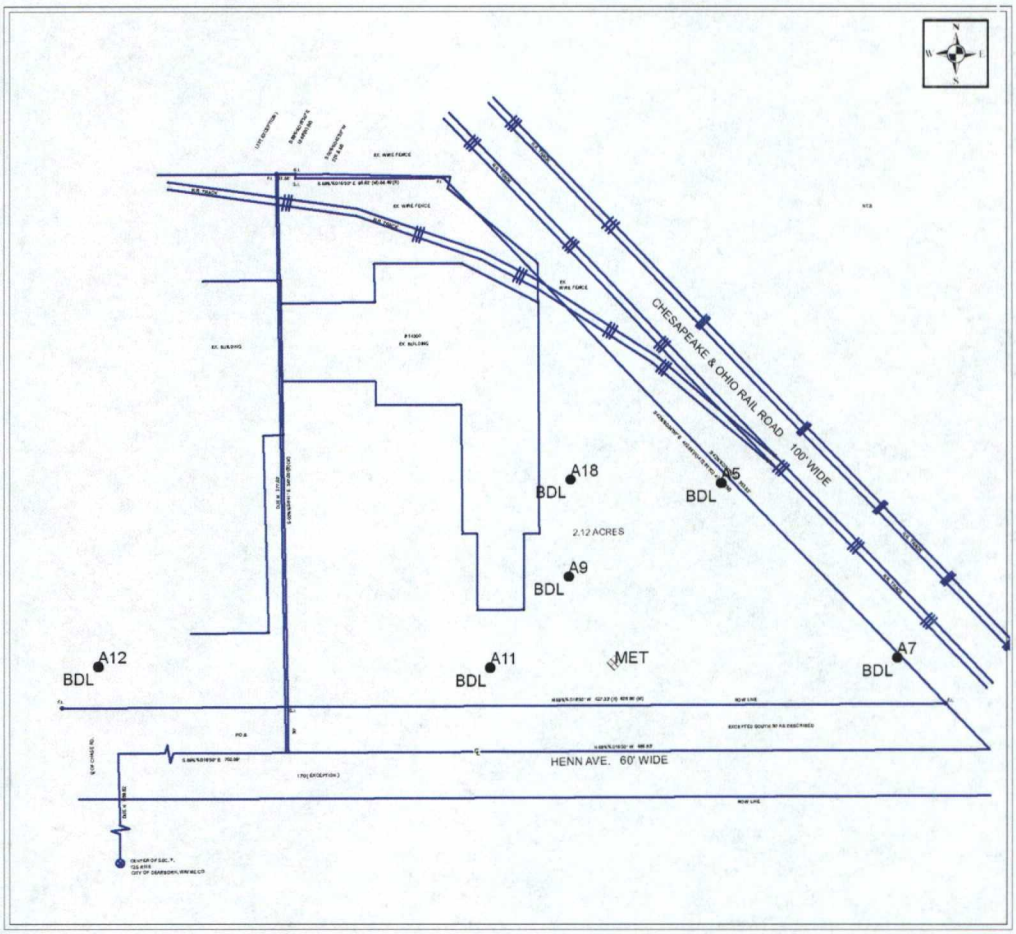
Map Creation Date: 06JUN2005

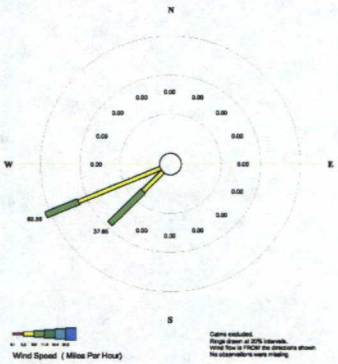
Coordinate system: GCS NAD83

Data: proj\wr grace dearborn
MXD file: proj\wr grace dearborn

U.S. EPA Environmental Response Team
Response, Engineering and Analytical Contract
EP-C04-032
W.A.# EAC00118

Figure 13
Excavation XI
Asbestos in Air Samples (fibers/cc)
N-Forcer
Sampled April 23, 2005
Dearborn, MI





Legend

- Meteorological Station
- Sample Location
- BDL Below Detection Limit

Please refer to the analytical results for the detection limits.

Author's statement:

Map Creation Date: 06JUN2005

Coordinate system: GCS NAD83

Data: proj\wr grace dearborn
MXD file: proj\wr grace dearborn

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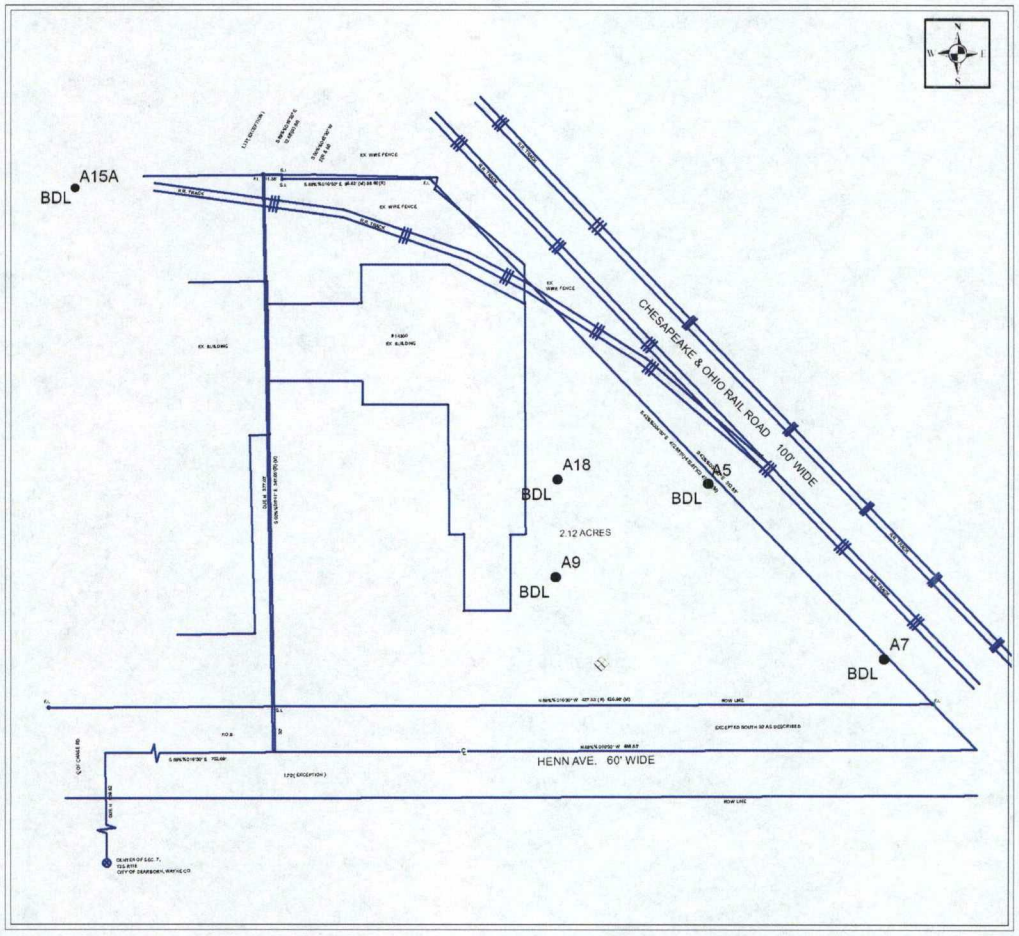
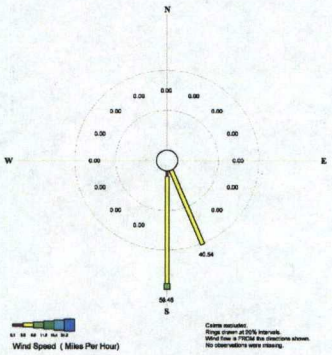
Response, Engineering and Analytical Contract
EP-C04-032
W.A.# EAC00118

Figure 14
Excavation XII
Asbestos in Air Samples (fibers/cc)
N-Forcer
Sampled April 25, 2005
Dearborn, MI





Legend

- Meteorological Station
- Sample Location
- BDL Below Detection Limit

Please refer to the analytical results for the detection limits.

Author's statement:

Map Creation Date: 06JUN2005

Coordinate system: GCS NAD83

Data: proj\wr grace dearborn
MXD file: proj\wr grace dearborn

U.S. EPA Environmental Response Team
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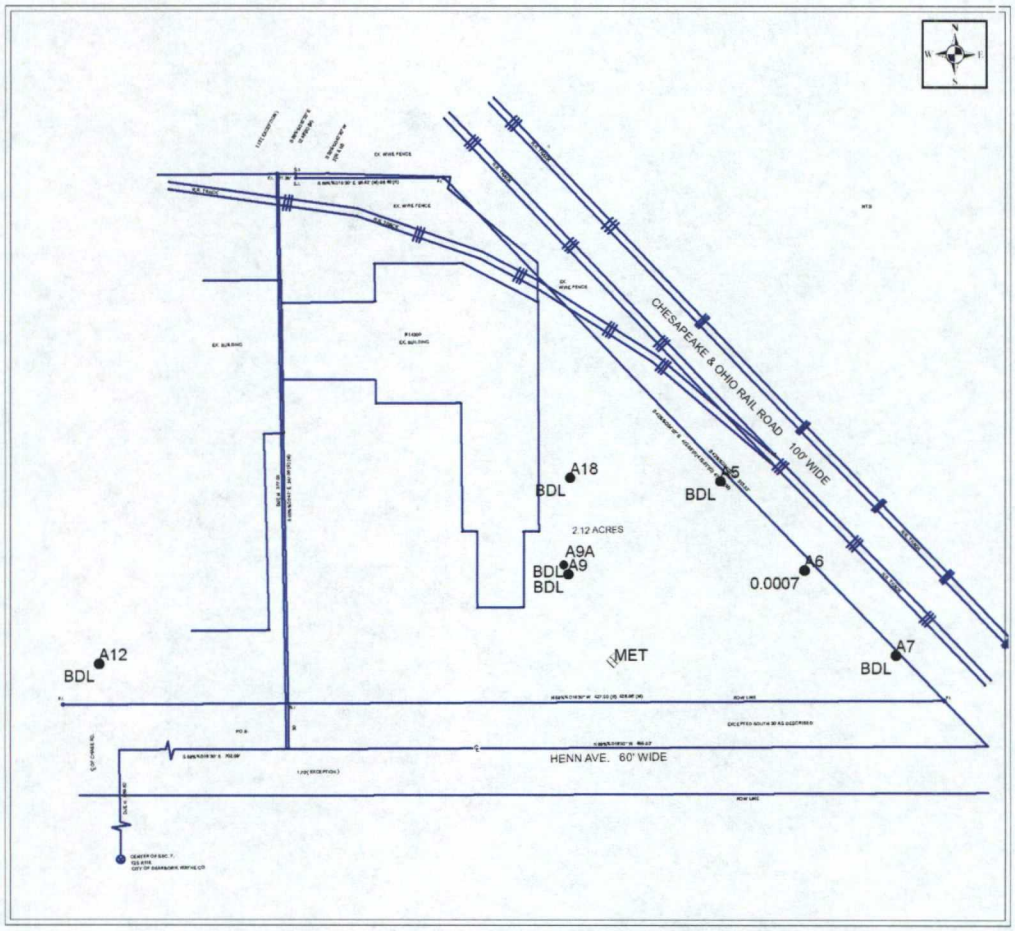
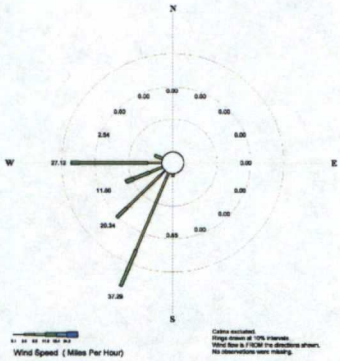
W.A.# EAC00118

Figure 15
Excavation XIII
Asbestos in Air Samples (fibers/cc)
N-Forcer
Sampled April 26, 2005
Dearborn, MI



25 0 25 50 75 100 Meters



Legend

- Meteorological Station
- Sample Location
- BDL Below Detection Limit

Please refer to the analytical results for the detection limits.

Author's statement:

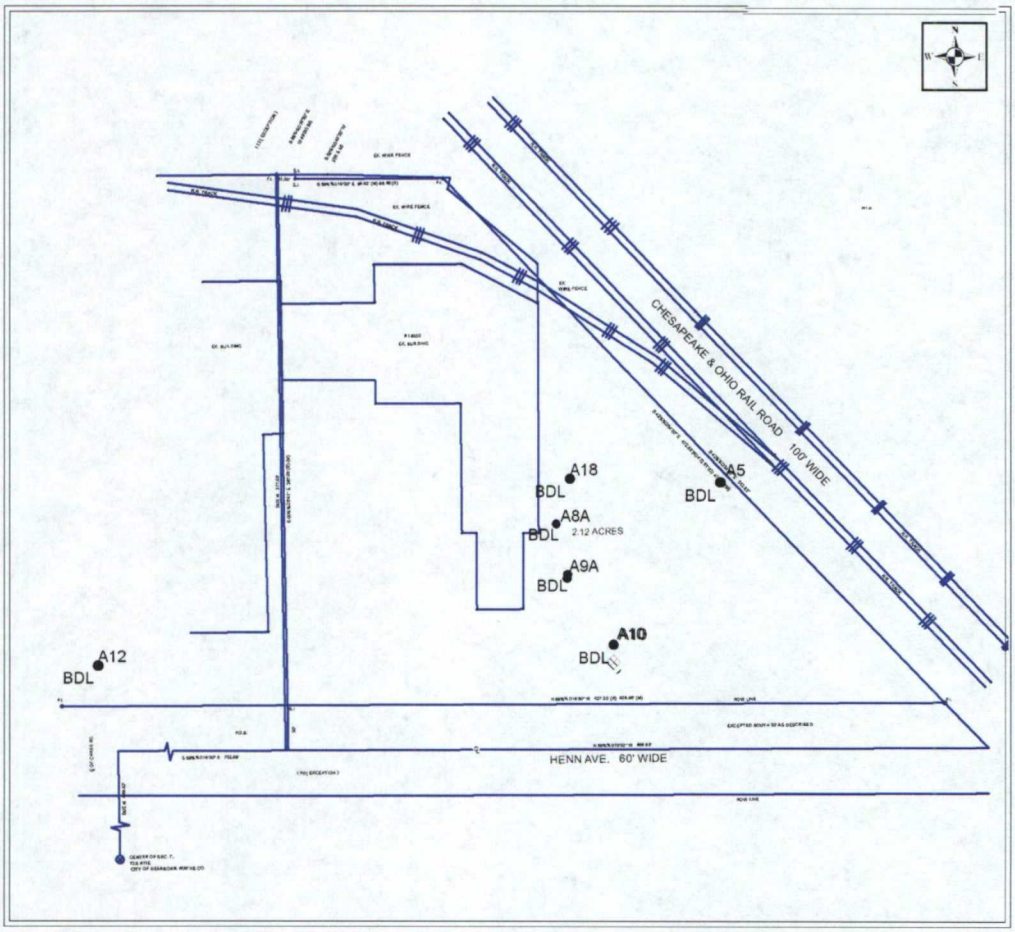
Map Creation Date: 06JUN2005

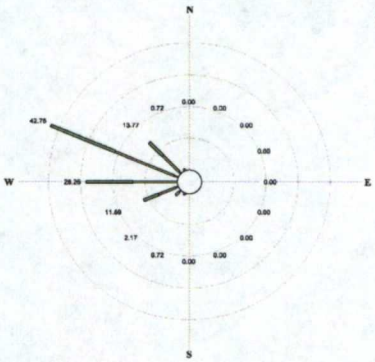
Coordinate system: GCS NAD83

Data: proj\wr grace dearborn
MXD file: proj\wr grace dearborn

U.S. EPA Environmental Response Team
Response, Engineering and Analytical Contract
EP-C04-032
W.A.# EAC00118

Figure 16
Excavation XIV
Asbestos in Air Samples (fibers/cc)
N-Forcer
Sampled April 27, 2005
Dearborn, MI





Legend

- Meteorological Station
- Sample Location
- BDL Below Detection Limit

Please refer to the analytical results for the detection limits.

Author's statement:

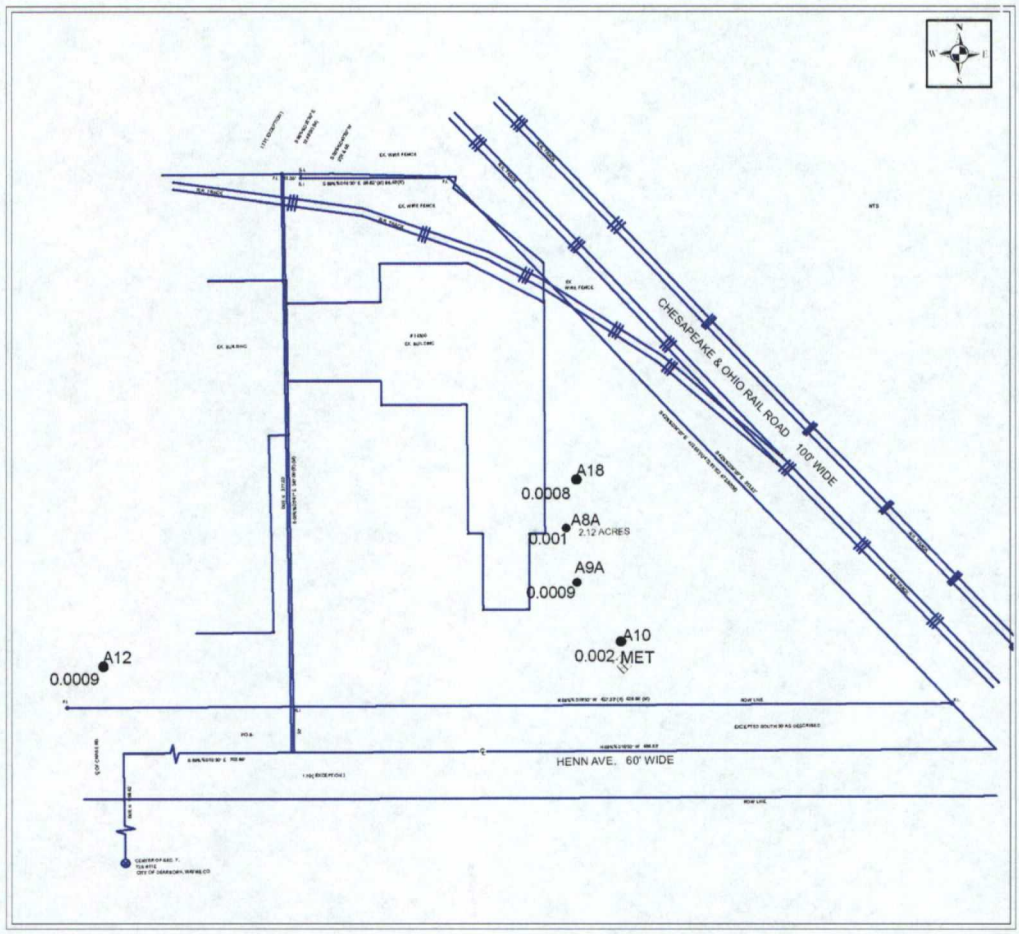
Map Creation Date: 06JUN2005

Coordinate system: GCS NAD83

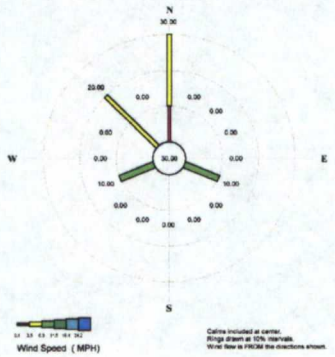
Data: proj\wr grace dearborn
MXD file: proj\wr grace dearborn

U.S. EPA Environmental Response Team
Response, Engineering and Analytical Contract
EP-C04-032
W.A.# EAC00118

Figure 17
Excavation XV
Asbestos in Air Samples (fibers/cc)
N-Forcer
Sampled April 28, 2005
Dearborn, MI



25 0 25 50 75 100 Meters



Legend

- Meteorological Station
- Sample Location
- BDL Below Detection Limit

Please refer to the analytical results for the detection limits.

