

ROY F. WESTON, INC.

DRAFT
Maintenance and Monitoring Plan for
PCB Contamination in the
Heat Treat Building

The Gleason Works
Rochester, New York

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Rochester, New York

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1.0 Introduction

The Heat Treat Building at The Gleason Works in Rochester, New York houses a metal treating process wherein metal is heated to approximately 1,500 °F and is subsequently quenched in an oil bath. In 1991, PCBs were discovered in TCE still bottoms. The New York State Department of Environmental Conservation (NYSDEC) and U.S. Environmental Protection Agency (EPA) Office of Toxic Substances were immediately notified of this finding. The Gleason Works retained the services of an environmental consultant to conduct an investigation into the source and extent of PCB contamination in the building, and to develop a remediation strategy to remove the PCBs.

The source of PCB contamination on building surfaces was determined to be quench oil used in the heat treat process. A three dimensional sampling program conducted throughout the building indicated PCBs were present on building and equipment surfaces, in the ventilation system, and in roof materials. A cleanup plan focusing on decontamination of these areas was developed, and was submitted to the EPA in 1991.

The cleaning tasks were divided into two phases, and in 1992, an environmental cleanup contractor began cleaning building surfaces and completed these activities in 1992. During Phase I, PCB contaminated oil in equipment reservoirs was removed and incinerated. The reservoirs were wiped down after flushing with clean oil. The new batch of oil placed into the reservoirs became contaminated when residual PCB leached from scale and sludge in the equipment and piping. This oil was removed from the system and stored on-site in a temporary tank until Phase II decontamination activities were completed. Subsequently, a Phase IA project was undertaken to further remove residual sludges in oil reservoirs, equipment, and tanks. After completion of Phase IA (and Phase II), the stored oil was returned to the quenching system following treatment. The treatment consisted of a dechlorination process designed to reduce the concentration of PCBs, thus allowing continued use of the new oil.

Phase II activities were associated with cleanup of interior building surfaces including, ceilings, walls, building structural elements, equipment, the Hartman Stacker, the Andco treatment system, trolley hoists, and fans within the Heat Treat Building and basement. A combination of foaming agents, degreasers, and Citrikleen solvent were applied to contaminated surfaces, followed by scrubbing and powerwashing. Manual wiping was performed where damage from powerwashing could be anticipated. Floors were shotblasted and resurfaced with a epoxy floor clad material. PCBs that were found to have penetrated greater than 0.25 inches into the concrete floors were encapsulated beneath the epoxy floor sealer.

Decontamination efforts focused on achieving EPA's health-based cleanup standard of 10 ug/100 cm² for frequently contacted surfaces. The nonuniform distribution of PCB contamination on various surfaces at The Gleason Works required a repetitive sequence of decontamination followed by verification sampling for PCBs to assure EPA's health-based cleanup standards were

achieved. While most areas were successfully cleaned, some residual PCB contamination remains at the facility. These areas are documented in this report.

1.1 Purpose

The results of verification sampling for PCBs indicated EPA's health-based cleanup standards were met on all building and mechanical equipment surfaces with the exception of confined areas where PCB removal was not practical due to inaccessibility. This monitoring plan identifies these areas and outlines institutional protective measures to prevent employee contact with PCBs in these areas. This plan also includes monitoring guidelines to prevent and detect recontamination of cleaned areas. The guidelines contained in this plan are intended to supplement maintenance and waste management practices until the Heat Treat Building and any PCB contaminated equipment within are decommissioned. Results of verification samples collected after cleanup are illustrated for reference to contaminated and PCB free areas of the building. PCB management controls are also outlined in the plan.

2.0 PCB Cleanup Standards

Universally accepted cleanup standards do not exist for PCB cleanup on building and equipment surfaces. EPA published their PCB Spill Cleanup Policy under the Toxic Substance Control Act (TSCA) in 1987. The principal focus of the policy is cleaning up routine surface spills from transformers and capacitors. The policy does not address such problems as porous surfaces or concrete penetration. However, numerous building and equipment decontamination projects have been conducted over the years, and there is a significant list of precedents from which to draw when establishing cleanup standards. For the purposes of cleanup of PCBs on equipment and building surfaces in the Heat Treat Building, potentially applicable cleanup standards were drawn from EPA's PCB Spill Cleanup Policy §40 CFR Part 761.125, and are used in this report to define cleanup levels that EPA will probably consider appropriate levels for cleanup. These cleanup levels are shown in Table 1.

Table 1
Target PCB Cleanup Standards

Media/Location	Level/Range	Source
Surface <ul style="list-style-type: none"> ● Public Access/Contact ● Secure Industrial ● Restricted Access 	10 ug/100 cm ² 10 ug/100 cm ² 100 ug/100 cm ²	EPA ¹ EPA ¹ EPA ¹
Air	1.0 ug/m ³	NIOSH ²
Soil/Solids <ul style="list-style-type: none"> ● Exposed 	10 ppm	EPA ¹
Metal Parts/Equipment <ul style="list-style-type: none"> ● Contact Surfaces ● As Scrap 	10 ug/100 cm ² 10 ug/100 cm ²	EPA ¹ EPA ¹

¹ 40 CFR Part 761.125, Spill Cleanup Policy.

² NIOSH, Occupational Exposure to Polychlorinated Biphenyls (PCBs), U.S. Department of Health Education and Welfare, September 1977.

2.1 Verification Sampling and Analysis

In the course of building decontamination activities, samples were collected to verify the effectiveness of cleaning procedures with respect to EPA's cleanup standards outlined in Table 1. The samples were collected on a daily basis as decontamination efforts progressed. The samples were analyzed using a modified EPA Method 8080 from SW-846 for PCB analysis.

The sample matrices included:

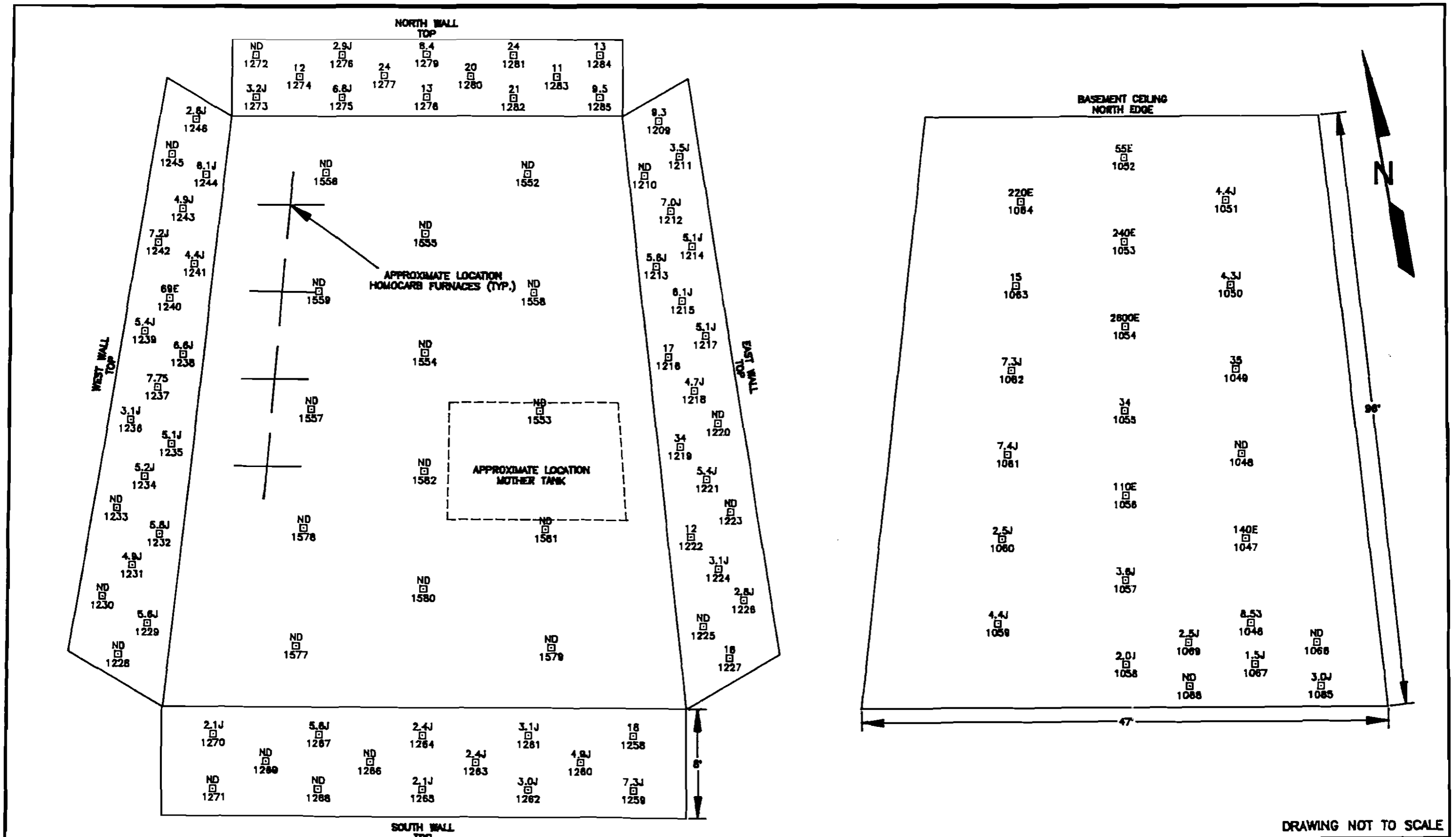
- Wipes from building and equipment surfaces.
- Sediment samples from sumps.
- Oil samples from the quenching system.

As decontamination procedures were completed, samples from building surfaces were collected using a hexagonal grid pattern according to guidelines established by EPA in their Field Manual For Grid Sampling Of PCB Spill Sites To Verify Cleanup to demonstrate that appropriate cleanup standards were met. A 37 point hexagonal grid pattern was established for each of the building walls, floors, and ceilings on the main floor and basement. This data is illustrated in Figures 1 and 2. Selective sampling was also performed on each piece of equipment and other building features focusing on areas of employee contact and surfaces previously in contact with PCBs. The results of this verification testing are presented in Figures 1 and 2, and Appendix A.

Some areas of the building contain equipment and building structures exhibiting PCB concentrations in excess of the target cleanup standard identified in Table 1. Removal of PCBs from these areas was impractical due to their location in confined areas and from items that are structural elements of the building (i.e. floors and columns). These areas are identified in Table 2 below:

Table 2
 Areas Exhibiting Elevated Levels of PCBs After Cleanup

Location	Final PCB Concentration (ug/100cm ²)
Main Floor Crane #2 Steel Plate south of plating line #1 Steel Plate south of plating line #4 Steel Plate south of plating line #7 Main Floor Concrete and Trenches	23 17 34 48E 1,100 (max)
Basement Basement Ceiling Basement Floor Concrete Basement North Wall Basement South Wall Basement East Wall Basement West Wall Red oil pump in heat treat basement Basement, mother quench tank one foot from horizontal Basement floor 2nd rm SW of Heat Treat	2,00E (max) 1,100 (max) 24 (max) 18 34 (max) 69E 600E (max) 29 270 (max)
Roof Vents	190 (max)



