SCS ENGINEERS







ADDENDUM 1 TO PRELIMINARY SITE ASSESSMENT/SITE INSPECTION REPORT

Interim Lead Wipe Sampling and Assessment Report Buildings 102, 103E, 103F, 104 & 104F

SAINT LOUIS FEDERAL CENTER
4300 GOODFELLOW BOULEVARD
SAINT LOUIS, MISSOURI

Presented to:

U.S. GENERAL SERVICES ADMINISTRATION
1500 E. Bannister Road, Room 2101
Kansas City, Missouri 64131-3088

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Appendices

1.0 INTRODUCTION

At the request of the United States General Services Administration (GSA) under Schedule Contract Number GS-10F-037K, SCS Engineers (SCS) performed a Preliminary Assessment (PA) and Site Inspection (SI) of the Saint Louis Federal Center (Site) located at 4300 Goodfellow Boulevard, Saint Louis, Saint Louis County, Missouri. The results of the combined PA/SI were reported in the *Combined Preliminary Assessment/Site Inspection Report, Saint Louis Federal Center, 4300 Goodfellow Boulevard, St. Louis, Missouri*, prepared by SCS, March 2007 (PA/SI Report). The purpose of this addendum is to summarize the findings associated with additional wipe sampling and assessment that was completed within Buildings 102, 103E, 103F (previously designated Building 112), 104, and 104F at the request of GSA as follow up to the PA/SI Report.

The Site is located in west Saint Louis as shown in Figure 1. Figure 2 details specific Site features. The Site was investigated due to past history as the former Saint Louis Ordnance Plant (SLOP), a weapons manufacturing facility.

1.1 PURPOSE OF THE ADDITIONAL SAMPLING

The PA/SI Report concluded the following regarding lead sampling at the St. Louis Federal Center:

> Lead was detected at concentrations above the Missouri Risk-Based Corrective Action (MRBCA) post-abatement clearance level for non-residential standards of 200 µg/ft^2 for floor surfaces (or approximately 0.021 mg/Wipe) in 73 of 84 wipe samples collected in Buildings 102, 102D, 102E, 103, 103D, 103E, 103F (previously designated Building 112), 104, 104F, 105, 105E, 105F, 110, 115, and the utility tunnel complex. Four wipe samples collected from Building 104E contained lead in excess of the HUD interim dust lead standard for floor surfaces of 40 µg/ft^2 (or approximately 0.004 mg/Wipe). Detected concentrations of lead in wipe samples collected from Building 104E ranged from 0.11 mg/Wipe to 130 mg/Wipe.

Although these lead concentrations were detected in areas not occupied by workers (e.g., utility tunnels and beams above ceilings), GSA requested a proposal to perform confirmation wipe sampling of these areas and additional wipe sampling in worker-occupied spaces. That proposal was submitted to GSA on July 9, 2007. The objective of the sampling was both to evaluate the presence of dust contaminated with lead in excess of target concentrations on surfaces in worker-occupied areas and to confirm high concentrations detected in non-occupied areas. For the purpose of this sampling event, the target concentration for worker-occupied areas was assumed to be 40 micrograms per square foot (µg/ft^2), which is the U.S. Environmental Protection Agency (EPA) threshold value for floor surfaces. This is the most stringent clean-up concentration identified as applicable to lead dust under State of Missouri and Federal guidelines.

2.0 DATA COLLECTION AND SAMPLING PROTOCOLS

As stated in the preceding section, the objective of the sampling was both to evaluate the presence of dust contaminated with lead in excess of target concentrations on surfaces in worker-occupied areas and to confirm high concentrations detected in non-occupied areas. Based on a review of laboratory analytical data, known remodeling efforts at the Site, and discussions with GSA personnel, wipe samples in worker-occupied spaces were collected within Buildings 104 and 104F. These buildings were selected for additional wipe sampling based on previous wipe sample analytical data that indicated elevated concentrations of lead particulates in these buildings, and the fact that interiors of these buildings had not been remodeled since the original sampling event. (Other buildings in the St. Louis Federal Center have been remodeled.)

Wipe samples collected for comparison with the previous sampling event were collected from within the crawl space level of Buildings 102, 103E, 103F, and 104. Samples were collected in these locations because they contained relatively high concentrations of lead, and because minimal disturbance (cleaning, remodeling, maintenance work, etc.) was anticipated to have occurred since the initial round of wipe sampling, which was completed in 2004.

2.1 WIPE SAMPLE COLLECTION

Twenty-one wipe samples were collected in the worker-occupied spaces within Buildings 104 and 104F. Additionally, five sets of two wipe samples were collected from within the crawl space level of Buildings 102, 103E, 103F, and 104. The duplicate wipe samples collected in the crawl space level were submitted to two laboratories to provide additional verification of analytical results. These samples were collected as close as possible to previous sample locations (without overlaying the previously wiped area), and were collected from two side-by-side templates on the surface to be sampled. Wipe samples collected from worker-occupied spaces were sent to TestAmerica Laboratories, Inc. (TestAmerica) in University Park, Illinois [formerly Severn Trent Laboratories (STL)]. Duplicate samples collected from the crawl space level were sent to TestAmerica and EMSL Analytical, Inc. (EMSL) in St. Louis, Missouri.

Wipe samples were collected using American Society for Testing & Materials (ASTM), Occupational Safety and Health Administration (OSHA), and HUD protocols. Based on the minimal amount of visible dust particulate found on surfaces in the worker occupied spaces, it was decided to increase the area sampled in an effort to ensure lead concentrations above laboratory detection limits would be identified in the wipe sample. Conversely, locations were wipe samples were collected in the crawl space level contained large quantities of visible dust particulate; therefore, a smaller area was used for wipe sample collection to ensure that all particulates were lifted from the surface being sampled.

Wipe samples collected from within the worker-occupied space were collected from an area measuring 144 square inches (in^2) and wipe samples collected from within the crawl space level were collected from an area 100 square centimeters (cm^2). The wipes consisted of cut gauze pads containing deionized water. Figures 3, 4, 5, 5A, 6, and 7 illustrate the locations where wipe samples were collected.

2.2 LOGGING OF SAMPLE PARAMETERS

All sample locations were documented in the field log, and pictures of the sample locations were taken. Photographs of wipe sample locations are located in Appendix C.

2.3 WIPE SAMPLE COLLECTION

Each wipe sample was collected from a predetermined location. Wipe samples collected from within worker-occupied spaces in Buildings 104 and 104F were collected from desk tops, tile floors, metal shelving, concrete floors, window sills, metal filing cabinets, and from the top of a refrigerator. Wipe samples collected from within the crawl space level of Buildings 102, 103E, 103F, and 104 were collected from structural steel beams, from a wood shelf, and from a concrete column. The wipe samples were collected by removing the pre-soaked gauze pad from the sample container and wiping an area of approximately 144 in^2 or 100 cm^2. Upon collection, wipe samples were immediately stored in the same laboratory-supplied jars for analysis. Once capped and sealed, sample containers were placed on ice in a cooler, and held until the end of the day of field investigation. At the end of the day of field investigation, the sample containers were shipped on ice under a proper chain-of-custody via overnight express delivery service to TestAmerica and EMSL.

3.0 RESULTS AND EVALUATION OF WIPE SAMPLE ANALYSIS

Twenty-one wipe samples were collected within worker-occupied spaces in Buildings 104 and 104F. The samples were collected to evaluate the presence of dust contaminated with lead in excess of the target concentration (40 µg/ft^2) in these areas. Five additional sets of two wipes each were collected in non-worker occupied areas. These wipe sample sets were collected to confirm high concentrations detected in non-occupied areas during the previous sampling event. Wipe samples collected as part of this additional investigation were analyzed by TestAmerica and EMSL for lead by Method 6010B utilizing flame atomic absorption spectroscopy (AAS). Standard Level II data packages were requested and were provided by both laboratories. The analytical results for the wipe samples are summarized by building in Tables 1 through 5 in Appendix B. The complete laboratory analytical reports are included in Appendix D.

3.1 ANALYTICAL RESULTS FROM WORKER OCCUPIED SPACES

Twenty-one wipe samples were collected from within worker occupied spaces in Buildings 104 and 104F (Tables 4 and 5). With the exception of one sample (WS115), all samples contained concentrations of lead above laboratory detection limits. The detected concentrations ranged from 0.73 µg/ft^2 (WS116) to 27.0 µg/ft^2 (WS119). All detectible concentrations of lead were below the EPA threshold value of 40 µg/ft^2 for floor surfaces. Based on the analytical results, it does not appear that dust contaminated with lead is present above this target level on surfaces in worker-occupied areas in Buildings 104 and 104 F at the St. Louis Federal Center.

3.2 ANALYTICAL RESULTS FROM UNOCCUPIED SPACES

Five sets of two wipe samples were collected in close proximity to five previously sampled areas located within unoccupied spaces. The duplicate samples collected as part of this interim report were submitted to two different laboratories (TestAmerica and EMSL) in an effort to evaluate consistencies between the laboratories, as well as to confirm previous data (obtained from STL-Chicago). The results from both sampling events are presented in Tables 1, 2, 3 and 4.

There was relatively good correlation between the results from the duplicate samples submitted to the two laboratories during this sampling event, especially considering the methodology required to collect duplicate wipe samples (side-by-side, as opposed to dividing a composite sample). The maximum relative percent difference (RPD) calculated for the duplicates was 35 percent, the minimum was 15 percent, and the average was 25 percent. These are all well within the plus or minus 50 percent guideline that is typically used for field duplicates.

Analytical results of duplicate wipe samples collected from unoccupied spaces ranged in concentration from 1,200 µg/ft^2 to 1,114,800 µg/ft^2. A review of wipe sample concentrations indicated that a large amount of variance was noted between the samples collected during the 2003 and 2004 sampling events (submitted to STL-Chicago) when compared with the concentrations of the wipe samples collected during this event (submitted to TestAmerica and

EMSL). With the exception of one duplicate sample (103ECSWS2), sample concentrations reported by STL-Chicago were always substantially higher than concentrations reported by TestAmerica or EMSL. However, all detected concentrations of lead were above the EPA threshold value of 40 µg/ft^2 for floor surfaces and above the MRBCA post-abatement clearance level for non-residential standards of 200 µg/ft^2. Based on the analytical results, it does appear that dust contaminated with lead is present within the crawl space level. The areas that exceeded this target level are located in unoccupied crawl space areas in Buildings 102, 103E, 103F, and 104 at the Site.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the analytical results, it does not appear that dust contaminated with lead is present above the target level of 40 µg/ft^{2}on surfaces in worker-occupied areas in Buildings 104 and 104F at the St. Louis Federal Center.

Good correlation was obtained between duplicate samples collected from unoccupied spaces and submitted to two laboratories for analysis. These results were generally lower than results from the previous sampling event, but the data are not considered to be conclusive. The concentrations detected in the unoccupied areas during this event are still above the 200 µg/ft^2 target level.

In the event of a large remodeling or reconstruction project within any of the buildings at the Site, measures should be employed to control migration of lead containing dust from the utility and crawl space areas to worker-occupied spaces. It is also recommended that maintenance workers at the facility receive training specific to health and safety issues associated with exposure to lead-containing dust that they may encounter during routine activities. Medical monitoring of these individuals should also be considered, if it is not already being conducted.

As a precautionary measure, because of high concentrations of lead in wipe samples collected above ceilings in some locations, it is recommended that air monitoring be conducted in representative worker-occupied areas over a work day to verify that heating, ventilation, and air conditioning systems are not circulating air borne lead-contaminated dust in worker-occupied areas.

4.1 FOLLOW-UP AIR MONITORING

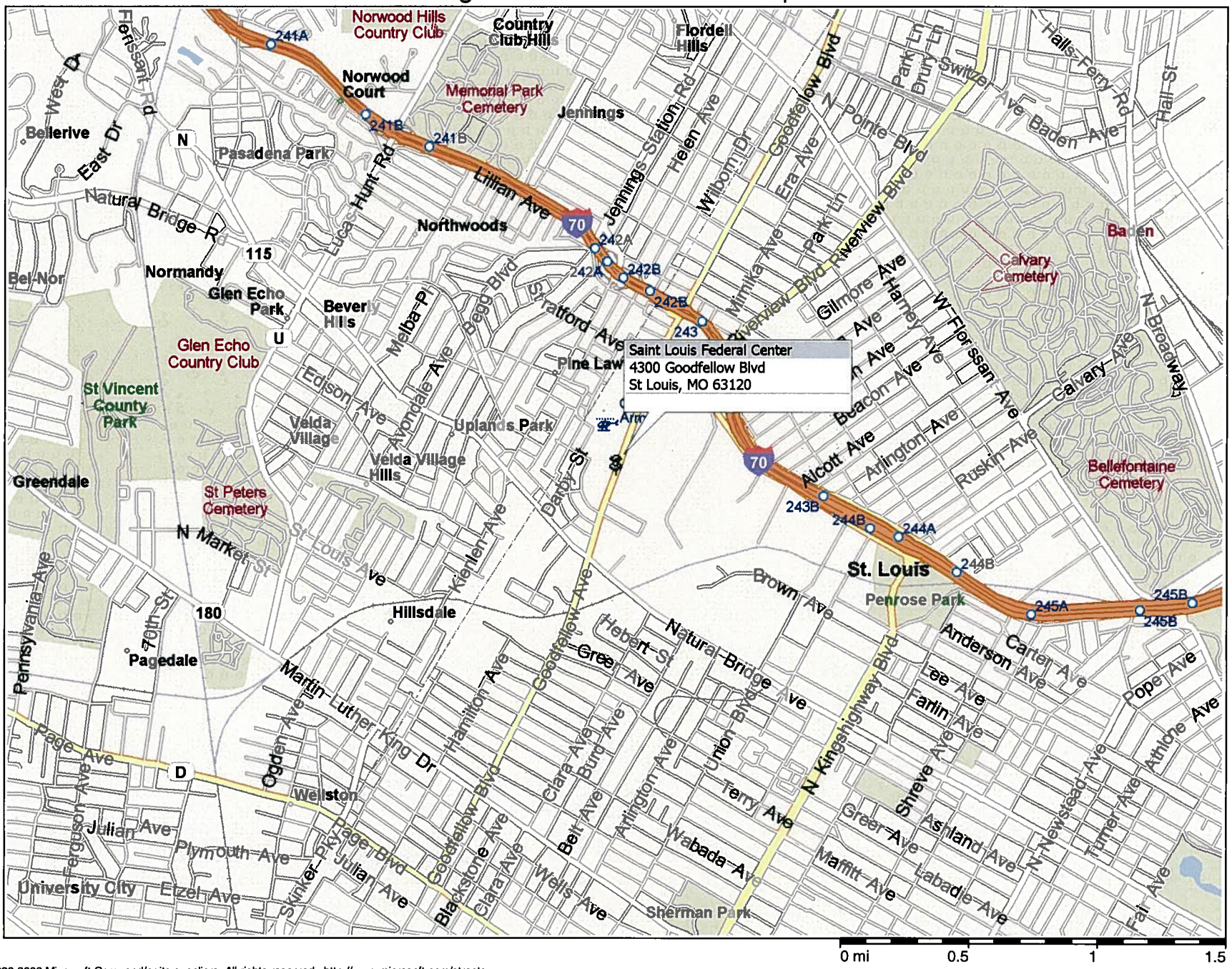
Pursuant to the recommendations made above by SCS, GSA subsequently conducted air monitoring for particulate lead within worker occupied spaces. The air monitoring occurred on the second floor of Building 104 on January 24, 2008. Ten air samples were collected at randomly selected locations by GSA staff. Laboratory analytical data indicated particulate lead concentrations were below laboratory detection limits in all samples collected for analysis. A summary of the air sampling event and the analytical data are located in Appendix E. Based on the results of the air monitoring analytical data, SCS recommends no additional action at this time.