Author's statement:

Map Creation Date: 06JUN2005

Coordinate system: GCS NAD83

Data: proj\wr grace dearborn
MXD file: proj\wr grace dearborn

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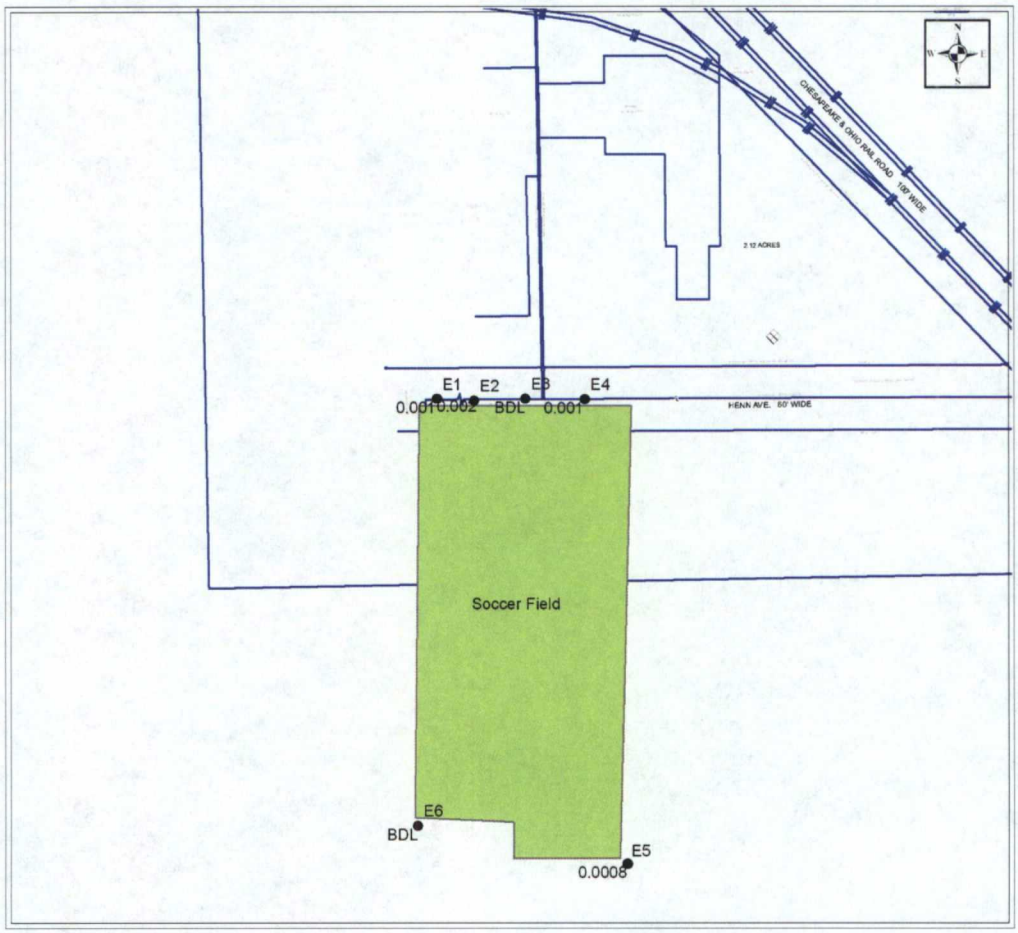
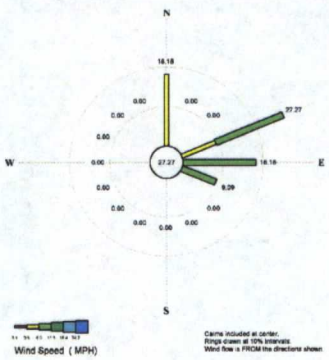
EP-C04-032
W.A.# EAC00118

Figure 18
Excavation XVI
Asbestos in Air Samples (fibers/cc)
N-Forcer
Sampled April 29, 2005
Dearborn, MI





Legend

- Meteorological Station
- Sample Location
- BDL Below Detection Limit

Please refer to the analytical results for the detection limits.

Author's statement:

Map Creation Date: 06JUN2005

Coordinate system: GCS NAD83

Data: proj\wr grace dearborn
MXD file: proj\wr grace dearborn

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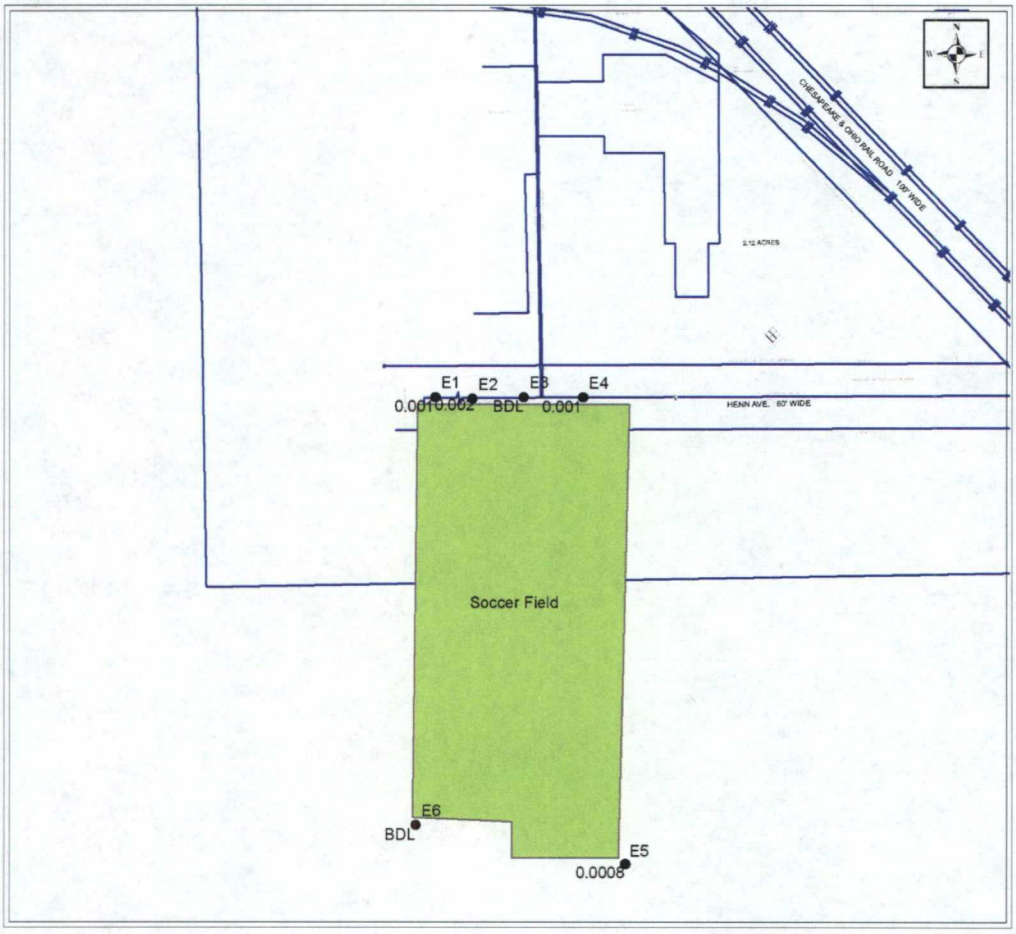
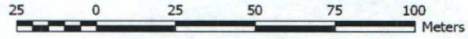
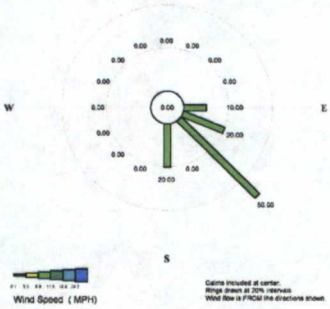
EP-C04-032
W.A.# EAC00118

Figure 19
Soccer I
Asbestos in Air Samples (fibers/cc)
N-Forcer
Sampled May 17, 2005
Dearborn, MI







Calms included at center.
Rings drawn at 20% intervals.
Wind flow is FROM the directions shown.

Legend

Meteorological Station

Sample Location

BDL Below Detection Limit

Please refer to the analytical results for the detection limits.

Author's statement:

Map Creation Date: 06JUN2005

Coordinate system: GCS NAD83

Data: proj\wr grace dearborn
MXD file: proj\wr grace dearborn

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EP-C04-032
W.A.# EAC00118

Figure 20
Soccer II
Asbestos in Air Samples (fibers/cc)
N-Forcer
Sampled May 18, 2005
Dearborn, MI

Please refer to the analytical results for the detection limits.

25 0 25 50 75 100 Meters

Author's statement:

Map Creation Date: 06JUN2005

Coordinate system: GCS NAD83

Data: proj\wr grace dearborn
MXD file: proj\wr grace dearborn

Legend

Sample Location
BDL Below Detection Limit
ND Not Detected

U.S. EPA Environmental Response Team
Response, Engineering and Analytical Contract
EP-C04-032
W.A.# EAC00118

Figure 21
Soil Sample Locations Map 1
N-Forcer
Dearborn, MI

25 0 25 50 75 100 Meters

Please refer to the analytical results for the detection limits.

Author's statement:

Map Creation Date: 06JUN2005

Coordinate system: GCS NAD83

Data: proj\wr grace dearborn
MXD file: proj\wr grace dearborn

Legend

- Sample Location
- BDL Below Detection Limit
- ND Below Detection Limit

U.S. EPA Environmental Response Team
Response, Engineering and Analytical Contract
EP-C04-032
W.A.# EAC00118

Figure 22
Soil Sample Locations Map 2
N-Forcer
Dearborn, MI

25 0 25 50 75 100 Meters

Please refer to the analytical results for the detection limits.

Author's statement:

Map Creation Date: 06JUN2005

Coordinate system: GCS NAD83

Data: proj\wr grace dearborn
MXD file: proj\wr grace dearborn

Legend

- Sample Location
- BDL Below Detection Limit
- ND Not Detected

U.S. EPA Environmental Response Team
Response, Engineering and Analytical Contract
EP-C04-032
W.A.# EAC00118

Figure 23
Soil Sample Locations Map 3
N-Forcer
Dearborn, MI

25 0 25 50 75 100 Meters

Please refer to the analytical results for the detection limits.

Author's statement:

Map Creation Date: 06JUN2005

Coordinate system: GCS NAD83

Data: proj\wr grace dearborn
MXD file: proj\wr grace dearborn

Legend

- Sample Location
- BDL Below Detection Limit
- ND Not Detected

U.S. EPA Environmental Response Team
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EP-C04-032
W.A.# EAC00118

Figure 24
Soil Sample Locations Map 4
N-Forcer
Dearborn, MI

25 0 25 50 75 100
Meters

Please refer to the analytical results for the detection limits.

Author's statement:

Map Creation Date: 06JUN2005

Coordinate system: GCS NAD83

Data: proj\wr grace dearborn
MXD file: proj\wr grace dearborn

Legend

- Sample Location
- BDL Below Detection Limit
- ND Not Detected

U.S. EPA Environmental Response Team
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EP-C04-032
W.A.# EAC00118

Figure 25
Soil Sample Locations Map 5
N-Forcer
Dearborn, MI

25 0 25 50 75 100 Meters

Please refer to the analytical results for the detection limits.

Author's statement:

Map Creation Date: 06JUN2005

Coordinate system: GCS NAD83

Data: proj\wr grace dearborn
MXD file: proj\wr grace dearborn

Legend

- Sample Location
- BDL Below Detection Limit
- ND Not Detected

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EP-C04-032
W.A.# EAC00118

Figure 26
Soil Sample Locations Map 6
N-Forcer
Dearborn, MI

APPENDIX A
Asbestos in Air Laboratory Reports
N-Forcer® Site
Dearborn, MI
September 2005

EMSL Analytical, Inc.
212 South Wagner Road, Ann Arbor, MI 48103
Phone: (734) 668-6810 Fax: (734) 668-8532 Email: annarborlab@emsl.com

Attn: **John Johnson**
Lockheed Martin
2890 Woodbridge
Bldg. 209 Annex
Edison, NJ 08837-3679

Fax: (732) 494-4020 Phone: (732) 321-4200
Project: 0118-040605-0001

Customer ID: LOCK55
Customer PO:
Received: 04/07/05 8:00 AM
EMSL Order: 080501338

EMSL Proj:
Analysis Date: 4/7/2005
Report Date: 4/7/2005

Phase Contrast Microscopy (PCM) Fiber Count by NIOSH 7400, Fourth Edition, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (fib/cc)	Fibers/ mm²	Fibers/ cc	Notes
WRGD-0001 080501338-0001	A1	4/6/2005	2590.00	9.0	100	0.001	11.5	0.002	
WRGD-0002 080501338-0002	A3	4/6/2005	4690.00	<5.5	100	0.0006	<7.0	<0.0006	
WRGD-0003 080501338-0003	A5	4/6/2005	4630.00	13.0	100	0.0006	16.6	0.001	
WRGD-0004 080501338-0004	A7	4/6/2005	4620.00	6.0	100	0.0006	7.64	0.0006	
WRGD-0005 080501338-0005	A9	4/6/2005	4840.00	<5.5	100	0.0006	<7.0	<0.0006	
WRGD-0006 080501338-0006	A11	4/6/2005	3760.00	9.0	100	0.0007	11.5	0.001	
WRGD-0007 080501338-0007	A12	4/6/2005	4800.00	10.0	100	0.0006	12.7	0.001	
WRGD-0008 080501338-0008	A14	4/6/2005	4800.00	<5.5	100	0.0006	<7.0	<0.0006	
WRGD-0009 080501338-0009	A15	4/6/2005	4800.00	8.0	100	0.0006	10.2	0.0008	

Analyst(s)
Avis Canaday (14)

John Ireland, Ph.D.
or other approved signatory

Limit of detection is 7 fibers/mm². The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Unless otherwise noted, the results in this report have not been blank corrected.

Analysis performed by EMSL Ann Arbor

EMSL Analytical, Inc.
212 South Wagner Road, Ann Arbor, MI 48103
Phone: (734) 668-6810 Fax: (734) 668-8532 Email: annarborlab@emsl.com

Attn: **John Johnson**
Lockheed Martin
2890 Woodbridge
Bldg. 209 Annex
Edison, NJ 08837-3679

Fax: (732) 494-4020 Phone: (732) 321-4200
Project: 0118-040605-0001

Customer ID: LOCK55
Customer PO:
Received: 04/07/05 8:00 AM
EMSL Order: 080501338

EMSL Proj:
Analysis Date: 4/7/2005
Report Date: 4/7/2005

Phase Contrast Microscopy (PCM) Fiber Count by NIOSH 7400, Fourth Edition, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (fib/cc)	Fibers/ mm²	Fibers/ cc	Notes
WRGD-0010 *080501338-0010*	A16	4/6/2005	4920.00	8.0	100	0.0005	10.2	0.0008	
WRGD-0011 *080501338-0011*	A17	4/6/2005	4950.00	13.0	100	0.0005	16.6	0.001	
WRGD-0012 *080501338-0012*	A18	4/6/2005	4710.00	7.0	100	0.0006	8.92	0.0007	
WRGD-0013 *080501338-0013*	Field Blank	4/6/2005	0.00	<5.5	100		<7.0		Field Blank
080501338-0014	Lot Blank #8	4/6/2005	0.00	<5.5	100		<7.0		Field Blank

Analyst(s)
Avis Canaday (14)

John Ireland, Ph.D.
or other approved signatory

Limit of detection is 7 fibers/mm². The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Unless otherwise noted, the results in this report have not been blank corrected.

Analysis performed by EMSL Ann Arbor

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EMSL

Attn: **John Johnson**
Lockheed Martin
2890 Woodbridge
Bldg. 209 Annex
Edison, NJ 08837-3679

Fax: (732) 494-4020 Phone: (732) 321-4200
Project: 0118-040705-0002

Customer ID: LOCK85
Customer PO:
Received: 04/08/05 8:00 AM
EMSL Order: 080501356

EMSL Proj:
Analysis Date: 4/8/2005
Report Date: 4/11/2005

Phase Contrast Microscopy (PCM) Fiber Count by NIOSH 7400, Fourth Edition, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (fib/cc)	Fibers/ mm²	Fibers/ cc	Notes
WRGD-0014 080501356-0001	A1	4/7/2005	4500.00	14.0	100	0.0006	17.8	0.002	
WRGD-0015 080501356-0002	A3	4/7/2005	4500.00	<5.5	100	0.0006	<7.0	<0.0006	
WRGD-0016 080501356-0003	A5	4/7/2005	4500.00	8.0	100	0.0006	10.2	0.0009	
WRGD-0017 080501356-0004	A7	4/7/2005	4500.00	9.0	100	0.0006	11.5	0.001	
WRGD-0018 080501356-0005	A9	4/7/2005	4500.00	12.0	100	0.0006	15.3	0.001	
WRGD-0019 080501356-0006	A11	4/7/2005	4450.00	7.0	100	0.0006	8.92	0.0008	
WRGD-0020 080501356-0007	A12	4/7/2005	4450.00	8.0	100	0.0006	10.2	0.0009	
WRGD-0021 080501356-0008	A14	4/7/2005	4420.00	11.0	100	0.0006	14	0.001	
WRGD-0022 080501356-0009	A16	4/7/2005	4410.00	8.0	100	0.0006	10.2	0.0009	

Analyst(s)
Avis Canaday (13)

John Ireland, Ph.D.
or other approved signatory

Limit of detection is 7 fibers/mm². The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Unless otherwise noted, the results in this report have not been blank corrected.

Analysis performed by EMSL Ann Arbor

PCM-2 1

EMSL Analytical, Inc.
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Project: 0118-040705-0002

Customer ID: LOCK55
Customer PO:
Received: 04/08/05 8:00 AM
EMSL Order: 080501358

EMSL Proj:
Analysis Date: 4/8/2005
Report Date: 4/11/2005

Phase Contrast Microscopy (PCM) Fiber Count by NIOSH 7400, Fourth Edition, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (f/cc)	Fibers/ mm²	Fibers/ cc	Notes
WRGD-0023 080501358-0010	A16	4/7/2005	4500.00	7.0	100	0.0006	8.82	0.0006	
WRGD-0024 080501358-0011	A17	4/7/2005	4500.00	<5.5	100	0.0006	<7.0	<0.0006	
WRGD-0025 080501358-0012	A18	4/7/2005	4500.00	<5.5	100	0.0006	<7.0	<0.0006	
WRGD-0026 080501358-0013	Field Blank	4/7/2005	0.00	<5.5	100		<7.0		Field Blank

Analyst(s)
Avis Cansday (13)

John Lielland, Ph.D.
or other approved signatory

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Project: 0118-040605-0003

Customer ID: LOCK55
Customer PO:
Received: 04/12/05 8:00 AM
EMSL Order: 080501398

EMSL Proj:
Analysis Date: 4/12/2005
Report Date: 4/12/2005

Phase Contrast Microscopy (PCM) Fiber Count by NIOSH 7400, Fourth Edition, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (f/b/cc)	Fibers/ mm²	Fibers/ cc	Notes
WRGD-0027 080501398-0001	A1	4/11/2005	1820.00	11.0	100	0.001	14	0.003	
WRGD-0028 080501398-0002	A2	4/11/2005	1839.50	<5.5	100	0.001	<7.0	<0.001	
WRGD-0029 080501398-0003	A5	4/11/2005	1820.00	<5.5	100	0.001	<7.0	<0.001	
WRGD-0030 080501398-0004	A14A	4/11/2005	1930.50	6.0	100	0.001	7.64	0.002	
WRGD-0031 080501398-0005	A15A	4/11/2005	1911.00	12.0	100	0.001	15.3	0.003	
WRGD-0032 080501398-0006	A18	4/11/2005	1839.50	13.0	100	0.001	16.6	0.003	
WRGD-0033 080501398-0007	Field Blank	4/11/2005	0.00	<5.5	100		<7.0		Field Blank

Analyst(s)
Avis Canaday (7)

John Ireland, Ph.D.
or other approved signatory

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Customer ID: LOCK56
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EMSL Order: 080501433

EMSL Proj:
Analysis Date: 4/14/2005
Report Date: 4/14/2005

Phase Contrast Microscopy (PCM) Fiber Count by NIOSH 7400, Fourth Edition, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (f/cc)	Fibers/ mm²	Fibers/ cc	Notes
WRGD-0034 080501433-0001	A1	4/13/2005	3900.00	13.0	100	0.0007	18.6	0.002	
WRGD-0035 080501433-0002	A2	4/13/2005	3900.00	15.0	100	0.0007	19.1	0.002	
WRGD-0036 080501433-0003	A5	4/13/2005	3900.00	14.0	100	0.0007	17.8	0.002	
WRGD-0037 080501433-0004	A12	4/13/2005	3900.00	10.0	100	0.0007	12.7	0.001	
WRGD-0038 080501433-0005	A15A	4/13/2005	3900.00	8.0	100	0.0007	10.2	0.001	
WRGD-0039 080501433-0006	A18	4/13/2005	3900.00	11.0	100	0.0007	14	0.001	
WRGD-0040 080501433-0007	Field Blank	4/13/2005	0.00	<5.5	100		<7.0		Field Blank

NO QC EVALUATION HAS BEEN PERFORMED.
DATA VALIDITY IS UNSUBSTANTIATED
AND THE DATA SHOULD BE USED
WITH DISCRETION

Analyst(s)
Avis Canaday (7)

John Ireland, Ph.D.
or other approved signatory

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Project: 0118-041405-0005

Customer ID: LOCK55
Customer PO:
Received: 04/15/05 8:00 AM
EMSL Order: 080501452

EMSL Proj:
Analysis Date: 4/15/2005
Report Date: 4/15/2005

Phase Contrast Microscopy (PCM) Fiber Count by NIOSH 7400, Fourth Edition, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (fib/cc)	Fibers/ mm²	Fibers/ cc	Notes
WRGD-0041 080501452-0001	A1	4/14/2005	3900.00	8.0	100	0.0007	10.2	0.001	
WRGD-0042 080501452-0002	A2	4/14/2005	3900.00	13.0	100	0.0007	16.6	0.002	
WRGD-0043 080501452-0003	A5	4/14/2005	3900.00	9.0	100	0.0007	11.5	0.001	
WRGD-0044 080501452-0004	A7	4/14/2005	1755.00	<5.5	100	0.002	<7.0	<0.002	
WRGD-0045 080501452-0005	A11	4/14/2005	3900.00	10.0	100	0.0007	12.7	0.001	
WRGD-0046 080501452-0006	A12	4/14/2005	3900.00	8.0	100	0.0007	10.2	0.001	
WRGD-0047 080501452-0007	A18	4/14/2005	3900.00	9.0	100	0.0007	11.5	0.001	
WRGD-0048 080501452-0008	Field Blank	4/14/2005	0.00	<5.5	100		<7.0		Field Blank
080501452-0009	Lot Blank	4/14/2005	0.00	6.0	100		7.64		Field Blank