LEGEND

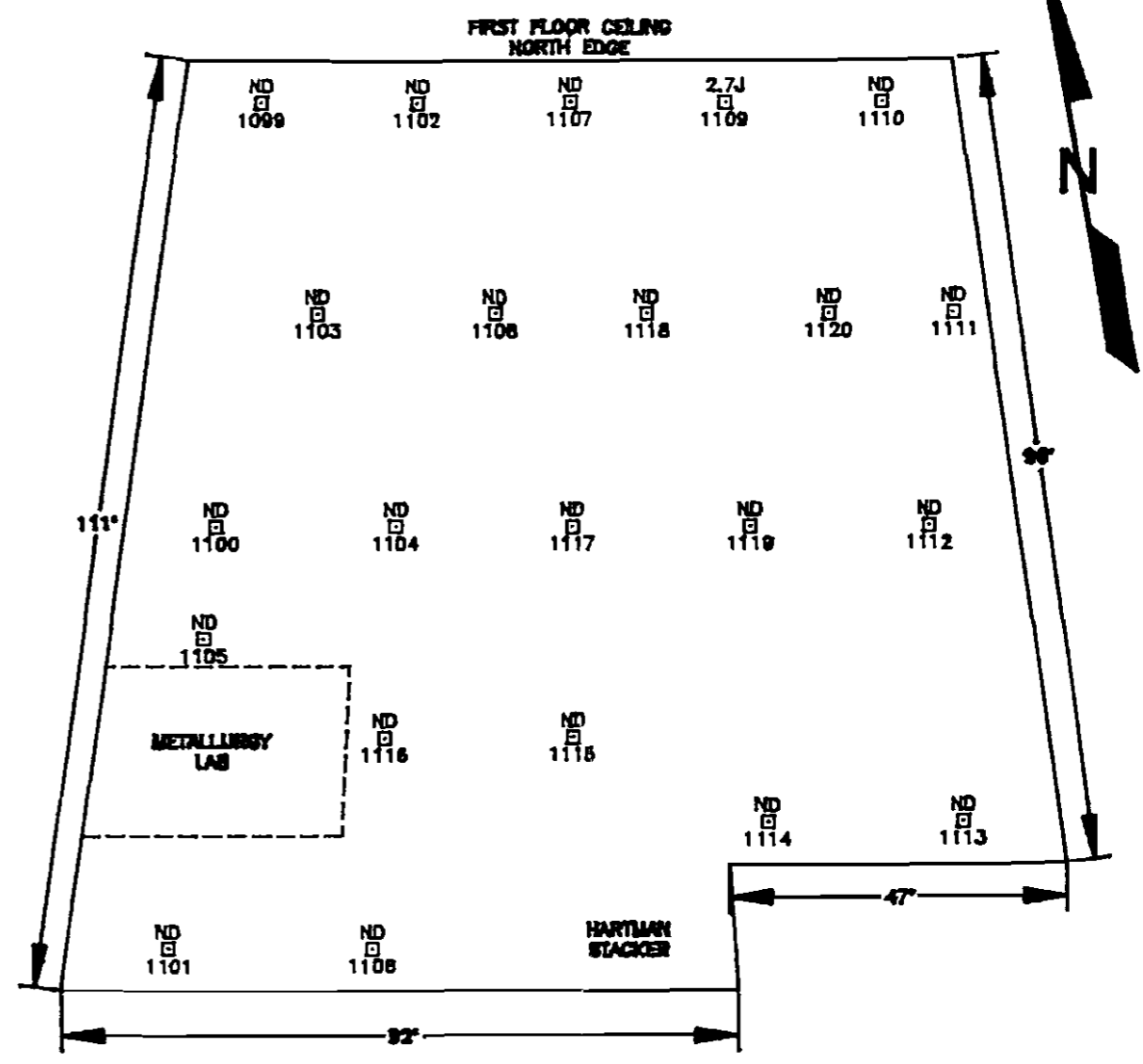
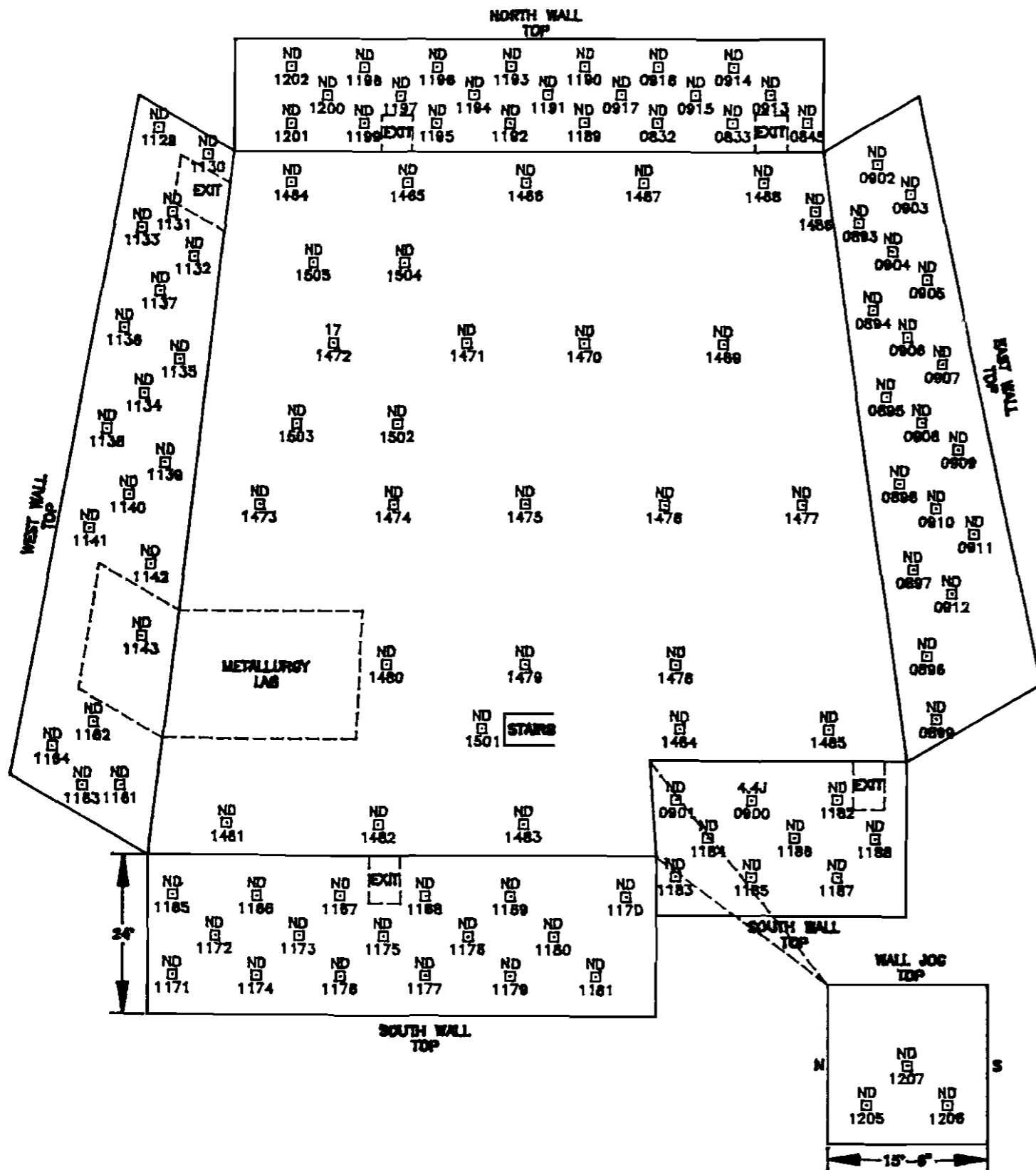
- 5.0J - TOTAL PCB AROCHLORS AS ug/100 cm²
- 1200 - SAMPLE ID NUMBER
- J - ESTIMATED QUANTITY BELOW DETECTION LIMITS
- E - PRESENT EXCEEDING DETECTION LIMITS
- ND - NON-DETECT

FIGURE 1
BASEMENT PCB WIPE-SAMPLE LOCATIONS FOR
CLEANUP VERIFICATION
HEAT TREAT BUILDING - THE GLEASON WORKS

DRAWING NOT TO SCALE

WESTON
MEMBERS ENGINEERS/CONSULTANTS

DRAWN BY: WMF DATE: 10/23/82



- LEGEND**
- 50J □ - TOTAL PCB AROCHLORS AS ug/100 cm²
 - 1200 □ - SAMPLE ID NUMBER
 - ESTIMATED QUANTITY BELOW DETECTION LIMITS
 - PRESENT EXCEEDING DETECTION LIMITS
 - ND - NON-DETECT

FIGURE 2
FIRST FLOOR PCB WIPE-SAMPLE LOCATIONS FOR CLEANUP VERIFICATION
HEAT TREAT BUILDING - THE GLEASON WORKS

DRAWING NOT TO SCALE

WESTON
ENGINEERING CONSULTANTS

DRAWN BY: WBF DATE: 10/23/92

3.0 Post Cleanup Monitoring

Post cleanup monitoring guidelines outlined in the following sections have been established to prevent employee exposure to PCBs remaining in inaccessible areas of the building; and to prevent recontamination of cleaned areas. The monitoring will provide a basis to determine the frequency of janitorial cleaning and control measures for plant reconstruction activities that may occur in the future. The monitoring consists of periodic analysis for PCBs in the air, oil, wastewater, and on building surfaces. The plan should be implemented when the facility returns to full production. Specific sampling methods and procedures are outlined in Table 3.

3.1 Air

Monitoring should be performed on a periodic basis to assay airborne PCBs in the ambient air, ventilation, and exhaust systems. The monitoring should include periodic low volume stationary sampling (area samples) from the ambient air and ventilation systems. The sample methods, collection media, sample locations, sample frequency, equipment, and action criteria are outlined in Table 3.

3.1.1 Sample Collection

Samples should be collected over the duration of each 8 hour shift at the locations outlined in Table 3 and other locations likely to accumulate fumes, dust or mist containing PCBs. The low volume air samples should be collected monthly for the first year of operations, quarterly for the second, and semi-annually until PCBs are no longer detected

3.1.2 Action Criteria

When PCBs are detected in a stationary air sample, followup personal air samples should be collected from personnel working in that area. The personal samples should be collected on an 8 hour time-weighted-average basis using personal sampling apparatus attached to an individual for the entire shift. These samples should be collected daily for one week, or, if personal samples show PCB concentrations above the detection limit, until the PCB levels return below detection limits for three consecutive days. If the personal samples indicate PCB concentrations are equal to or greater than 1/2 NIOSH's guideline for PCBs (0.5 ug/m^3), a medical monitoring program should be initiated for all personnel working in the area where the air sample was collected.

3.2 Oil Testing

In 1992, the quench oil was treated by a dechlorination process that reduced the concentration

of PCBs to less than 2 ppm. Residual PCB concentrations may reappear in the quench oil over time as leaching from scale and sludge occurs. The oil should be periodically tested to assure that PCBs do not increase to levels such that they are reintroduced to the work area, and to determine when actions must be taken to reduce the PCB concentration. Oil samples should be collected from each of the flat presses, the mother tank, the rotary furnace pans and quench tanks where oil circulates and PCBs may accumulate in sludge.