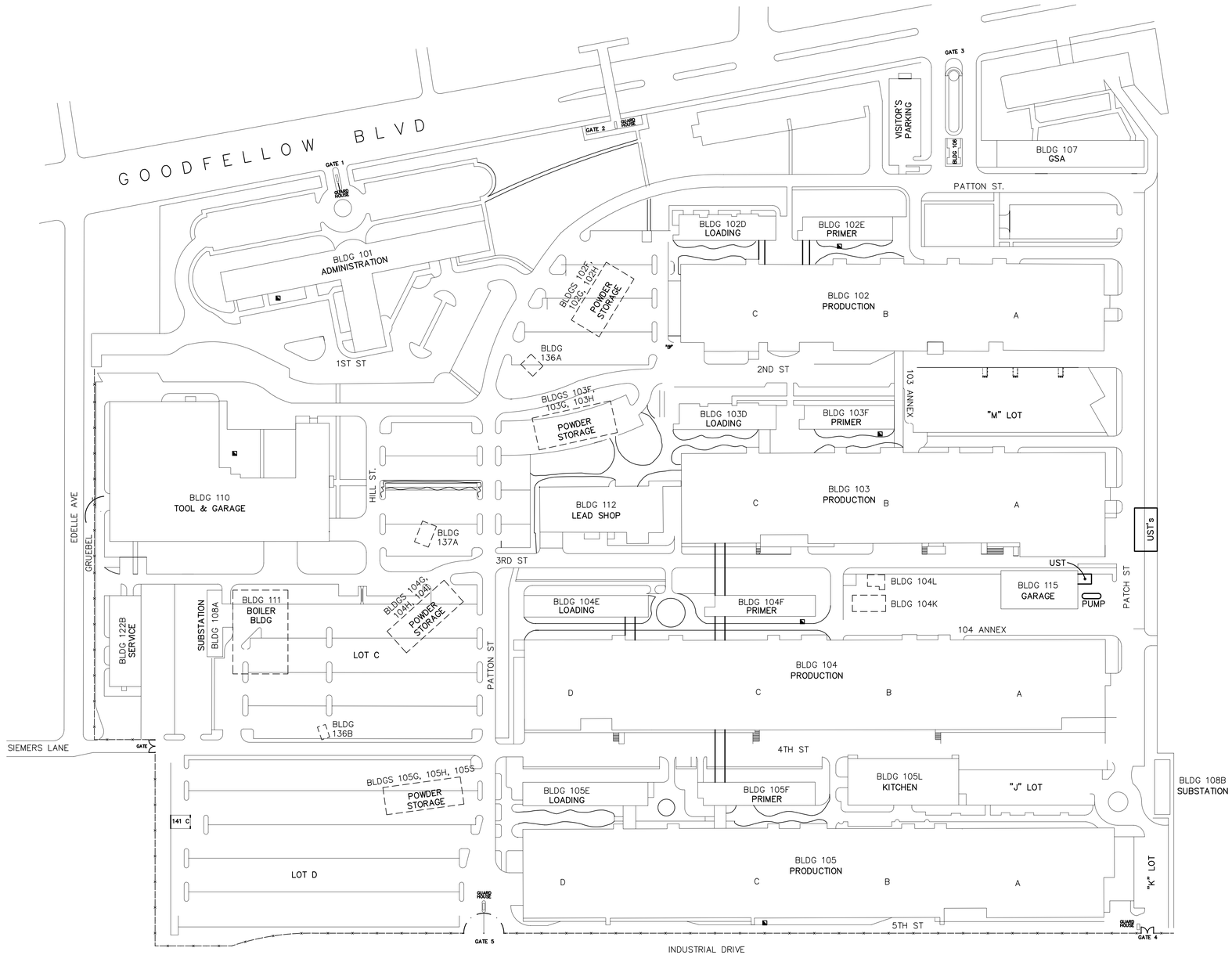
APPENDICES

APPENDIX A

FIGURES

Figure 1 Site Location Map





LEGEND

- FENCE
- FIRE HYDRANT — FH
- NO PARKING
- SMOKING SHELTER
- FORMER BUILDING LOCATION

REV.	DATE	DESCRIPTION	CK. BY
1			
2			
3			
4			
5			
6			

SHEET TITLE
SITE PLAN

PROJECT TITLE
INTERIM LEAD WIPE SAMPLING REPORT
ST. LOUIS FEDERAL CENTER
4300 GOODFELLOW BOULEVARD
ST. LOUIS, MISSOURI

CLIENT
U.S. GENERAL SERVICES ADMINISTRATION
PROPERTY MANAGEMENT DIVISION
GSA PUBLIC BUILDINGS SERVICE
HEARTLAND REGION
1500 E. BANNISTER ROAD, ROOM 201
KANSAS CITY, MO 64131

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PROJ. NO.	DWN. BY:	CHK. BY:	QA RVW BY:	APP. BY:
0200070.67	REP			
DSN. BY:	DEB			

CADD FILE: 200070.67-00

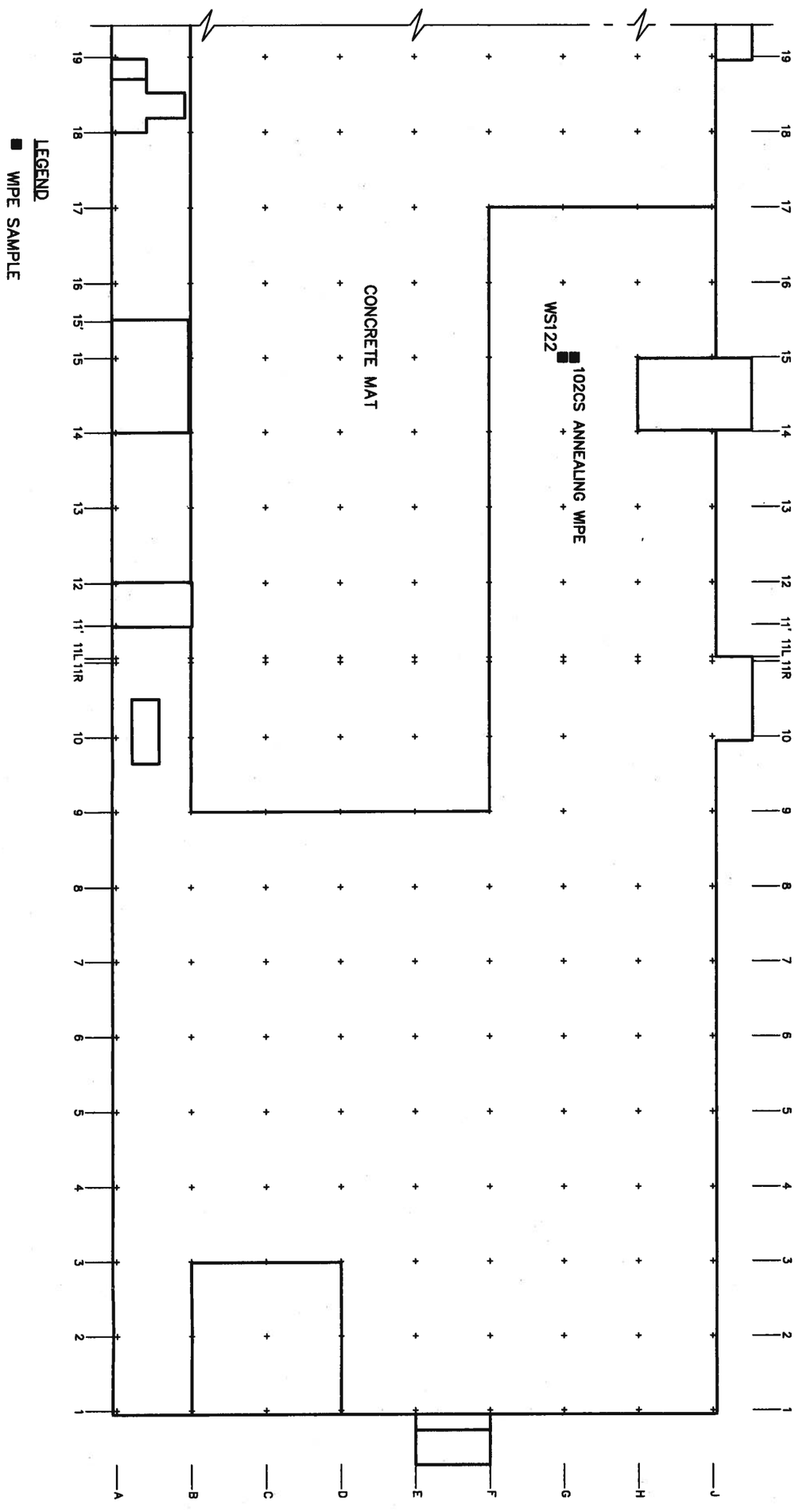
DATE: DECEMBER 2007

SCALE: 1"=100'

FIGURE **2**

O:\DWGS\ES\02\02200070.67-SLOP PROJ\DWG\200070.67-00 12-14-2007

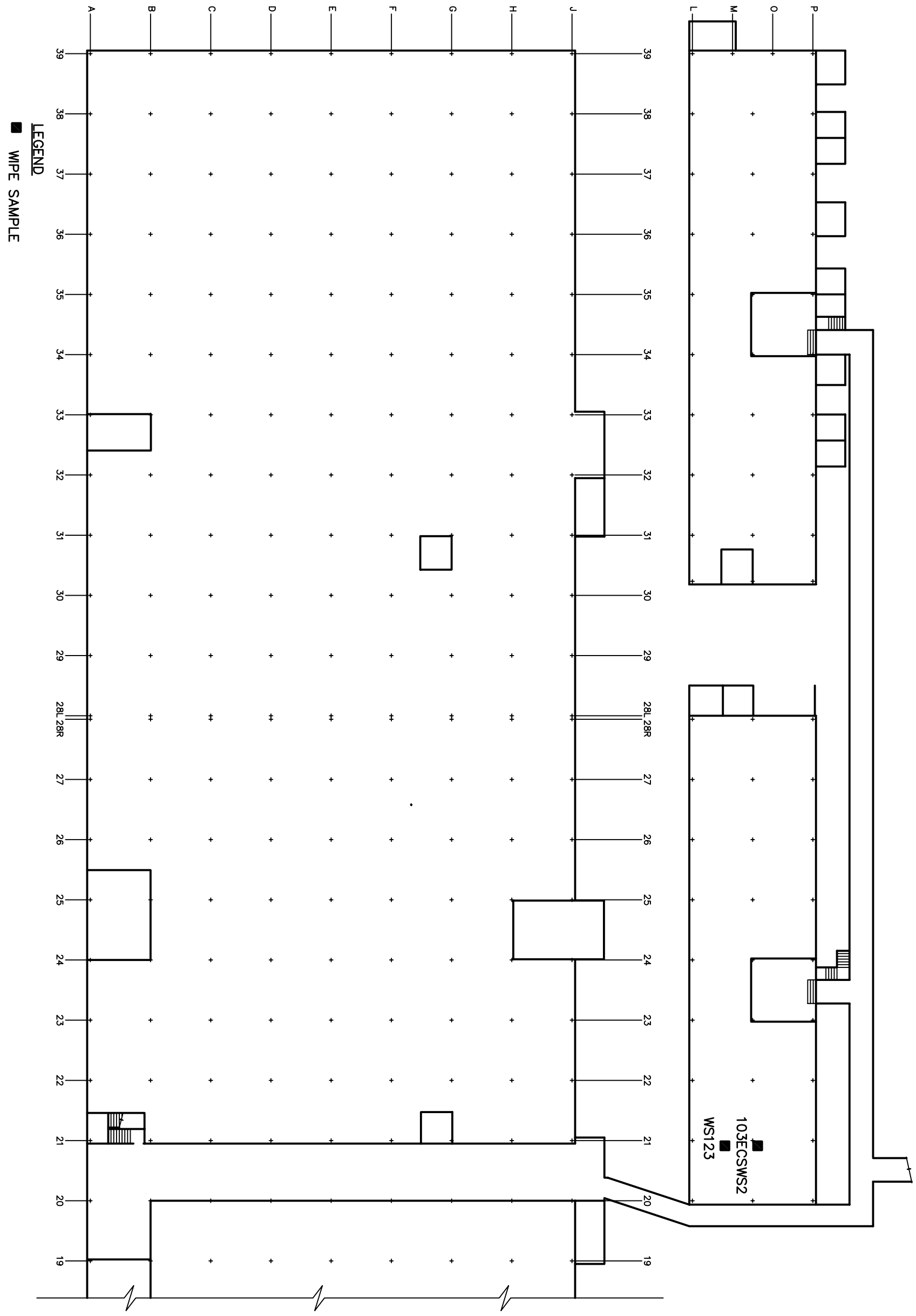
O:\DWGS\ES\02\02200070.67-SLOP PROJ\DWG\200070.67-FIG 3



NOT TO SCALE

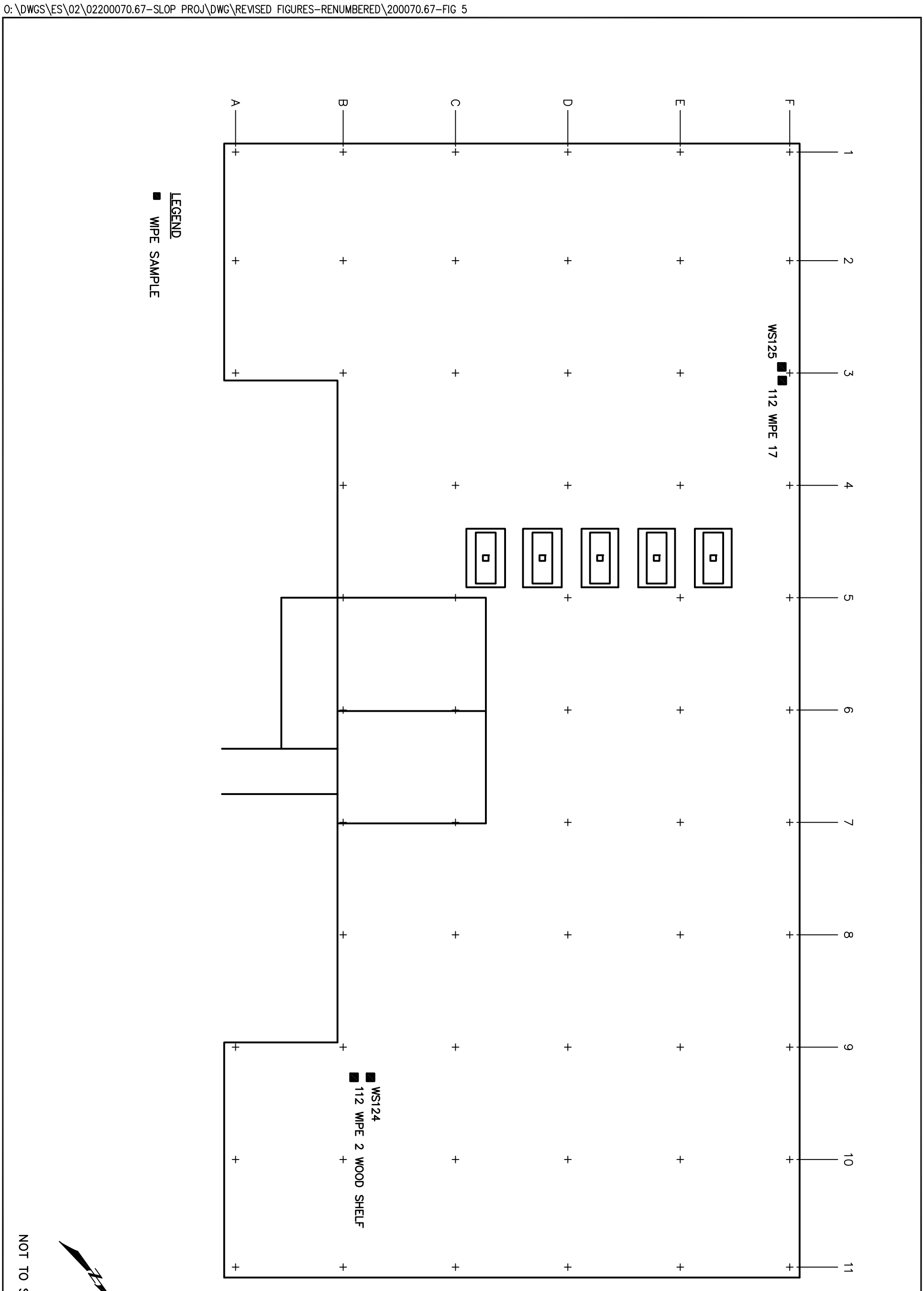
SCS ENGINEERS DSN. BY J. DOMLING CHK. BY D. BREWER DWN. BY R.PHILLIPS REV:	BASEMENT BUILDING 102, 102D AND 102E ST. LOUIS ORDNANCE PLANT 4300 GOODFELLOW BLVD. ST. LOUIS, MISSOURI PROJECT NO. 02200070.67 DECEMBER 2007	FIGURE 3 SAMPLE LOCATIONS