Analyst(s)
Avis Canaday (9)

John Ireland, Ph.D.
or other approved signatory

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Project: 0118-041505-006

Customer ID: LOCK56
Customer PO:
Received: 04/18/05 8:00 AM
EMSL Order: 080501484

EMSL Proj:
Analysis Date: 4/18/2005
Report Date: 4/19/2005

Phase Contrast Microscopy (PCM) Fiber Count by NIOSH 7400, Fourth Edition, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (f/cc)	Fibers/ mm²	Fibers/ cc	Notes
WRGD-0049 080501484-0001	A2	4/17/2005	3510.00	10.0	100	0.0008	12.7	0.001	
WRGD-0050 080501484-0002	A5	4/17/2005	3510.00	6.0	100	0.0008	7.64	0.0008	
WRGD-0051 080501484-0003	A7	4/17/2005	3510.00	8.0	100	0.0008	10.2	0.001	
WRGD-0052 080501484-0004	A9	4/17/2005	3510.00	7.0	100	0.0008	8.92	0.001	
WRGD-0053 080501484-0005	A16A	4/17/2005							Overloaded
WRGD-0054 080501484-0006	A18	4/17/2005	3510.00	<5.5	100	0.0008	<7.0	<0.0008	
WRGD-0055 080501484-0007	Field Blank	4/17/2005	0.00	<5.5	100		<7.0		Field Blank

Analyst(s)
Avis Canaday (7)

John Ireland, Ph.D.
or other approved signatory

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Customer ID: LOCK55
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EMSL Order: 080501483

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Analysis Date: 4/18/2005
Report Date: 4/18/2005

Phase Contrast Microscopy (PCM) Fiber Count by NIOSH 7400, Fourth Edition, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (fib/cc)	Fibers/ mm²	Fibers/ cc	Notes
WRGD-0056 080501483-0001	A2	4/17/2005							Overloaded
WRGD-0057 080501483-0002	A5	4/17/2005	3840.00	11.0	100	0.0007	14	0.001	
WRGD-0058 080501483-0003	A7	4/17/2005	3840.00	6.0	100	0.0007	7.64	0.0008	
WRGD-0059 080501483-0004	A9	4/17/2005	3840.00	10.0	100	0.0007	12.7	0.001	
WRGD-0060 080501483-0005	A15A	4/17/2005	3840.00	8.0	100	0.0007	10.2	0.001	
WRGD-0061 080501483-0006	A18	4/17/2005	3840.00	7.0	100	0.0007	8.92	0.0009	
WRGD-0062 080501483-0007	Field Blank	4/17/2005	0.00	<5.5	100		<7.0		Field Blank

Analyst(s)
Avis Canaday (7)

John Ireland, Ph.D.
or other approved signatory

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EMSL Order: 080501502

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Analysis Date: 4/19/2005
Report Date: 4/19/2005

Phase Contrast Microscopy (PCM) Fiber Count by NIOSH 7400, Fourth Edition, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (fib/cc)	Fibers/ mm²	Fibers/ cc	Notes
WRGD-0063 080501502-0001	A2	4/18/2005							Overloaded
WRGD-0064 080501502-0002	A5	4/18/2005	3600.00	10.0	100	0.0007	12.7	0.001	
WRGD-0065 080501502-0003	A7	4/18/2005	3600.00	7.0	100	0.0007	8.92	0.001	
WRGD-0066 080501502-0004	A9	4/18/2005	3600.00	12.0	100	0.0007	15.3	0.002	
WRGD-0067 080501502-0005	A15A	4/18/2005	3600.00	10.0	100	0.0007	12.7	0.001	
WRGD-0068 080501502-0006	A18	4/18/2005	3600.00	11.0	100	0.0007	14	0.001	
WRGD-0069 080501502-0007	Field Blank	4/18/2005	3600.00	11.0	100	0.0007	14	0.001	Field Blank Sample may be contaminated.

Analyst(s)
Avis Canaday (7)

John Roland, Ph.D.
or other approved signatory

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Customer ID: LOCK56
Customer PO:
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EMSL Order: 080501517

EMSL Proj:
Analysis Date: 4/20/2005
Report Date: 4/20/2005

Phase Contrast Microscopy (PCM) Fiber Count by NIOSH 7400, Fourth Edition, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (fiber)	Fibers/ mm²	Fibers/ cc	Notes
WRGD-0070 080501517-0001	A2	4/19/2005	2610.00	<5.5	100	0.001	<7.0	<0.001	
WRGD-0071 080501517-0002	A5	4/19/2005	2610.00	7.0	100	0.001	8.92	0.001	
WRGD-0072 080501517-0003	A7	4/19/2005	2610.00	12.0	100	0.001	15.3	0.002	
WRGD-0073 080501517-0004	A9	4/19/2005	2610.00	6.0	100	0.001	7.64	0.001	
WRGD-0074 080501517-0005	A15A	4/19/2005	2610.00	6.0	100	0.001	7.64	0.001	
WRGD-0075 080501517-0006	A18	4/19/2005	2610.00	7.0	100	0.001	8.92	0.001	
WRGD-0076 080501517-0007	Field Blank	4/19/2005	0.00	<5.5	100		<7.0		Field Blank

Analyst(s)
Avis Canaday (7)

John Wieland, Ph.D.
or other approved signatory

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Project: 0118-941605-0011

Customer ID: LOCK66
Customer PO:
Received: 04/21/05 8:00 AM
EMSL Order: 080501537

EMSL Proj:
Analysis Date: 4/21/2005
Report Date: 4/21/2005

Phase Contrast Microscopy (PCM) Fiber Count by NIOSH 7400, Fourth Edition, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (fib/cc)	Fibers/ mm²	Fibers/ cc	Notes
WRGD-0078 080501537-0001	A2	4/20/2005	1800.00	11.0	100	0.001	14	0.003	
WRGD-0079 080501537-0002	A5	4/20/2005	1800.00	16.0	100	0.001	20.4	0.004	
WRGD-0080 080501537-0003	A7	4/20/2005	1800.00	12.0	100	0.001	15.3	0.003	
WRGD-0081 080501537-0004	A9	4/20/2005	1800.00	6.0	100	0.001	7.64	0.002	
WRGD-0082 080501537-0005	A15A	4/20/2005	1800.00	10.0	100	0.001	12.7	0.003	
WRGD-0083 080501537-0006	A18	4/20/2005	1800.00	<5.5	100	0.001	<7.0	<0.001	
WRGD-0084 080501537-0007	Field Blank	4/20/2005	0.00	<5.5	100		<7.0		Field Blank

Analyst(s)
Avis Caneday (7)

John Ireland, Ph.D.
or other approved signatory

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Customer ID: LOCK55
Customer PO:
Received: 04/22/05 8:35 AM
EMSL Order: 080501558

EMSL Proj:
Analysis Date: 4/22/2005
Report Date: 4/25/2005

Phase Contrast Microscopy (PCM) Fiber Count by NIOSH 7400, Fourth Edition, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (fib/cc)	Fibers/ mm²	Fibers/ cc	Notes
WRGD-0085 080501558-0001	A5	4/21/2005	3600.00	11.0	100	0.0007	14	0.001	
WRGD-0086 080501558-0002	A7	4/21/2005	3600.00	9.0	100	0.0007	11.5	0.001	
WRGD-0087 080501558-0003	A9	4/21/2005	3600.00	6.0	100	0.0007	7.64	0.0008	
WRGD-0088 080501558-0004	A11	4/21/2005	3600.00	<5.5	100	0.0007	<7.0	<0.0007	
WRGD-0089 080501558-0005	A12	4/21/2005	3600.00	11.0	100	0.0007	14	0.001	
WRGD-0090 080501558-0006	A18	4/21/2005	3600.00	9.0	100	0.0007	11.5	0.001	
WRGD-0091 080501558-0007	Field Blank	4/21/2005	0.00	<5.5	100		<7.0		Field Blank
WRGD-0092 080501558-0008	Lot Blank	4/21/2005	0.00	<5.5	100		<7.0		Field Blank

Analyst(s)
Avis Canaday (8)

John Ireland, Ph.D.
or other approved signatory

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Project: 0118-041505-0017

Customer ID: LOCK55
Customer PO:
Received: 04/25/05 8:00 AM
EMSL Order: 080501574

EMSL Proj:
Analysis Date: 4/26/2005
Report Date: 4/26/2005

Phase Contrast Microscopy (PCM) Fiber Count by NIOSH 7400, Fourth Edition, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (fib/cc)	Fibers/ mm²	Fibers/ cc	Notes
WRGD-0093 080501574-0001	A5	4/23/2005	3780.00	<5.5	100	0.0007	<7.0	<0.0007	
WRGD-0094 080501574-0002	A7	4/23/2005	3780.00	<5.5	100	0.0007	<7.0	<0.0007	
WRGD-0095 080501574-0003	A9	4/23/2005	3780.00	<5.5	100	0.0007	<7.0	<0.0007	
WRGD-0097 080501574-0004	A12	4/23/2005	3780.00	<5.5	100	0.0007	<7.0	<0.0007	
WRGD-0098 080501574-0005	A18	4/23/2005	3780.00	<5.5	100	0.0007	<7.0	<0.0007	
WRGD-0099 080501574-0006	Field Blank	4/23/2005	0.00	<5.5	100		<7.0		Field Blank

Analyst(s)
Jong-Sim Park (1)
Jane Zhang (5)

John Ireland, Ph.D.
or other approved signatory

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Project: 0118-042305-0018

Customer ID: LOCK55
Customer PO:
Received: 04/25/05 8:00 AM
EMSL Order: 080501573

EMSL Proj:
Analysis Date: 4/25/2005
Report Date: 4/25/2005

Phase Contrast Microscopy (PCM) Fiber Count by NIOSH 7400, Fourth Edition, Issue 2, 8/15/94

Sample	*Location*	*Sample Date*	*Volume*	*Fibers*	*Fields*	*LOD (fib/cc)*	*Fibers/ mm²*	*Fibers/ cc*	*Notes*
WRGD-0101 *080501573-0001*	A5	4/23/2005	909.00	<5.5	100	0.003	<7.0	<0.003	
WRGD-0102 *080501573-0002*	A7	4/23/2005	3944.00	<5.5	100	0.0007	<7.0	<0.0007	
WRGD-0103 *080501573-0003*	A9	4/23/2005	3752.00	<5.5	100	0.0007	<7.0	<0.0007	
WRGD-0104 *080501573-0004*	A11	4/23/2005	3720.00	6.0	100	0.0007	7.64	0.0008	
WRGD-0107 *080501573-0005*	Field Blank	4/23/2005	0.00	<5.5	100		<7.0		Field Blank

Analyst(s)
Avis Canaday (5)

Kevin Ireland, Ph.D.
or other approved signatory

Limit of detection is 7 fibers/mm². The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Unless otherwise noted, the results in this report have not been blank corrected.

Analysis performed by EMSL Ann Arbor

PCM-2

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EMSL Analytical, Inc.
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Phone: (734) 668-8810 Fax: (734) 668-8532 Email: annarborlab@emsl.com

EMSL

Attn: **John Johnson**
Lockheed Martin
2890 Woodbridge
Bldg. 209 Annex
Edison, NJ 08837-3679

Fax: (732) 494-4020 Phone: (732) 321-4200
Project: 0118-042505-0020

Customer ID: LOCK55
Customer PO:
Received: 04/26/05 8:00 AM
EMSL Order: 080501602

EMSL Proj:
Analysis Date: 4/27/2005
Report Date: 4/27/2005

Phase Contrast Microscopy (PCM) Fiber Count by NIOSH 7400, Fourth Edition, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (f/b/cc)	Fibers/ mm²	Fibers/ cc	Notes
WRGD-0108 080501602-0001	A5	4/25/2005	3150.00	<5.5	100	0.0009	<7.0	<0.0009	
WRGD-0109 080501602-0002	A7	4/25/2005	3150.00	<5.5	100	0.0009	<7.0	<0.0009	
WRGD-0110 080501602-0003	A9	4/25/2005	3150.00	<5.5	100	0.0009	<7.0	<0.0009	
WRGD-0111 080501602-0004	A11	4/25/2005	3150.00	<5.5	100	0.0009	<7.0	<0.0009	
WRGD-0112 080501602-0005	A12	4/25/2005	3150.00	<5.5	100	0.0009	<7.0	<0.0009	
WRGD-0113 080501602-0006	A18	4/25/2005	3150.00	<5.5	100	0.0009	<7.0	<0.0009	
WRGD-0114 080501602-0007	Field Blank	4/25/2005	0.00	<5.5	100		<7.0		Field Blank

Analyst(s)
Jana Zhang (7)

John Ireland, Ph.D.
or other approved signatory

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Bldg. 209 Annex
Edison, NJ 08837-3679

Fax: (732) 494-4020 Phone: (732) 321-4200
Project: 0118-042505-0022

Customer ID: LOCK55
Customer PO:
Received: 04/27/05 8:00 AM
EMSL Order: 080501614

EMSL Proj:
Analysis Date: 4/27/2005
Report Date: 4/27/2005

Phase Contrast Microscopy (PCM) Fiber Count by NIOSH 7400, Fourth Edition, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (fib/cc)	Fibers/ mm²	Fibers/ cc	Notes
WRGD-0115 080501614-0001	A18	4/26/2005	4480.00	<5.5	100	0.0006	<7.0	<0.0006	
WRGD-0116 080501614-0002	A2	4/26/2005							Filter Damaged
WRGD-0117 080501614-0003	A9	4/26/2005	4480.00	<5.5	100	0.0006	<7.0	<0.0006	
WRGD-0118 080501614-0004	A5	4/26/2005	4480.00	<5.5	100	0.0006	<7.0	<0.0006	
WRGD-0119 080501614-0005	A7	4/26/2005	4480.00	<5.5	100	0.0006	<7.0	<0.0006	
WRGD-0120 080501614-0006	A15A	4/26/2005	4480.00	<5.5	100	0.0006	<7.0	<0.0006	
WRGD-0121 080501614-0007	Field Blank	4/26/2005	0.00	<5.6	100		<7.0		Field Blank

Analyst(s)
Jane Zhang (7)

John Ireland, Ph.D.
or other approved signatory

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Edison, NJ 08837-3679

Fax: (732) 494-4020 Phone: (732) 321-4200
Project: 0118-042705-0024

Customer ID: LOCK55
Customer PO:
Received: 04/28/05 8:00 AM
EMSL Order: 080501639

EMSL Proj:
Analysis Date: 4/29/2005
Report Date: 4/29/2005

Phase Contrast Microscopy (PCM) Fiber Count by NIOSH 7400, Fourth Edition, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (fib/cc)	Fibers/ mm²	Fibers/ cc	Notes
WRGD-0122 080501639-0001	A5	4/27/2005	4200.00	<5.5	100	0.0006	<7.0	<0.0006	
WRGD-0123 080501639-0002	A7	4/27/2005	4200.00	<5.5	100	0.0006	<7.0	<0.0006	
WRGD-0124 080501639-0003	A18	4/27/2005	4200.00	<5.5	100	0.0006	<7.0	<0.0006	
WRGD-0125 080501639-0004	A9	4/27/2005	1820.00	<5.5	100	0.001	<7.0	<0.001	
WRGD-0126 080501639-0005	A8	4/27/2005	4200.00	6.0	100	0.0006	7.64	0.0007	
WRGD-0127 080501639-0006	A12	4/27/2005	2800.00	<5.5	100	0.001	<7.0	<0.001	
WRGD-0128 080501639-0007	Field Blank	4/27/2005	0.00	<5.5	100		<7.0		Field Blank
WRGD-0129 080501639-0008	A9A	4/27/2005	2208.00	<5.5	100	0.001	<7.0	<0.001	

Analyst(s)
Jane Zhang (B)

John Ireland, Ph.D.
or other approved signatory

Limit of detection is 7 fibers/mm². The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Unless otherwise noted, the results in this report have not been blank corrected.

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Attn: **John Johnson**
Lockheed Martin
2890 Woodbridge
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Edison, NJ 08837-3679

Fax: (732) 494-4020 Phone: (732) 321-4200
Project: ~~0119-042906-0026~~

Customer ID: LOCK55
Customer PO:
Received: 04/29/05 8:00 AM
EMSL Order: 080501664

EMSL Proj:
Analysis Date: 4/29/2005
Report Date: 4/29/2005

Phase Contrast Microscopy (PCM) Fiber Count by NIOSH 7400, Fourth Edition, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (fib/cc)	Fibers/ mm²	Fibers/ cc	Notes
WRGD-0130 080501664-0001	A9A	4/28/2005	4795.00	<5.5	100	0.0006	<7.0	<0.0006	
WRGD-0131 080501664-0002	A10	4/28/2005	4795.00	<5.5	100	0.0006	<7.0	<0.0006	
WRGD-0132 080501664-0003	A18	4/28/2005	4795.00	<5.5	100	0.0006	<7.0	<0.0006	
WRGD-0133 080501664-0004	A5	4/28/2005	4795.00	<5.5	100	0.0006	<7.0	<0.0006	
WRGD-0134 080501664-0005	A12	4/28/2005	4165.00	<5.5	100	0.0008	<7.0	<0.0006	
WRGD-0135 080501664-0006	A8A	4/28/2005	3570.00	<5.5	100	0.0008	<7.0	<0.0008	
WRGD-0136 080501664-0007	Field Blank	4/28/2005	0.00	<5.5	100		<7.0		Field Blank

NO QC EVALUATION HAS BEEN PERFORMED.
DATA VALIDITY IS UNSUBSTANTIATED
AND THE DATA SHOULD BE USED
WITH DISCRETION

Analyst(s)
Jane Zhang (7)

John Ireland, Ph.D
or other approved signatory

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Fax: (732) 494-4020 Phone: (732) 321-4200
Project: 0118-042906-0026

Customer ID: LOCK55
Customer PO:
Received: 05/02/05 8:00 AM
EMSL Order: 080501678

EMSL Proj:
Analysis Date: 5/2/2005
Report Date: 5/2/2005

Phase Contrast Microscopy (PCM) Fiber Count by NIOSH 7400, Fourth Edition, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (f/cc)	Fibers/ mm²	Fibers/ cc	Notes
WRGD-0137 080501678-0001	A18	4/29/2005	4248.00	7.0	100		8.92		
WRGD-0138 080501678-0002	A9A	4/29/2005	4338.00	9.0	100		11.5		
WRGD-0139 080501678-0003	A11	4/29/2005							Overloaded
WRGD-0140 080501678-0004	A10	4/29/2005	4424.00	14.0	100	0.0006	17.8	0.002	
WRGD-0141 080501678-0006	A8A	4/29/2005	4258.00	12.0	100	0.0006	15.3	0.001	
WRGD-0142 080501678-0005	A12	4/29/2005	4224.00	8.0	100	0.0006	10.2	0.0009	
WRGD-0143 080501678-0007	Field Blank	4/29/2005	0.00	<5.5	100		<7.0		

No discernable field blank sample(s) submitted with this sample set.