3.2.1 Collection and Action Criteria

Samples should be collected monthly for the first year of operations following reintroduction of the treated oil. This testing frequency will provide a means of assessing whether PCB levels in the oil are increasing due to PCBs in sludge and mill scale. Thereafter, sampling should be performed at least three months after the most recent treatment or replacement of the oil. In the event the PCB concentration is found to exceed 50 ppm in the oil, the system should be cleaned within six months to reduce the PCB concentration below 50 ppm. Followup sampling should be performed three months after fluid refilling. If the PCB concentration remains below 50 ppm after 3 months, testing is no longer required. Data obtained from this test should be retained for five years.

3.3 Wipe Samples

Wipe samples should be collected to measure PCB concentrations on building and equipment surfaces with which employees are most likely to come in contact.

3.3.1 Sample Locations

Wipe samples should be collected from any oil stained location where PCB contaminated oil has been spilled to verify that proper cleanup standards are met. The wipe samples should be collected to verify cleanup of oil spills or drips. Wipe samples should also be collected from frequently contacted equipment and building surfaces (e.g. control panels, handles, rails).

In the event of a spill, a visual determination of the spill boundaries can be used to delineate the extent of contamination and to determine verification sampling locations. If a visual determination cannot be made, samples should be collected along a grid pattern using methods described in EPA's Field Manual For Grid Sampling Of PCB Spill Sites To Verify Cleanup.

3.3.2 Sample Frequency

In addition to wipe samples collected from PCB spill cleanups, periodic wipe samples should be collected from building and equipment surfaces. These samples should be collected from

selected locations on a monthly basis for the first year of operations, quarterly for the second year, semiannually thereafter until PCBs are no longer detected. If analytical results of the monthly sampling indicate that PCB concentrations are increasing, the source should be investigated, removed, and monitoring should be continued until PCBs are reduced to 10 ug/100 cm².

3.3.3 Action Criteria

For the purpose of future spill cleanup in the Heat Treat Building, EPA's health based cleanup standard of 10 ug/100 cm² should be used. After delineating the extent of areas exceeding this standard using visual evidence or additional wipe samples, cleaning procedures outlined in Section 5 should be implemented until this standard is achieved.

3.4 Wastewater Samples

Wastewater and sediment samples should be collected periodically to document that PCBs are not leaving the building through the floor drains or other points of discharge.

3.4.1 Sample Locations

Water and sediment samples should be collected from the basement sump and catch basins receiving stormwater from the roof drains. Water samples from the catch basins should be collected during rain events.

3.4.2 Sample Frequency

Water samples should be collected on a quarterly basis for the first year of operations (subject to weather conditions), and semiannually thereafter until PCBs are no longer detected. If analytical results of the sampling indicate that PCB concentrations are increasing, the source should be investigated, removed, and sampling should be continued until PCBs are no longer detected.

3.4.3 Action Criteria

Water samples exhibiting PCB concentrations greater than 0.065 ug/l should be treated to reduce the concentration of PCBs below this level until sources are identified and removed.

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Table 3
Post Cleanup Monitoring Guidelines
for PCBs

Sample Type	Analytical Method	Analysis	Detection Limit *	Sampling Media	Equipment Flow Rate	Sampling Frequency/Duration	Sample Locations	Action Level
Air	NIOSH 5503	GC	0.03 ug	FF/FT in-line	SKC personal pump 0.05-0.2 L/min	Monthly (first year) (8hr TWA) Quarterly (second year) (8hr TWA) Summer/Winter (third year +) (8hr TWA)	Quench Tanks Basement-General Area Vapor Degreasers	>0.5 mg/m ³ >0.5 mg/m ³
Air	NIOSH 5503	GC	0.03 ug	FF/FT in-line	SKC personal pump 0.05-0.2 L/min	Only if TWA area samples are greater than non detect (8hr TWA)	Individual Personnel	>0.5 mg/m ³
Oil	Dilute and Shoot	GC	2 ppm	N/A	Collection device/sample jar	Monthly (first year) Quarterly (second year) Biannually (third year +)	36" furnace quench tank & drip pan 24" furnace drip pan 20" furnace drip pan Three flat presses Mother Tank Roller Press	>25 ppm Consider Oil Treatment
Wipes	EPA SW846 8080	GC	8.0 ug	100 cm sterile wipes	Sample jar	Every two months (first year) Quarterly (second year) Biannually (third year +)	Floors/Ceilings Equipment High contact areas (ie control panels)	10 ug/100 cm ²
Wipes	EPA SW846 8080	GC	8.0 ug	100 cm ² sterile wipes	Sample jar	Confirmatory after oil cleanups	Spill area(s)	10 ug/100 cm ²
Wastewater	EPA SW846 8080	GC	0.065 ug/l	N/A	N/A	Monthly (first year) Quarterly (second year) Biannually (third year +)	Basement sumps	0.065 ug/l

GC = Gas Chromatography

* - Detection Limit is estimated

PEL = Permissible Exposure Limit PCBs (current published)

PEL for PCBs = 0.5 mg/m³

FF/FT = Fiber Filter/ Florisil Tube In-line Sampling

ND = Non Detect

4.0 Post Cleanup Maintenance Procedures

Oil is anticipated to accumulate on the floor of the Heat Treat Building from dragout of the quench oil as parts are removed. This oil may contain PCBs below regulated levels, cleaning procedures should be implemented to assure that oil is removed from the floor and equipment surfaces to prevent tracking and recontamination of previously cleaned areas.

All oil accumulations on the floor and equipment surfaces should be cleaned using rags and cleaning solvents (i.e. CitriKleen, Powerwash 155, CAPSUR). Once the isolated oil accumulations are removed, routine janitorial cleaning methods (i.e. wet vacuum) should be used to remove general dirt, and debris.

4.1 Employee Protection

Workers engaged in PCB spill cleanup activities should meet the medical and training requirements set forth in §29 CFR Part 1910.120. These health and safety requirements are outlined in Section 5.0. The specific personal protective equipment required for cleaning tasks is outlined in Table 4.

For work occurring where elevated levels of PCBs remain on equipment and building surfaces identified in Table 2, internal notification and authorization procedures should be incorporated into the company health and safety program to alert workers of potential PCB exposure and procedures to prevent contact with PCB. An example of an intrusive work permit is presented in Appendix B.

4.2 Waste Disposal

Spill cleanup debris containing PCBs from the quench process should be managed as hazardous waste for disposal in a treatment or disposal unit permitted under the Toxic Substances Control Act (TSCA), and by NYSDEC as appropriate.

5.0 Health and Safety

A modification of the company safety program to include PCB protection procedures is recommended. The following section identifies suggested protection measures to prevent employee contact with PCBs remaining in limited areas of the Heat Treat Building where removal was not practical. These measures should be implemented in conjunction with PCB air monitoring as discussed earlier. Restriction of access to PCB contaminated areas, personal protective clothing, training, and management controls (i.e. intrusive work permits, recordkeeping) are also essential to this health and safety program. The protective measures outlined in this plan should be used until PCB contaminated items are removed from the

building, and the building is decommissioned, at which time PCB contaminated materials should be properly disposed.

5.1 General Work Guidelines

General work practices in the Heat Treat Building can be largely unrestricted with the exception of intrusive activities pertaining to items identified in Table 2. Intrusive activities refer to those activities where internal portions of equipment are accessed, or demolition, drilling, cutting activities are performed, and when PCB contaminated items are handled. Training of workers affiliated with the Heat Treat Building should vary with respect to roles and responsibilities. These roles and responsibilities can be divided into two groups with respect to awareness, training, and job responsibilities as defined below:

Group 1 Personnel working in proximity to, but not handling or disturbing potentially PCB contaminated materials.