O:\DWGS\ES\02\02200070.67-SLOP PROJ\DWG\200070.67-FIG 4



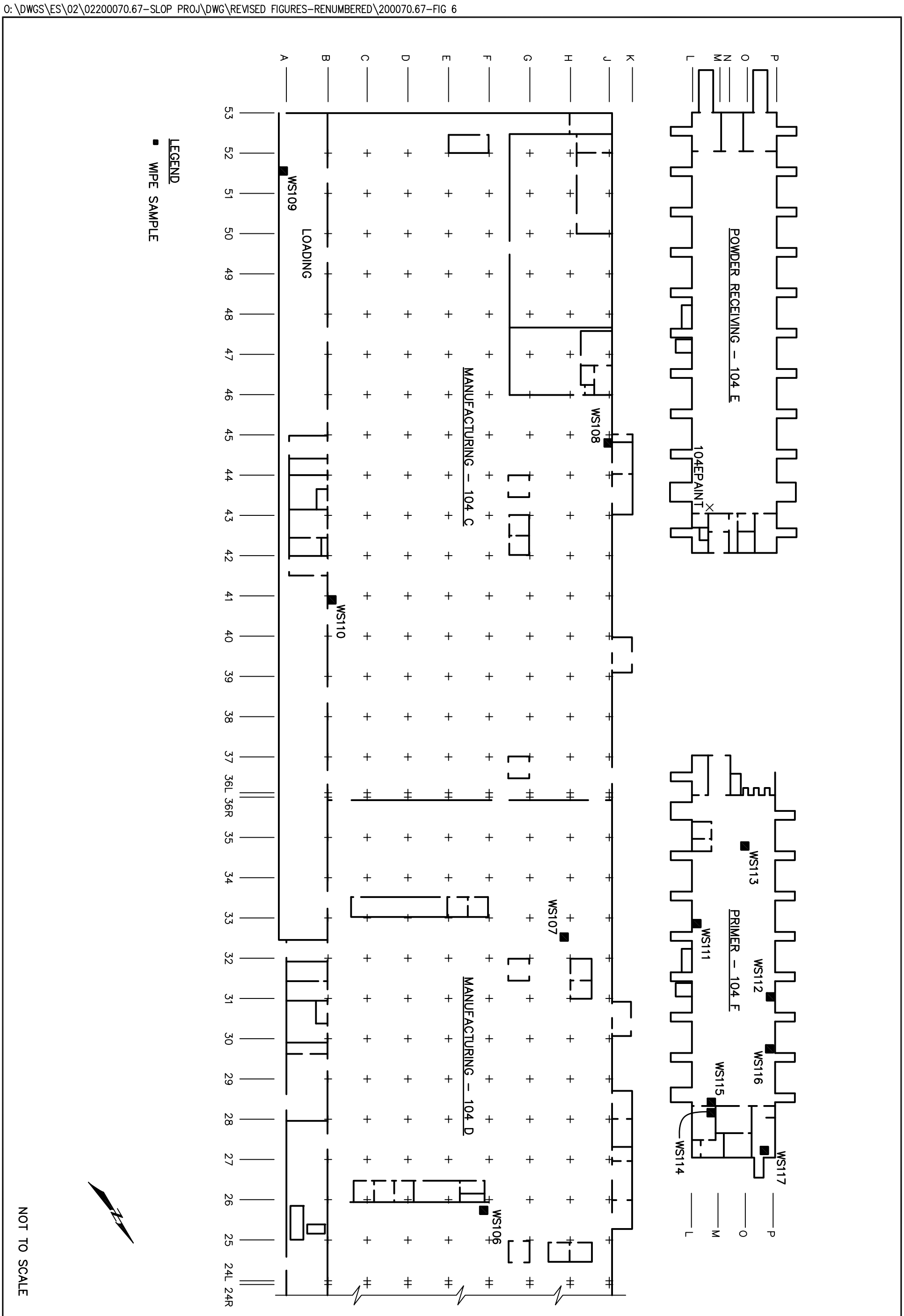
SCS ENGINEERS DSN. BY J. DOMLING CHK. BY D. BREWER DWN. BY R.PHILLIPS REV:	**BASEMENT FLOOR BUILDING 103, 103D, AND 103E** **ST. LOUIS ORDNANCE PLANT** **4300 GOODFELLOW BLVD. ST. LOUIS, MISSOURI** **PROJECT NO. 02200070.67 DECEMBER 2007**	**FIGURE 4** **SAMPLE LOCATIONS**

O:\DWGS\ES\02\02200070.67-SLOP PROJ\DWG\REVISED FIGURES-RENUMBERED\200070.67-FIG 5



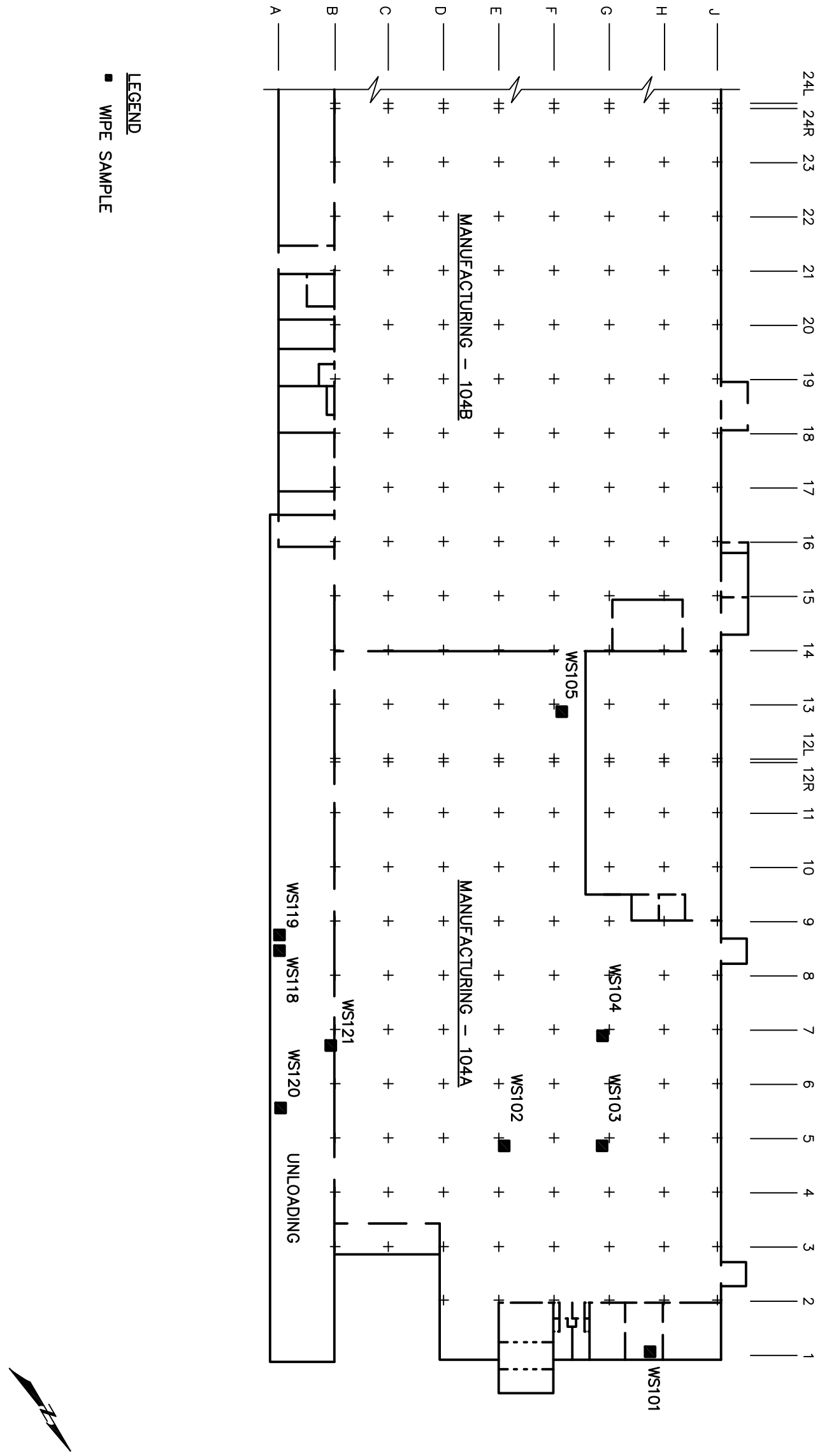
SCS ENGINEERS DSN. BY J. DOMLING CHK. BY D. BREWER DWN. BY R.PHILLIPS REV:	**CRAWL SPACE BUILDING 112** **ST. LOUIS ORDNANCE PLANT** **4300 GOODFELLOW BLVD. ST. LOUIS, MISSOURI** **PROJECT NO. 02200070.67 DECEMBER 2007**	**FIGURE 5** **SAMPLE LOCATIONS**

O:\DWGS\ES\02\02200070.67-SLOP PROJ\DWG\REVISED FIGURES-RENUMBERED\200070.67-FIG 6



SCS ENGINEERS DSN. BY J.DOMLING CHK. BY D. BREWER DWN. BY R.PHILLIPS REV:	**MAIN FLOOR BUILDINGS 104, 104E, AND 104F** **ST. LOUIS ORDNANCE PLANT** **4300 GOODFELLOW BLVD. ST. LOUIS, MISSOURI** **PROJECT NO. 02200070.67 DECEMBER 2007**	**FIGURE 6** **SAMPLE LOCATIONS**

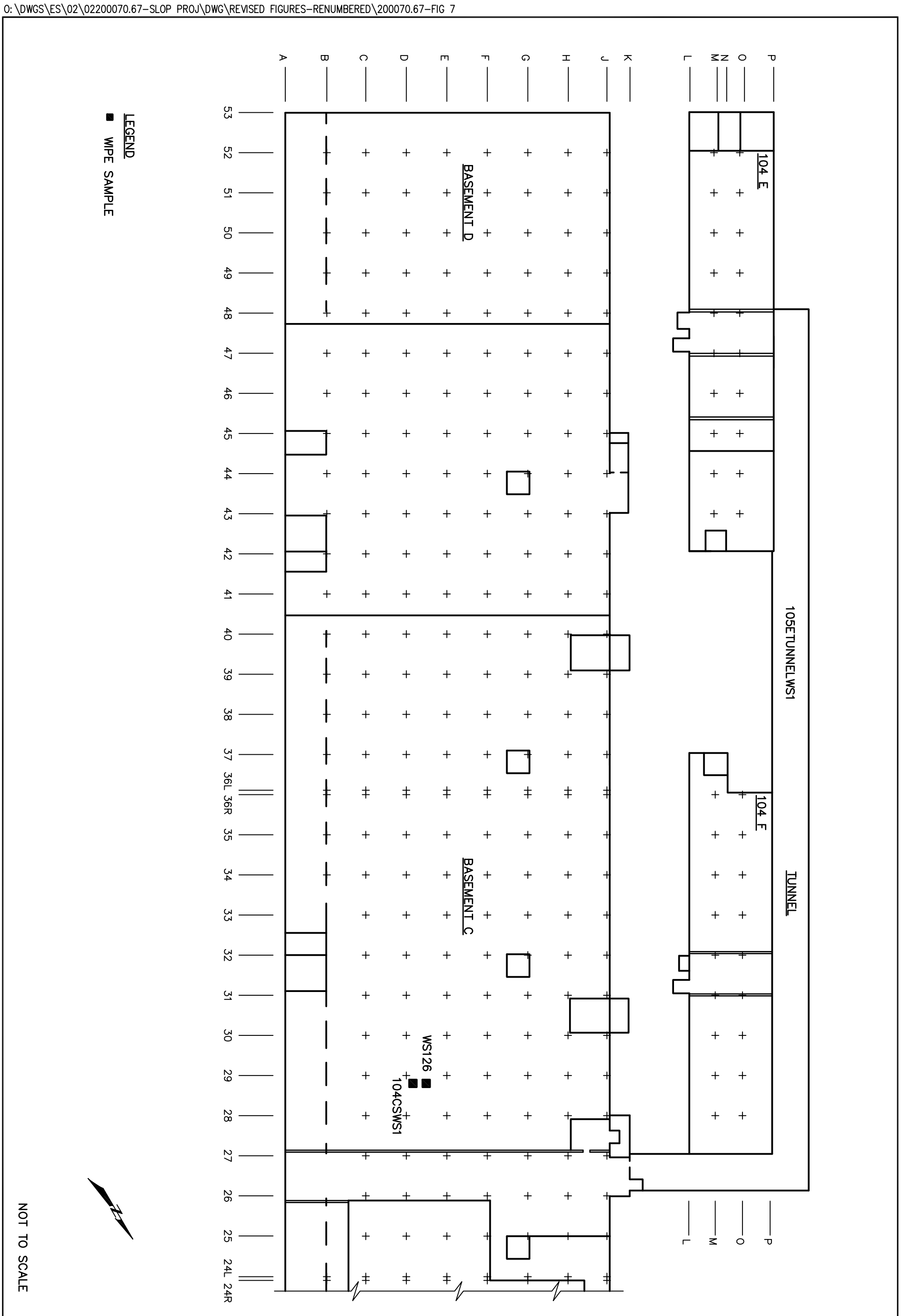
O:\DWGS\ES\02\02200070.67-SLOP PROJ\DWG\REVISED FIGURES-RENUMBERED\200070367-FIG 6A



NOT TO SCALE

SCS ENGINEERS DSN. BY J.DOMLING CHK. BY D. BREWER DWN. BY R.PHILLIPS REV:	**MAIN FLOOR BUILDING 104** **ST. LOUIS ORDNANCE PLANT** **4300 GOODFELLOW BLVD. ST. LOUIS, MISSOURI** **PROJECT NO. 02200070.67 DECEMBER 2007**	**FIGURE 6A** **SAMPLE LOCATIONS**

O:\DWGS\ES\02\02200070.67-SLOP PROJ\DWG\REVISED FIGURES-RENUMBERED\200070.67-FIG 7



SCS ENGINEERS DSN. BY J. DOMLING CHK. BY D. BREWER DWN. BY R.PHILLIPS REV:	**BASEMENT BUILDING 104 , 104E AND 104F** **ST. LOUIS ORDNANCE PLANT** **4300 GOODFELLOW BLVD. ST. LOUIS, MISSOURI** **PROJECT NO. 02200070.67 DECEMBER 2007**	**FIGURE 7** **SAMPLE LOCATIONS**

APPENDIX B

SUMMARY OF LABORATORY ANALYTICAL RESULTS

Table 1. Summary of Lead Wipe Sample Data Building 102
GSA 4300 Goodfellow Boulevard
St. Louis, Missouri

Location	Sample Number	Sample Date	Results ($\mu g/ft^2$)
Wipe Target Concentration	---	---	40.00
Bldg. 102, Crawl Space Level, I-Beam adjacent to Col. 15G	102CS Annealing Wipe	22/Jul/2003	**1,114,800**
Bldg. 102, Crawl Space Level, I-Beam adjacent to Col. 15G	WS122 Test America	06/Sep/2007	**380,890**
Bldg. 102, Crawl Space Level, I-Beam adjacent to Col. 15G	WS122 EMSL	06/Sep/2007	**320,000**

Table 2. Summary of Wipe Sample Data Building 103E
GSA 4300 Goodfellow Boulevard
St. Louis, Missouri

Location	Sample Number	Sample Date	Results (µg/ft^2)
Wipe Target Concentration	---	---	40.00
Bldg. 103E, Crawl Space Level, I-Beam adjacent to Col. 21M	103ECSWS2	24/Jul/2003	75,249
Bldg. 103E, Crawl Space Level, I-Beam adjacent to Col. 21M	WS123 Test America	06/Sep/2007	232,250
Bldg. 103E, Crawl Space Level, I-Beam adjacent to Col. 21M	WS123 EMSL	06/Sep/2007	170,000

Table 3. Summary of Lead Wipe Sample Data Building 104
GSA 4300 Goodfellow Boulevard
St. Louis, Missouri

Location	Sample Number	Sample Date	Results ($\mu g/ft^2$)
Wipe Target Concentration	---	---	**40.00**
Bldg. 104, Floor 1, Column 1H, desk top	WS101	06/Sep/2007	0.89
Bldg. 104, Floor 1, Column 5E, floor	WS102	06/Sep/2007	1.50
Bldg. 104, Floor 1, Column 5G, metal shelf	WS103	06/Sep/2007	3.70
Bldg. 104, Floor 1, Column 7G, desk top	WS104	06/Sep/2007	2.10
Bldg. 104, Floor 1, Column 13F, floor	WS105	06/Sep/2007	7.20
Bldg. 104, Floor 1, Column 26F, floor	WS106	06/Sep/2007	2.80
Bldg. 104, Floor 1, Column 33H, metal shelf	WS107	06/Sep/2007	1.90
Bldg. 104, Floor 1, Column 45J, floor	WS108	06/Sep/2007	4.00
Bldg. 104, Floor 1, Column 52A, window sill	WS109	06/Sep/2007	2.00
Bldg. 104, Floor 1, Column 41A, top of appliance	WS110	06/Sep/2007	5.50
Bldg. 104, Floor 1, Column 33L, window sill	WS111	06/Sep/2007	15.00
Bldg. 104, Floor 1, Column 9A, desk top	WS118	06/Sep/2007	1.80
Bldg. 104, Floor 1, Column 9A, metal cabinet	WS119	06/Sep/2007	27.00
Bldg. 104, Floor 1, Column 6A, filing cabinet	WS120	06/Sep/2007	2.70
Bldg. 104, Floor 1, Column 7B, floor	WS121	06/Sep/2007	22.00
Bldg. 104, Crawl Space Level, electrical box adjacent to Col. 29D	104CSWS1	23/Jul/2003	**23,225**
Bldg. 104, Crawl Space Level, electrical box adjacent to Col. 29D	WS126 Test America	06/Sep/2007	**1,394**
Bldg. 104, Crawl Space Level, electrical box adjacent to Col. 29D	WS126 EMSL	06/Sep/2007	**1,200**

Table 4. Summary of Lead Wipe Sample Data Building 104F
GSA 4300 Goodfellow Boulevard
St. Louis, Missouri