**NO QC EVALUATION HAS BEEN PERFORMED.
DATA VALIDITY IS UNSUBSTANTIATED
AND THE DATA SHOULD BE USED
WITH DISCRETION**

Analyst(s)
Avia Canaday (7)

John Ireland, Ph.D.
or other approved signatory

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Edison, NJ 08837-3679

Fax: (732) 494-4020 Phone: (732) 321-4200

Project: COC:0118-041505-0030, RRAC Site#118, EPA Contract: EP-C-04-032

Customer ID: LOCK55
Customer PO:
Received: 05/18/05 9:37 AM
EMSL Order: 080501931

EMSL Proj:
Analysis Date: 5/18/05
Report Date: 5/19/05

Phase Contrast Microscopy (PCM) Fiber Count by NIOSH 7400, Fourth Edition, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (f/b/cc)	Fibers/ mm²	Fibers/ cc	Notes
WRGD-0144 080501931-0001		5/18/05	3600.00	7.0	100	0.0007	8.92	0.001	
WRGD-0145 080501931-0002		5/18/05	3240.00	10.0	100	0.0008	12.7	0.002	
WRGD-0146 080501931-0003		5/18/05	3600.00	<5.5	100	0.0007	<7.0	<0.0007	
WRGD-0147 080501931-0004		5/18/05	3600.00	10.0	100	0.0007	12.7	0.001	
WRGD-0148 080501931-0005		5/18/05	3600.00	6.0	100	0.0007	7.64	0.0008	
WRGD-0149 080501931-0006		5/18/05	3600.00	<5.5	100	0.0007	<7.0	<0.0007	
WRGD-0153 080501931-0007		5/18/05		<5.5	100		<7.0		Field Blank

NO QC EVALUATION HAS BEEN PERFORMED.
DATA VALIDITY IS UNSUBSTANTIATED
AND THE DATA SHOULD BE USED
WITH DISCRETION

Analyst(s)
Avis Canaday (7)

John Ireland, Ph.D.
or other approved signatory

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Analysis performed by EMSL Ann Arbor

PCM-2

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Attn: **John Johnson**
Lockheed Martin
2890 Woodbridge
Bldg. 209 Annex
Edison, NJ 08837-3679

Fax: (732) 494-4020 Phone: (732) 321-4200
Project: 0118-041606-0032, EPA#: EP-C-04-032

Customer ID: LOCK55
Customer PO:
Received: 05/19/05 10:20 AM
EMSL Order: 080501950

EMSL Proj:
Analysis Date: 5/19/2005
Report Date: 5/19/2005

Phase Contrast Microscopy (PCM) Fiber Count by NIOSH 7400, Fourth Edition, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume	Fibers	Fields	LOD (fib/cc)	Fibers/ mm²	Fibers/ cc	Notes
WRGD-0154 080501950-0001		5/19/2005	3780.00	7.0	100	0.0007	8.92	0.0009	
WRGD-0155 080501950-0002		5/19/2005	3780.00	<5.5	100	0.0007	<7.0	<0.0007	
WRGD-0156 080501950-0003		5/19/2005	3780.00	6.0	100	0.0007	7.64	0.0008	
WRGD-0157 080501950-0004		5/19/2005	3780.00	<5.5	100	0.0007	<7.0	<0.0007	
WRGD-0158 080501950-0005		5/19/2005	3060.00	14.0	100	0.0009	17.8	0.002	
WRGD-0159 080501950-0006		5/19/2005	3780.00	13.0	100	0.0007	16.6	0.002	
WRGD-0160 080501950-0007		5/19/2005		<5.5	100		<7.0		Field Blank

NO QC EVALUATION HAS BEEN PERFORMED.
DATA VALIDITY IS UNSUBSTANTIATED
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WITH DISCRETION

Analyst(s)
Avis Canaday (7)

John Ireland, Ph.D.
or other approved signatory

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Analysis performed by EMSL Ann Arbor

PCM-2

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APPENDIX B
Air Sampling Worksheets and Chain of Custody Forms
N-Forcer® Site
Dearborn, MI
September 2005

U.S. EPA/Environmental Response Team Center
Response Engineering Analytical Contract
Air Sampling Work Sheet
Lockheed Martin Corp., Edison, NJ
U.S. EPA Contract No. EP-C04-032

REAC Response Engineering and Analytical Contract

COC#0118-040605-0001

Site: WR Grace WA#: 0-118

Sampler: Rigby/Schmidt/Santos U.S. EPA/ERT WAM: Brass

Date: 04/06/05 REAC Task Leader: Schmidt

Sample #	WRGD-0007	WRGD-0004	WRGD-0003	WRGD-0005	WRGD-0002
Location	A12	A7	A5	A9	A3
Pump #	30	10	23	14	17
Media	.45u + 5u TEM	→			
Analysis/Method	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Rotameter	HG →				
Time/Counter (Start)	0830	0848	0847	0841	0841
Time/Counter (Stop)					
Total Time					
Pump Fault	Y/N	Y/N	Y/N	Y/N	Y/N
Flow Rate (Start)	10 LPM	10 LPM	10 LPM	10 LPM	10 LPM
Flow Rate (End)	10	10	10	10	10
Flow Rate Average	10	10	10	10	10
Sample Volume	4800L	4620L	4630L	4840L	4690L

MET Station on Site?: Y/N

HOLD FOR POSSIBLE TEM ANALYSIS @ A FUTURE DATE
PLEASE FAX PRELIMS TO HOWARD SCHMIDT

U.S. EPA/Environmental Response Team Center
Response Engineering Analytical Contract
Air Sampling Work Sheet
Lockheed Martin Corp., Edison, NJ
U.S. EPA Contract No. EP-C04-032

Site: WR Grace

WA#: 0-118

Sampler: Rigby/Schmidt/Santos

U.S. EPA/ERT WAM: Brass

Date: 04/06/05

REAC Task Leader: Schmidt

Sample #	WRGD-0006	WRGD-0012	WRGD-0009	WRGD-0001	WRGD-0008
Location	A11	A18	A15	A1	A14
Pump #	16	9	1	8	28
Media	0.45u + 5u TEM				
Analysis/Method	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Rotameter	HG				
Time/Counter (Start)	0845	0849	0840	0842	0840
Time/Counter (Stop)					
Total Time					
Pump Fault	(Y) N	Y/(N)	Y/(N)	(Y) N	Y/(N)
Flow Rate (Start)	10 L/min	10 L/min	10 L/min	10 L/min	10 L/min
Flow Rate (End)	10	10	10	10	10
Flow Rate Average	10	10	10	10	10
Sample Volume	3760 L	4710 L	4800 L	2590 L	4800 L

MET Station on Site?: (Y) N

LOT # 3014

FAULT @ 5:11
RESTART 1500

3:16 FAULT
RESTART @ 1308

U.S. EPA/Environmental Response Team Center
Response Engineering Analytical Contract
Air Sampling Work Sheet
Lockheed Martin Corp., Edison, NJ
U.S. EPA Contract No. EP-C04-032

Site: WR Grace

WA#: 0-118

Sampler: Rigby/Schmidt/Santos

U.S. EPA/ERT WAM: Brass

Date: 04/06/05

REAC Task Leader: Schmidt

Sample #	WRGD-0010	WRGD-0011	WRGD-0013	~~WRGD~~	
Location	A16	A17	FIELD BLANK		
Pump #	29	24	—		
Media	.45u + .5u TEM	→	→		
Analysis/Method	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Rotameter	HG	→	→		
Time/Counter (Start)	0830	0830	—		
Time/Counter (Stop)					
Total Time					
Pump Fault	Y/N	Y/N	Y/N	Y/N	Y/N
Flow Rate (Start)	10 LPM	10	—		
Flow Rate (End)	10	10	—		
Flow Rate Average	10	10			
Sample Volume	4920L	4950L			

MET Station on Site?: Y/N

DR4 → A3
DR5 → A11
DR6 → A7

U.S. EPA/Environmental Response Team Center
Response Engineering Analytical Contract
Air Sampling Work Sheet
Lockheed Martin Corp., Edison, NJ
U.S. EPA Contract No. EP-C04-032

Site: WR Grace

WA#: 0-118

Sampler: Rigby/Schmidt/Santos

U.S. EPA/ERT WAM: Brass

Date: 04/07/05

REAC Task Leader: Schmidt

Sample #	WRGD-0022	WRGD-0021	WRGD-0020	WRGD-0023	WRGD-0024
Location	A15	A14	A12	A16	A17
Pump #	1	29	24	17	28
Media	.45u + .5u TEM	→	→	→	→
Analysis/Method	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Rotameter	HG	→	→	→	→
Time/Counter (Start)	0739	0738	0735	0730	0733
Time/Counter (Stop)					
Total Time					
Pump Fault	Y / N	Y / N	Y / N	Y / N	Y / N
Flow Rate (Start)	10	10	10	10	10
Flow Rate (End)					
Flow Rate Average					
Sample Volume					

MET Station on Site?: (Y) N

U.S. EPA/Environmental Response Team Center
Response Engineering Analytical Contract
Air Sampling Work Sheet
Lockheed Martin Corp., Edison, NJ
U.S. EPA Contract No. EP-C04-032

Site: WR Grace

WA#: 0-118

Sampler: Rigby/Schmidt/Santos

U.S. EPA/ERT WAM: Brass

Date: 04/07/05

REAC Task Leader: Schmidt

Sample #	WRGD-0016	WRGD-0017	WRGD-0014	WRGD-0015	WRGD-0025
Location	A5	A7	A1	A3	A18
Pump #	16	14	23	10	9
Media	.45 1.5u TEM	→	→	→	→
Analysis/Method	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Rotameter	HG	→	→	→	→
Time/Counter (Start)	0740	0739	0736	0739	0741
Time/Counter (Stop)					
Total Time					
Pump Fault	Y / N	Y / N	Y / N	Y / N	Y / N
Flow Rate (Start)	10 LPM	→	→	→	→
Flow Rate (End)					
Flow Rate Average					
Sample Volume					

MET Station on Site?: (Y) N

U.S. EPA/Environmental Response Team Center
Response Engineering Analytical Contract
Air Sampling Work Sheet
Lockheed Martin Corp., Edison, NJ
U.S. EPA Contract No. EP-C04-032

REAC Response Engineering and Analytical Contract

Site: WR Grace

WA#: 0-118

Sampler: Rigby/Schmidt/Santos

U.S. EPA/ERT WAM: Brass

Date: 04/07/05

REAC Task Leader: Schmidt

Sample #	WRGD-0019	WRGD-0018	WRGD-0026		
Location	A11	A9	FIELD BLANK		
Pump #	18	12	—		
Media	.45µ .5µ TEM	→	→		
Analysis/Method	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Rotameter	HG	→	—		
Time/Counter (Start)	0740	0740	—		
Time/Counter (Stop)					
Total Time					
Pump Fault	Y / N	Y / N	Y / N	Y / N	Y / N
Flow Rate (Start)	10 LPM	10 LPM	—		
Flow Rate (End)					
Flow Rate Average					
Sample Volume					

MET Station on Site?: (Y) / N

LOT #3014

DR4 @ A3
DR5 @ A11
DR6 @ A7

STARTED W/ #20 ARGON & SWITCH TO 18 DUE TO FAULT.

U.S. EPA/Environmental Response Team Center
Response Engineering Analytical Contract
Air Sampling Work Sheet
Lockheed Martin Corp., Edison, NJ
U.S. EPA Contract No. EP-C04-032

REAC
Response Engineering and Analytical Contract

Site: WR Grace WA#: 0-118

Sampler: Rigby/Schmidt/Santos U.S. EPA/ERT WAM: Brass

Date: 04/1 /05 REAC Task Leader: Schmidt

Sample #	WRGD-0032	WRGD-0029	WRGD-0028	WRGD-0027	WRGD-0030
Location	A18	A5	A2	A1	A14A
Pump #	10	14	23	9	24
Media	.45μ + .5μ TEM	→	→	→	→
Analysis/Method	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Rotameter	HG	→	→	→	→
Time/Counter (Start)	1408	1403	1405	1405	1400
Time/Counter (Stop)	1830	1830	1830	1830	1830
Total Time					
Pump Fault	Y/N	Y/N	Y/N	Y/N	Y/N
Flow Rate (Start)	6.5	6.5	6.5	6.5	6.5
Flow Rate (End)					
Flow Rate Average					
Sample Volume	1839.5L	1820L	1839.5L	1820L	1930.5L

MET Station on Site?: (Y) N

DATARAM #6 DATARAM #5

DR #4

LOT # 3014

2 TAGS

CPMA

(303) 236-3188

Greg meeker

USGS

BLDG 53 ~~MS~~ S1S973

DENVER FEDERAL CENTER, DENVER CO 80225

(313) 945-9481

FAX

U.S. EPA/Environmental Response Team Center
Response Engineering Analytical Contract
Air Sampling Work Sheet
Lockheed Martin Corp., Edison, NJ
U.S. EPA Contract No. EP-C04-032

Site: WR Grace

WA#: 0-118

Sampler: Rigby/Schmidt/Santos

U.S. EPA/ERT WAM: Brass

Date: 04/11/05

REAC Task Leader: Schmidt

Sample #	WRGD-0031	WRGD-0033			
Location	A15A	FIELD BLANK			
Pump #	29	FIELD BLANK			
Media	.45μ+.5μ	→			
Analysis/Method	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Rotameter	HG	→			
Time/Counter (Start)	1400	—			
Time/Counter (Stop)	1830	—			
Total Time		—			
Pump Fault	Y / N	Y / N	Y / N	Y / N	Y / N
Flow Rate (Start)		—			
Flow Rate (End)		—			
Flow Rate Average		—			
Sample Volume	1911 L	0 L			

MET Station on Site?: (Y) N

EXCAVATION 2

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Lockheed Martin Corp., Edison, NJ
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Site: WR Grace

WA#: 0-118

Sampler: Rigby/Schmidt/Santos

U.S. EPA/ERT WAM: Brass

Date: 04/18/05

REAC Task Leader: Schmidt

Sample #	WRGD-0037	WRGD-0035	WRGD-0034	WRGD-0039	WRGD-0036
Location	A12	A2	A1	A18	A5
Pump #	29	24	20	9	18
Media	.45u+.5u TCM	→			→
Analysis/Method	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Rotameter	HG	→			→
Time/Counter (Start)	0830	→			→
Time/Counter (Stop)					
Total Time					
Pump Fault	Y / N	Y / N	Y / N	Y / N	Y / N
Flow Rate (Start)	6.5	6.5	6.5	6.5	6.5
Flow Rate (End)	↓	↓	↓	↓	↓
Flow Rate Average	↓	↓	↓	↓	↓
Sample Volume	3900L	3900L	3900L	3900L	3900L
MET Station on Site?: Y / N	A1, A2, A5, A18, A15A, A12				

STOP @ 2:45

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Site: WR Grace

WA#: 0-118

Sampler: Rigby/Schmidt/Santos

U.S. EPA/ERT WAM: Brass

Date: 04/12/05

REAC Task Leader: Schmidt

Sample #	WRGD-0038	WRGD-0040			
Location	A15A	FIELD BLANK			
Pump #	23	—			
Media	.45 + .5μ TEM	—			
Analysis/Method	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Rotameter	HG	—			
Time/Counter (Start)	0830	—			
Time/Counter (Stop)		—			
Total Time		—			
Pump Fault	Y/N	Y/N	Y/N	Y/N	Y/N
Flow Rate (Start)	6.5	—			
Flow Rate (End)	↓	—			
Flow Rate Average	↓	—			
Sample Volume	3900 L	0 L			

MET Station on Site?: (Y)/N

EXCAVATION #3

U.S. EPA/Environmental Response Team Center
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Site: WR Grace

WA#: 0-118

Sampler: Rigby/Schmidt/Santos

U.S. EPA/ERT WAM: Brass

Date: 04/ /05

REAC Task Leader: Schmidt

Sample #	WRGD-0047	WRGD-0043	WRGD-0045	WRGD-0046	WRGD-0041
Location	A18	A5	A11	A12	A1
Pump #	18	9	24	23	20
Media	.45µ+.5µ TEM				
Analysis/Method	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Rotameter	HG				
Time/Counter (Start)	0830	0830	0830	0830	0830
Time/Counter (Stop)	1830				
Total Time					
Pump Fault	Y/N	Y/N	Y/N	Y/N	Y/N
Flow Rate (Start)	6.5 LPM				
Flow Rate (End)	6.5 LPM				
Flow Rate Average	6.5 LPM				
Sample Volume	3900L	3900 L	3900 L	3900 L	3900 L

MET Station on Site?: (Y) N

LOT #2415

U.S. EPA/Environmental Response Team Center
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Site: WR Grace

WA#: 0-118

Sampler: Rigby/Schmidt/Santos

U.S. EPA/ERT WAM: Brass

Date: 04/14/05

REAC Task Leader: Schmidt

Sample #	WRGD-0042	WRGD-0048	WRGD-0044		
Location	A2	FIELD BLANK	A7		
Pump #	29	—	12		
Media	.45μ+.5μ TEM	→	.45+.5μ TEM		
Analysis/Method	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Rotameter	HG	—	HG		
Time/Counter (Start)	0830	—	1400?		
Time/Counter (Stop)		—			
Total Time		—			
Pump Fault	Y / N	Y / N	Y / N	Y / N	Y / N
Flow Rate (Start)	6.5LPM	—			
Flow Rate (End)		—			
Flow Rate Average		—			
Sample Volume		OL			

MET Station on Site? Y / N

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Site: WR Grace

WA#: 0-118

Sampler: Rigby/Schmidt/Santos

U.S. EPA/ERT WAM: Brass

Date: 04/15/05

REAC Task Leader: Schmidt

Sample #	WRGD-0049	WRGD-0050	WRGD 0051	WRGD-0052	WRGD 0053
Location	A2	A5	A7	A9	A15A
Pump #	29	20	18	24	23
Media	.45u+.5u TGM	→			→
Analysis/Method	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Rotameter	HG	→			→
Time/Counter (Start)	0830	0830	0830	0830	0830
Time/Counter (Stop)	1730	1730	1730	1730	1730
Total Time	540 min	540 min	540 min	540 min	540 min
Pump Fault	Y/N	Y/N	Y/N	Y/N	Y/N
Flow Rate (Start)	6.5 LPM	→			→
Flow Rate (End)	6.5 L/min	6.5 l/min	6.5 l/min	6.5 l/min	6.5 l/min
Flow Rate Average	6.5 L/min	6.5 l/min	6.5 l/min	6.5 l/min	6.5 l/min
Sample Volume	3510 l	3510 l	3510 l	3510 l	3510 l

MET Station on Site?: Y/N

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Site: WR Grace

WA#: 0-118

Sampler: Rigby/Schmidt/Santos

U.S. EPA/ERT WAM: Brass

Date: 04/ /05

REAC Task Leader: Schmidt

Sample #	WRGD-0054	WRGD-0055			
Location	A18	FIELD BLANK			
Pump #	9	—			
Media	.45μ .5μ TM	—			
Analysis/Method	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Rotameter	HG	—			
Time/Counter (Start)	0830	—			
Time/Counter (Stop)	1730	—			
Total Time	540 min	—			
Pump Fault	Y / N	Y / N	Y / N	Y / N	Y / N
Flow Rate (Start)	6.5 lpm	—			
Flow Rate (End)	6.5 l/min	—			
Flow Rate Average	6.5 l/min	—			
Sample Volume	3510 l	—			

MET Station on Site?: Y / N

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Site: WR Grace

WA#: 0-118

Sampler: [redacted]/Schmidt/[redacted] MAGAN

U.S. EPA/ERT WAM: Brass

Date: 04/16/05

REAC Task Leader: Schmidt

Sample #	WRGD-0056	WRGD-0057	WRGD-0058	WRGD-0059	WRGD-0060
Location	A2	A5	A7	A9	A15A
Pump #	20	9	24	[redacted] 18	[redacted] 29
Media	,45μ r.54 TEM	→	→	→	→
Analysis/Method	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Rotameter	Hg	→	→	→	→
Time/Counter (Start)	0830	→	→	→	→
Time/Counter (Stop)	1630	→	→	→	→
Total Time	480 min	→	→	→	→
Pump Fault	Y/N	Y/N	Y/N	Y/N	Y/N
Flow Rate (Start)	8 l/min	→	→	→	→
Flow Rate (End)	8 l/min	→	→	→	→
Flow Rate Average	8 l/min	→	→	→	→
Sample Volume	3840 l	→	→	→	?

MET Station on Site?: Y N

RAN 4 @ LOC 2
RAN 6 @ LOC 5
RAN 5 @ LOC 18

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Site: WR Grace

WA#: 0-118

Sampler: [redacted]/Schmidt/[redacted] MAGAN

U.S. EPA/ERT WAM: Brass

Date: 04/[redacted]/05

REAC Task Leader: Schmidt

Sample #	WRGD-0061	WRGD-0062			
Location	A18	FIELD BLANK			
Pump #	23				
Media	.45μ, 54 TEM				
Analysis/Method	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Rotameter	Hg				
Time/Counter (Start)	0830				
Time/Counter (Stop)	1630				
Total Time	480 min				
Pump Fault	Y / N	Y / N	Y / N	Y / N	Y / N
Flow Rate (Start)	8 l/min				
Flow Rate (End)	8 l/min				
Flow Rate Average	8 l/min				
Sample Volume	3840 l				

MET Station on Site?: Y / N

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Site: WR Grace

WA#: 0-118

Sampler: ~~Bob~~/Schmidt/~~Brass~~ / MAOAN

U.S. EPA/ERT WAM: Brass

Date: 04/18/05

REAC Task Leader: Schmidt

Sample #	WRGD 0063	WRGD 0064	WRGD - 0065	WRGD - 0066	WRGD - 0067
Location	A2	A5	A7	A9	A15A
Pump #	9	20	24	29	~~24~~
Media	.45µ + .5µ TEM	→	→	→	→
Analysis/Method	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Rotameter	Hg	→	→	→	→
Time/Counter (Start)	830	→	→	→	→
Time/Counter (Stop)	1830	→	→	→	→
Total Time	600 min	→	→	→	→
Pump Fault	Y / (N)	Y / (N)	Y / (N)	Y / (N)	Y / (N)
Flow Rate (Start)	6 l/min	→	→	→	→
Flow Rate (End)	6 l/min	→	→	→	→
Flow Rate Average	6 l/min	→	→	→	→
Sample Volume	3600 l	→	→	→	→

MET Station on Site?: (Y) N

DR 4 = LOC 18
DR 5 = LOC 2
DR 6 = LOC 5

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Site: WR Grace

WA#: 0-118

Sampler: Rigby/Schmidt/Santos

U.S. EPA/ERT WAM: Brass

Date: 04/18/05

REAC Task Leader: Schmidt

Sample #	WRGD-0068	WRGD-0069			
Location	A18	FIELD BLANK			
Pump #	23				
Media	.45μ + 5μ TEM				
Analysis/Method	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Rotameter	Hg				
Time/Counter (Start)	830				
Time/Counter (Stop)	1830				
Total Time	600 min				
Pump Fault	Y / N	Y / N	Y / N	Y / N	Y / N
Flow Rate (Start)	6 l/min				
Flow Rate (End)	6 l/min				
Flow Rate Average	6 l/min				
Sample Volume	3600 l				

MET Station on Site?: Y / N

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Site: WR Grace

WA#: 0-118

Sampler: Rigby/Schmidt/Santos

U.S. EPA/ERT WAM: Brass

Date: 04/19/05

REAC Task Leader: Schmidt

Sample #	WRGD 0070	WRGD-0071	WRGD-0075	WRGD-0072	WRGD-0074
Location	A2	A5	A18	A7	A15A
Pump #	9	20	23	24	29
Media	.45µ+ SM TEM	→	→	→	→
Analysis/Method	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Rotameter	Hg	→	→	→	→
Time/Counter (Start)	830	→	→	→	→
Time/Counter (Stop)	1545	→	→	→	→
Total Time	435 min	→	→	→	→
Pump Fault	Y/N	Y/N	Y/N	Y/N	Y/N
Flow Rate (Start)	6 l	→	→	→	→
Flow Rate (End)	6 l	→	→	→	→
Flow Rate Average	6 l	→	→	→	→
Sample Volume	2610 l	→	→	→	→