Group 2 Personnel engaged in maintenance activities on PCB contaminated equipment and building features or otherwise contact PCB contaminated equipment.

Personnel engaged in cleanup of PCB contaminated spill material.

Personnel using personal protective equipment to prevent exposure to PCB contaminated surfaces.

Responsibilities of personnel in Group 1 include:

- Avoid Food consumption and smoking in the Heat Treat Building.
- Report suspected spills (oil buildup) in the area to the Department Supervisor.

In addition to Group 1 responsibilities, Group 2 responsibilities include:

- Use of personal protective clothing and respiratory protection when engaged in activities requiring contact with PCB contaminated items identified in Table 4.
- Obtain an Intrusive Work Permit from the Manager of Environmental Health and Safety Affairs when engaged in activities requiring intrusion into restricted access areas identified in Table 4.

5.2 Training

All personnel (i.e., Group 1 & 2) who, in the course of their duties, do not contact PCB contaminated surfaces, handle or contact process oil, or, in any other way become exposed to PCB contamination while performing their duties should be made aware of the following subjects by means of a hazard communication program:

- The presence of PCBs.
- Location of PCBs.
- Restricted Access Areas.
- Physical and toxicological hazards associated with PCBs.
- Methods to prevent exposure to PCBs.
- Availability of physical, chemical and toxicological data associated with PCBs (i.e. Material Safety Data Sheet).
- PCB Management Practices for the Heat Treat Building.

Employees engaged in PCB spill cleanup procedures, and maintenance activities involving contact with PCBs in excess of the EPA's health based cleanup standards identified in Table 1 should be trained in the following subject areas as outlined in the corresponding regulations:

Hazard Communication	§ 29 CFR Part 1910.1200
Hazardous Waste Operations	§ 29 CFR Part 1910.120
Respirator Use	§ 29 CFR Part 1910.134

5.3 Management Controls

Training records for all employees receiving the training outlined above should be maintained to include:

- Course title and date.
- Number of training hours.
- Course Instructor.
- Course Outline.
- Employee name.

Intrusive work permits should be required before any work involving contact with PCB contaminated items listed in Table 2 is initiated. The permit should be completed by the person performing the work and should address the exact location of the work to be performed, the type of work to be performed, and the duration of work. The permit should be authorized by the Manager of Health and Safety Affairs after verification that work areas are PCB free or

appropriate protection measures are in place. Verification of PCB contaminated areas can be made by reference to Figures 1 and 2, and Appendix A of this plan. The Manager's authorization should address specific protocols and personal protection equipment to be used. An example of an intrusive/hot work permit is presented in Appendix B.

Personnel entry/exit logs should be maintained for personnel entering and exiting the basement. The log should include the date and time entrance and exits are made and a brief description of work performed while in the basement.

5.4 Personal Protective Equipment

Use of Personal Protective Equipment (PPE) should be encouraged in areas of the building where PCB concentrations exceed EPA's cleanup standards identified in Table 1. Table 2 identifies each of the restricted access areas containing PCB concentrations in excess of these standards at the completion of the 1992 decontamination activities. Appropriate PPE is identified in Table 4.

5.5 Restricted Access Areas

The basement should be a restricted access area requiring personal protective equipment for all entrances due to elevated levels of PCBs remaining on building and equipment surfaces in this area. A contaminant reduction and waste disposal area should be established at both entrances through which all personnel and equipment should pass upon entering and exiting the basement. Signs should be posted at these entrances indicating the presence of PCBs and any work permit requirements.

The minimum requirements for the contaminant reduction area at the entrances should include:

- Personal Protective Equipment (PPE) supplies.
- Decontamination fluid and material supplies for equipment and tools used in the basement requiring decontamination before removal from the basement.
- Receptacles for disposal of used PPE and decontamination fluids.

Entry and exit from this area should be documented by the Manager of Health and Safety Affairs. All personnel entering the basement should sign a log when entering this area.

Table 4
 Personal Protection Equipment for
 Restricted Areas Within the Heat Treat Building

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Location	Final PCB Concentration (ug/100cm ²)	Type of PPE Required
Main Floor		
Crane #2	23	Gloves.
Steel Plate south of plating line #1	17	Gloves, Boots.
Steel Plate south of plating line #4	34	Gloves, Boots.
Steel Plate south of plating line #7	48E	Gloves, Boots.
Main Floor Concrete and Floor Trenches	1,100 max	Gloves, Boots, Suit.
Basement		
Basement Ceiling	2600E (max)	All activities within the basement require protective gloves, boots, and coverall.
Basement Floor Concrete	1,300 (max)	
Basement North Wall	24 (max)	
Basement South Wall	18	
Basement East Wall	34 (max)	
Basement West Wall	69E	
Red oil pump in heat treat basement	600E (max)	
Basement, mother quench tank one foot from horizontal	29	
Basement floor 2nd rm SW of Heat Treat	270 (max)	
Roof Vents	190	Gloves, Boots, Suit
Vapor Degreaser Sludge (Room Temperature)	--	Gloves, Boots, Suit, Respirator.
Spill Cleanup	--	Gloves, Boots, Suit.

Gloves = Platex Argus, Silver Shield, or equivalent.
 Boots = Disposable Chemical Resistant Overboots.
 Suit = Saranex Suit

Air purifying respirators should be used by workers engaged in Hot Work (i.e. welding, cutting) on any items identified above including all equipment and building appurtenances in the basement.

APPENDIX A
PCB DATA LOG

DATA LOG

PCB Decontamination of Heat Treat Building and
Basement 4/1/82 - 9/31/82

Analysis by: Roy F. Weston, Inc.