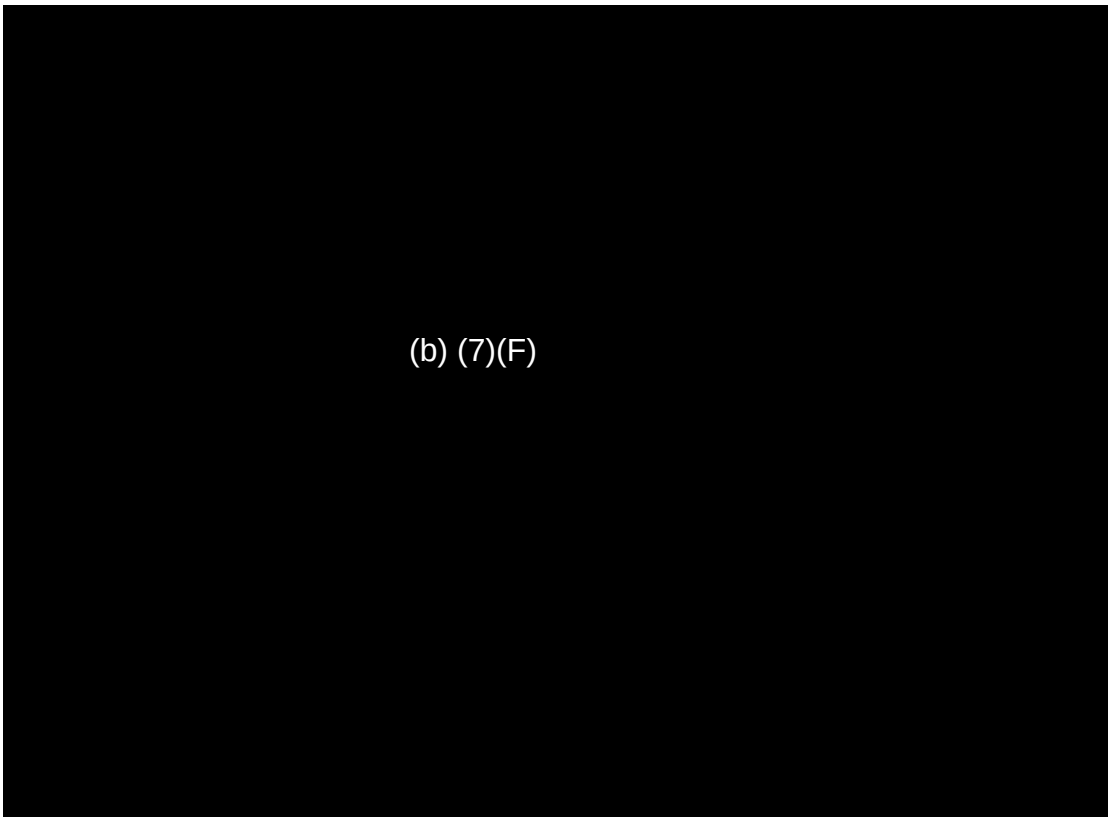
Location	Sample Number	Sample Date	Results ($\mu g/ft^2$)
Wipe Target Concentration	---	---	**40.00**
Bldg. 104F, Floor 1, Column 33L, window sill	WS111	06/Sep/2007	15.00
Bldg. 104F, Floor 1, Column 31P, window sill	WS112	06/Sep/2007	2.60
Bldg. 104F, Floor 1, Column 35O, floor	WS113	06/Sep/2007	5.30
Bldg. 104F, Floor 2, Column 28M, desk top	WS114	06/Sep/2007	2.10
Bldg. 104F, Floor 2, Column 28M, metal shelf	WS115	06/Sep/2007	<0.50
Bldg. 104F, Floor 2, Column 30P, window sill	WS116	06/Sep/2007	0.78
Bldg. 104F, Floor 2, Column 27P, floor	WS117	06/Sep/2007	0.73

Table 5. Summary of Lead Wipe Sample Data Building 112
GSA 4300 Goodfellow Boulevard
St. Louis, Missouri

Location	Sample Number	Sample Date	Results ($\mu g/ft^2$)
Wipe Target Concentration	---	---	40.00
Bldg. 112, Crawl Space Level, wood shelf adjacent to Col. 9B	112 Wipe 2 Wood Shelf	06/Sep/2007	25,083
Bldg. 112, Crawl Space Level, wood shelf adjacent to Col. 9B	WS124 Test America	06/Sep/2007	1,579
Bldg. 112, Crawl Space Level, wood shelf adjacent to Col. 9B	WS124 EMSL	06/Sep/2007	1,200
Bldg. 112, Crawl Space Level, concrete pillar adjacent to Col. 3F	112 Wipe 17	06/Sep/2007	73,391
Bldg. 112, Crawl Space Level, concrete pillar adjacent to Col. 3F	WS125 Test America	06/Sep/2007	16,722
Bldg. 112, Crawl Space Level, concrete pillar adjacent to Col. 3F	WS125 EMSL	06/Sep/2007	24,000

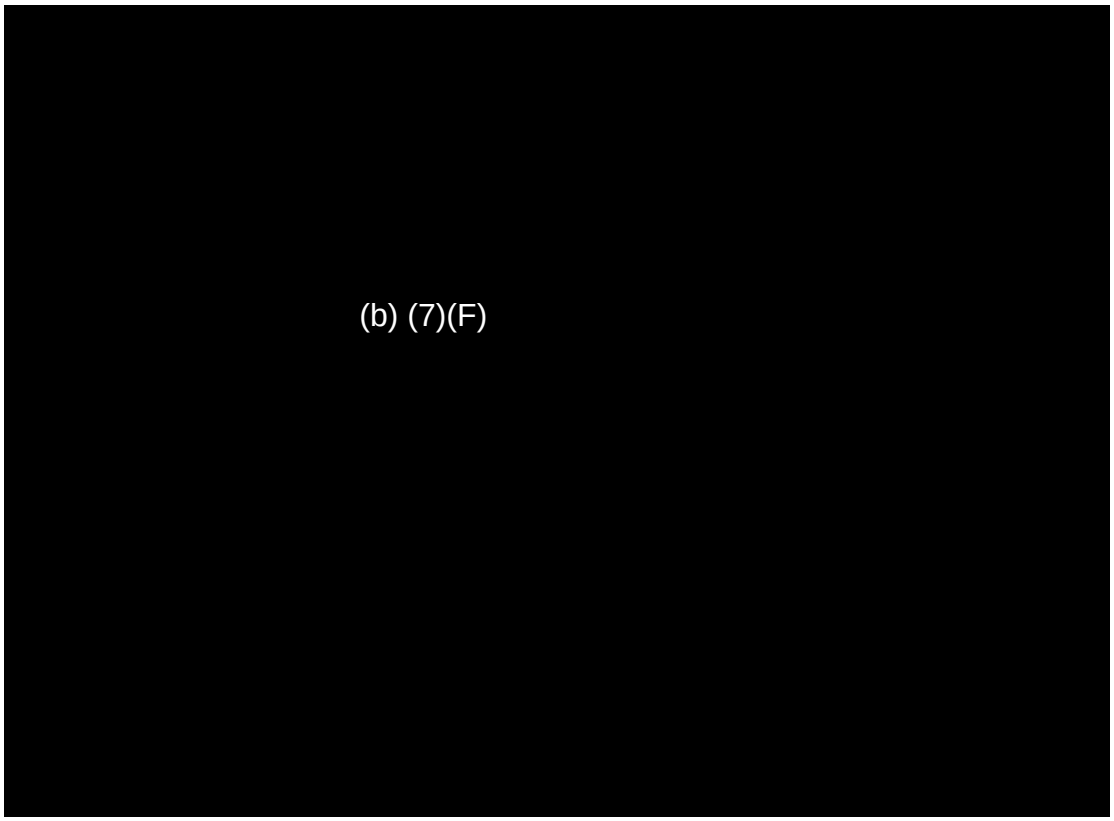
APPENDIX C

PHOTOGRAPHS

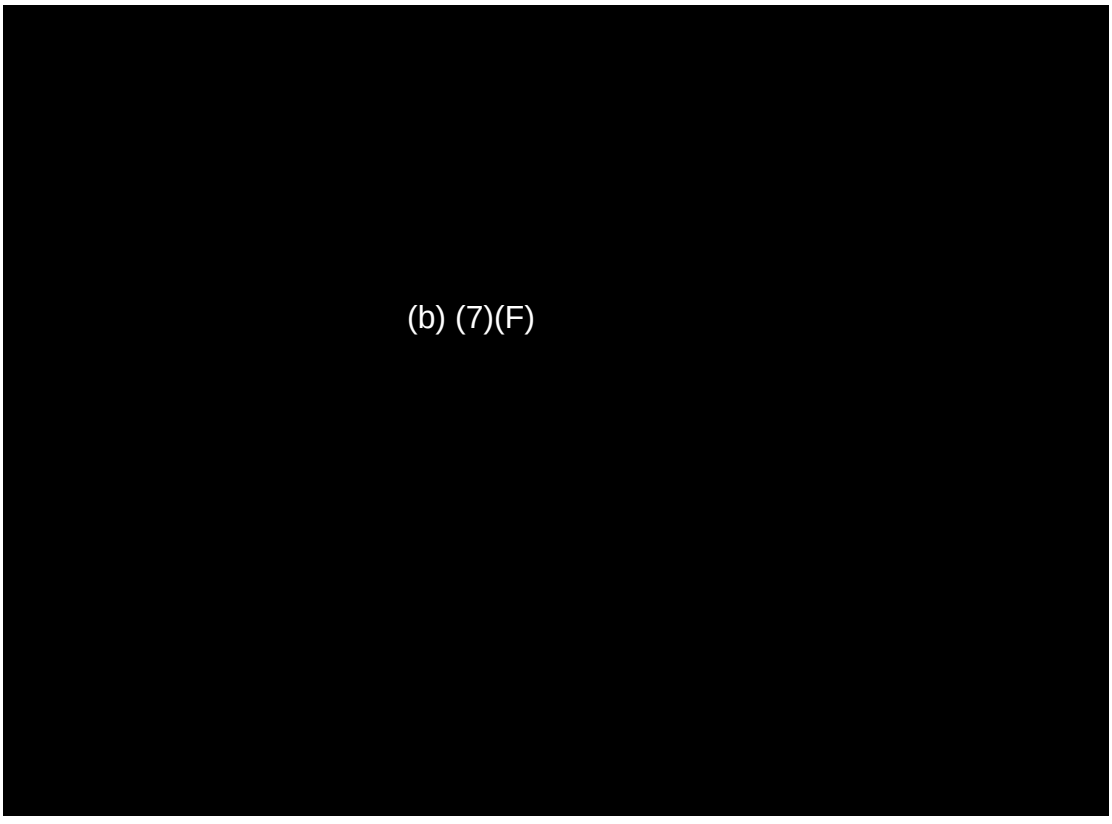


Photograph 1. Wipe sample #WS101.

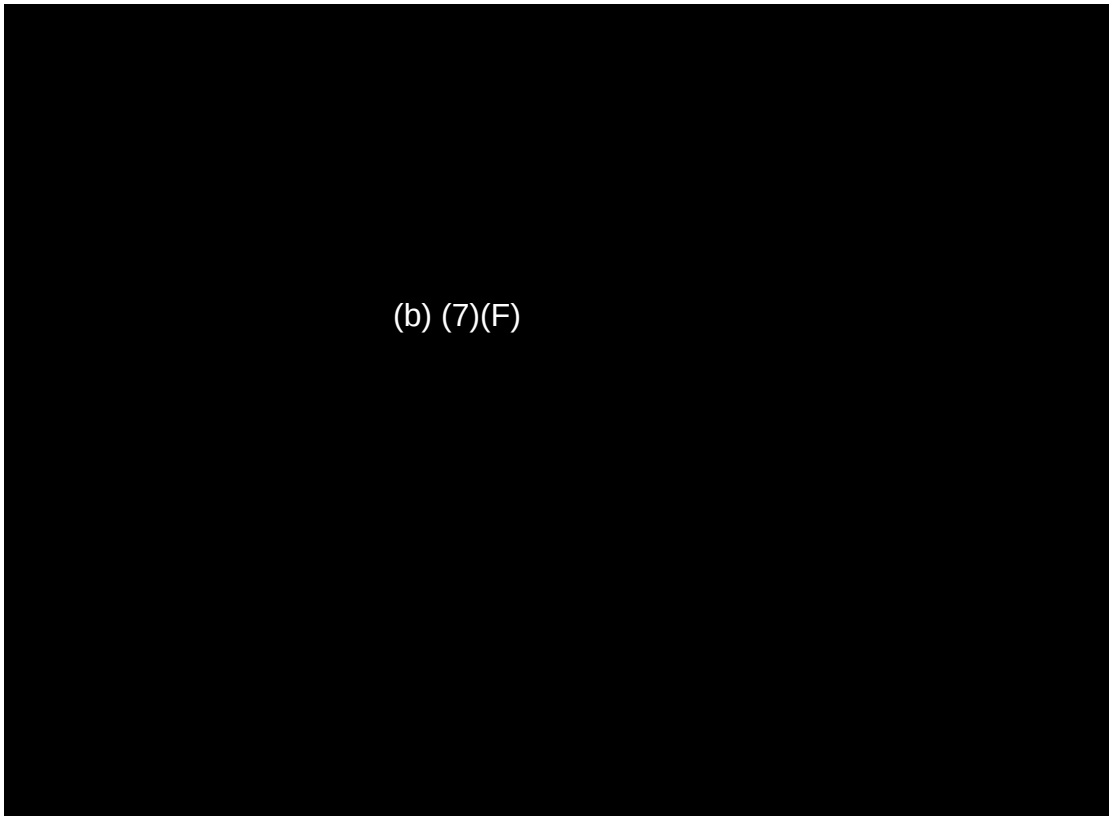
Photograph 2. Wipe sample #WS102.



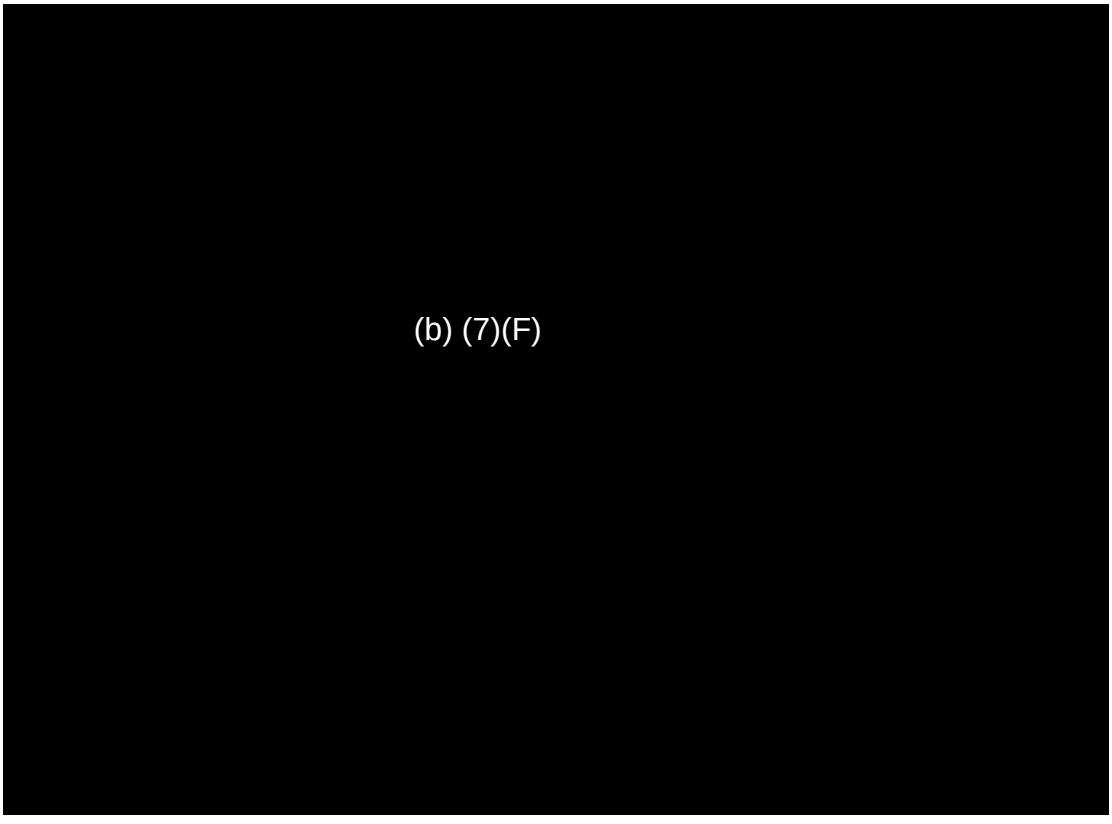
Photograph 3. Wipe sample #WS104.



Photograph 4. Wipe sample #WS105.



Photograph 5. Wipe sample #WS106.



Photograph 6. Wipe sample #WS107.

Photograph 7. Wipe sample #WS108.

Photograph 8. Wipe sample #WS109.

Photograph 9. Wipe sample #WS110.