MET Station on Site?: Y / N

DR 4 = LOC 18
DR 5 = LOC 2
DR 6 = LOC 7 damaged by site vehicle NO Download

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WA#: 0-118

Sampler: Rigby/Schmidt/Santos

U.S. EPA/ERT WAM: Brass

Date: 04/19/05

REAC Task Leader: Schmidt

Sample #	WRGD-0073	WRGD-0076			
Location	A9	FIELD BLANK			
Pump #	78	—			
Media	45M + 5M TOM				
Analysis/Method	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Rotameter	Hg				
Time/Counter (Start)	0830				
Time/Counter (Stop)	1545				
Total Time	435 min				
Pump Fault	Y/N	~~Y/N~~	Y/N	Y/N	Y/N
Flow Rate (Start)	6 l/min				
Flow Rate (End)	6 l/min				
Flow Rate Average	6 l/min				
Sample Volume	2610 l	0 l			

MET Station on Site?: Y/N

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Site: WR Grace

WA#: 0-118

Sampler: Rigby/Schmidt/Santos

U.S. EPA/ERT WAM: Brass

Date: 04/20/05

REAC Task Leader: Schmidt

Sample #	WRGD-0078	WRGD-0079	WRGD-0080	WRGD-0081	WRGD-0082
Location	A2	A5	A7	A9	A15A
Pump #	20	9	18	24	29
Media	.45+5μ TEM	→	→	→	→
Analysis/Method	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Rotameter	Hg	→	→	→	→
Time/Counter (Start)	830	→	→	→	→
Time/Counter (Stop)	1330	→	→	→	→
Total Time	300 min	→	→	→	→
Pump Fault	Y/N	Y/N	Y/N	Y/N	Y/N
Flow Rate (Start)	6 l/min	→	→	→	→
Flow Rate (End)	6 l/min	→	→	→	→
Flow Rate Average	6 l/min	→	→	→	→
Sample Volume	1800 l	→	→	→	→

MET Station on Site?: Y/N

NO DATA RUNS → RAIN + WET SOIL

CEASED EXCAVATION @ 1330 → HIGH WINDS

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Site: WR Grace

WA#: 0-118

Sampler: Rigby/Schmidt/Santos

U.S. EPA/ERT WAM: Brass

Date: 04/ /05

REAC Task Leader: Schmidt

Sample #	WRGD-0083	WRGD-0084			
Location	A1B	FIELD BLANK			
Pump #	23				
Media	.45μ + 5μ TEM				
Analysis/Method	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Rotameter	Hg				
Time/Counter (Start)	0830				
Time/Counter (Stop)	1330				
Total Time	300 min				
Pump Fault	Y/(N)	Y/N	Y/N	Y/N	Y/N
Flow Rate (Start)	6 l/min				
Flow Rate (End)	6 l/min				
Flow Rate Average	6 l/min				
Sample Volume	1800 l	0 l			

MET Station on Site?: (Y)/N

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WA#: 0-118

Sampler: Rigby/Schmidt/Santos

U.S. EPA/ERT WAM: Brass

Date: 04/21/05

REAC Task Leader: Schmidt

Sample #	WRGD-0085	WRGD-0086	WRGD-0087	WRGD-0088	WRGD-0089
Location	A5	A7	A9	A11	A12
Pump #	9	18	24	23	29
Media	.45M/.5M TEM	→	→	→	→
Analysis/Method	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Rotameter	Hg	→	→	→	→
Time/Counter (Start)	0830	→	→	→	→
Time/Counter (Stop)	1830	→	→	→	→
Total Time	600 min	→	→	→	→
Pump Fault	Y/N	Y/N	Y/N	Y/N	Y/N
Flow Rate (Start)	6 l/min	→	→	→	→
Flow Rate (End)	6 l/min	→	→	→	→
Flow Rate Average	6 l/min	→	→	→	→
Sample Volume	3600 l	→	→	→	→

MET Station on Site?: Y/N

NORTH WIND

DR: LOC A5 => #5
LOC A18 => #1
LOC A11 => #4

NEW LOT # H4NN94045

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Site: WR Grace

WA#: 0-118

Sampler: Rigby/Schmidt/Santos

U.S. EPA/ERT WAM: Brass

Date: 04/21/05

REAC Task Leader: Schmidt

Sample #	WRGD-0090	WRGD-0091	WRGD-0092		
Location	A18	FIELD BLANK	LOT BLANK		
Pump #	20				
Media	.45μ-8M TEM	→	→		
Analysis/Method	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Rotameter	Hg				
Time/Counter (Start)	0830				
Time/Counter (Stop)	1830				
Total Time	600 min				
Pump Fault	Y/(N)	Y/N	Y/N	Y/N	Y/N
Flow Rate (Start)	6 l/min				
Flow Rate (End)	6 l/min				
Flow Rate Average	6 l/min				
Sample Volume	3600 l	0 l	0 l		

MET Station on Site?: (Y) N

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WA#: 0-118

Sampler: Rigby/Schmidt/Santos

U.S. EPA/ERT WAM: Brass

Date: 04/29/05

REAC Task Leader: Schmidt

Sample #	WRGD-93	WRGD-94	WRGD-95	WRGD-96	WRGD-97
Location	A5	A7	A9	A11	A12
Pump #	9	14	18	23	29
Media	.45+54 TEM	→	→	→	→
Analysis/Method	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Rotameter	Hg	→	→	→	→
Time/Counter (Start)	0815	→	→	→	→
Time/Counter (Stop)	1730	→	→	→	→
Total Time	9HRS 15MIN	→	→	→	→
Pump Fault	Y/N	Y/N	Y/N	Y/N	Y/N
Flow Rate (Start)	7 l/min	→	→	→	→
Flow Rate (End)				DAMAGED	
Flow Rate Average				BY RAIN	
Sample Volume				—	

MET Station on Site?: Y/N

DR 1 = LOC 18
DR4 = LOC 11
DR5 = LOC5

NORTHEAST WIND

pulled @ 1130 due to rain
light to moderate rain 1130 AM thru day

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WA#: 0-118

Sampler: Rigby/Schmidt/Santos

U.S. EPA/ERT WAM: Brass

Date: 04/27/05

REAC Task Leader: Schmidt

Sample #	WRGD-98	WRGD-99			
Location	A18	FIELD BLANK			
Pump #	24	/			
Media	.45M-5M TEM	→			
Analysis/Method	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Rotameter	Hg	→			
Time/Counter (Start)	0815	/			
Time/Counter (Stop)		/			
Total Time		/			
Pump Fault	Y / N	Y / N	Y / N	Y / N	Y / N
Flow Rate (Start)	7 l/min	/			
Flow Rate (End)		/			
Flow Rate Average		/			
Sample Volume		0 l			

MET Station on Site?: Y / N

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REAC
Response Engineering and Analytical Contract

Site: WR Grace

WA#: 0-118

Sampler: ~~Rigby/Schmidt/Santos~~ Morgan/DuBois

U.S. EPA/ERT WAM: Brass

Date: 04/23/05

REAC Task Leader: Schmidt

Sample #	101	102	103	104	105
Location	A5	A7	A9 · VAN?	A11	A12
Pump #	9	14	24 ~~18~~	23	29 ~~25~~ ~~29~~
Media					
Analysis/Method	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Rotameter					
Time/Counter (Start)	0843	0841	0831	0832	0846 ~~0831~~
Time/Counter (Stop)	10:24	16:25	16:20	~~16:35~~ 16:17	
Total Time	1:41 101	7:44 464	7:49 469	~~7:48~~ 7:45=465	
Pump Fault	Y/N	Y/N	Y/N	Y/N	Y/N
Flow Rate (Start)	8	8	8	8	8
Flow Rate (End)	10 power not on	9	8	8	
Flow Rate Average	9	8.5	8	8	NO SAMPLE FILTER FELL OUT
Sample Volume	909	3944	3752	3720	

MET Station on Site?: Y/N

light to moderate rain - no Data Ram set out. winds ~20 mph, but excavating using rain as "engineering control"
snow after 10Am

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Site: WR Grace

WA#: 0-118

Sampler: Rigby/Schmidt/Santos

U.S. EPA/ERT WAM: Brass

Date: 04/23/05

REAC Task Leader: Schmidt

Sample #	106	107			
Location	A18	Field Blank			
Pump #	1824	—			
Media					
Analysis/Method	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Rotameter					
Time/Counter (Start)	0825				
Time/Counter (Stop)					
Total Time					
Pump Fault	Y / N	Y / N	Y / N	Y / N	Y / N
Flow Rate (Start)	8 LPM				
Flow Rate (End)					
Flow Rate Average	* SAMPLE DESTROYED BY RAIN/SNOW				
Sample Volume		0			

MET Station on Site?: Y / N

* TEM cassette bands fall apart due to rain
Sample destroyed (filters fall out of cassette)

Page ___ of ___

U.S. EPA/Environmental Response Team Center
Response Engineering Analytical Contract
Air Sampling Work Sheet
Lockheed Martin Corp., Edison, NJ
U.S. EPA Contract No. EP-C04-032

Site: WR Grace

WA#: 0-118

Sampler: ~~Rigby/Schmidt/Santos~~ DuBois/SANTOS

U.S. EPA/ERT WAM: Brass

Date: 04/25/05

REAC Task Leader: Schmidt

Sample #	108	109	110	111	112	113	114
Location	A5	A7	A9	A11	A12	A18	FB
Pump #	23	29	9	14	18	24	
Media							
Analysis/Method	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400		NIOSH 7400	
Rotameter							
Time/Counter (Start)	0857	0855	0850	0846	0853	848	
Time/Counter (Stop)				9:56 trip restart @13:09			
Total Time							
Pump Fault	Y / N	Y / N	Y / N	Y / N		Y / N	
Flow Rate (Start)							
Flow Rate (End)							
Flow Rate Average							
Sample Volume							

MET Station on Site?: Y / N

DR5 = A5
DR4 = A4 → new DR4
DR1 = A18

Page ___ of ___

U.S. EPA/Environmental Response Team Center
Response Engineering Analytical Contract
Air Sampling Work Sheet
Lockheed Martin Corp., Edison, NJ
U.S. EPA Contract No. EP-C04-032

Site: WR Grace

WA#: 0-118

Sampler: ~~Rigby/Schmidt~~/Santos DuBois

U.S. EPA/ERT WAM: Brass

Date: 04/26/05

REAC Task Leader: Schmidt

Sample #	~~18~~ 0115	116	117	118	119
Location	A18	A2	A9	A5	A7
Pump #	18	14	24	29	9
Media					
Analysis/Method	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Rotameter					
Time/Counter (Start)	0840	0830	0840	0840	0840
Time/Counter (Stop)	1810				
Total Time					
Pump Fault	Y/N	Y/N	Y/N	Y/N	Y/N
Flow Rate (Start)					
Flow Rate (End)					
Flow Rate Average					
Sample Volume					

MET Station on Site?: Y/N

Light rain 0845 - 1130

DR5 @ A5
DR1 @ A18

U.S. EPA/Environmental Response Team Center
Response Engineering Analytical Contract
Air Sampling Work Sheet
Lockheed Martin Corp., Edison, NJ
U.S. EPA Contract No. EP-C04-032

Site: WR Grace

WA#: 0-118

Sampler: Rigby/Schmidt/Santos

U.S. EPA/ERT WAM: Brass

Date: 04/ /05

REAC Task Leader: Schmidt

Sample #	120	121			
Location	A15A	FB			
Pump #	12				
Media					
Analysis/Method	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Rotameter					
Time/Counter (Start)					
Time/Counter (Stop)					
Total Time					
Pump Fault	Y / N	Y / N	Y / N	Y / N	Y / N
Flow Rate (Start)					
Flow Rate (End)					
Flow Rate Average					
Sample Volume					

MET Station on Site?: Y / N

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U.S. EPA/Environmental Response Team Center
Response Engineering Analytical Contract
Air Sampling Work Sheet
Lockheed Martin Corp., Edison, NJ
U.S. EPA Contract No. EP-C04-032

REAC
Response Engineering and Analytical Contract

Site: WR Grace

WA#: 0-118

Sampler: Rigby/Schmidt/Santos

U.S. EPA/ERT WAM: Brass

Date: 04/ /05 4/27

REAC Task Leader: Schmidt

Sample #	122	123	124	125	126
Location	A5	A7	A18	A9	~~New~~ A6
Pump #	18	24	12	29	14
Media					
Analysis/Method	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Rotameter					
Time/Counter (Start)	0730	0730	0730	0730	0730
Time/Counter (Stop)	1730	1730	1730	~~1730~~ 1300	1730
Total Time					
Pump Fault	Y/N	Y/N	Y/N	Y/N	Y/N
Flow Rate (Start)	~~6.5~~ 7.0	6.5	6.5	~~7.0~~ 6.5	6.5
Flow Rate (End)					
Flow Rate Average					
Sample Volume					

MET Station on Site?: Y/N

DR1 new @ Loc A18
DR5 @ A5

Should finish Area 2 today and start in Area 3 - will set up add'l pumps for Area 3

Stopped Locn A9 @ 1300 to move slightly and to start w/ new cassette as a DW for Area 3

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U.S. EPA/Environmental Response Team Center
Response Engineering Analytical Contract
Air Sampling Work Sheet
Lockheed Martin Corp., Edison, NJ
U.S. EPA Contract No. EP-C04-032

Site: WR Grace

WA#: 0-118

Sampler: Rigby/Schmidt/Santos

U.S. EPA/ERT WAM: Brass

Date: 04/ /05 4/27

REAC Task Leader: Schmidt

Sample #	AIC 127	129 ~~128~~	128 129		
Location	A12	A9A	FB		
Pump #	9	29			
Media					
Analysis/Method	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Rotameter					
Time/Counter (Start)	0730	1310			
Time/Counter (Stop)					
Total Time	6h 36m	4h 31m			
Pump Fault	Y/N	Y/N	Y/N	Y/N	Y/N
Flow Rate (Start)	7.0				
Flow Rate (End)					
Flow Rate Average					
Sample Volume					

MET Station on Site?: Y/N

DR 4 new @ A9A at 13:30

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U.S. EPA/Environmental Response Team Center
Response Engineering Analytical Contract
Air Sampling Work Sheet
Lockheed Martin Corp., Edison, NJ
U.S. EPA Contract No. EP-C04-032

REAC
Response Engineering and Analytical Contract

Site: WR Grace

WA#: 0-118

Sampler: Rigby/Schmidt/Santos

U.S. EPA/ERT WAM: Brass

Date: 04/28/05

REAC Task Leader: Schmidt

Sample #	130	131	132	133	134
Location	A9A	A10 (Back)	A18	A5	A12
Pump #	9	14	18	24	29
Media					
Analysis/Method	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Rotameter					
Time/Counter (Start)	0720	0720		0720	0720 restart @ 1800
Time/Counter (Stop)	11 25	11h25m	11:25h	11h25m	0-6h 50m 9h 55m = 595 + 3h 05m
Total Time					
Pump Fault	Y/N	Y/N	Y/N	Y/N	Y/N
Flow Rate (Start)	7				
Flow Rate (End)					
Flow Rate Average					
Sample Volume					

MET Station on Site?: Y/N

DR 1n @ A18
DR 5 @ A5
DR 4n @ 9A

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U.S. EPA/Environmental Response Team Center
Response Engineering Analytical Contract
Air Sampling Work Sheet
Lockheed Martin Corp., Edison, NJ
U.S. EPA Contract No. EP-C04-032

Site: WR Grace

WA#: 0-118

Sampler: Rigby/Schmidt/Santos

U.S. EPA/ERT WAM: Brass

Date: 04/~~26~~/05

REAC Task Leader: Schmidt

Sample #	135	136			
Location	~~A13~~ ~~A8~~	FB			
Pump #	12				
Media					
Analysis/Method	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Rotameter					
Time/Counter (Start)	0720 / 0 1420 restart				
Time/Counter (Stop)	0-3h 50m + 4h 40m 8h 30m = 510 1900				
Total Time					
Pump Fault	Y / N	Y / N	Y / N	Y / N	Y / N
Flow Rate (Start)					
Flow Rate (End)					
Flow Rate Average					
Sample Volume					

MET Station on Site?: Y / N

Samples: 7					
Sample #	WRGD-0137	WRGD-0138	WRGD-0139	WRGD-0140	WRGD-0141
Sample Date	4/29/2005	4/29/2005	4/29/2005	4/29/2005	4/29/2005
EventID	Excavation 16	Excavation 16	Excavation 16	Excavation 16	Excavation 16
Location	A18	A9A	A11	A10	A8A
Matrix	Air	Air	Air	Air	Air
Analyses	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Container	TEM Cassette	TEM Cassette	TEM Cassette	TEM Cassette	TEM Cassette
COC	0118-042905-0026	0118-042905-0026	0118-042905-0026	0118-042905-0026	0118-042905-0026
Remarks	DR1n @ A18, DR4r	DR1n @ A18, DR4r	DR1n @ A18, DR4r	DR1n @ A18, DR4r	DR1n @ A18, DR4r
Volume	4248	4336	2784	4424	4256
Volume_Units	Liters	Liters	Liters	Liters	Liters

Samples: 7		
Sample #	WRGD-0142	WRGD-0143
Sample Date	4/29/2005	4/29/2005
EventID	Excavation 16	Excavation 16
Location	A12	Field Blank
Matrix	Air	Air
Analyses	NIOSH 7400	NIOSH 7400
Container	TEM Cassette	TEM Cassette
COC	0118-042905-0026	0118-042905-0026
Remarks	DR1n @ A18, DR4r	DR1n @ A18, DR4r
Volume	4224	
Volume_Units	Liters	Liters

Samples: 7					
Sample #	WRGD-0144	WRGD-0145	WRGD-0146	WRGD-0147	WRGD-0148
Sample Date	5/17/2005	5/17/2005	5/17/2005	5/17/2005	5/17/2005
EventID	Soccer 1	Soccer 1	Soccer 1	Soccer 1	Soccer 1
Location	E1	E2	E3	E4	E5
Matrix	Air	Air	Air	Air	Air
Analyses	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Container	TEM Cassette	TEM Cassette	TEM Cassette	TEM Cassette	TEM Cassette
COC	0118-041505-0030	0118-041505-0030	0118-041505-0030	0118-041505-0030	0118-041505-0030
Remarks					
Volume	3600	3240	3600	3600	3600
Volume_Units	Liters	Liters	Liters	Liters	Liters

Samples: 7		
Sample #	WRGD-0149	WRGD-0153
Sample Date	5/17/2005	5/17/2005
EventID	Soccer 1	Soccer 1
Location	E6	Field Blank
Matrix	Air	Air
Analyses	NIOSH 7400	NIOSH 7400
Container	TEM Cassette	TEM Cassette
COC	0118-041505-0030	0118-041505-0030
Remarks		
Volume	3600	0
Volume Units	Liters	Liters

Samples: 7					
Sample #	WRGD-0154	WRGD-0155	WRGD-0156	WRGD-0157	WRGD-0158
Sample Date	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005
EventID	Soccer 2	Soccer 2	Soccer 2	Soccer 2	Soccer 2
Location	E1	E2	E3	E4	E5
Matrix	Air	Air	Air	Air	Air
Analyses	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400	NIOSH 7400
Container	TEM Cassette	TEM Cassette	TEM Cassette	TEM Cassette	TEM Cassette
COC	0118-041505-0032	0118-041505-0032	0118-041505-0032	0118-041505-0032	0118-041505-0032
Remarks					batt out for 2 hours
Volume	3780	3780	3780	3780	3060
Volume_Units	Liters	Liters	Liters	Liters	Liters

Samples: 7		
Sample #	WRGD-0159	WRGD-0160
Sample Date	5/18/2005	5/18/2005
EventID	Soccer 2	Soccer 2
Location	E6	Field Blank
Matrix	Air	Air
Analyses	NIOSH 7400	NIOSH 7400
Container	TEM Cassette	TEM Cassette
COC	0118-041505-0032	0118-041505-0032
Remarks		
Volume	3780	0
Volume_Units	Liters	Liters

REAC, Edison, NJ
EPA Contract #: EP-C-04-032

CHAIN OF CUSTODY RECORD
Site #: 118
Contact Name: John Johnson
Contact Phone: (732) 321-4248

No: 0118-040605-0001
Cooler #:
Lab: EMSL
Lab Phone: (734) 668-6810

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Volume	Vol Units
	WRGD-0001	A1	NIOSH 7400	Air	4/6/2005	1	TEM Cassette	None	2590	Liters
	WRGD-0002	A3	NIOSH 7400	Air	4/6/2005	1	TEM Cassette	None	4690	Liters
	WRGD-0003	A5	NIOSH 7400	Air	4/6/2005	1	TEM Cassette	None	4630	Liters
	WRGD-0004	A7	NIOSH 7400	Air	4/6/2005	1	TEM Cassette	None	4620	Liters
	WRGD-0005	A9	NIOSH 7400	Air	4/6/2005	1	TEM Cassette	None	4840	Liters
	WRGD-0006	A11	NIOSH 7400	Air	4/6/2005	1	TEM Cassette	None	3760	Liters
	WRGD-0007	A12	NIOSH 7400	Air	4/6/2005	1	TEM Cassette	None	4800	Liters
	WRGD-0008	A14	NIOSH 7400	Air	4/6/2005	1	TEM Cassette	None	4800	Liters
	WRGD-0009	A15	NIOSH 7400	Air	4/6/2005	1	TEM Cassette	None	4800	Liters
	WRGD-0010	A16	NIOSH 7400	Air	4/6/2005	1	TEM Cassette	None	4920	Liters
	WRGD-0011	A17	NIOSH 7400	Air	4/6/2005	1	TEM Cassette	None	4950	Liters
	WRGD-0012	A18	NIOSH 7400	Air	4/6/2005	1	TEM Cassette	None	4710	Liters
	WRGD-0013	Field Blank	NIOSH 7400	Air	4/6/2005	1	TEM Cassette	None	0	Liters