Mobil Laboratory Services

Sample ID	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
1	Ceiling Vents									
	Vent Wipe from Ceiling above lab area	Wipe	VW001	10.0*						ug/100 cm ²
	Vent Soot from ceiling vent above lab area	Soot	VS002	20.0*						ug/100 cm ²
2	Ceiling in Tin Building									
	Plastic coated ceiling insulation in Tin Building	Wipe	WC005	0.21 J*						ug/100 cm ²
	Postremediation Samples (SEE SAMPLE LOCATION MAP)	Wipe	CW0114		ND					ug/100 cm ²
		Wipe	CW0115		ND					ug/100 cm ²
	Ceiling wipe	Wipe	CW0116		ND					ug/100 cm ²
	Ceiling wipe	Wipe	CW0117		ND					ug/100 cm ²
	Ceiling wipe	Wipe	CW0116		ND					ug/100 cm ²
	Ceiling wipe	Wipe	CW0124		ND					ug/100 cm ²
	Ceiling wipe	Wipe	CW0125		ND					ug/100 cm ²
	Ceiling wipe	Wipe	CW0126		ND					ug/100 cm ²
	Ceiling wipe	Wipe	CW0127		ND					ug/100 cm ²
	Ceiling wipe	Wipe	CW0126		ND					ug/100 cm ²
	Ceiling wipe	Wipe	CW1109					2.7 J		ug/100 cm ²
	Ceiling wipe	Wipe	CW1110					ND		ug/100 cm ²
	Ceiling wipe	Wipe	CW1111					ND		ug/100 cm ²
	Ceiling wipe	Wipe	CW1112					ND		ug/100 cm ²
	Ceiling wipe	Wipe	CW1113					ND		ug/100 cm ²
	Ceiling wipe	Wipe	CW1114					ND		ug/100 cm ²
	Ceiling wipe	Wipe	CW1119					ND		ug/100 cm ²
	Ceiling wipe	Wipe	CW1120					ND		ug/100 cm ²
3	Ceiling in Heat Treat Area									
	Ceiling wipe	Wipe	CW003	9.1*						ug/100 cm ²
	Ceiling wipe	Wipe	CW004	0.20 J*						ug/100 cm ²
	Ceiling wipe	Wipe	CW0111		ND					ug/100 cm ²
	Ceiling wipe	Wipe	CW0112		ND					ug/100 cm ²
	Ceiling wipe	Wipe	CW0113		ND					ug/100 cm ²
	Ceiling wipe	Wipe	CW0119		ND					ug/100 cm ²
	Ceiling wipe	Wipe	CW0120		ND					ug/100 cm ²
	Ceiling wipe	Wipe	CW0121		ND					ug/100 cm ²
	Ceiling wipe	Wipe	CW0122		ND					ug/100 cm ²
	Ceiling wipe	Wipe	CW0123		ND					ug/100 cm ²
	Ceiling wipe	Wipe	CW0129		ND					ug/100 cm ²
	Ceiling wipe	Wipe	CW0130		ND					ug/100 cm ²
	Ceiling wipe	Wipe	CW0131		ND					ug/100 cm ²
	Ceiling wipe	Wipe	CW0132		ND					ug/100 cm ²
	Ceiling wipe	Wipe	CW0133		ND					ug/100 cm ²
	Ceiling wipe	Wipe	CW1099					ND		ug/100 cm ²
	Ceiling wipe	Wipe	CW1100					ND		ug/100 cm ²
	Ceiling wipe	Wipe	CW1101					ND		ug/100 cm ²
	Ceiling wipe	Wipe	CW1102					ND		ug/100 cm ²
	Ceiling wipe	Wipe	CW1103					ND		ug/100 cm ²
	Ceiling wipe	Wipe	CW1104					ND		ug/100 cm ²
	Ceiling wipe	Wipe	CW1105					ND		ug/100 cm ²
	Ceiling wipe	Wipe	CW1106					ND		ug/100 cm ²
	Ceiling wipe	Wipe	CW1107					ND		ug/100 cm ²
	Ceiling wipe	Wipe	CW1108					ND		ug/100 cm ²
	Ceiling wipe	Wipe	CW1115					ND		ug/100 cm ²
	Ceiling wipe	Wipe	CW1116					ND		ug/100 cm ²
	Ceiling wipe	Wipe	CW1117					ND		ug/100 cm ²
	Ceiling wipe	Wipe	CW1116					ND		ug/100 cm ²
	Ceiling wipe	Wipe	CW1119					ND		ug/100 cm ²
	Ceiling wipe	Wipe	CW1119					ND		ug/100 cm ²

4 First Floor Superstructure, Walls, Columns, Cranes		Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Overhead Door Handles		Wipe	WW006	1.1							ug/100 cm ²
Support Column East of 36" Rotary Furnace		Wipe	WW007	0.37 J							ug/100 cm ²
Ledge on northeast corner of Lab (3 feet High)		Wipe	WW010	6.2 °							ug/100 cm ²
Laboratory doorknob		Wipe	WW011	3.5 °							ug/100 cm ²
Column east of Lab 4 feet high		Wipe	WW012	2.4							ug/100 cm ²
Column #T33 near bottom on steel		Wipe	WW014	0.31 J							ug/100 cm ²
Overhead door casing in northeast corner, 3' above floor		Wipe	WW018	1.9							ug/100 cm ²
Wipe sample trip blank		Wipe	WW086	ND							ug/100 cm ²
Support column west of stairway to basement		Wipe	WW1097						ND		ug/100 cm ²
First Floor East Wall		Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Center of wall near on stained cinderblock 1.5' above floor		Wipe	WW015	1.1							ug/100 cm ²
East wall		Wipe	WW0139		ND						ug/100 cm ²
East wall		Wipe	WW0140		ND						ug/100 cm ²
East wall		Wipe	WW0141		ND						ug/100 cm ²
East wall		Wipe	WW0142		ND						ug/100 cm ²
East wall		Wipe	WW0143		ND						ug/100 cm ²
East wall		Wipe	WW0144		ND						ug/100 cm ²
East wall		Wipe	WW0145		ND						ug/100 cm ²
East wall		Wipe	WW0146		ND						ug/100 cm ²
East wall		Wipe	WW0147		ND						ug/100 cm ²
East wall		Wipe	WW0148		ND						ug/100 cm ²
East wall		Wipe	WW0149		ND						ug/100 cm ²
East wall		Wipe	WW0150		ND						ug/100 cm ²
East wall		Wipe	WW0151		ND						ug/100 cm ²
East wall		Wipe	WW0152		ND						ug/100 cm ²
East wall		Wipe	WW0153		ND						ug/100 cm ²
East wall		Wipe	WW0154		ND						ug/100 cm ²
East wall		Wipe	WW0155		3.0 J						ug/100 cm ²
East wall		Wipe	WW0156		ND						ug/100 cm ²
East wall		Wipe	WW0157		ND						ug/100 cm ²
East wall		Wipe	WW0893						ND		ug/100 cm ²
East wall		Wipe	WW0894						ND		ug/100 cm ²
East wall		Wipe	WW0895						ND		ug/100 cm ²
East wall		Wipe	WW0896						ND		ug/100 cm ²
East wall		Wipe	WW0897						ND		ug/100 cm ²
East wall		Wipe	WW0898						ND		ug/100 cm ²
East wall		Wipe	WW0899						ND		ug/100 cm ²
East wall		Wipe	WW0902						ND		ug/100 cm ²
East wall		Wipe	WW0903						ND		ug/100 cm ²
East wall		Wipe	WW0904						ND		ug/100 cm ²
East wall		Wipe	WW0905						ND		ug/100 cm ²
East wall		Wipe	WW0906						ND		ug/100 cm ²
East wall		Wipe	WW0907						ND		ug/100 cm ²
East wall		Wipe	WW0908						ND		ug/100 cm ²
East wall		Wipe	WW0909						ND		ug/100 cm ²
East wall		Wipe	WW0910						ND		ug/100 cm ²
East wall		Wipe	WW0911						ND		ug/100 cm ²
East wall		Wipe	WW0912						ND		ug/100 cm ²
East wall		Wipe	WW1205						ND		ug/100 cm ²
East wall		Wipe	WW1206						ND		ug/100 cm ²
East wall		Wipe	WW1207						ND		ug/100 cm ²
First Floor West Wall		Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
West wall		Wipe	WW0485		ND						ug/100 cm ²
West wall		Wipe	WW0486		18						ug/100 cm ²
West wall		Wipe	WW0487		ND						ug/100 cm ²
West wall		Wipe	WW0488		ND						ug/100 cm ²
West wall		Wipe	WW0489		ND						ug/100 cm ²
West wall		Wipe	WW0490		ND						ug/100 cm ²