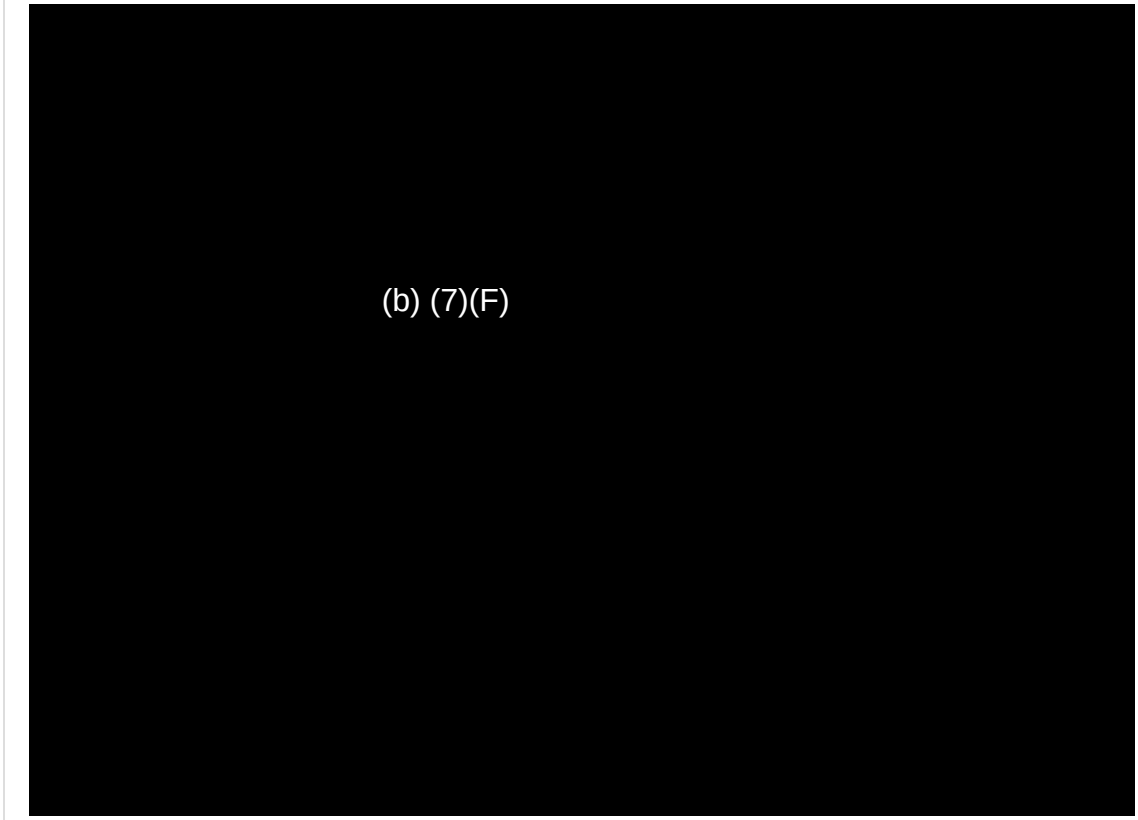
Photograph 10. Wipe sample #WS111.

Photograph 11. Wipe sample #WS113.

Photograph 12. Wipe sample #WS114.

Photograph 13. Wipe sample #WS116.

Photograph 14. Wipe sample #WS117.



Photograph 15. Wipe sample #WS118.

Photograph 16. Wipe sample #WS119.

Photograph 17. Wipe sample #WS120.

Photograph 18. Wipe sample #WS121.

Photograph 19. Wipe sample #WS122.

Photograph 20. Wipe sample #WS124.

APPENDIX D

LABORATORY ANALYTICAL REPORTS

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 500-6438-1

Job Description: Army Reserve Sites

For:
SCS Engineers
10975 El Monte,
Suite 100
Overland Park, KS 66211

Attention: Deborah English

(b) (6)

Richard C Wright
Project Manager II
richard.wright@testamericainc.com
09/24/2007

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID# is 100201.

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

Metals
No analytical or quality issues were noted.

METHOD SUMMARY

Client: SCS Engineers Job Number: 500-6438-1

Description	Lab Location	Method	Preparation Method
Matrix: Wipe			
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL CHI	SW846 6010B	
Acid Digestion of Sediments, Sludges, and Soils	TAL CHI		SW846 3050B

Lab References:

TAL CHI = TestAmerica Chicago

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: SCS Engineers Job Number: 500-6438-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
500-6438-1	WS101	Wipe	09/06/2007 1045	09/08/2007 0945
500-6438-2	WS102	Wipe	09/06/2007 1055	09/08/2007 0945
500-6438-3	WS103	Wipe	09/06/2007 1105	09/08/2007 0945
500-6438-4	WS104	Wipe	09/06/2007 1115	09/08/2007 0945
500-6438-5	WS105	Wipe	09/06/2007 1125	09/08/2007 0945
500-6438-6	WS106	Wipe	09/06/2007 1130	09/08/2007 0945
500-6438-7	WS107	Wipe	09/06/2007 1135	09/08/2007 0945
500-6438-8	WS108	Wipe	09/06/2007 1140	09/08/2007 0945
500-6438-9	WS109	Wipe	09/06/2007 1145	09/08/2007 0945
500-6438-10	WS110	Wipe	09/06/2007 1150	09/08/2007 0945
500-6438-11	WS111	Wipe	09/06/2007 1220	09/08/2007 0945
500-6438-12	WS112	Wipe	09/06/2007 1225	09/08/2007 0945
500-6438-13	WS113	Wipe	09/06/2007 1240	09/08/2007 0945
500-6438-14	WS114	Wipe	09/06/2007 1250	09/08/2007 0945
500-6438-15	WS115	Wipe	09/06/2007 1255	09/08/2007 0945
500-6438-16	WS116	Wipe	09/06/2007 1300	09/08/2007 0945
500-6438-17	WS117	Wipe	09/06/2007 1305	09/08/2007 0945
500-6438-18	WS118	Wipe	09/06/2007 1310	09/08/2007 0945
500-6438-19	WS119	Wipe	09/06/2007 1315	09/08/2007 0945
500-6438-20	WS120	Wipe	09/06/2007 1320	09/08/2007 0945
500-6438-21	WS121	Wipe	09/06/2007 1330	09/08/2007 0945
500-6438-22	WS122	Wipe	09/06/2007 1350	09/08/2007 0945
500-6438-23	WS123	Wipe	09/06/2007 1400	09/08/2007 0945
500-6438-24	WS124	Wipe	09/06/2007 1420	09/08/2007 0945
500-6438-25	WS125	Wipe	09/06/2007 1430	09/08/2007 0945
500-6438-26	WS126	Wipe	09/06/2007 1440	09/08/2007 0945

SAMPLE RESULTS

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Job Number: 500-6438-1

Client Sample ID: WS101
Lab Sample ID: 500-6438-1

Date Sampled: 09/06/2007 1045
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0226		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.00089	mg/wipe	0.00050	0.00050	1.0

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Job Number: 500-6438-1

Client Sample ID: WS102
Lab Sample ID: 500-6438-2

Date Sampled: 09/06/2007 1055
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0240		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.0015	mg/wipe	0.00050	0.00050	1.0

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Job Number: 500-6438-1

Client Sample ID: WS103
Lab Sample ID: 500-6438-3

Date Sampled: 09/06/2007 1105
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0247		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.0037	mg/wipe	0.00050	0.00050	1.0

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Job Number: 500-6438-1

Client Sample ID: WS104
Lab Sample ID: 500-6438-4

Date Sampled: 09/06/2007 1115
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0253		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.0021	mg/wipe	0.00050	0.00050	1.0

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Job Number: 500-6438-1

Client Sample ID: WS105
Lab Sample ID: 500-6438-5

Date Sampled: 09/06/2007 1125
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0300		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.0072	mg/wipe	0.00050	0.00050	1.0

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Job Number: 500-6438-1

Client Sample ID: WS106
Lab Sample ID: 500-6438-6

Date Sampled: 09/06/2007 1130
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0307		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.0028	mg/wipe	0.00050	0.00050	1.0

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Job Number: 500-6438-1

Client Sample ID: WS107
Lab Sample ID: 500-6438-7

Date Sampled: 09/06/2007 1135
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0421		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.0019	mg/wipe	0.00050	0.00050	1.0

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Job Number: 500-6438-1

Client Sample ID: WS108
Lab Sample ID: 500-6438-8

Date Sampled: 09/06/2007 1140
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0428		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.0040	mg/wipe	0.00050	0.00050	1.0

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Job Number: 500-6438-1

Client Sample ID: WS109
Lab Sample ID: 500-6438-9

Date Sampled: 09/06/2007 1145
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0435		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.0020	mg/wipe	0.00050	0.00050	1.0

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Job Number: 500-6438-1

Client Sample ID: WS110
Lab Sample ID: 500-6438-10

Date Sampled: 09/06/2007 1150
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0442		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.0055	mg/wipe	0.00050	0.00050	1.0

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Job Number: 500-6438-1

Client Sample ID: WS111
Lab Sample ID: 500-6438-11

Date Sampled: 09/06/2007 1220
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0449		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.015	mg/wipe	0.00050	0.00050	1.0

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Job Number: 500-6438-1

Client Sample ID: WS112
Lab Sample ID: 500-6438-12

Date Sampled: 09/06/2007 1225
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0456		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.0026	mg/wipe	0.00050	0.00050	1.0

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Job Number: 500-6438-1

Client Sample ID: WS113
Lab Sample ID: 500-6438-13

Date Sampled: 09/06/2007 1240
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0503		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.0053	mg/wipe	0.00050	0.00050	1.0

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Job Number: 500-6438-1

Client Sample ID: WS114
Lab Sample ID: 500-6438-14

Date Sampled: 09/06/2007 1250
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0510		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.0021	mg/wipe	0.00050	0.00050	1.0

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Job Number: 500-6438-1

Client Sample ID: WS115
Lab Sample ID: 500-6438-15

Date Sampled: 09/06/2007 1255
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0517		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	<0.00050	mg/wipe	0.00050	0.00050	1.0

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Job Number: 500-6438-1

Client Sample ID: WS116
Lab Sample ID: 500-6438-16

Date Sampled: 09/06/2007 1300
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0524		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.00078	mg/wipe	0.00050	0.00050	1.0

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Job Number: 500-6438-1

Client Sample ID: WS117
Lab Sample ID: 500-6438-17

Date Sampled: 09/06/2007 1305
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0556		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.00073	mg/wipe	0.00050	0.00050	1.0

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Job Number: 500-6438-1

Client Sample ID: WS118
Lab Sample ID: 500-6438-18

Date Sampled: 09/06/2007 1310
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0603		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.0018	mg/wipe	0.00050	0.00050	1.0

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Job Number: 500-6438-1

Client Sample ID: WS119
Lab Sample ID: 500-6438-19

Date Sampled: 09/06/2007 1315
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0610		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.027	mg/wipe	0.00050	0.00050	1.0

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Job Number: 500-6438-1

Client Sample ID: WS120
Lab Sample ID: 500-6438-20

Date Sampled: 09/06/2007 1320
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0617		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.0027	mg/wipe	0.00050	0.00050	1.0

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Job Number: 500-6438-1

Client Sample ID: WS121
Lab Sample ID: 500-6438-21

Date Sampled: 09/06/2007 1330
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0046		
Prep Method: 3050B		Date Prepared:	09/17/2007 0815		
Lead	0.022	mg/wipe	0.00050	0.00050	1.0

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Job Number: 500-6438-1

Client Sample ID: WS122
Lab Sample ID: 500-6438-22

Date Sampled: 09/06/2007 1350
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 1530		
Prep Method: 3050B		Date Prepared:	09/17/2007 0815		
Lead	41	mg/wipe	0.050	0.050	100

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Job Number: 500-6438-1

Client Sample ID: WS123
Lab Sample ID: 500-6438-23

Date Sampled: 09/06/2007 1400
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 1537		
Prep Method: 3050B		Date Prepared:	09/17/2007 0815		
Lead	25	mg/wipe	0.050	0.050	100

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Job Number: 500-6438-1

Client Sample ID: WS124
Lab Sample ID: 500-6438-24

Date Sampled: 09/06/2007 1420
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0114		
Prep Method: 3050B		Date Prepared:	09/17/2007 0815		
Lead	0.17	mg/wipe	0.00050	0.00050	1.0

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Job Number: 500-6438-1

Client Sample ID: WS125
Lab Sample ID: 500-6438-25

Date Sampled: 09/06/2007 1430
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0126		
Prep Method: 3050B		Date Prepared:	09/17/2007 0815		
Lead	1.8	mg/wipe	0.00050	0.00050	1.0

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Job Number: 500-6438-1

Client Sample ID: WS126
Lab Sample ID: 500-6438-26

Date Sampled: 09/06/2007 1440
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0133		
Prep Method: 3050B		Date Prepared:	09/17/2007 0815		
Lead	0.15	mg/wipe	0.00050	0.00050	1.0

DATA REPORTING QUALIFIERS

Client: SCS Engineers Job Number: 500-6438-1

Lab Section	Qualifier	Description
Metals		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: SCS Engineers Job Number: 500-6438-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 500-22552					
LCS 500-22552/2-A	Lab Control Spike	T	Wipe	3050B	
LCSD 500-22552/3-A	Lab Control Spike Duplicate	T	Wipe	3050B	
MB 500-22552/1-A	Method Blank	T	Wipe	3050B	
500-6438-1	WS101	T	Wipe	3050B	
500-6438-2	WS102	T	Wipe	3050B	
500-6438-3	WS103	T	Wipe	3050B	
500-6438-4	WS104	T	Wipe	3050B	
500-6438-5	WS105	T	Wipe	3050B	
500-6438-6	WS106	T	Wipe	3050B	
500-6438-7	WS107	T	Wipe	3050B	
500-6438-8	WS108	T	Wipe	3050B	
500-6438-9	WS109	T	Wipe	3050B	
500-6438-10	WS110	T	Wipe	3050B	
500-6438-11	WS111	T	Wipe	3050B	
500-6438-12	WS112	T	Wipe	3050B	
500-6438-13	WS113	T	Wipe	3050B	
500-6438-14	WS114	T	Wipe	3050B	
500-6438-15	WS115	T	Wipe	3050B	
500-6438-16	WS116	T	Wipe	3050B	
500-6438-17	WS117	T	Wipe	3050B	
500-6438-18	WS118	T	Wipe	3050B	
500-6438-19	WS119	T	Wipe	3050B	
500-6438-20	WS120	T	Wipe	3050B	
Prep Batch: 500-22656					
LCS 500-22656/2-A	Lab Control Spike	T	Wipe	3050B	
LCSD 500-22656/3-A	Lab Control Spike Duplicate	T	Wipe	3050B	
MB 500-22656/1-A	Method Blank	T	Wipe	3050B	
500-6438-21	WS121	T	Wipe	3050B	
500-6438-22	WS122	T	Wipe	3050B	
500-6438-23	WS123	T	Wipe	3050B	
500-6438-24	WS124	T	Wipe	3050B	
500-6438-25	WS125	T	Wipe	3050B	
500-6438-26	WS126	T	Wipe	3050B	

Client: SCS Engineers Job Number: 500-6438-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:500-22964					
LCS 500-22552/2-A	Lab Control Spike	T	Wipe	6010B	500-22552
LCSD 500-22552/3-A	Lab Control Spike Duplicate	T	Wipe	6010B	500-22552
MB 500-22552/1-A	Method Blank	T	Wipe	6010B	500-22552
LCS 500-22656/2-A	Lab Control Spike	T	Wipe	6010B	500-22656
LCSD 500-22656/3-A	Lab Control Spike Duplicate	T	Wipe	6010B	500-22656
MB 500-22656/1-A	Method Blank	T	Wipe	6010B	500-22656
500-6438-1	WS101	T	Wipe	6010B	500-22552
500-6438-2	WS102	T	Wipe	6010B	500-22552
500-6438-3	WS103	T	Wipe	6010B	500-22552
500-6438-4	WS104	T	Wipe	6010B	500-22552
500-6438-5	WS105	T	Wipe	6010B	500-22552
500-6438-6	WS106	T	Wipe	6010B	500-22552
500-6438-7	WS107	T	Wipe	6010B	500-22552
500-6438-8	WS108	T	Wipe	6010B	500-22552
500-6438-9	WS109	T	Wipe	6010B	500-22552
500-6438-10	WS110	T	Wipe	6010B	500-22552
500-6438-11	WS111	T	Wipe	6010B	500-22552
500-6438-12	WS112	T	Wipe	6010B	500-22552
500-6438-13	WS113	T	Wipe	6010B	500-22552
500-6438-14	WS114	T	Wipe	6010B	500-22552
500-6438-15	WS115	T	Wipe	6010B	500-22552
500-6438-16	WS116	T	Wipe	6010B	500-22552
500-6438-17	WS117	T	Wipe	6010B	500-22552
500-6438-18	WS118	T	Wipe	6010B	500-22552
500-6438-19	WS119	T	Wipe	6010B	500-22552
500-6438-20	WS120	T	Wipe	6010B	500-22552
500-6438-21	WS121	T	Wipe	6010B	500-22656
500-6438-24	WS124	T	Wipe	6010B	500-22656
500-6438-25	WS125	T	Wipe	6010B	500-22656
500-6438-26	WS126	T	Wipe	6010B	500-22656
Analysis Batch:500-23047					
MRL 500-23047/17	Method Reporting Limit Check	T	Wipe	6010B	
500-6438-22	WS122	T	Wipe	6010B	500-22656
500-6438-23	WS123	T	Wipe	6010B	500-22656