Special Instructions: Please analyze using NIOSH 7400 and hold for possible TEM analysis in the future.
Please fax preliminary results to John Johnson (732) 494-4020 and Howard Schmidt (866) 526-1434 within 24 hours of sample receipt.
Lot #: 3014

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time

080501356

REAC, Edison, NJ
EPA Contract #: EP-C-04-032

CHAIN OF CUSTODY RECORD
Site #: 118
Contact Name: John Johnson
Contact Phone: (732) 321-4248

No: 0118-040705-0002
Cooler #:
Lab: EMSL
Lab Phone: (734) 666-6610

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Volume	Vol Units
	WRGD-0014	A1	NIOSH 7400	Air	4/7/2005	1	TEM Cassette	None	4500	Liters
	WRGD-0015	A3	NIOSH 7400	Air	4/7/2005	1	TEM Cassette	None	4500	Liters
	WRGD-0016	A5	NIOSH 7400	Air	4/7/2005	1	TEM Cassette	None	4500	Liters
	WRGD-0017	A7	NIOSH 7400	Air	4/7/2005	1	TEM Cassette	None	4500	Liters
	WRGD-0018	A9	NIOSH 7400	Air	4/7/2005	1	TEM Cassette	None	4500	Liters
	WRGD-0019	A11	NIOSH 7400	Air	4/7/2005	1	TEM Cassette	None	4400	Liters
	WRGD-0020	A12	NIOSH 7400	Air	4/7/2005	1	TEM Cassette	None	4450	Liters
	WRGD-0021	A14	NIOSH 7400	Air	4/7/2005	1	TEM Cassette	None	4420	Liters
	WRGD-0022	A15	NIOSH 7400	Air	4/7/2005	1	TEM Cassette	None	4410	Liters
	WRGD-0023	A16	NIOSH 7400	Air	4/7/2005	1	TEM Cassette	None	4500	Liters
	WRGD-0024	A17	NIOSH 7400	Air	4/7/2005	1	TEM Cassette	None	4500	Liters
	WRGD-0025	A18	NIOSH 7400	Air	4/7/2005	1	TEM Cassette	None	4500	Liters
	WRGD-0026	Field Blank	NIOSH 7400	Blank	4/7/2005	1	TEM Cassette	None	0	Liters

Special Instructions: Please analyze using NIOSH 7400 and hold for possible TEM analysis in the future.
Please fax preliminary results to John Johnson (732) 494-4020 and Howard Schmidt (888) 526-1434 within 24 hours of sample receipt.
Lot #: 3014

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
ALL / ANALYSIS	SL Roby	04/07/05	EMSL Drop	04/07/05							
			[illegible]	4-8-05	Drop Box. [illegible]						

REAC, Edison, NJ
EPA Contract #: EP-C-04-032

CHAIN OF CUSTODY RECORD
Site #: 118
Contact Name: John Johnson
Contact Phone: (732) 321-4248

No: 0118-040605-0003
Cooler #:
Lab: EMSL
Lab Phone: (734) 668-6810

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Volume	Vol Units
	WRGD-0027	A1	NIOSH 7400	Air	4/11/2005	1	TEM Cassette	None	1820	Liters
	WRGD-0028	A2	NIOSH 7400	Air	4/11/2005	1	TEM Cassette	None	1839.5	Liters
	WRGD-0029	A5	NIOSH 7400	Air	4/11/2005	1	TEM Cassette	None	1820	Liters
	WRGD-0030	A14A	NIOSH 7400	Air	4/11/2005	1	TEM Cassette	None	1930.5	Liters
	WRGD-0031	A15A	NIOSH 7400	Air	4/11/2005	1	TEM Cassette	None	1911	Liters
	WRGD-0032	A18	NIOSH 7400	Air	4/11/2005	1	TEM Cassette	None	1839.5	Liters
	WRGD-0033	Field Blank	NIOSH 7400	Air	4/11/2005	1	TEM Cassette	None	0	Liters

Special Instructions: Please analyze using NIOSH 7400 and hold for possible TEM analysis in the future.
Please fax preliminary results to John Johnson (732) 494-4020 and Shawna Rigby (313) 945-9481 within 24 hours of sample receipt.
Lot #: 3014

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time

REAC, Edison, NJ
EPA Contract #: EP-C-04-032

CHAIN OF CUSTODY RECORD
Site #: 118
Contact Name: John Johnson
Contact Phone: (732) 321-4248

No: 0118-040605-0004
Cooler #:
Lab: EMSL
Lab Phone: (734) 668-6810

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Volume	Vol Units
	WRGD-0034	A1	NIOSH 7400	Air	4/13/2005	1	TEM Cassette	None	3900	Liters
	WRGD-0035	A2	NIOSH 7400	Air	4/13/2005	1	TEM Cassette	None	3900	Liters
	WRGD-0036	A5	NIOSH 7400	Air	4/13/2005	1	TEM Cassette	None	3900	Liters
	WRGD-0037	A12	NIOSH 7400	Air	4/13/2005	1	TEM Cassette	None	3900	Liters
	WRGD-0038	A15A	NIOSH 7400	Air	4/13/2005	1	TEM Cassette	None	3900	Liters
	WRGD-0039	A18	NIOSH 7400	Air	4/13/2005	1	TEM Cassette	None	3900	Liters
	WRGD-0040	Field Blank	NIOSH 7400	Air	4/13/2005	1	TEM Cassette	None	0	Liters

Special Instructions: Please analyze using NIOSH 7400 and hold for possible TEM analysis in the future.
Please fax preliminary results to John Johnson (732) 494-4020 and Shawna Rigby (313) 945-9481 within 24 hours of sample receipt.
Lot #: 3014

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time

Page 1 of 1

080501452

REAC, Edison, NJ
EPA Contract #: EP-C-04-032

CHAIN OF CUSTODY RECORD
Site #: 118
Contact Name: John Johnson
Contact Phone: 732-321-4220

No: 0118-041405-0005
Cooler #:
Lab: EMSL
Lab Phone: (734) 668-6810

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Volume	Vol Units
	WRGD-0041	A1	NIOSH 7400	Air	4/14/2005	1	TEM Cassette	None	3900	Liters
	WRGD-0042	A2	NIOSH 7400	Air	4/14/2005	1	TEM Cassette	None	3900	Liters
	WRGD-0043	A5	NIOSH 7400	Air	4/14/2005	1	TEM Cassette	None	3900	Liters
	WRGD-0044	A7	NIOSH 7400	Air	4/14/2005	1	TEM Cassette	None	1755	Liters
	WRGD-0045	A11	NIOSH 7400	Air	4/14/2005	1	TEM Cassette	None	3900	Liters
	WRGD-0046	A12	NIOSH 7400	Air	4/14/2005	1	TEM Cassette	None	3900	Liters
	WRGD-0047	A16	NIOSH 7400	Air	4/14/2005	1	TEM Cassette	None	3900	Liters
	WRGD-0048	Field Blank	NIOSH 7400	Air	4/14/2005	1	TEM Cassette	None	0	Liters
		LOT BLANK				1	TEM CASSETTE			

Special Instructions: Please analyze using NIOSH 7400 and hold for possible TEM analysis in the future.
Please fax preliminary results to John Johnson (732) 494-4020 and Shawna Rigby (313) 945-9481 within 24 hours of sample receipt.
Lot #: 3014 and Lot #2415 LOT BLANK

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
ALL/ANALYSIS	SR	04/14/05	EMSL DROP	04/14/05							
			[illegible]	4-15-05	5:00 PM DROP BOX.						

080501484

REAC, Edison, NJ
EPA Contract #: EP-C-04-032

CHAIN OF CUSTODY RECORD
Site #: 118
Contact Name: John Johnson
Contact Phone: 732-321-4220

No: 0118-041505-0008
Cooler #:
Lab: EMSL
Lab Phone: (734) 668-6810

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Volume	Vol Units
	WRGD-0049	A2	NIOSH 7400	Air	4/15/2005	1	TEM Cassette	None	3510	Liters
	WRGD-0050	A5	NIOSH 7400	Air	4/15/2005	1	TEM Cassette	None	3510	Liters
	WRGD-0051	A7	NIOSH 7400	Air	4/15/2005	1	TEM Cassette	None	3510	Liters
	WRGD-0052	A9	NIOSH 7400	Air	4/15/2005	1	TEM Cassette	None	3510	Liters
	WRGD-0053	A15A	NIOSH 7400	Air	4/15/2005	1	TEM Cassette	None	3510	Liters
	WRGD-0054	A18	NIOSH 7400	Air	4/15/2005	1	TEM Cassette	None	3510	Liters
	WRGD-0055	Field Blank	NIOSH 7400	Air	4/15/2005	1	TEM Cassette	None	0	Liters

Special Instructions: Please analyze using NIOSH 7400 and hold for possible TEM analysis in the future.
Please fax preliminary results to John Johnson (732) 494-4020 and Shawna Rigby (313) 945-9481 within 24 hours of sample receipt.
Lot #2415

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
ALL ANALYSIS	[illegible]	4-17-05	EMSL DROP OFF								
			[illegible]	4-18-05	Drop Box 8:00 Am						

080501483

REAC, Edison, NJ
EPA Contract #: EP-C-04-032

CHAIN OF CUSTODY RECORD

Site #: 118
Contact Name: John Johnson
Contact Phone: 732-321-4200

No: 0118-041605-0007

Cooler #:
Lab: EMSL
Lab Phone: (734) 668-6810

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Volume	Vol Units
	WRGD-0056	A2	NIOSH 7400	Air	4/16/2005	1	TEM Cassette	None	3840	Liters
	WRGD-0057	A5	NIOSH 7400	Air	4/16/2005	1	TEM Cassette	None	3840	Liters
	WRGD-0058	A7	NIOSH 7400	Air	4/16/2005	1	TEM Cassette	None	3840	Liters
	WRGD-0059	A9	NIOSH 7400	Air	4/16/2005	1	TEM Cassette	None	3840	Liters
	WRGD-0060	A15A	NIOSH 7400	Air	4/16/2005	1	TEM Cassette	None	3840	Liters
	WRGD-0061	A18	NIOSH 7400	Air	4/16/2005	1	TEM Cassette	None	3840	Liters
	WRGD-0062	Field Blank	NIOSH 7400	Air	4/16/2005	1	TEM Cassette	None	0	Liters

Special Instructions: Please analyze using NIOSH 7400 and hold for possible TEM analysis in the future.
Please fax preliminary results to John Johnson (732) 494-4020 and Shawna Rigby (313) 945-9481 within 24 hours of sample receipt.
Lot #2415

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
ALL ANALYSIS	[signature]	4-17-05	EMSL DROP BOX								
			[signature]	4-18-05	Overnight Shipping						

080501502

REAC, Edison, NJ
EPA Contract #: EP-C-04-032

CHAIN OF CUSTODY RECORD
Site #: 118
Contact Name: John Johnson
Contact Phone: 732-321-4200

No: 0118-041805-0008
Cooler #:
Lab: EMSL
Lab Phone: (734) 668-6810

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Volume	Vol Units
	WRGD-0063	A2	NIOSH 7400	Air	4/18/2005	1	TEM Cassette	3600	Liters
	WRGD-0064	A5	NIOSH 7400	Air	4/18/2005	1	TEM Cassette	3600	Liters
	WRGD-0065	A7	NIOSH 7400	Air	4/18/2005	1	TEM Cassette	3600	Liters
	WRGD-0066	A9	NIOSH 7400	Air	4/18/2005	1	TEM Cassette	3600	Liters
	WRGD-0067	A15A	NIOSH 7400	Air	4/18/2005	1	TEM Cassette	3600	Liters
	WRGD-0068	A18	NIOSH 7400	Air	4/18/2005	1	TEM Cassette	3600	Liters
(5)	WRGD-0069	Field Blank	NIOSH 7400	Air	4/18/2005	1	TEM Cassette	0	Liters

Special Instructions: Please analyze using NIOSH 7400 and hold for possible TEM analysis in the future.
Please fax preliminary results to John Johnson (732) 494-4020 and Howard Schmidt (313) 945-9481 within 24 hours of sample receipt.

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
AIR/ANALYSIS	[signature]	4-18-05	EMSL DROP BOX								
			[signature]	4/19/05	DropBox 8:00AM						

080501517

REAC, Edison, NJ
EPA Contract #: EP-C-04-032

CHAIN OF CUSTODY RECORD
Site #: 118
Contact Name: John Johnson
Contact Phone: 732-321-4200

No: 0118-041905-0010
Lab: EMSL
Lab Contact: Celeste
Lab Phone: (734) 666-8610

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Volume	Vol Units
	WRGD-0070	A2	NIOSH 7400	Air	4/19/2005	1	TEM Cassette	None	2610	Liters
	WRGD-0071	A5	NIOSH 7400	Air	4/19/2005	1	TEM Cassette	None	2610	Liters
	WRGD-0072	A7	NIOSH 7400	Air	4/19/2005	1	TEM Cassette	None	2610	Liters
	WRGD-0073	A9	NIOSH 7400	Air	4/19/2005	1	TEM Cassette	None	2610	Liters
	WRGD-0074	A15A	NIOSH 7400	Air	4/19/2005	1	TEM Cassette	None	2610	Liters
	WRGD-0075	A18	NIOSH 7400	Air	4/19/2005	1	TEM Cassette	None	2610	Liters
	WRGD-0076	Field Blank	NIOSH 7400	Air	4/19/2005	1	TEM Cassette	None	0	Liters

Special Instructions: Please analyze using NIOSH 7400 and hold for possible TEM analysis in the future.
Please fax preliminary results to John Johnson (732) 494-4020 and Howard Schmidt (313) 945-9481 within 24 hours of sample receipt.

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
ALL/ANALYSIS	[signature]	4-19-05	EMSL DROP BOX								
			[signature]	4-20-05	9:00 AM						

080501537

REAC, Edison, NJ
EPA Contract #: EP-C-04-032

CHAIN OF CUSTODY RECORD
Site #: 118
Contact Name: John Johnson
Contact Phone: 732-321-4200

No: 0118-041505-0011
Lab: EMSL
Lab Contact: Celeste
Lab Phone: (734) 668-6810

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Volume	Vol Units
	WRGD-0078	A2	NIOSH 7400	Air	4/20/2005	1	TEM Cassette	1800	Liters
	WRGD-0079	A5	NIOSH 7400	Air	4/20/2005	1	TEM Cassette	1800	Liters
	WRGD-0080	A7	NIOSH 7400	Air	4/20/2005	1	TEM Cassette	1800	Liters
	WRGD-0081	A9	NIOSH 7400	Air	4/20/2005	1	TEM Cassette	1800	Liters
	WRGD-0082	A15A	NIOSH 7400	Air	4/19/2005	1	TEM Cassette	1800	Liters
	WRGD-0083	A16	NIOSH 7400	Air	4/20/2005	1	TEM Cassette	1800	Liters
	WRGD-0084	Field Blank	NIOSH 7400	Air	4/20/2005	1	TEM Cassette	0	Liters

Special Instructions: Please analyze using NIOSH 7400 and hold for possible TEM analysis in the future.
Please fax preliminary results to John Johnson (732) 494-4020 and Howard Schmidt (313) 945-9481 within 24 hours of sample receipt.

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
All/analysis	[illegible]	4-20-04	EMSL DROP BOX								
		4-21-05	D. Curran [illegible]								

080504558

REAC, Edison, NJ
EPA Contract #: EP-C-04-032

CHAIN OF CUSTODY RECORD

Site #: 118
Contact Name: John Johnson
Contact Phone: 732-321-4200

No: 0118-041505-0013
Lab: EMSL
Lab Contact: Celeste
Lab Phone: (734) 668-6810

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Volume	Vol Units
	WRGD-0085	A5	NIOSH 7400	Air	4/21/2005	1	TEM Cassette	3600	Liters
	WRGD-0086	A7	NIOSH 7400	Air	4/21/2005	1	TEM Cassette	3600	Liters
	WRGD-0087	A9	NIOSH 7400	Air	4/21/2005	1	TEM Cassette	3600	Liters
	WRGD-0088	A11	NIOSH 7400	Air	4/21/2005	1	TEM Cassette	3600	Liters
	WRGD-0089	A12	NIOSH 7400	Air	4/21/2005	1	TEM Cassette	3600	Liters
	WRGD-0090	A18	NIOSH 7400	Air	4/21/2005	1	TEM Cassette	3600	Liters
	WRGD-0091	Field Blank	NIOSH 7400	Air	4/21/2005	1	TEM Cassette	0	Liters
	WRGD-0092	Lot Blank	NIOSH 7400	Air	4/21/2005	1	TEM Cassette	0	Liters

Special Instructions: Please analyze using NIOSH 7400 and hold for possible TEM analysis in the future.
Please fax preliminary results to John Johnson (732) 494-4020 and Howard Schmidt (313) 945-9483 within 24 hours of sample receipt.
NEW LOT #H4NN94045

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
AIR/ANALYSIS	H Schmidt	4-21-05	Cruz	4-22-05	Today 8:30 am						

Page 1 of 1

CB0501574

REAC, Edison, NJ
EPA Contract #: EP-C-04-032

CHAIN OF CUSTODY RECORD
Site #: 118
Contact Name: John Johnson
Contact Phone: 732-321-4200

No: 0118-041505-0017
Lab: EMSL
Lab Contact: Celeste
Lab Phone: (734) 668-6810

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Volume	Vol Units
	WRGD-0093	A5	NIOSH 7400	Air	4/22/2005	1	TEM Cassette	3780	Liters
	WRGD-0094	A7	NIOSH 7400	Air	4/22/2005	1	TEM Cassette	3780	Liters
	WRGD-0095	A9	NIOSH 7400	Air	4/22/2005	1	TEM Cassette	3780	Liters
	WRGD-0097	A12	NIOSH 7400	Air	4/22/2005	1	TEM Cassette	3780	Liters
	WRGD-0098	A18	NIOSH 7400	Air	4/22/2005	1	TEM Cassette	3780	Liters
	WRGD-0099	Field Blank	NIOSH 7400	Air	4/22/2005	1	TEM Cassette	0	Liters

Special Instructions: NOTE: Samples taken under rainy conditions, WRGD-0096 damaged and not submitted - sample number will be skipped. Analyze sample by TEM for positive identification. Fax preliminary results to John Johnson (732) 494-4020 and Howard Schmidt (313) 945-9483 within 24 hours of sample receipt.
Lot # H4NN94045

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
All/Analysis	[signature]	4/22/05	[signature]	4-25-05	Prior to 5 pm						

05050157 3

REAC, Edison, NJ
EPA Contract #: EP-C-04-032

CHAIN OF CUSTODY RECORD
Site #: 118
Contact Name: John Johnson
Contact Phone: 732-321-4200

No: 0118-042305-0018
Lab: EMSL
Lab Contact: Celeste
Lab Phone: (734) 668-8810

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Volume	Vol Units
	WRGD-0101	A5	NIOSH 7400	Air	4/23/2005	1	TEM Cassette	909	Liters
	WRGD-0102	A7	NIOSH 7400	Air	4/23/2005	1	TEM Cassette	3944	Liters
	WRGD-0103	A9	NIOSH 7400	Air	4/23/2005	1	TEM Cassette	3752	Liters
	WRGD-0104	A11	NIOSH 7400	Air	4/23/2005	1	TEM Cassette	3720	Liters
	WRGD-0107	Field Blank	NIOSH 7400	Air	4/23/2005	1	TEM Cassette	0	Liters

AD

Special Instructions: NOTE: Samples taken under rainy conditions. Only analyze WRGD-0101 if volume is sufficient.
Analyze samples by TEM for positive identification. Fax preliminary results to John Johnson (732) 494-4020 and Amy DuBois (313) 945-9483 within 24 hours of sample receipt.
Lot # H4NN94045

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
All/Analysis	[signature]	4/23/05	[signature]	4-25-05	Drop Off 8:00am						

04/26/2005 08:45 7346688532 EMSL MICHIGAN PAGE 02/02

080501602

REAC, Edison, NJ
EPA Contract #: EP-C-04-032

CHAIN OF CUSTODY RECORD
Site #: 118
Contact Name: John Johnson
Contact Phone: 732-321-4200

No: 0118-042505-0020
Lab: EMSL
Lab Contact: Celeste
Lab Phone: (734) 688-6810

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Volume	Vol Units
	WRGD-0108	A5	NIOSH 7400	Air	4/25/2005	1	TEM Cassette	3150	Liters
	WRGD-0109	A7	NIOSH 7400	Air	4/25/2005	1	TEM Cassette	3150	Liters
	WRGD-0110	A9	NIOSH 7400	Air	4/25/2005	1	TEM Cassette	3150	Liters
	WRGD-0111	A11	NIOSH 7400	Air	4/25/2005	1	TEM Cassette	3150	Liters
	WRGD-0112	A12	NIOSH 7400	Air	4/25/2005	1	TEM Cassette	3150	Liters
	WRGD-0113	A18	NIOSH 7400	Air	4/25/2005	1	TEM Cassette	3150	Liters
	WRGD-0114	Field Blank	NIOSH 7400	Air	4/23/2005	1	TEM Cassette	0	Liters