ND—Not detected at reported detection limit

West wall	Wipe	WW0491		ND					ug/100 cm ²
West wall	Wipe	WW0492		ND					ug/100 cm ²
West wall	Wipe	WW0493		ND					ug/100 cm ²
West wall	Wipe	WW0494		ND					ug/100 cm ²
West wall	Wipe	WW0495		ND					ug/100 cm ²
West wall	Wipe	WW0496		ND					ug/100 cm ²
West wall	Wipe	WW0613		ND					ug/100 cm ²
West wall	Wipe	WW0614		ND					ug/100 cm ²
West wall	Wipe	WW0615		ND					ug/100 cm ²
West wall	Wipe	WW0616		ND					ug/100 cm ²
West wall	Wipe	WW1129						ND	ug/100 cm ²
West wall	Wipe	WW1130						ND	ug/100 cm ²
West wall	Wipe	WW1131						ND	ug/100 cm ²
West wall	Wipe	WW1132						ND	ug/100 cm ²
West wall	Wipe	WW1133						ND	ug/100 cm ²
West wall	Wipe	WW1134						ND	ug/100 cm ²
West wall	Wipe	WW1135						ND	ug/100 cm ²
West wall	Wipe	WW1136						ND	ug/100 cm ²
West wall	Wipe	WW1137						ND	ug/100 cm ²
West wall	Wipe	WW1138						ND	ug/100 cm ²
West wall	Wipe	WW1139						ND	ug/100 cm ²
West wall	Wipe	WW1140						ND	ug/100 cm ²
West wall	Wipe	WW1141						ND	ug/100 cm ²
West wall	Wipe	WW1142						ND	ug/100 cm ²
West wall	Wipe	WW1143						ND	ug/100 cm ²
West wall	Wipe	WW1161						ND	ug/100 cm ²
West wall	Wipe	WW1162						ND	ug/100 cm ²
West wall	Wipe	WW1163						ND	ug/100 cm ²
West wall	Wipe	WW1164						ND	ug/100 cm ²
First Floor North Wall									
Corner of Lab and North Wall (breast height)	Wipe	WW009	12.0*						ug/100 cm ²
Center of Wall near compressed air lines	Wipe	WW017	2.2						ug/100 cm ²
North wall	Wipe	WW0509	ND						ug/100 cm ²
North wall	Wipe	WW0510	ND						ug/100 cm ²
North wall	Wipe	WW0511	5.4 J						ug/100 cm ²
North wall	Wipe	WW0512	ND						ug/100 cm ²
North wall	Wipe	WW0536	ND						ug/100 cm ²
North wall	Wipe	WW0537	ND						ug/100 cm ²
North wall	Wipe	WW0538	5.5 J						ug/100 cm ²
North wall	Wipe	WW0539	5.5 J						ug/100 cm ²
North wall	Wipe	WW0540	3.7 J						ug/100 cm ²
North wall	Wipe	WW0541	6.1						ug/100 cm ²
North wall	Wipe	WW0542	5.6 J						ug/100 cm ²
North wall	Wipe	WW0543	1.8 J						ug/100 cm ²
North wall	Wipe	WW0544	3.0 J						ug/100 cm ²
North wall	Wipe	WW0545	ND						ug/100 cm ²
North wall	Wipe	WW0546	ND						ug/100 cm ²
North wall	Wipe	WW0547	ND						ug/100 cm ²
North wall	Wipe	WW0548	ND						ug/100 cm ²
North wall	Wipe	WW0549	ND						ug/100 cm ²
North wall	Wipe	WW0632						ND	ug/100 cm ²
North wall	Wipe	WW0633						ND	ug/100 cm ²
North wall	Wipe	WW0646						ND	ug/100 cm ²
North wall	Wipe	WW0613						ND	ug/100 cm ²
North wall	Wipe	WW0614						ND	ug/100 cm ²
North wall	Wipe	WW0616						ND	ug/100 cm ²
North wall	Wipe	WW0616						ND	ug/100 cm ²
North wall	Wipe	WW0617						ND	ug/100 cm ²
North wall	Wipe	WW1189						ND	ug/100 cm ²
North wall	Wipe	WW1190						ND	ug/100 cm ²
North wall	Wipe	WW1191						ND	ug/100 cm ²
North wall	Wipe	WW1192						ND	ug/100 cm ²

North wall	Wipe	WW1193						ND	ug/100 cm ²	
North wall	Wipe	WW1194						ND	ug/100 cm ²	
North wall	Wipe	WW1195						ND	ug/100 cm ²	
North wall	Wipe	WW1196						ND	ug/100 cm ²	
North wall	Wipe	WW1197						ND	ug/100 cm ²	
North wall	Wipe	WW1198						ND	ug/100 cm ²	
North wall	Wipe	WW1199						ND	ug/100 cm ²	
North wall	Wipe	WW1200						ND	ug/100 cm ²	
North wall	Wipe	WW1201						ND	ug/100 cm ²	
North wall	Wipe	WW1202						ND	ug/100 cm ²	
First Floor South Wall	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Overhead door casing on south wall (left side)	Wipe	WW008	0.63 J							ug/100 cm ²
Center area on support beam near joint with corrugated steel	Wipe	WW013	0.54 J							ug/100 cm ²
South wall	Wipe	WW0550		ND						ug/100 cm ²
South wall	Wipe	WW0551		ND						ug/100 cm ²
South wall	Wipe	WW0552		2.6 J						ug/100 cm ²
South wall	Wipe	WW0553		ND						ug/100 cm ²
South wall	Wipe	WW0554		ND						ug/100 cm ²
South wall	Wipe	WW0555		ND						ug/100 cm ²
South wall	Wipe	WW0556		ND						ug/100 cm ²
South wall	Wipe	WW0557		2.7 J						ug/100 cm ²
South wall	Wipe	WW0617		ND						ug/100 cm ²
South wall	Wipe	WW0618		ND						ug/100 cm ²
South wall	Wipe	WW0619		ND						ug/100 cm ²
South wall	Wipe	WW0620		ND						ug/100 cm ²
South wall	Wipe	WW0621		ND						ug/100 cm ²
South wall	Wipe	WW0622		ND						ug/100 cm ²
South wall	Wipe	WW0623		ND						ug/100 cm ²
South wall	Wipe	WW0624		ND						ug/100 cm ²
South wall	Wipe	WW0625		ND						ug/100 cm ²
South wall	Wipe	WW0626		ND						ug/100 cm ²
South wall	Wipe	WW0627		ND						ug/100 cm ²
South wall	Wipe	WW0628		ND						ug/100 cm ²
South wall	Wipe	WW0900						ND		ug/100 cm ²
South wall	Wipe	WW0901						ND		ug/100 cm ²
South wall	Wipe	WW1165						ND		ug/100 cm ²
South wall	Wipe	WW1166						ND		ug/100 cm ²
South wall	Wipe	WW1167						ND		ug/100 cm ²
South wall	Wipe	WW1168						ND		ug/100 cm ²
South wall	Wipe	WW1169						ND		ug/100 cm ²
South wall	Wipe	WW1170						ND		ug/100 cm ²
South wall	Wipe	WW1171						ND		ug/100 cm ²
South wall	Wipe	WW1172						ND		ug/100 cm ²
South wall	Wipe	WW1173						ND		ug/100 cm ²
South wall	Wipe	WW1174						ND		ug/100 cm ²
South wall	Wipe	WW1175						ND		ug/100 cm ²
South wall	Wipe	WW1176						ND		ug/100 cm ²
South wall	Wipe	WW1177						ND		ug/100 cm ²
South wall	Wipe	WW1178						ND		ug/100 cm ²
South wall	Wipe	WW1179						ND		ug/100 cm ²
South wall	Wipe	WW1180						ND		ug/100 cm ²
South wall	Wipe	WW1181						ND		ug/100 cm ²
South wall	Wipe	WW1183						ND		ug/100 cm ²
South wall	Wipe	WW1184						ND		ug/100 cm ²
South wall	Wipe	WW1185						ND		ug/100 cm ²
South wall	Wipe	WW1186						ND		ug/100 cm ²
South wall	Wipe	WW1187						ND		ug/100 cm ²
South wall	Wipe	WW1188						ND		ug/100 cm ²