Report Basis
T = Total

Client: SCS Engineers

Job Number: 500-6438-1

Method Blank - Batch: 500-22552

Method: 6010B
Preparation: 3050B

Lab Sample ID: MB 500-22552/1-A
Client Matrix: Wipe
Dilution: 1.0
Date Analyzed: 09/21/2007 0205
Date Prepared: 09/14/2007 0945

Analysis Batch: 500-22964
Prep Batch: 500-22552
Units: mg/wipe

Instrument ID: TJA ICAP 61E Trace Analy
Lab File ID: P40920B
Initial Weight/Volume: 1.0000 Wipe
Final Weight/Volume: 100 mL

Analyte	Result	Qual	MDL	RL
Lead	<0.00050		0.00050	0.00050

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 500-22552

Method: 6010B
Preparation: 3050B

LCS Lab Sample ID: LCS 500-22552/2-A
Client Matrix: Wipe
Dilution: 1.0
Date Analyzed: 09/21/2007 0212
Date Prepared: 09/14/2007 0945

Analysis Batch: 500-22964
Prep Batch: 500-22552
Units: mg/wipe

Instrument ID: TJA ICAP 61E Trace Analy
Lab File ID: P40920B
Initial Weight/Volume: 1.0000 Wipe
Final Weight/Volume: 100 mL

LCSD Lab Sample ID: LCSD 500-22552/3-A
Client Matrix: Wipe
Dilution: 1.0
Date Analyzed: 09/21/2007 0219
Date Prepared: 09/14/2007 0945

Analysis Batch: 500-22964
Prep Batch: 500-22552
Units: mg/wipe

Instrument ID: TJA ICAP 61E Trace Ana
Lab File ID: P40920B
Initial Weight/Volume: 1.0000 Wipe
Final Weight/Volume: 100 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Lead	96	96	80 - 120	0	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: SCS Engineers

Job Number: 500-6438-1

Method Blank - Batch: 500-22656

Method: 6010B
Preparation: 3050B

Lab Sample ID: MB 500-22656/1-A
Client Matrix: Wipe
Dilution: 1.0
Date Analyzed: 09/21/2007 0025
Date Prepared: 09/17/2007 0815

Analysis Batch: 500-22964
Prep Batch: 500-22656
Units: mg/wipe

Instrument ID: TJA ICAP 61E Trace Analy
Lab File ID: P40920B
Initial Weight/Volume: 1.0000 Wipe
Final Weight/Volume: 100 mL

Analyte	Result	Qual	MDL	RL
Lead	<0.00050		0.00050	0.00050

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 500-22656

Method: 6010B
Preparation: 3050B

LCS Lab Sample ID: LCS 500-22656/2-A
Client Matrix: Wipe
Dilution: 1.0
Date Analyzed: 09/21/2007 0032
Date Prepared: 09/17/2007 0815

Analysis Batch: 500-22964
Prep Batch: 500-22656
Units: mg/wipe

Instrument ID: TJA ICAP 61E Trace Analy
Lab File ID: P40920B
Initial Weight/Volume: 1.0000 Wipe
Final Weight/Volume: 100 mL

LCSD Lab Sample ID: LCSD 500-22656/3-A
Client Matrix: Wipe
Dilution: 1.0
Date Analyzed: 09/21/2007 0039
Date Prepared: 09/17/2007 0815

Analysis Batch: 500-22964
Prep Batch: 500-22656
Units: mg/wipe

Instrument ID: TJA ICAP 61E Trace Ana
Lab File ID: P40920B
Initial Weight/Volume: 1.0000 Wipe
Final Weight/Volume: 100 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Lead	97	96	80 - 120	2	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: SCS Engineers

Job Number: 500-6438-1

Method Reporting Limit Check - Batch: 500-23047

Method: 6010B
Preparation: N/A

Lab Sample ID: MRL 500-23047/17
Client Matrix: Wipe
Dilution: 1.0
Date Analyzed: 09/21/2007 1316
Date Prepared: N/A

Analysis Batch: 500-23047
Prep Batch: N/A
Units: mg/L

Instrument ID: TJA ICAP 61E Trace Analy
Lab File ID: P40921A
Initial Weight/Volume: mL
Final Weight/Volume: 1 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Lead	0.00500	0.00463	93	70 - 130	J

Calculations are performed before rounding to avoid round-off errors in calculated results.

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

500-6438

STL-4124 (0901)

09/24/2007

Client	Project Manager	Date	Chain of Custody Number
SLS Engineers	Jerrett Dowling	9-7-07	360061
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 3**
10975 El Monte, Ste 100	913-451-7510		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Overland Park / KS / 66211		Dick Wright	
Project Name and Location (State)	**Carrier/Waybill Number**		
GSA SLDP St. Louis, MO			
Contract/Purchase Order/Quote No.			
08			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil	Lead	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH	Lead	Special Instructions/ Conditions of Receipt
1 WS101	9-6-07	10:45					X	X						X	
2 WS102		10:55					X	X						X	
3 WS103		11:5					X	X						X	
4 WS104		11:15					X	X						X	
5 WS105		11:25					X	X						X	
6 WS106		11:30					X	X						X	
7 WS107		11:35					X	X						X	
8 WS108		11:40					X	X						X	
9 WS109		11:45					X	X						X	
10 WS110		11:50					X	X						X	
11 WS111		12:20					X	X						X	
12 WS112		12:25					X	X						X	

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other Standard

QC Requirements (Specify): Level II Data Package

1. Relinquished By	Date	Time	1. Received By	Date	Time
(b)(6)	9-7-07	9:00	(b)(6)	9/8/07	0945
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Returned to Client with Report CANARY - Stays with the Sample PINK - Field Copy

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

500-6438

09/24/2007

STL-4124 (0901)

Client	Project Manager	Date	Chain of Custody Number
SCS Engineers	Jerrett Dowling	9-7-07	360062
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 3**
10975 El Monte, Ste 100	913-451-7510		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Overland Park / KS / 66211		Dick Wright	
Project Name and Location (State)	**Carrier/Waybill Number**		
GSA SLOP St. Louis, MO			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil	Water	Containers & Preservatives: Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): Lead	Special Instructions/ Conditions of Receipt
13 WS113	9-6-07	12:40					X	X						X	
14 WS114		12:50													
15 WS115		12:55													
16 WS116		1:00													
17 WS117		1:05													
18 WS118		1:10													
19 WS119		1:15													
20 WS120		1:20													
21 WS121		1:30													
22 WS122		1:50													
23 WS123		2:00													
24 WS124		2:20													

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other Standard

QC Requirements (Specify)

	Date	Time		Date	Time
[redacted] (b)(6)	9-7-07	9:00	1. Received By [redacted] (b)(6)	9/8/07	0945
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Returned to Client with Report CANARY - Stays with the Sample; PINK - Field Copy

Page 40 of 42

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

500-6438

09/24/2007

STL-4124 (0901)

Client	Project Manager	Date	Chain of Custody Number
SLS Engineers	Jerrett Dorling	9-7-07	360063
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 3 of 3**
10975 Elmont, Ste 100	913-451-7510		
City / State / Zip Code	**Site Contact**	**Lab Contact**	
Overland Park / KS / 66211		Dick Wright	
Project Name and Location (State)	**Carrier/Waybill Number**		
GSA SLOP St. Louis, MO			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Soil	Soil	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt
25 WS125	9-6-07	2:30				X	X						X	
26 WS126	↓	2:40				X	X						X	

Page 41 of 42

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other Standard

QC Requirements (Specify)

	Date	Time		Date	Time
[redacted] (b) (6)	9-7-07	9:00	1. Received By [redacted] (b) (6)	9/10/07	0945
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Check List

Client: SCS Engineers

Job Number: 500-6438-1

Login Number: 6438
List Source: TestAmerica Chicago
Creator: Lunt, Jeff T
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	3.2
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Asbestos • Lead • Environmental • Materials & Indoor Air Analysis

EMSL Analytical, Inc.

11040A Lin-Valle Drive Saint Louis, MO 63123
Phone: (856) 858-4800 Fax: (314) 84-56459
Web: Email: saintlouislab@emsl.com

FACSIMILE TRANSMITTAL SHEET

To: Jerrett Domling
Company: SCS Engineers
Fax Number: (913) 451-7513
Phone Number: (913) 451-7510

From: EMSL Analytical, Inc.
Date: September 18, 2007
PAGES INCLUDING COVER: 2

RE: Analysis Results for Order(s) 390704319
The following report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on the following date(s):
9/11/2007 9:20:00AM

Notice: **If you are not the stated recipient of this fax and have received this in error, please discard immediately and contact EMSL Analytical at the phone number listed above.**

EMSL Analytical, Inc. News

EMSL PRODUCTS MONTHLY SPECIALS

Air-o-Cell (50pk) $199.00

PCM Cassettes $24(10+bx)
TEM Cassettes $39(10+bx)

PUMP BLOWOUT SALE

EMSL E-Lite Pump $159
EMSL H/D Diaphragm Pump $169
Rotary Vane Sampling Pump $189

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Atrix Portable HEPA Vacuum $225

1-888-958-8170 East Coast
1-888-455-3657 West Coast

Training - $199 Per Person

Indoor Air Quality and Industrial Hygiene Sampling Workshop
Ann Arbor, MI .....September 20, 2007
Greensboro, NC.....October 4, 2007
Houston, TX.....November 1, 2007
Baton Rouge, LA.....November 29, 2007
Charlestone, SC.....December 6, 2007
Minneapolis, MN.....TBA
Tampa, FL.....TBA

Allergens, Asthma Triggers & ERMI / ARMI Mold Sampling
Irvine, CA .....October 24, 2007

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Register Now!

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Radon Testing Now Available!
MRSA (Environmental only)
Legionella -*FREE Sampling Bottles*
Food Microbiology
Hexavalent Chromium
Asbestos in Soils / Vermiculite

PLM Gravimetric Reduction
Gravimetric reduction is a cost effective add-on to a bulk asbestos sample. This addition helps remove many of the matrices present in building materials that can mask or interfere with the ability to identify and quantify asbestos content. This is a key addition to overcome false negatives, especially in floor tiles, mastics, caulking, plaster, or roofing materials. There are several options available to add gravimetric reduction to: PLM, PLM Point Count, or TEM.

1-800-220-3675 East Coast
1-888-455-3675 West Coast

If you have any questions, please do not hesitate to contact us at (856) 858-4800.

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CERTIFICATIONS OF ACCREDITATIONS AND CHAIN OF CUSTODY FORMS

EMSL Analytical, Inc.
11040A Lin-Valle Drive, Saint Louis, MO 63123
Phone: (856) 858-4800 Fax: (14) 845-6459 Email: saintlouislab@emsl.com

Attn: **Jerrett Domling**
SCS Engineers
10975 El Monte
Suite 100
Overland Park, KS 66211

Fax: (913) 451-7513 Phone: (913) 451-7510
Project: **GSA SLOP 002200070.67**

Customer ID: SCSE78
Customer PO: 08-10638
Received: 09/11/07 9:20 AM
EMSL Order: 390704319

EMSL Proj:

Report Date: 9/18/2007

Lead in Wipes by Flame AAS (SW 846 3050B and 7420*)

Lab ID:	Analyzed	Area Sampled	RDL	Lead Concentration	Notes	
0001	0:57:45 AM	15.5 in²	19000	320000 µg/ft²		
Client Sample	WS122				Collected:	9/7/2007
0002	0:58:28 AM	15.5 in²	9300	170000 µg/ft²		
Client Sample	WS123				Collected:	9/7/2007
0003	0:31:33 AM	15.5 in²	93	1200 µg/ft²		
Client Sample	WS124				Collected:	9/7/2007
0004	0:59:11 AM	15.5 in²	930	24000 µg/ft²		
Client Sample	WS125				Collected:	9/7/2007
0005	0:32:58 AM	15.5 in²	93	1200 µg/ft²		
Client Sample	WS126				Collected:	9/7/2007

(b) (6)

Jeff Siria, Laboratory Manager
or other approved signatory

Reporting limit is 10 ug/wipe. The QC data associated with these sample results included in this report meet the method quality control requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected . This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities.

* slight modifications to methods applied Samples received in good condition unless otherwise noted. Quality Control Data associated with this sample set is within acceptable limits, unless otherwise noted

ACCREDITATIONS:AIHA ELLAP Lab # 102636

Date Printed: 9/18/2007 11:12:28 AM

APPENDIX E

AIR MONITORING SUMMARY AND LABORATORY ANALYTICAL DATA (PROVIDED BY GSA)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 500-6438-1

Job Description: Army Reserve Sites

For:
SCS Engineers
10975 El Monte,
Suite 100
Overland Park, KS 66211

Attention: Deborah English

(b) (6)

Richard C Wright
Project Manager II
richard.wright@testamericainc.com
09/24/2007

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID# is 100201.

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

Metals
No analytical or quality issues were noted.

METHOD SUMMARY

Client: SCS Engineers Job Number: 500-6438-1

Description	Lab Location	Method	Preparation Method
Matrix: Wipe			
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL CHI	SW846 6010B	
Acid Digestion of Sediments, Sludges, and Soils	TAL CHI		SW846 3050B

Lab References:

TAL CHI = TestAmerica Chicago

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: SCS Engineers Job Number: 500-6438-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
500-6438-1	WS101	Wipe	09/06/2007 1045	09/08/2007 0945
500-6438-2	WS102	Wipe	09/06/2007 1055	09/08/2007 0945
500-6438-3	WS103	Wipe	09/06/2007 1105	09/08/2007 0945
500-6438-4	WS104	Wipe	09/06/2007 1115	09/08/2007 0945
500-6438-5	WS105	Wipe	09/06/2007 1125	09/08/2007 0945
500-6438-6	WS106	Wipe	09/06/2007 1130	09/08/2007 0945
500-6438-7	WS107	Wipe	09/06/2007 1135	09/08/2007 0945
500-6438-8	WS108	Wipe	09/06/2007 1140	09/08/2007 0945
500-6438-9	WS109	Wipe	09/06/2007 1145	09/08/2007 0945
500-6438-10	WS110	Wipe	09/06/2007 1150	09/08/2007 0945
500-6438-11	WS111	Wipe	09/06/2007 1220	09/08/2007 0945
500-6438-12	WS112	Wipe	09/06/2007 1225	09/08/2007 0945
500-6438-13	WS113	Wipe	09/06/2007 1240	09/08/2007 0945
500-6438-14	WS114	Wipe	09/06/2007 1250	09/08/2007 0945
500-6438-15	WS115	Wipe	09/06/2007 1255	09/08/2007 0945
500-6438-16	WS116	Wipe	09/06/2007 1300	09/08/2007 0945
500-6438-17	WS117	Wipe	09/06/2007 1305	09/08/2007 0945
500-6438-18	WS118	Wipe	09/06/2007 1310	09/08/2007 0945
500-6438-19	WS119	Wipe	09/06/2007 1315	09/08/2007 0945
500-6438-20	WS120	Wipe	09/06/2007 1320	09/08/2007 0945
500-6438-21	WS121	Wipe	09/06/2007 1330	09/08/2007 0945
500-6438-22	WS122	Wipe	09/06/2007 1350	09/08/2007 0945
500-6438-23	WS123	Wipe	09/06/2007 1400	09/08/2007 0945
500-6438-24	WS124	Wipe	09/06/2007 1420	09/08/2007 0945
500-6438-25	WS125	Wipe	09/06/2007 1430	09/08/2007 0945
500-6438-26	WS126	Wipe	09/06/2007 1440	09/08/2007 0945

SAMPLE RESULTS

Deborah English
SCS Engineers
10975 El Monte,
Suite 100
Overland Park, KS 66211

Job Number: 500-6438-1

Client Sample ID: WS101
Lab Sample ID: 500-6438-1

Date Sampled: 09/06/2007 1045
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0226		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.00089	mg/wipe	0.00050	0.00050	1.0

Deborah English
SCS Engineers
10975 El Monte,
Suite 100
Overland Park, KS 66211

Job Number: 500-6438-1

Client Sample ID: WS102
Lab Sample ID: 500-6438-2

Date Sampled: 09/06/2007 1055
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0240		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.0015	mg/wipe	0.00050	0.00050	1.0

Deborah English
SCS Engineers
10975 El Monte,
Suite 100
Overland Park, KS 66211

Job Number: 500-6438-1

Client Sample ID: WS103
Lab Sample ID: 500-6438-3

Date Sampled: 09/06/2007 1105
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0247		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.0037	mg/wipe	0.00050	0.00050	1.0

Deborah English
SCS Engineers
10975 El Monte,
Suite 100
Overland Park, KS 66211

Job Number: 500-6438-1

Client Sample ID: WS104
Lab Sample ID: 500-6438-4

Date Sampled: 09/06/2007 1115
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0253		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.0021	mg/wipe	0.00050	0.00050	1.0