Special Instructions: NOTE: Analyze samples by TEM for positive identification. Fax preliminary results to John Johnson (732) 494-4020 and Amy DuBois (313) 945-9483 within 24 hours of sample receipt.
Lot # H4NN94045

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
All Analysis		4/25/05	[illegible]	4/26/05	Drop Box 8:00 AM						

Page 1 of 1

0805016 14

REAC, Edison, NJ
EPA Contract #: EP-C-04-032

CHAIN OF CUSTODY RECORD
Site #: 118
Contact Name: John Johnson
Contact Phone: 732-321-4200

No: 0118-042605-0022
Lab: EMSL
Lab Contact: Celeste
Lab Phone: (734) 668-6810

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Volume	Vol Units
	WRGD-0115	A18	NIOSH 7400	Air	4/26/2005	1	TEM Cassette	4480	Liters
	WRGD-0116	A2	NIOSH 7400	Air	4/26/2005	1	TEM Cassette	4640	Liters
	WRGD-0117	A9	NIOSH 7400	Air	4/26/2005	1	TEM Cassette	4480	Liters
	WRGD-0118	A5	NIOSH 7400	Air	4/26/2005	1	TEM Cassette	4480	Liters
	WRGD-0119	A7	NIOSH 7400	Air	4/26/2005	1	TEM Cassette	4480	Liters
	WRGD-0120	A15A	NIOSH 7400	Air	4/26/2005	1	TEM Cassette	4480	Liters
	WRGD-0121	Field Blank	NIOSH 7400	Air	4/26/2005	1	TEM Cassette	0	Liters

Special Instructions: NOTE: Light rain throughout sampling period. Analyze samples by TEM for positive identification. Fax preliminary results to John Johnson (732) 494-4020 and Amy DuBois (313) 845-9483 within 24 hours of sample receipt.
Lot # H4NN94045

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Air/Analysis	[signature]	4/26/05	[signature]	4-27-05	8:00am						

D80501639

REAC, Edison, NJ
EPA Contract #: EP-C-04-032

CHAIN OF CUSTODY RECORD

Site #: 118
Contact Name: John Johnson
Contact Phone: 732-321-4200

No: 0118-042705-0024
Lab: EMSL
Lab Contact: Celeste
Lab Phone: (734) 668-6610

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Volume	Vol Units
	WRGD-0122	A5	NIOSH 7400	Air	4/27/2005	1	TEM Cassette	4200	Liters
	WRGD-0123	A7	NIOSH 7400	Air	4/27/2005	1	TEM Cassette	4200	Liters
	WRGD-0124	A18	NIOSH 7400	Air	4/27/2005	1	TEM Cassette	4200	Liters
	WRGD-0125	A9	NIOSH 7400	Air	4/27/2005	1	TEM Cassette	1820	Liters
	WRGD-0126	A6	NIOSH 7400	Air	4/27/2005	1	TEM Cassette	4200	Liters
	WRGD-0127	A12	NIOSH 7400	Air	4/27/2005	1	TEM Cassette	2890	Liters
	WRGD-0128	Field Blank	NIOSH 7400	Air	4/27/2005	1	TEM Cassette	0	Liters
	WRGD-0129	ASA	NIOSH 7400	Air	4/27/2005	1	TEM Cassette	2208	Liters

AD

Special Instructions: NOTE: Analyze samples by TEM for positive identification. Fax preliminary results to John Johnson (732) 494-4020 and Amy DuBois (313) 945-9483 within 24 hours of sample receipt.
Lot # H4NN94045

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
All Analysis	[signature]	4/27/05	[signature]	4-28-05	Drop Box 5:00 Am						

REAC, Edison, NJ
EPA Contract #: EP-C-04-032

CHAIN OF CUSTODY RECORD
Site #: 118
Contact Name: John Johnson
Contact Phone: 732-321-4200

No: 0118-042805-0025
Lab: EMSL
Lab Contact: Celeste
Lab Phone: (734) 668-6810

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Volume	Vol Units
	WRGD-0130	A9A	NIOSH 7400	Air	4/28/2005	1	TEM Cassette	4795	Liters
	WRGD-0131	A10	NIOSH 7400	Air	4/28/2005	1	TEM Cassette	4795	Liters
	WRGD-0132	A18	NIOSH 7400	Air	4/28/2005	1	TEM Cassette	4795	Liters
	WRGD-0133	A5	NIOSH 7400	Air	4/28/2005	1	TEM Cassette	4795	Liters
	WRGD-0134	A12	NIOSH 7400	Air	4/28/2005	1	TEM Cassette	4165	Liters
	WRGD-0135	A8A	NIOSH 7400	Air	4/28/2005	1	TEM Cassette	3570	Liters
	WRGD-0136	Field Blank	NIOSH 7400	Air	4/28/2005	1	TEM Cassette	0	Liters

Special Instructions: NOTE: Analyze samples by TEM for positive identification. Fax preliminary results to John Johnson (732) 494-4020 and Amy DuBois (313) 945-9483 within 24 hours of sample receipt.
Lot # H4NN94045

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time

080501678

REAC, Edison, NJ
EPA Contract #: EP-C-04-032

CHAIN OF CUSTODY RECORD

Site #: 118
Contact Name: John Johnson
Contact Phone: 732-321-4200

No: 0118-042805-0026
Lab: EMSL
Lab Contact: Celeste
Lab Phone: (734) 668-6810

Lab #	Sample #	Location	Analyses	Volume	Matrix	Collected	Numb Cont	Container
	WRGD-0137	A16	NIOSH 7400	4248 liters	Air	4/29/2005	1	TEM Cassette
	WRGD-0138	A8A	NIOSH 7400	4336 liters	Air	4/29/2005	1	TEM Cassette
	WRGD-0139	A11	NIOSH 7400	2784 liters	Air	4/29/2005	1	TEM Cassette
	WRGD-0140	A10	NIOSH 7400	4424 liters	Air	4/29/2005	1	TEM Cassette
	WRGD-0141	A8A	NIOSH 7400	4256 liters	Air	4/29/2005	1	TEM Cassette
	WRGD-0142	A12	NIOSH 7400	4224 liters	Air	4/29/2005	1	TEM Cassette
	WRGD-0143	Field Blank	NIOSH 7400	-0-	Air	4/29/2005	1	TEM Cassette

Special Instructions: NOTE: Analyze samples by TEM for positive identification. Fax preliminary results to John Johnson (732) 494-4020 and Howard Schmidt (313) 845-8483 within 24 hours of sample receipt.
Lot # H4NN94045

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
sampling	[illegible]	4/29/05	[illegible]	5-2-05	[illegible]						

REAC, Edison, NJ
EPA Contract #: EP-C-04-032

CHAIN OF CUSTODY RECORD
Site #: 118
Contact Name: John Johnson
Contact Phone: 732-321-4200

No: 0118-041505-0030
Lab: EMSL
Lab Contact: Celeste
Lab Phone: 734-666-6810

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Volume	Vol Units
	WRGD-0144	E1	NIOSH 7400	Air	5/17/2005	1	TEM Cassette	3600	Liters
	WRGD-0145	E2	NIOSH 7400	Air	5/17/2005	1	TEM Cassette	3240	Liters
	WRGD-0146	E3	NIOSH 7400	Air	5/17/2005	1	TEM Cassette	3600	Liters
	WRGD-0147	E4	NIOSH 7400	Air	5/17/2005	1	TEM Cassette	3600	Liters
	WRGD-0148	E5	NIOSH 7400	Air	5/17/2005	1	TEM Cassette	3600	Liters
	WRGD-0149	E6	NIOSH 7400	Air	5/17/2005	1	TEM Cassette	3600	Liters
	WRGD-0153	Field Blank	NIOSH 7400	Air	5/17/2005	1	TEM Cassette	0	Liters

Special Instructions: Please analyze using NIOSH 7400 and hold for possible TEM analysis in the future.
Please fax preliminary results to John Johnson (732) 494-4020 and Howard Schmidt (313) 945-9483 within 24 hours of sample receipt.
Please analyze using NIOSH 7400 and hold for possible TEM analysis in the future.
Please fax preliminary results to John Johnson (732) 494-4020 and Howard Schmidt (313) 945-9481 within 24 hours of sample receipt.

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
RW/ANALYSIS	[illegible]	5-17-05									

APPENDIX C
Soil Analysis by Polarized Light Microscopy (PLM) Results
N-Forcer® Site
Dearborn, MI
September 2005

Hygeia Laboratories Inc.
82 W. Sierra Madre Blvd
Sierra Madre, CA 91024
(626) 355-4711
(626) 355-4497 FAX

Preliminary Analytical Results - Bulk Samples by PLM

To: [illegible]
From: Art Casas
Total # of pages: ____

Of: Lockheed Martin / REAC
Date 9-26-05 Time ____
Urgent! Please deliver as soon as possible.

Client Job # 0118-041805-0009 Hygeia Ref # 0750205 0001

Client ID#	Hygeia ID#	Asbestos % Chrysotile	Amosite	Crocidolite	Other	Non Detected	Comments
LRGS-S0001	966516					X	
2	17					X	
3	18					X	
4	19					X	
5	20				<1		Tremolite / Actinolite
6	21					X	
7	22					X	
8	23					X	
9	24					X	
LRGD-S0001	25					X	
2	26					X	
3	27					X	
4	28					X	
5	29					X	
6	30					X	
7	31					X	
8	32					X	
9	33					X	
10	34				<1		Tremolite / Actinolite
11	35					X	

Preliminary results are subject to management review.

Confidentiality Notice: The documents accompanying this fax transmission contain confidential and privileged information intended for the exclusive use of the individual or entity named above. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of the documents accompanying this fax transmission is strictly prohibited. If you have received this fax in error, please notify us immediately by telephone to arrange for its return. Thank you.

Hygeia Laboratories Inc.
82 W. Sierra Madre Blvd
Sierra Madre, CA 91024
(626) 355-4711
(626) 355-4497 FAX

Preliminary Analytical Results - by Point Counting X 1000 Pts. ___ 400 Pts.

To: John Johnson
From: Art Casas
Total # of pages: 1
Client Job # A118-041805-0009
SITE #118

Of: Lockheed Martin / REAC
Date 4-28-05 Time
Urgent! Please deliver as soon as possible.
Hygeia Ref. # 07502050001
Original Hygeia Ref. #

Client ID #	Hygeia ID #	Asbestos % Chrysotile	Amosite	Crocidolite	Other	Non Detected	Comments
USGS-S001	966516						No Asbestos Detected
-S003	966518						No Asbestos Detected
BGD-S010	966534				<0.1		Tremolite / Actinolite

NO QC EVALUATION HAS BEEN PERFORMED.
DATA VALIDITY IS UNSUBSTANTIATED
AND THE DATA SHOULD BE USED
WITH DISCRETION

Preliminary results are subject to management review.

Confidentiality Notice: The documents accompanying this fax transmission contain confidential and privileged information intended for the exclusive use of the individual or entity named above. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of the documents accompanying this fax transmission is strictly prohibited. If you have received this fax in error, please notify us immediately by telephone to arrange for its return. Thank you.

Hygeia Laboratories Inc.
82 W. Sierra Madre Blvd
Sierra Madre, CA 91024
(626) 355-4711
(626) 355-4497 FAX

Preliminary Analytical Results - by Point Counting X 1000 Pts. ___ 400 Pts.

To: John Johnson
From: Art Casas
Total # of pages: 1
Client Job # 018-041505-0012

Of: Lockheed Martin/RSAC
Date 4-29-05 Time
Urgent! Please deliver as soon as possible.
Hygeia Ref. # 07502050002
Original Hygeia Ref. #

Client ID # LRGD-	Hygeia ID #	Asbestos % Chrysotile	Amosite	Crocidolite	Other	Non Detected	Comments / Detection Limits
S0012	966584					X	0.09%
S0013	85					X	0.09%
S0014	86					X	0.08%
S0015	87					X	0.08%
S0016	88					X	0.08%
S0017	89					X	0.08%
S0018	90					X	0.08%
S0019	91					X	0.08%
S0020	92					X	0.09%
S0021	93					X	0.09%
S0022	94					X	0.09%
S0023	95					X	0.08%
S0024	96					X	0.08%
S0025	97					X	0.08%
S0026	98					X	0.09%
S0027	99					X	0.07%
S0028	966600					X	0.07%

NO QC EVALUATION HAS BEEN PERFORMED.
DATA VALIDITY IS UNSUBSTANTIATED
AND THE DATA SHOULD BE USED
WITH DISCRETION

Preliminary results are subject to management review.

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Hygeia Laboratories Inc.
82 W. Sierra Madre Blvd
Sierra Madre, CA 91024
(626)355-4711
(626)355-4497 FAX

Preliminary Analytical Results - by Point Counting ✓ 1000 Pts. ___ 400 Pts.

To: John Johnson
From: **Humberto Espinoza**
Total # of pages: 1
Client Job # 0118-041505-0015

Of: Lockheed Martin/Reac.
Date 4-30-05 Time
Urgent! Please deliver as soon as possible.
Hygeia Ref. # 07502 05 0003
Original Hygeia Ref. #

Client ID #	Hygeia ID #	Asbestos % Chrysotile	Amosite	Crocidolite	Other	Non Detected	Comments / Detection Limits
WRSD-50029	969114					✓	0.08%
30	15					✓	0.08%
31	16					✓	0.08%
32	17					✓	0.08%
33	18					✓	0.09%
34	19					✓	0.09%
35	20					✓	0.09%
36	21					✓	0.09%
37	22					✓	0.08%
38	23					✓	0.09%
39	24					✓	0.07%
40	25					✓	0.08%
41	26					✓	0.08%
42	27					✓	0.09%
43	28					✓	0.08%
44	29					✓	0.09%
45	30					✓	0.09%

NO QC EVALUATION HAS BEEN PERFORMED.
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Sierra Madre, CA 91024
(626) 355-4711
(626) 355-4497 FAX

Preliminary Analytical Results - by Point Counting X 1000 Pts. ___ 400 Pts.

To: Jon Johnson
From: Art Casas
Total # of pages: ___
Client Job # 0118-041535-0016

Of: Lockheed Martin / RSAC
Date 5.2.05 Time ___
Urgent! Please deliver as soon as possible.
Hygeia Ref. # 07502050004
Original Hygeia Ref # ___

Client ID #	Hygeia ID #	Asbestos % Chrysotile	Amosite	Crocidolite	Other	Non Detected	Comments
CONTROL STD #1	967045				1.2		TREMOLITE / ACTINOLITE
SPD-S004	967046				<0.08		
-S0047	967047				<0.08		
-S0048	967048				<0.09		

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82 W. Sierra Madre Blvd
Sierra Madre, CA 91024
(626) 355-4711
(626) 355-4497 FAX

Preliminary Analytical Results - by Point Counting x 1000 Pts. ___ 400 Pts.

To: J JOHNSON
Of: Lockheed Martin/REAC
From: Guillermo Hernandez
Date 5-2-05 Time
Total # of pages: ____
Urgent! Please deliver as soon as possible.
Client Job # ____
Hygeia Ref. # ____
Original Hygeia Ref. # ____

Client ID #	Hygeia ID #	Asbestos % Chrysotile	Amosite	Crocidolite	Other	Non Detected	Comments
GRD S0649	96 77 76				<0.1		Actinolite/Tremolite
50	77				<0.08	✓	
51	78				<0.1		" " "
52	79				<0.09		
53	80				<0.09		
54	81				<0.09		
55	82				<0.08		
56	83				<0.09		
57	84				<0.1		Actinolite/tremolite
58	85				<0.08		
59	86				<0.09		
60	87				<0.1		Actinolite/tremolite
61	88				<0.1		"
62	89				<0.1		"

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Preliminary Analytical Results - by Point Counting ✓ 1000 Pts. ___ 400 Pts.

To: J. Johnson
From: **Humberto Espinoza**
Total # of pages: 1
Client Job # Site # 118
0118-042605-0021

Of: Lockheed Martin/Reac.
Date 5-6-05 Time
Urgent! Please deliver as soon as possible.
Hygeia Ref. # 0750205000 6.
Original Hygeia Ref. #

Client ID #	Hygeia ID #	Asbestos % Chrysotile	Amosite	Crocidolite	Other	Non Detected	Comments / Detection Limits
HRGD 50063	967491					✓	0.08%
64	42					✓	0.08%
65	43					✓	0.08%
66	44					✓	0.09%
67	45					✓	0.09%
68	46					✓	0.09%
69	47					✓	0.09%
70	48					✓	0.09%
71	49					✓	0.05%
72	50					✓	0.04%
73	51					✓	0.09%
74	52					✓	0.09%
75	53					✓	0.09%
76	54					✓	0.08%
77	55					✓	0.07%
78	56					✓	0.06%
79	57				4.4		Tremolite/Actinolite

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Hygeia Job Number: 07502050007
Project Reference: COC# 0118-042705-0023 Site#118
Analytical Method: Modified CARB 435/Point Count - 1000 Points
Sampler: Amy DuBois

Date Collected: 4/27/2005
Date Received: 4/28/2005
Date Entered: 5/10/2005
Data Entry By: K. Corbin

Client ID	Hygeia ID	Location	Sample Description	Date Analyzed	Analyst	Gravimetric Redection	Analytical Results	Detection Limit(%)	QATYPE
WRGD-S0080	967546	S141A	Soil	5/6/2005	G. Hernandez	11% organic; 2% acid soluble	ND	0.09	Not QA
WRGD-S0081	967547	S141B	Soil	5/6/2005	G. Hernandez	11% organic; 3% acid soluble	ND	0.09	Not QA
WRGD-S0082	967548	S169A	Soil	5/6/2005	G. Hernandez	24% organic; 20% acid soluble	ND	0.06	Not QA
WRGD-S0083	967549	S197A	Soil	5/6/2005	G. Hernandez	7% organic; 5% acid soluble	ND	0.09	Not QA
WRGD-S0084	967550	S197B	Soil	5/6/2005	G. Hernandez	10% organic; 3% acid soluble	ND	0.09	Not QA
WRGD-S0085	967551	S418A	Soil	5/6/2005	G. Hernandez	6% organic; 2% acid soluble	ND	0.09	Not QA
WRGD-S0086	967552	S418B	Soil	5/6/2005	G. Hernandez	11% organic; 2% acid soluble	ND	0.09	Not QA
WRGD-S0087	967553	S418C	Soil	5/6/2005	G. Hernandez	13% organic; 3% acid soluble	ND	0.08	Not QA
WRGD-S0088	967554	Area 2 Confirmation	Soil	5/6/2005	G. Hernandez	6% organic; 22% acid soluble	1.7% Tremolite-Actinolite	0.07	Not QA
WRGD-S0088	967554QC	Area 2 Confirmation	Soil	5/7/2005	A. Casas	6% organic; 22% acid soluble	0.9% Tremolite-Actinolite	0.07	Reprep

Hygeia Job Number:	07502050008	Date Collected:	4/29/2005
Project Reference:	COC# 0118-042905-0027 Site#118	Date Received:	5/2/2005
Analytical Method:	Modified CARB 435/Point Count - 1000 Points	Date Entered:	5/10/2005
Sampler:	A. DuBois	Data Entry By:	K. Corbin

Client ID	Hygeia ID	Location	Sample Description	Date Analyzed	Analyst	Gravimetric Redection	Analytical Results	Detection Limit(%)	QATYPE
WRGD-S0089	967841	Area 3 Confirmation	Soil	5/6/2005	A. Casas	5% organic; 3% acid soluble	1.2% Tremolite-Actinolite	0.09	Not QA

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Sierra Madre, CA 91024
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Preliminary Analytical Results - by Point Counting X 1000 Pts. ___ 400 Pts.

To: John Johnson
From: **Art Casas**
Total # of pages: 1
Client Job # 0113-041505-0029

Of: Lockheed Martin / Reac
Date 5-26-05 Time
Urgent! Please deliver as soon as possible.
Hygeia Ref. # 07502.05 0010
Original Hygeia Ref. #

Client ID #	Hygeia ID #	Asbestos % Chrysotile	Amosite	Crocidolite	Other	Non Detected	Comments
CSX-01	969300				0.23		Tremolite / Actinolite
-02	969301				2.1		" "
-03	969302				<0.1		" "
WRD-50090	969303					X	
-50091	969304				<0.1		Tremolite / Actinolite
-50092	969305					X	

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APPENDIX D
Soil Sampling Chain of Custody Forms
N-Forcer® Site
Dearborn, MI
September 2005

REAC, Edison, NJ
EPA Contract #: EP-C-04-032

CHAIN OF CUSTODY RECORD
Site #: 118
Contact Name: John Johnson
Contact Phone: 732-321-4200

No: 0118-041805-0009
Lab: Hygeia Labs
Lab Contact: Arturo Casas
Lab Phone: 626-355-4711

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container
	USGS-S0001	S183	modified CARB 435	Soil	4/11/2005	1	8 oz. glass jar
	USGS-S0002	S416	modified CARB 435	Soil	4/11/2005	1	8 oz. glass jar
	USGS-S0003	S578	modified CARB 435	Soil	4/11/2005	1	8 oz. glass jar
	USGS-S0004	S593	modified CARB 435	Soil	4/11/2005	1	8 oz. glass jar
	USGS-S0005	RAILROAD	modified CARB 435	Soil	4/12/2005	1	8 oz. glass jar
	USGS-S0006	S15P	modified CARB 435	Soil	4/12/2005	1	8 oz. glass jar
	USGS-S0007	S15G	modified CARB 435	Soil	4/12/2005	1	8 oz. glass jar
	USGS-S0008	S1	modified CARB 435	Soil	4/12/2005	1	8 oz. glass jar
	USGS-S0009	S580	modified CARB 435	Soil	4/12/2005	1	8 oz. glass jar
	WRGD-S0001	S2	modified CARB 435	Soil	4/18/2005	1	8 oz. glass jar
	WRGD-S0002	S16	modified CARB 435	Soil	4/18/2005	1	8 oz. glass jar
	WRGD-S0003	S33	modified CARB 435	Soil	4/18/2005	1	8 oz. glass jar
	WRGD-S0004	S650	modified CARB 435	Soil	4/18/2005	1	8 oz. glass jar
	WRGD-S0005	S170	modified CARB 435	Soil	4/18/2005	1	8 oz. glass jar
	WRGD-S0006	S166	modified CARB 435	Soil	4/18/2005	1	8 oz. glass jar
	WRGD-S0007	S167A	modified CARB 435	Soil	4/19/2005	1	8 oz. glass jar
	WRGD-S0008	S167B	modified CARB 435	Soil	4/19/2005	1	8 oz. glass jar
	WRGD-S0009	S167C	modified CARB 435	Soil	4/19/2005	1	8 oz. glass jar
	WRGD-S0010	S771A	modified CARB 435	Soil	4/19/2005	1	8 oz. glass jar
	WRGD-S0011	S771B	modified CARB 435	Soil	4/19/2005	1	8 oz. glass jar

Special Instructions: Please analyze using modified CARB 435 method by PLM and hold for possible TEM analysis in the future.
Please fax preliminary results to John Johnson (732) 494-4020 and Howard Schmidt (313) 945-9481 within 7 calendar days of sample receipt.

FeDEX 848332252047

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time

REAC, Edison, NJ
EPA Contract #: EP-C-04-032

CHAIN OF CUSTODY RECORD
Site #: 118
Contact Name: John Johnson
Contact Phone: 732-321-4200

No: 0118-041805-0009
Lab: Hygeia Labs
Lab Contact: Arturo Casas
Lab Phone: 626-355-4711

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container
	USGS-S0001	S183	modified CARB 435	Soil	4/11/2005	1	8 oz. glass jar
	USGS-S0002	S416	modified CARB 435	Soil	4/11/2005	1	8 oz. glass jar
	USGS-S0003	S578	modified CARB 435	Soil	4/11/2005	1	8 oz. glass jar
	USGS-S0004	S593	modified CARB 435	Soil	4/11/2005	1	8 oz. glass jar
	USGS-S0005	RAILROAD	modified CARB 435	Soil	4/12/2005	1	8 oz. glass jar
	USGS-S0006	S15P	modified CARB 435	Soil	4/12/2005	1	8 oz. glass jar
	USGS-S0007	S15G	modified CARB 435	Soil	4/12/2005	1	8 oz. glass jar
	USGS-S0008	S1	modified CARB 435	Soil	4/12/2005	1	8 oz. glass jar
	USGS-S0009	S580	modified CARB 435	Soil	4/12/2005	1	8 oz. glass jar
	WRGD-S0001	S2	modified CARB 435	Soil	4/18/2005	1	8 oz. glass jar
	WRGD-S0002	S16	modified CARB 435	Soil	4/18/2005	1	8 oz. glass jar
	WRGD-S0003	S33	modified CARB 435	Soil	4/18/2005	1	8 oz. glass jar
	WRGD-S0004	S650	modified CARB 435	Soil	4/18/2005	1	8 oz. glass jar
	WRGD-S0005	S170	modified CARB 435	Soil	4/18/2005	1	8 oz. glass jar
	WRGD-S0006	S166	modified CARB 435	Soil	4/18/2005	1	8 oz. glass jar
	WRGD-S0007	S167A	modified CARB 435	Soil	4/19/2005	1	8 oz. glass jar
	WRGD-S0008	S167B	modified CARB 435	Soil	4/19/2005	1	8 oz. glass jar
	WRGD-S0009	S167C	modified CARB 435	Soil	4/19/2005	1	8 oz. glass jar
	WRGD-S0010	S771A	modified CARB 435	Soil	4/19/2005	1	8 oz. glass jar
	WRGD-S0011	S771B	modified CARB 435	Soil	4/19/2005	1	8 oz. glass jar

Special Instructions: Please analyze using modified CARB 435 method by PLM and hold for possible TEM analysis in the future.
Please fax preliminary results to John Johnson (732) 494-4020 and Howard Schmidt (313) 945-9481 within 7 calendar days of sample receipt.

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CHAIN OF CUSTODY #

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REAC, Edison, NJ
EPA Contract #: EP-C-04-032

CHAIN OF CUSTODY RECORD
Site #: 118
Contact Name: John Johnson
Contact Phone: 732-321-4200

No: 0118-041805-0009
Lab: Hygeia Labs
Lab Contact: Arturo Casas
Lab Phone: 626-355-4711

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container
	USGS-S0001	S183	modified CARB 435	Soil	4/11/2005	1	8 oz. glass jar
	USGS-S0002	S416	modified CARB 435	Soil	4/11/2005	1	8 oz. glass jar
	USGS-S0003	S578	modified CARB 435	Soil	4/11/2005	1	8 oz. glass jar
	USGS-S0004	S593	modified CARB 435	Soil	4/11/2005	1	8 oz. glass jar
	USGS-S0005	RAILROAD	modified CARB 435	Soil	4/12/2005	1	8 oz. glass jar
	USGS-S0006	S15P	modified CARB 435	Soil	4/12/2005	1	8 oz. glass jar
	USGS-S0007	S15G	modified CARB 435	Soil	4/12/2005	1	8 oz. glass jar
	USGS-S0008	S1	modified CARB 435	Soil	4/12/2005	1	8 oz. glass jar
	USGS-S0009	S580	modified CARB 435	Soil	4/12/2005	1	8 oz. glass jar
	WRGD-S0001	S2	modified CARB 435	Soil	4/18/2005	1	8 oz. glass jar
	WRGD-S0002	S16	modified CARB 435	Soil	4/18/2005	1	8 oz. glass jar
	WRGD-S0003	S33	modified CARB 435	Soil	4/18/2005	1	8 oz. glass jar
	WRGD-S0004	S650	modified CARB 435	Soil	4/18/2005	1	8 oz. glass jar
	WRGD-S0005	S170	modified CARB 435	Soil	4/18/2005	1	8 oz. glass jar
	WRGD-S0006	S166	modified CARB 435	Soil	4/18/2005	1	8 oz. glass jar
	WRGD-S0007	S167A	modified CARB 435	Soil	4/19/2005	1	8 oz. glass jar
	WRGD-S0008	S167B	modified CARB 435	Soil	4/19/2005	1	8 oz. glass jar
	WRGD-S0009	S167C	modified CARB 435	Soil	4/19/2005	1	8 oz. glass jar
	WRGD-S0010	S771A	modified CARB 435	Soil	4/19/2005	1	8 oz. glass jar
	WRGD-S0011	S771B	modified CARB 435	Soil	4/19/2005	1	8 oz. glass jar

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Please fax preliminary results to John Johnson (732) 494-4020 and Howard Schmidt (313) 945-9481 within 7 calendar days of sample receipt.

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CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time

REAC, Edison, NJ
EPA Contract #: EP-C-04-032

CHAIN OF CUSTODY RECORD
Site #: 118
Contact Name: John Johnson
Contact Phone: 732-321-4200

No: 0118-041505-0012
Lab: Hygeia Labs
Lab Contact: Arturo Casas
Lab Phone: 626-355-4711

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container
	WRGD-S0012	S168A	modified CARB 435	Soil	4/20/2005	1	8 oz. glass jar
	WRGD-S0013	S168B	modified CARB 435	Soil	4/20/2005	1	8 oz. glass jar
	WRGD-S0014	S148A	modified CARB 435	Soil	4/20/2005	1	8 oz. glass jar
	WRGD-S0015	S148B	modified CARB 435	Soil	4/20/2005	1	8 oz. glass jar
	WRGD-S0016	S148C	modified CARB 435	Soil	4/20/2005	1	8 oz. glass jar
	WRGD-S0017	S56A	modified CARB 435	Soil	4/20/2005	1	8 oz. glass jar
	WRGD-S0018	S56B	modified CARB 435	Soil	4/20/2005	1	8 oz. glass jar
	WRGD-S0019	S56C	modified CARB 435	Soil	4/20/2005	1	8 oz. glass jar
	WRGD-S0020	S191A	modified CARB 435	Soil	4/20/2005	1	8 oz. glass jar
	WRGD-S0021	S191B	modified CARB 435	Soil	4/20/2005	1	8 oz. glass jar
	WRGD-S0022	S191C	modified CARB 435	Soil	4/20/2005	1	8 oz. glass jar
	WRGD-S0023	S150A	modified CARB 435	Soil	4/20/2005	1	8 oz. glass jar
	WRGD-S0024	S150B	modified CARB 435	Soil	4/20/2005	1	8 oz. glass jar
	WRGD-S0025	S150C	modified CARB 435	Soil	4/20/2005	1	8 oz. glass jar
	WRGD-S0026	S193A	modified CARB 435	Soil	4/20/2005	1	8 oz. glass jar
	WRGD-S0027	S193B	modified CARB 435	Soil	4/20/2005	1	8 oz. glass jar
	WRGD-S0028	S193C	modified CARB 435	Soil	4/20/2005	1	8 oz. glass jar

Special Instructions: Please analyze using modified CARB 435 method by PLM and hold for possible TEM analysis in the future. Please fax preliminary results to John Johnson (732) 494-4020 and Howard Schmidt (313) 945-9481 within 7 calendar days of sample receipt.

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CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time

REAC, Edison, NJ
EPA Contract #: EP-C-04-032

CHAIN OF CUSTODY RECORD
Site #: 118
Contact Name: John Johnson
Contact Phone: 732-321-4200

No: 0118-041505-0015
Lab: Hygeia Labs
Lab Contact: Arturo Casas
Lab Phone: 626-355-4711

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container
	WRGD-S0029	S967A	modified CARB 435	Soil	4/21/2005	1	8 oz. glass jar
	WRGD-S0030	S967B	modified CARB 435	Soil	4/21/2005	1	8 oz. glass jar
	WRGD-S0031	S967C	modified CARB 435	Soil	4/21/2005	1	8 oz. glass jar
	WRGD-S0032	S182A	modified CARB 435	Soil	4/21/2005	1	8 oz. glass jar
	WRGD-S0033	S182B	modified CARB 435	Soil	4/21/2005	1	8 oz. glass jar
	WRGD-S0034	S182C	modified CARB 435	Soil	4/21/2005	1	8 oz. glass jar
	WRGD-S0035	S11A	modified CARB 435	Soil	4/21/2005	1	8 oz. glass jar
	WRGD-S0036	S11B	modified CARB 435	Soil	4/21/2005	1	8 oz. glass jar
	WRGD-S0037	S11C	modified CARB 435	Soil	4/21/2005	1	8 oz. glass jar
	WRGD-S0038	S956A	modified CARB 435	Soil	4/21/2005	1	8 oz. glass jar
	WRGD-S0039	S956B	modified CARB 435	Soil	4/21/2005	1	8 oz. glass jar
	WRGD-S0040	S956C	modified CARB 435	Soil	4/21/2005	1	8 oz. glass jar
	WRGD-S0041	S190A	modified CARB 435	Soil	4/21/2005	1	8 oz. glass jar
	WRGD-S0042	S190B	modified CARB 435	Soil	4/21/2005	1	8 oz. glass jar
	WRGD-S0043	S190C	modified CARB 435	Soil	4/21/2005	1	8 oz. glass jar
	WRGD-S0044	S952A	modified CARB 435	Soil	4/21/2005	1	8 oz. glass jar
	WRGD-S0045	S952B	modified CARB 435	Soil	4/21/2005	1	8 oz. glass jar

Special Instructions: Please analyze using modified CARB 435 method by PLM and hold for possible TEM analysis in the future.
Please fax preliminary results to John Johnson (732) 494-4020 and Howard Schmidt (313) 945-9481 within 7 calendar days of sample receipt.
FedEx 848332252 50

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CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time

REAC, Edison, NJ
EPA Contract #: EP-C-04-032

CHAIN OF CUSTODY RECORD
Site #: 118
Contact Name: John Johnson
Contact Phone: 732-321-4200

No: 0118-041505-0016
Lab: Hygeia Labs
Lab Contact: Arturo Casas
Lab Phone: 626-355-4711

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container
	Confirmation 1	Area 1	modified CARB 435	Soil	4/22/2005	1	8 oz. glass jar
	WRGD-S0046	S670A	modified CARB 435	Soil	4/22/2005	1	8 oz. glass jar
	WRGD-S0047	S670B	modified CARB 435	Soil	4/22/2005	1	8 oz. glass jar
	WRGD-S0048	S670C	modified CARB 435	Soil	4/22/2005	1	8 oz. glass jar

Special Instructions: Please analyze using modified CARB 435 method by PLM and hold for possible TEM analysis in the future.
Please fax preliminary results to John Johnson (732) 494-4020 and Howard Schmidt (313) 945-9481 within 7 calendar days of sample receipt.
FED Ex 851617507790

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time

REAC, Edison, NJ
EPA Contract #: EP-C-04-032

CHAIN OF CUSTODY RECORD
Site #: 118
Contact Name: John Johnson
Contact Phone: 732-321-4200

No: 0118-042505-0019
Lab: Hygeia Labs
Lab Contact: Arturo Casas
Lab Phone: 626-355-4711

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container
	WRGD-S0049	S901A	modified CARB 435	Soil	4/25/2005	1	8 oz. glass jar
	WRGD-S0050	S586A	modified CARB 435	Soil	4/25/2005	1	8 oz. glass jar
	WRGD-S0051	S586B	modified CARB 435	Soil	4/25/2005	1	8 oz. glass jar
	WRGD-S0052	S932A	modified CARB 435	Soil	4/25/2005	1	8 oz. glass jar
	WRGD-S0053	S932B	modified CARB 435	Soil	4/25/2005	1	8 oz. glass jar
	WRGD-S0054	S932C	modified CARB 435	Soil	4/25/2005	1	8 oz. glass jar
	WRGD-S0055	S132A	modified CARB 435	Soil	4/25/2005	1	8 oz. glass jar
	WRGD-S0056	S132B	modified CARB 435	Soil	4/25/2005	1	8 oz. glass jar
	WRGD-S0057	S132C	modified CARB 435	Soil	4/25/2005	1	8 oz. glass jar
	WRGD-S0058	S428A	modified CARB 435	Soil	4/25/2005	1	8 oz. glass jar
	WRGD-S0059	S428B	modified CARB 435	Soil	4/25/2005	1	8 oz. glass jar
	WRGD-S0060	S130A	modified CARB 435	Soil	4/25/2005	1	8 oz. glass jar
	WRGD-S0061	S130B	modified CARB 435	Soil	4/25/2005	1	8 oz. glass jar
	WRGD-S0062	S130C	modified CARB 435	Soil	4/25/2005	1	8 oz. glass jar

Special Instructions: Please analyze using modified CARB 435 method by PLM and hold for possible TEM analysis in the future.
Please fax preliminary results to John Johnson (732) 494-4020 and Amy DuBois (313) 945-9483 within 7 calendar days of sample receipt.
FedEx 848 3322 5218 3

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CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time		Items/Reason	Relinquished By	Date	Received by	Date	Time

REAC, Edison, NJ
EPA Contract #: EP-C-04-032

CHAIN OF CUSTODY RECORD
Site #: 118
Contact Name: John Johnson
Contact Phone: 732-321-4200

No: 0118-042605-0021
Lab: Hygeia Labs
Lab Contact: Arturo Casas
Lab Phone: 626-355-4711

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container
	WRGD-S0063	S419A	modified CARB 435	Soil	4/26/2005	1	8 oz. glass jar
	WRGD-S0064	S419B	modified CARB 435	Soil	4/26/2005	1	8 oz. glass jar
	WRGD-S0065	S419C	modified CARB 435	Soil	4/26/2005	1	8 oz. glass jar
	WRGD-S0066	S429A	modified CARB 435	Soil	4/26/2005	1	8 oz. glass jar
	WRGD-S0067	S429B	modified CARB 435	Soil	4/26/2005	1	8 oz. glass jar
	WRGD-S0068	S429C	modified CARB 435	Soil	4/26/2005	1	8 oz. glass jar
	WRGD-S0069	S430A	modified CARB 435	Soil	4/26/2005	1	8 oz. glass jar
	WRGD-S0070	S430B	modified CARB 435	Soil	4/26/2005	1	8 oz. glass jar
	WRGD-S0071	S857A	modified CARB 435	Soil	4/26/2005	1	8 oz. glass jar
	WRGD-S0072	S857B	modified CARB 435	Soil	4/26/2005	1	8 oz. glass jar
	WRGD-S0073	S973A	modified CARB 435	Soil	4/26/2005	1	8 oz. glass jar
	WRGD-S0074	S973B	modified CARB 435	Soil	4/26/2005	1	8 oz. glass jar
	WRGD-S0075	S973C	modified CARB 435	Soil	4/26/2005	1	8 oz. glass jar
	WRGD-S0076	S378A	modified CARB 435	Soil	4/26/2005	1	8 oz. glass jar
	WRGD-S0077	S378B	modified CARB 435	Soil	4/26/2005	1	8 oz. glass jar
	WRGD-S0078	S378C	modified CARB 435	Soil	4/26/2005	1	8 oz. glass jar
	WRGD-S0079	Area 2 - Grab	modified CARB 435	Soil	4/26/2005	1	8 oz. glass jar

Special Instructions: Please analyze using modified CARB 435 method by PLM and hold for possible TEM analysis in the future.
Please fax preliminary results to John Johnson (732) 494-4020 and Amy DuBois (313) 945-9483 within 7 calendar days of sample receipt.
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CHAIN OF CUSTODY #

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REAC, Edison, NJ
EPA Contract #: EP-C-04-032

CHAIN OF CUSTODY RECORD
Site #: 118
Contact Name: John Johnson
Contact Phone: 732-321-4200

No: 0118-042705-0023
Lab: Hygeia Labs
Lab Contact: Arturo Casas
Lab Phone: 626-355-4711

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container
	WRGD-S0080	S141A	modified CARB 435	Soil	4/27/2005	1	8 oz. glass jar
	WRGD-S0081	S141B	modified CARB 435	Soil	4/27/2005	1	8 oz. glass jar
	WRGD-S0082	S169A	modified CARB 435	Soil	4/27/2005	1	8 oz. glass jar
	WRGD-S0083	S197A	modified CARB 435	Soil	4/27/2005	1	8 oz. glass jar
	WRGD-S0084	S197B	modified CARB 435	Soil	4/27/2005	1	8 oz. glass jar
	WRGD-S0085	S418A	modified CARB 435	Soil	4/27/2005	1	8 oz. glass jar
	WRGD-S0086	S418B	modified CARB 435	Soil	4/27/2005	1	8 oz. glass jar
	WRGD-S0087	S418C	modified CARB 435	Soil	4/27/2005	1	8 oz. glass jar
	WRGD-S0088	Area 2 Confirmation	modified CARB 435	Soil	4/27/2005	1	8 oz. glass jar

Special Instructions: Please analyze using modified CARB 435 method by PLM,
detection limit 0.1%,
and hold for possible TEM analysis in the future. Fed Ex 851075686390
Please fax preliminary results to John Johnson (732) 494-4020 and Amy DuBois (313) 945-9483 within 7 calendar days of sample receipt.

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CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time

REAC, Edison, NJ
EPA Contract #: EP-C-04-032

CHAIN OF CUSTODY RECORD
Site #: 118
Contact Name: John Johnson
Contact Phone: 732-321-4200

No: 0118-042905-0027
Lab: Hygeia Labs
Lab Contact: Arturo Cases
Lab Phone: 626-355-4711

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container
	WRGD-S0089	Area 3 Confirmation	modified CARB 435	Soil	4/29/2005	1	8 oz. glass jar

Special Instructions: Please analyze using modified CARB 435 method by PLM,
detection limit 0.1%,
and hold for possible TEM analysis in the future.
Please fax preliminary results to John Johnson (732) 494-4020 and Howard Schmidt (313) 945-9483 within 7 calendar days of sample receipt.

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CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time

REAC, Edison, NJ
EPA Contract #: EP-C-04-032

CHAIN OF CUSTODY RECORD
Site #: 118
Contact Name: John Johnson
Contact Phone: 732-321-4200

No: 0118-041505-0029
Lab: Hygeia Labs
Lab Contact: Arturo Casas
Lab Phone: 626-355-4711

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container
	CSX-01	RAILROAD	modified CARB 435	Soil	5/17/2005	1	8 oz. glass jar
	CSX-02	RAILROAD	modified CARB 435	Soil	5/17/2005	1	8 oz. glass jar
	CSX-03	RAILROAD	modified CARB 435	Soil	5/17/2005	1	8 oz. glass jar
	WRGD-S0090	S771D	modified CARB 435	Soil	5/17/2005	1	8 oz. glass jar
	WRGD-S0091	S771E	modified CARB 435	Soil	5/17/2005	1	8 oz. glass jar
	WRGD-S0092	S771F	modified CARB 435	Soil	5/17/2005	1	8 oz. glass jar

Special Instructions: Please analyze using modified CARB 435 method by PLM with a 1,000 point count and 0.1% detection limit & hold for possible TEM analysis in the future.

Please fax preliminary results to John Johnson (732) 494-4020 and Howard Schmidt (313) 945-9481 within 7 calendar days of sample receipt.

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