Deborah English
SCS Engineers
10975 El Monte,
Suite 100
Overland Park, KS 66211

Job Number: 500-6438-1

Client Sample ID: WS105
Lab Sample ID: 500-6438-5

Date Sampled: 09/06/2007 1125
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0300		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.0072	mg/wipe	0.00050	0.00050	1.0

Deborah English
SCS Engineers
10975 El Monte,
Suite 100
Overland Park, KS 66211

Job Number: 500-6438-1

Client Sample ID: WS106
Lab Sample ID: 500-6438-6

Date Sampled: 09/06/2007 1130
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0307		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.0028	mg/wipe	0.00050	0.00050	1.0

Deborah English
SCS Engineers
10975 El Monte,
Suite 100
Overland Park, KS 66211

Job Number: 500-6438-1

Client Sample ID: WS107
Lab Sample ID: 500-6438-7

Date Sampled: 09/06/2007 1135
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0421		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.0019	mg/wipe	0.00050	0.00050	1.0

Deborah English
SCS Engineers
10975 El Monte,
Suite 100
Overland Park, KS 66211

Job Number: 500-6438-1

Client Sample ID: WS108
Lab Sample ID: 500-6438-8

Date Sampled: 09/06/2007 1140
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0428		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.0040	mg/wipe	0.00050	0.00050	1.0

Deborah English
SCS Engineers
10975 El Monte,
Suite 100
Overland Park, KS 66211

Job Number: 500-6438-1

Client Sample ID: WS109
Lab Sample ID: 500-6438-9

Date Sampled: 09/06/2007 1145
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0435		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.0020	mg/wipe	0.00050	0.00050	1.0

Deborah English
SCS Engineers
10975 El Monte,
Suite 100
Overland Park, KS 66211

Job Number: 500-6438-1

Client Sample ID: WS110
Lab Sample ID: 500-6438-10

Date Sampled: 09/06/2007 1150
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0442		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.0055	mg/wipe	0.00050	0.00050	1.0

Deborah English
SCS Engineers
10975 El Monte,
Suite 100
Overland Park, KS 66211

Job Number: 500-6438-1

Client Sample ID: WS111
Lab Sample ID: 500-6438-11

Date Sampled: 09/06/2007 1220
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0449		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.015	mg/wipe	0.00050	0.00050	1.0

Deborah English
SCS Engineers
10975 El Monte,
Suite 100
Overland Park, KS 66211

Job Number: 500-6438-1

Client Sample ID: WS112
Lab Sample ID: 500-6438-12

Date Sampled: 09/06/2007 1225
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0456		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.0026	mg/wipe	0.00050	0.00050	1.0

Deborah English
SCS Engineers
10975 El Monte,
Suite 100
Overland Park, KS 66211

Job Number: 500-6438-1

Client Sample ID: WS113
Lab Sample ID: 500-6438-13

Date Sampled: 09/06/2007 1240
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0503		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.0053	mg/wipe	0.00050	0.00050	1.0

Deborah English
SCS Engineers
10975 El Monte,
Suite 100
Overland Park, KS 66211

Job Number: 500-6438-1

Client Sample ID: WS114
Lab Sample ID: 500-6438-14

Date Sampled: 09/06/2007 1250
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0510		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.0021	mg/wipe	0.00050	0.00050	1.0

Deborah English
SCS Engineers
10975 El Monte,
Suite 100
Overland Park, KS 66211

Job Number: 500-6438-1

Client Sample ID: WS115
Lab Sample ID: 500-6438-15

Date Sampled: 09/06/2007 1255
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0517		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	<0.00050	mg/wipe	0.00050	0.00050	1.0

Deborah English
SCS Engineers
10975 El Monte,
Suite 100
Overland Park, KS 66211

Job Number: 500-6438-1

Client Sample ID: WS116
Lab Sample ID: 500-6438-16

Date Sampled: 09/06/2007 1300
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0524		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.00078	mg/wipe	0.00050	0.00050	1.0

Deborah English
SCS Engineers
10975 El Monte,
Suite 100
Overland Park, KS 66211

Job Number: 500-6438-1

Client Sample ID: WS117
Lab Sample ID: 500-6438-17

Date Sampled: 09/06/2007 1305
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0556		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.00073	mg/wipe	0.00050	0.00050	1.0

Deborah English
SCS Engineers
10975 El Monte,
Suite 100
Overland Park, KS 66211

Job Number: 500-6438-1

Client Sample ID: WS118
Lab Sample ID: 500-6438-18

Date Sampled: 09/06/2007 1310
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0603		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.0018	mg/wipe	0.00050	0.00050	1.0

Deborah English
SCS Engineers
10975 El Monte,
Suite 100
Overland Park, KS 66211

Job Number: 500-6438-1

Client Sample ID: WS119
Lab Sample ID: 500-6438-19

Date Sampled: 09/06/2007 1315
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0610		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.027	mg/wipe	0.00050	0.00050	1.0

Deborah English
SCS Engineers
10975 El Monte,
Suite 100
Overland Park, KS 66211

Job Number: 500-6438-1

Client Sample ID: WS120
Lab Sample ID: 500-6438-20

Date Sampled: 09/06/2007 1320
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0617		
Prep Method: 3050B		Date Prepared:	09/14/2007 0945		
Lead	0.0027	mg/wipe	0.00050	0.00050	1.0

Deborah English
SCS Engineers
10975 El Monte,
Suite 100
Overland Park, KS 66211

Job Number: 500-6438-1

Client Sample ID: WS121
Lab Sample ID: 500-6438-21

Date Sampled: 09/06/2007 1330
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0046		
Prep Method: 3050B		Date Prepared:	09/17/2007 0815		
Lead	0.022	mg/wipe	0.00050	0.00050	1.0

Deborah English
SCS Engineers
10975 El Monte,
Suite 100
Overland Park, KS 66211

Job Number: 500-6438-1

Client Sample ID: WS122
Lab Sample ID: 500-6438-22

Date Sampled: 09/06/2007 1350
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 1530		
Prep Method: 3050B		Date Prepared:	09/17/2007 0815		
Lead	41	mg/wipe	0.050	0.050	100

Deborah English
SCS Engineers
10975 El Monte,
Suite 100
Overland Park, KS 66211

Job Number: 500-6438-1

Client Sample ID: WS123
Lab Sample ID: 500-6438-23

Date Sampled: 09/06/2007 1400
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 1537		
Prep Method: 3050B		Date Prepared:	09/17/2007 0815		
Lead	25	mg/wipe	0.050	0.050	100

Deborah English
SCS Engineers
10975 El Monte,
Suite 100
Overland Park, KS 66211

Job Number: 500-6438-1

Client Sample ID: WS124
Lab Sample ID: 500-6438-24

Date Sampled: 09/06/2007 1420
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0114		
Prep Method: 3050B		Date Prepared:	09/17/2007 0815		
Lead	0.17	mg/wipe	0.00050	0.00050	1.0

Deborah English
SCS Engineers
10975 El Monte,
Suite 100
Overland Park, KS 66211

Job Number: 500-6438-1

Client Sample ID: WS125
Lab Sample ID: 500-6438-25

Date Sampled: 09/06/2007 1430
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0126		
Prep Method: 3050B		Date Prepared:	09/17/2007 0815		
Lead	1.8	mg/wipe	0.00050	0.00050	1.0

Deborah English
SCS Engineers
10975 El Monte,
Suite 100
Overland Park, KS 66211

Job Number: 500-6438-1

Client Sample ID: WS126
Lab Sample ID: 500-6438-26

Date Sampled: 09/06/2007 1440
Date Received: 09/08/2007 0945
Client Matrix: Wipe

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 6010B		Date Analyzed:	09/21/2007 0133		
Prep Method: 3050B		Date Prepared:	09/17/2007 0815		
Lead	0.15	mg/wipe	0.00050	0.00050	1.0

DATA REPORTING QUALIFIERS

Client: SCS Engineers Job Number: 500-6438-1

Lab Section	Qualifier	Description
Metals		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: SCS Engineers Job Number: 500-6438-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 500-22552					
LCS 500-22552/2-A	Lab Control Spike	T	Wipe	3050B	
LCSD 500-22552/3-A	Lab Control Spike Duplicate	T	Wipe	3050B	
MB 500-22552/1-A	Method Blank	T	Wipe	3050B	
500-6438-1	WS101	T	Wipe	3050B	
500-6438-2	WS102	T	Wipe	3050B	
500-6438-3	WS103	T	Wipe	3050B	
500-6438-4	WS104	T	Wipe	3050B	
500-6438-5	WS105	T	Wipe	3050B	
500-6438-6	WS106	T	Wipe	3050B	
500-6438-7	WS107	T	Wipe	3050B	
500-6438-8	WS108	T	Wipe	3050B	
500-6438-9	WS109	T	Wipe	3050B	
500-6438-10	WS110	T	Wipe	3050B	
500-6438-11	WS111	T	Wipe	3050B	
500-6438-12	WS112	T	Wipe	3050B	
500-6438-13	WS113	T	Wipe	3050B	
500-6438-14	WS114	T	Wipe	3050B	
500-6438-15	WS115	T	Wipe	3050B	
500-6438-16	WS116	T	Wipe	3050B	
500-6438-17	WS117	T	Wipe	3050B	
500-6438-18	WS118	T	Wipe	3050B	
500-6438-19	WS119	T	Wipe	3050B	
500-6438-20	WS120	T	Wipe	3050B	
Prep Batch: 500-22656					
LCS 500-22656/2-A	Lab Control Spike	T	Wipe	3050B	
LCSD 500-22656/3-A	Lab Control Spike Duplicate	T	Wipe	3050B	
MB 500-22656/1-A	Method Blank	T	Wipe	3050B	
500-6438-21	WS121	T	Wipe	3050B	
500-6438-22	WS122	T	Wipe	3050B	
500-6438-23	WS123	T	Wipe	3050B	
500-6438-24	WS124	T	Wipe	3050B	
500-6438-25	WS125	T	Wipe	3050B	
500-6438-26	WS126	T	Wipe	3050B	

Client: SCS Engineers Job Number: 500-6438-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:500-22964					
LCS 500-22552/2-A	Lab Control Spike	T	Wipe	6010B	500-22552
LCSD 500-22552/3-A	Lab Control Spike Duplicate	T	Wipe	6010B	500-22552
MB 500-22552/1-A	Method Blank	T	Wipe	6010B	500-22552
LCS 500-22656/2-A	Lab Control Spike	T	Wipe	6010B	500-22656
LCSD 500-22656/3-A	Lab Control Spike Duplicate	T	Wipe	6010B	500-22656
MB 500-22656/1-A	Method Blank	T	Wipe	6010B	500-22656
500-6438-1	WS101	T	Wipe	6010B	500-22552
500-6438-2	WS102	T	Wipe	6010B	500-22552
500-6438-3	WS103	T	Wipe	6010B	500-22552
500-6438-4	WS104	T	Wipe	6010B	500-22552
500-6438-5	WS105	T	Wipe	6010B	500-22552
500-6438-6	WS106	T	Wipe	6010B	500-22552
500-6438-7	WS107	T	Wipe	6010B	500-22552
500-6438-8	WS108	T	Wipe	6010B	500-22552
500-6438-9	WS109	T	Wipe	6010B	500-22552
500-6438-10	WS110	T	Wipe	6010B	500-22552
500-6438-11	WS111	T	Wipe	6010B	500-22552
500-6438-12	WS112	T	Wipe	6010B	500-22552
500-6438-13	WS113	T	Wipe	6010B	500-22552
500-6438-14	WS114	T	Wipe	6010B	500-22552
500-6438-15	WS115	T	Wipe	6010B	500-22552
500-6438-16	WS116	T	Wipe	6010B	500-22552
500-6438-17	WS117	T	Wipe	6010B	500-22552
500-6438-18	WS118	T	Wipe	6010B	500-22552
500-6438-19	WS119	T	Wipe	6010B	500-22552
500-6438-20	WS120	T	Wipe	6010B	500-22552
500-6438-21	WS121	T	Wipe	6010B	500-22656
500-6438-24	WS124	T	Wipe	6010B	500-22656
500-6438-25	WS125	T	Wipe	6010B	500-22656
500-6438-26	WS126	T	Wipe	6010B	500-22656
Analysis Batch:500-23047					
MRL 500-23047/17	Method Reporting Limit Check	T	Wipe	6010B	
500-6438-22	WS122	T	Wipe	6010B	500-22656
500-6438-23	WS123	T	Wipe	6010B	500-22656

Report Basis
T = Total

Client: SCS Engineers

Job Number: 500-6438-1

Method Blank - Batch: 500-22552

Method: 6010B
Preparation: 3050B

Lab Sample ID: MB 500-22552/1-A
Client Matrix: Wipe
Dilution: 1.0
Date Analyzed: 09/21/2007 0205
Date Prepared: 09/14/2007 0945

Analysis Batch: 500-22964
Prep Batch: 500-22552
Units: mg/wipe

Instrument ID: TJA ICAP 61E Trace Analy
Lab File ID: P40920B
Initial Weight/Volume: 1.0000 Wipe
Final Weight/Volume: 100 mL

Analyte	Result	Qual	MDL	RL
Lead	<0.00050		0.00050	0.00050

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 500-22552

Method: 6010B
Preparation: 3050B

LCS Lab Sample ID: LCS 500-22552/2-A
Client Matrix: Wipe
Dilution: 1.0
Date Analyzed: 09/21/2007 0212
Date Prepared: 09/14/2007 0945

Analysis Batch: 500-22964
Prep Batch: 500-22552
Units: mg/wipe

Instrument ID: TJA ICAP 61E Trace Analy
Lab File ID: P40920B
Initial Weight/Volume: 1.0000 Wipe
Final Weight/Volume: 100 mL

LCSD Lab Sample ID: LCSD 500-22552/3-A
Client Matrix: Wipe
Dilution: 1.0
Date Analyzed: 09/21/2007 0219
Date Prepared: 09/14/2007 0945

Analysis Batch: 500-22964
Prep Batch: 500-22552
Units: mg/wipe

Instrument ID: TJA ICAP 61E Trace Ana
Lab File ID: P40920B
Initial Weight/Volume: 1.0000 Wipe
Final Weight/Volume: 100 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Lead	96	96	80 - 120	0	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: SCS Engineers

Job Number: 500-6438-1

Method Blank - Batch: 500-22656

Method: 6010B
Preparation: 3050B

Lab Sample ID: MB 500-22656/1-A
Client Matrix: Wipe
Dilution: 1.0
Date Analyzed: 09/21/2007 0025
Date Prepared: 09/17/2007 0815

Analysis Batch: 500-22964
Prep Batch: 500-22656
Units: mg/wipe

Instrument ID: TJA ICAP 61E Trace Analy
Lab File ID: P40920B
Initial Weight/Volume: 1.0000 Wipe
Final Weight/Volume: 100 mL

Analyte	Result	Qual	MDL	RL
Lead	<0.00050		0.00050	0.00050

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 500-22656

Method: 6010B
Preparation: 3050B

LCS Lab Sample ID: LCS 500-22656/2-A
Client Matrix: Wipe
Dilution: 1.0
Date Analyzed: 09/21/2007 0032
Date Prepared: 09/17/2007 0815

Analysis Batch: 500-22964
Prep Batch: 500-22656
Units: mg/wipe

Instrument ID: TJA ICAP 61E Trace Analy
Lab File ID: P40920B
Initial Weight/Volume: 1.0000 Wipe
Final Weight/Volume: 100 mL

LCSD Lab Sample ID: LCSD 500-22656/3-A
Client Matrix: Wipe
Dilution: 1.0
Date Analyzed: 09/21/2007 0039
Date Prepared: 09/17/2007 0815

Analysis Batch: 500-22964
Prep Batch: 500-22656
Units: mg/wipe

Instrument ID: TJA ICAP 61E Trace Ana
Lab File ID: P40920B
Initial Weight/Volume: 1.0000 Wipe
Final Weight/Volume: 100 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Lead	97	96	80 - 120	2	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: SCS Engineers

Job Number: 500-6438-1

Method Reporting Limit Check - Batch: 500-23047

Method: 6010B
Preparation: N/A

Lab Sample ID: MRL 500-23047/17
Client Matrix: Wipe
Dilution: 1.0
Date Analyzed: 09/21/2007 1316
Date Prepared: N/A

Analysis Batch: 500-23047
Prep Batch: N/A
Units: mg/L

Instrument ID: TJA ICAP 61E Trace Analy
Lab File ID: P40921A
Initial Weight/Volume: mL
Final Weight/Volume: 1 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Lead	0.00500	0.00463	93	70 - 130	J

Calculations are performed before rounding to avoid round-off errors in calculated results.

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

500-6438

09/24/2007

Client	Project Manager	Date	Chain of Custody Number
SLS Engineers	Jerrett Dowling	9-7-07	360061
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 3**
10975 El Monte, Ste 100	913-451-7510		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Overland Park / KS / 66211		Dick Wright	
Project Name and Location (State)	**Carrier/Waybill Number**		
GSA SLDP St. Louis, MO			
Contract/Purchase Order/Quote No.			
08			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil	Lube	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH	Analysis: Lead	Special Instructions/ Conditions of Receipt
1 WS101	9-6-07	10:45					X	X						X	
2 WS102		10:55					X	X						X	
3 WS103		11:05					X	X						X	
4 WS104		11:15					X	X						X	
5 WS105		11:25					X	X						X	
6 WS106		11:30					X	X						X	
7 WS107		11:35					X	X						X	
8 WS108		11:40					X	X						X	
9 WS109		11:45					X	X						X	
10 WS110		11:50					X	X						X	
11 WS111		12:20					X	X						X	
12 WS112		12:25					X	X						X	

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☐ 14 Days ☐ 21 Days ☒ Other Standard

QC Requirements (Specify): Level II Data Package

	Date	Time		Date	Time
(b) (6)	9-7-07	9:00	1. Received By (b) (6)	9/8/07	0945
			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report CANARY - Stays with the Sample PINK - Field Copy

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

500-6438

09/24/2007

STL-4124 (0901)

Client	Project Manager	Date	Chain of Custody Number
SCS Engineers	Jerrett Dowling	9-7-07	360062
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 3**
10975 El Monte, Ste 100	913-451-7510		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Overland Park / KS / 66211		Dick Wright	
Project Name and Location (State)	**Carrier/Waybill Number**		
GSA SLOP St. Louis, MO			
Contract/Purchase Order/Quote No.			

Analysis (Attach list if more space is needed)

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil	Water	Containers & Preservatives: Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Lead
13 WS113	9-6-07	12:40					X	X						X
14 WS114		12:50					X	X						X
15 WS115		12:55					X	X						X
16 WS116		1:00					X	X						X
17 WS117		1:05					X	X						X
18 WS118		1:10					X	X						X
19 WS119		1:15					X	X						X
20 WS120		1:20					X	X						X
21 WS121		1:30					X	X						X
22 WS122		1:50					X	X						X
23 WS123		2:00					X	X						X
24 WS124		2:20					X	X						X

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☐ [redacted] ☐ 14 Days ☐ 21 Days ☒ Other Standard

QC Requirements (Specify)

	Date	Time		Date	Time
(b) (6) [redacted]	9-7-07	9:00	1. Received By (b) (6) [redacted]	9/8/07	0945
	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Returned to Client with Report CANARY - Stays with the Sample; PINK - Field Copy

Page 40 of 42

[redacted]

Chain of Custody Record

STL-4124 (0901)

SEVERN TRENT STL
Severn Trent Laboratories, Inc.

500-6438

Client: SCS Engineers	Project Manager: Jerrett Dorling	Date: 9-7-07	Chain of Custody Number: 360063
Address: 10975 Elmonte, Ste 100	Telephone Number (Area Code)/Fax Number: 913-451-7510	Lab Number	Page 3 of 3
City: Overland Park · State: KS · Zip Code: 66211	Site Contact · Lab Contact: Dick Wright	Analysis (Attach list if more space is needed)	
Project Name and Location (State): GSA SLOP St. Louis, MO	Carrier/Waybill Number		Special Instructions/ Conditions of Receipt
Contract/Purchase Order/Quote No.			

	Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed	Soil	Wipe	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Lead	Special Instructions/ Conditions of Receipt
25	WS125	9-6-07	2:30					X	X							X	
26	WS126	↓	2:40					↓	↓							↓	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ [redacted] ☐ 14 Days ☐ 21 Days ☒ Other Standard

QC Requirements (Specify)

	Date	Time		Date	Time
1. [redacted]	9-7-07	9:00	1. Received By [redacted]	9/8/07	0945
2.			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Check List

Client: SCS Engineers

Job Number: 500-6438-1

Login Number: 6438
List Source: TestAmerica Chicago
Creator: Lunt, Jeff T
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	3.2
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Air Sample Data Sheet

Building 104 1/24/2008 4300 Goodfellow

Sample#	Pump#	Pre-flow	Post-flow	Start	Stop	Flowsum	Avg flow	Run time	Volume	variance	%variance	Location
1-012408	625242	2.17	2.167	7:46	3:50	4.337	2.169	484	1049.6	0.003	0.14	Column D2
2-012408	566811	2.039	2.041	7:49	3:53	4.08	2.040	484	987.4	0.002	0.10	Column G7
3-012408	625362	2.09	2.068	7:51	3:55	4.158	2.079	484	1006.2	0.022	1.06	Column C14
4-012408	16167	2.02	2.042	7:55	3:58	4.078	2.039	483	984.8	0.022	1.08	Column D21
5-012408	16168	2.053	2.025	7:57	4:00	4.078	2.039	483	984.8	0.028	1.37	Column H28
6-012408	3435	2.139	2.116	8:00	4:02	4.091	2.046	482	985.9	0.023	1.12	Column C33
7-012408	6355	2.031	2.06	8:03	4:06	4.091	2.046	483	988.0	0.029	1.42	Column E39
8-012408	787495	2.11	2.055	8:07	4:09	4.165	2.083	482	1003.8	0.055	2.64	Column G41
9-012408	787796	2.149	2.047	8:10	4:11	4.196	2.098	481	1009.1	0.102	4.86	Column F49
10-012408	6560	2.046	2.039	8:13	4:19	4.085	2.043	486	992.7	0.007	0.34	Column D52
11-012408	Blank											
12-012408	Blank											

January 31, 2008

Gary Adams
GENERAL SERVICES ADMINISTRATION
1500 E. Bannister
Kansas, MO 64131-

Bureau Veritas Work Order No. 08010858

Reference: Industrial Hygiene

Dear Gary Adams:

Bureau Veritas North America, Inc. received 12 samples on 1/29/2008 for the analyses presented in the following report.

Enclosed is a copy of the Chain-of-Custody record, acknowledging receipt of these samples. Please note that any unused portion of the samples will be discarded 30 days after the date of this report, unless you have requested otherwise.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number provided below.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact a Client Services Representative at (800) 806-5887.

Sincerely,

(b) (6)

Ellen Corrman
Client Services Representative

cc:

Bureau Veritas North America, Inc.
22345 Roethel Drive
Novi, MI 48375

Main: (248) 344.1770
Fax: (248) 344.2655
www.us.bureauveritas.com

CASE NARRATIVE

Date: *31-Jan-08*

Client: GENERAL SERVICES ADMINISTRATION

Project: Industrial Hygiene

Work Order No 08010858

Unless otherwise noted below, all quality control results associated with this sample set were within acceptable limits and/or do not adversely affect the reported results.

Unless otherwise indicated below, the industrial hygiene results have not been blank corrected.

ANALYTICAL RESULTS

Date: *31-Jan-08*

Client: GENERAL SERVICES ADMINISTRATION

Project: Industrial Hygiene

Work Order No: 08010858

Client ID: 1-012408 **Date Sampled:** 1/24/2008

Lab ID: 001A **DateReceived:** 1/29/2008

Matrix: MCE Filter, .8um **Air Vol.(L):** 1049.6

Analyte	Concentration (µg)	Concentration (mg/m³)	Reporting Limit (µg)	Test Method	Date Analyzed / Analyst
Lead	<1	<0.00095	1	NIOSH 7300	01/30/2008 DH

Client ID: 2-012408 **Date Sampled:** 1/24/2008

Lab ID: 002A **DateReceived:** 1/29/2008

Matrix: MCE Filter, .8um **Air Vol.(L):** 987.4

Analyte	Concentration (µg)	Concentration (mg/m³)	Reporting Limit (µg)	Test Method	Date Analyzed / Analyst
Lead	<1	<0.0010	1	NIOSH 7300	01/30/2008 DH

Client ID: 3-012408 **Date Sampled:** 1/24/2008

Lab ID: 003A **DateReceived:** 1/29/2008

Matrix: MCE Filter, .8um **Air Vol.(L):** 1006.2

Analyte	Concentration (µg)	Concentration (mg/m³)	Reporting Limit (µg)	Test Method	Date Analyzed / Analyst
Lead	<1	<0.00099	1	NIOSH 7300	01/30/2008 DH

Client ID: 4-012408 **Date Sampled:** 1/24/2008

Lab ID: 004A **DateReceived:** 1/29/2008

Matrix: MCE Filter, .8um **Air Vol.(L):** 984.8

Analyte	Concentration (µg)	Concentration (mg/m³)	Reporting Limit (µg)	Test Method	Date Analyzed / Analyst
Lead	<1	<0.0010	1	NIOSH 7300	01/30/2008 DH

ANALYTICAL RESULTS

Date: *31-Jan-08*

Client: GENERAL SERVICES ADMINISTRATION

Project: Industrial Hygiene

Work Order No: 08010858

Client ID: 5-012408 **Date Sampled:** 1/24/2008

Lab ID: 005A **DateReceived:** 1/29/2008

Matrix: MCE Filter, .8um **Air Vol.(L):** 984.8

Analyte	Concentration (µg)	Concentration (mg/m³)	Reporting Limit (µg)	Test Method	Date Analyzed / Analyst
Lead	<1	<0.0010	1	NIOSH 7300	01/30/2008 DH

Client ID: 6-012408 **Date Sampled:** 1/24/2008

Lab ID: 006A **DateReceived:** 1/29/2008

Matrix: MCE Filter, .8um **Air Vol.(L):** 985.9

Analyte	Concentration (µg)	Concentration (mg/m³)	Reporting Limit (µg)	Test Method	Date Analyzed / Analyst
Lead	<1	<0.0010	1	NIOSH 7300	01/30/2008 DH

Client ID: 7-012408 **Date Sampled:** 1/24/2008

Lab ID: 007A **DateReceived:** 1/29/2008

Matrix: MCE Filter, .8um **Air Vol.(L):** 988

Analyte	Concentration (µg)	Concentration (mg/m³)	Reporting Limit (µg)	Test Method	Date Analyzed / Analyst
Lead	<1	<0.0010	1	NIOSH 7300	01/30/2008 DH

Client ID: 8-012408 **Date Sampled:** 1/24/2008

Lab ID: 008A **DateReceived:** 1/29/2008

Matrix: MCE Filter, .8um **Air Vol.(L):** 1003.8

Analyte	Concentration (µg)	Concentration (mg/m³)	Reporting Limit (µg)	Test Method	Date Analyzed / Analyst
Lead	<1	<0.0010	1	NIOSH 7300	01/30/2008 DH

ANALYTICAL RESULTS

Date: *31-Jan-08*

Client: GENERAL SERVICES ADMINISTRATION

Project: Industrial Hygiene

Work Order No: 08010858

Client ID: 9-012408 **Date Sampled:** 1/24/2008

Lab ID: 009A **DateReceived:** 1/29/2008

Matrix: MCE Filter, .8um **Air Vol.(L):** 1009.1

Analyte	Concentration (µg)	Concentration (mg/m³)	Reporting Limit (µg)	Test Method	Date Analyzed / Analyst
Lead	<1	<0.00099	1	NIOSH 7300	01/30/2008 DH

Client ID: 10-012408 **Date Sampled:** 1/24/2008

Lab ID: 010A **DateReceived:** 1/29/2008

Matrix: MCE Filter, .8um **Air Vol.(L):** 992.7

Analyte	Concentration (µg)	Concentration (mg/m³)	Reporting Limit (µg)	Test Method	Date Analyzed / Analyst
Lead	<1	<0.0010	1	NIOSH 7300	01/30/2008 DH

Client ID: 11-012408 **Date Sampled:** 1/24/2008

Lab ID: 011A **DateReceived:** 1/29/2008

Matrix: MCE Filter, .8um **Air Vol.(L):** NA

Analyte	Concentration (µg)	Concentration (mg/m³)	Reporting Limit (µg)	Test Method	Date Analyzed / Analyst
Lead	<1	--	1	NIOSH 7300	01/30/2008 DH

Client ID: 12-012408 **Date Sampled:** 1/24/2008

Lab ID: 012A **DateReceived:** 1/29/2008

Matrix: MCE Filter, .8um **Air Vol.(L):** NA

Analyte	Concentration (µg)	Concentration (mg/m³)	Reporting Limit (µg)	Test Method	Date Analyzed / Analyst
Lead	<1	--	1	NIOSH 7300	01/30/2008 DH

General Notes:
<: Less than the indicated reporting limit (RL).
--: Information not available or not applicable.

Request for Laboratory Analytical Services

IMPORTANT: Date results required: _____

Rush charges authorized? Yes ☐ No ☐

Fax or ☐ E-mail results ☐

E-mail Address: _____

Page: 1

For Lab Use Only

Lab Project No. 08010808

Bureau Veritas North America, Inc.

Report results to:
Name: GARY ADAMS
Company: GSA
Mailing Address: 1500 E. Bannister
City, State, Zip: Kansas City, MO 64131
Telephone No.: (816) 823-1764 Fax No. _____

Client Project Number: _____

Send invoice to:
Name: KEVIN SANTEE
Company: GSA
Address: 1500 E. Bannister
City, State, Zip: Kansas City, MO 64131

P.O. No. _____

Special instructions and/or specific regulatory requirements:
(method, limit of detection, etc.) _____

Soil samples only: Which state are these from? _____

Water samples are:
Drinking water ___
Groundwater ___
Wastewater ___

Enter a "P" here if preservative added. ↓

Client Sample Identification	Date Sampled	Time Sampled	Matrix/Media	Air Volume (Liters)	# of Containers	ANALYSIS REQUESTED (List each analyte on the lines below, multiple analytes per line)
1 - 012408	1/24		37mm 0.8µm MCE	1049.6		Pb (Lead)
2 - 012408				987.4		
3 - 012408				1006.2		
4 - 012408				984.8		
5 - 012408				984.8		
6 - 012408				995.9		
7 - 012408				988.0		
8 - 012408				1003.8		
9 - 012408				1009.1		
10 - 012408				992.7		

Collected by: (b) (6) [redacted] ***Date/Time*** 1/24/08 ***Collector's Signature*** (b) (6) [redacted] ***Date/Time*** 1/24/08

Relinquished by: ***Date/Time*** 1/25/08 ***Received by:*** ***Date/Time*** 1/29/08 10:39

Relinquished by: ***Date/Time*** _____ ***Received by:*** ***Date/Time*** _____

Method of Shipment: _____ ***Sample Condition on Receipt:*** ***Acceptable*** ___ ***Other:*** _____

Authorized by: _____ ***(Explain)*** _____

Date/Time: _____ ***(Signature MUST accompany request!)***

Ship to:

Detroit (IH, Environmental, & Asbestos)
22345 Roethel Drive
Novi, Michigan, 48375
Phone: 248.344.2652, Toll-free 800.806.5887
Fax: 248-344-2655

Visit our Website:
http://labonline.claytongrp.com

Atlanta (Asbestos & Electron Microscopy)
3380 Chastain Meadows Pkwy., Suite 300
Kennesaw, Georgia, 30144
Phone: 770.499.7500, Toll-free 800.252.9919
Fax: 770.499.7511

Request for Laboratory Analytical Services

IMPORTANT: Date results required: _____

Rush charges authorized? Yes ☐ No ☐

Fax or ☐ E-mail results ☐

E-mail Address: _____

Page: 2

For Lab Use Only

Lab Project No. 08010858

Bureau Veritas North America, Inc.

Report results to:
Name _____
Company _____
Mailing Address _____
City, State, Zip _____
Telephone No. _____

Client Project Number: _____

Fax No. _____

Send invoice to:
Name _____
Company _____
Address _____
City, State, Zip _____

P.O. No. _____

Special instructions and/or specific regulatory requirements:
(method, limit of detection, etc.) _____

Soil samples only: Which state are these from? _____

Water samples are:
Drinking water ___
Groundwater ___
Wastewater ___

Enter a "P" here if preservative added.

Client Sample Identification	Date Sampled	Time Sampled	Matrix/Media	Air Volume (Liters)	# of Containers	ANALYSIS REQUESTED (List each analyte on the lines below, multiple analytes per line)
1C-012408						
12-012408						

Collected by: _____ ***Date/Time*** _____
Relinquished by: _____ ***Date/Time*** _____
Relinquished by: _____ ***Date/Time*** _____
Method of Shipment: _____
Authorized by: _____
Date/Time: _____

Collector's Signature: _____ ***Date/Time*** _____
Received by: [redacted] ***Date/Time*** _____
Received by: [redacted] ***Date/Time*** 12/9/08 10:39
Sample Condition on Receipt: _____
Acceptable ___ Other: _____
(Explain) _____

(Signature MUST accompany request!)

Ship to:

Detroit (IH, Environmental, & Asbestos)
22345 Roethel Drive
Novi, Michigan, 48375
Phone: 248.344.2652, Toll-free 800.806.5887
Fax: 248-344-2655

Visit our Website:
http://labonline.claytongrp.com

Atlanta (Asbestos & Electron Microscopy)
3380 Chastain Meadows Pkwy., Suite 300
Kennesaw, Georgia, 30144
Phone: 770.499.7500, Toll-free 800.252.9919
Fax: 770.499.7511

BOX = 293 FT. 4 INCHES X 226 FT. 8 INCHES