First Floor Wipe Samples		Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
First Floor	Wipe	FW1023							ND		ug/100 cm ²
First Floor	Wipe	FW1024							ND		ug/100 cm ²
First Floor	Wipe	FW1025							23*		ug/100 cm ²
First Floor	Wipe	FW1026							ND		ug/100 cm ²
First Floor	Wipe	FW1027							ND		ug/100 cm ²
First Floor	Wipe	FW1028							ND		ug/100 cm ²
First Floor	Wipe	FW1029							ND		ug/100 cm ²
First Floor	Wipe	FW1030							ND		ug/100 cm ²
First Floor	Wipe	FW1031							ND		ug/100 cm ²
First Floor	Wipe	FW1032							ND		ug/100 cm ²
First Floor	Wipe	FW1033							ND		ug/100 cm ²
First Floor	Wipe	FW1034							ND		ug/100 cm ²
First Floor	Wipe	FW1035							ND		ug/100 cm ²
First Floor	Wipe	FW1036							ND		ug/100 cm ²
First Floor	Wipe	FW1037							ND		ug/100 cm ²
First Floor	Wipe	FW1038							ND		ug/100 cm ²
First Floor	Wipe	FW1039							ND		ug/100 cm ²
First Floor	Wipe	FW1040							ND		ug/100 cm ²
First Floor	Wipe	FW1041							ND		ug/100 cm ²
First Floor	Wipe	FW1042							ND		ug/100 cm ²
First Floor	Wipe	FW1043							ND		ug/100 cm ²
First Floor	Wipe	FW1044							ND		ug/100 cm ²
First Floor	Wipe	FW1045							ND		ug/100 cm ²
Cranes		Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Northeast crane	Wipe	EW0840		ND							ug/100 cm ²
Northeast crane	Wipe	EW0841		ND							ug/100 cm ²
Northeast crane	Wipe	EW0842		39							ug/100 cm ²
Northeast crane	Wipe	EW0842		6.0 J							ug/100 cm ²
Northeast crane	Wipe	EW0843		3.5 J							ug/100 cm ²
Crane above square quench tank	Wipe	EW0938		5.9 J							ug/100 cm ²
Crane above square quench tank	Wipe	EW0939		17							ug/100 cm ²
Crane above north Flat Press	Wipe	EW0940		ND							ug/100 cm ²
Crane above north Flat Press	Wipe	EW0941		12							ug/100 cm ²
Crane north of 36" furnace	Wipe	EW0842		21*							ug/100 cm ²
Crane track north of 36" furnace	Wipe	EW0943		7.7 J							ug/100 cm ²
Crane with hook west of 36" furnace	Wipe	EW0944		ND							ug/100 cm ²
Crane with hook west of 36" furnace	Wipe	EW0945		27							ug/100 cm ²
Crane #119, westward over Flat Press south	Wipe	EW1252							ND		ug/100 cm ²
Crane, westward over Flat Press north	Wipe	EW1253							ND		ug/100 cm ²
Crane # 118, westward over Normalizing furnace	Wipe	EW1254							ND		ug/100 cm ²
Crane #120, westward over Normalizing furnace	Wipe	EW1255							ND		ug/100 cm ²
Crane #122, west of 24" furnace westward large TCE	Wipe	EW1256							ND		ug/100 cm ²
Crane #2, running north-south	Wipe	EW1257							ND		ug/100 cm ²
Crane #2	Wipe	EW1004							23*		ug/100 cm ²
Crane #84	Wipe	EW1005							ND		ug/100 cm ²
Crane #117	Wipe	EW1006							ND		ug/100 cm ²
Crane #13	Wipe	EW1007							9.4 J		ug/100 cm ²
5 Light Fixtures				Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
6 Windows				Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
7 Two Hoffman Oil Filters				Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
8 Two Flame Hardening Units				Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Flame Hardener South											
One foot	Wipe	EW0463		ND							ug/100 cm ²
One foot	Wipe	EW0464		27							ug/100 cm ²
One foot	Wipe	EW0465		45							ug/100 cm ²
Three feet	Wipe	EW0466		ND							ug/100 cm ²
Three feet	Wipe	EW0467		ND							ug/100 cm ²

ND-Not detected at reported detection limit

Three feet	Wipe	EW0468		ND						ug/100 cm ²	
One foot	Wipe	EW0503			ND					ug/100 cm ²	
One foot	Wipe	EW0504			4.8 J					ug/100 cm ²	
One foot	Wipe	EW0505			ND					ug/100 cm ²	
Three feet	Wipe	EW0608			6.3 J					ug/100 cm ²	
Three feet	Wipe	EW0507			6.5					ug/100 cm ²	
Three feet	Wipe	EW0608			ND					ug/100 cm ²	
One foot verticle	Wipe	EW0991						10"		ug/100 cm ²	
Three feet horizontal	Wipe	EW0992						ND		ug/100 cm ²	
Flame Hardener North			Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units	
One foot	Wipe	EW0469		49						ug/100 cm ²	
One foot	Wipe	EW0470		280						ug/100 cm ²	
One foot	Wipe	EW0471		2.7 J						ug/100 cm ²	
Three feet	Wipe	EW0472		ND						ug/100 cm ²	
Three feet	Wipe	EW0473		3.8 J						ug/100 cm ²	
Three feet	Wipe	EW0474		ND						ug/100 cm ²	
One foot	Wipe	EW0497			ND					ug/100 cm ²	
One foot	Wipe	EW0498			ND					ug/100 cm ²	
One foot	Wipe	EW0499			ND					ug/100 cm ²	
Three feet	Wipe	EW0500			ND					ug/100 cm ²	
Three feet	Wipe	EW0501			51 E ⁺					ug/100 cm ²	
Three feet	Wipe	EW0502			ND					ug/100 cm ²	
Flame Hardener	Wipe	EW0629				5.5 J				ug/100 cm ²	
Flame Hardener	Wipe	EW0630				ND				ug/100 cm ²	
Flame Hardener	Wipe	EW0631				ND				ug/100 cm ²	
Flame Hardener	Wipe	EW0632				ND				ug/100 cm ²	
One foot verticle	Wipe	EW0989						ND		ug/100 cm ²	
Three feet verticle surface	Wipe	EW0990						ND		ug/100 cm ²	
8 Eight Control Panels on Main Floor			Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Control panel near east normalizing furnaces	Wipe	EW0931							ND		ug/100 cm ²
Control panel near east normalizing furnaces	Wipe	EW0932							ND		ug/100 cm ²
Control panel south of homocarbs	Wipe	EW0983							3.7 J		ug/100 cm ²
Control panel south of homocarbs	Wipe	EW0984							ND		ug/100 cm ²
Control panel west of homocarbs	Wipe	EW0985							ND		ug/100 cm ²
Control panel west of homocarbs	Wipe	EW0986							ND		ug/100 cm ²
Control panel south of 20" furnace	Wipe	EW0997							ND		ug/100 cm ²
Control panel west of north homocarb	Wipe	EW1002							ND		ug/100 cm ²
Control panel west of north homocarb	Wipe	EW1003							ND		ug/100 cm ²
Control panel south of 20" furnace	Wipe	EW1008							ND		ug/100 cm ²
10 One Tumbling Machine			Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
One foot verticle surface	Wipe	EW0568		ND							ug/100 cm ²
Two feet verticle	Wipe	EW0569		ND							ug/100 cm ²
Four feet verticle	Wipe	EW0570		ND							ug/100 cm ²
Top horizontal surface	Wipe	EW0571		ND							ug/100 cm ²
Inside surface of machine	Wipe	EW0572		37"							ug/100 cm ²
Inside tumbling machine	Wipe	EW0611			ND						ug/100 cm ²
One foot verticle	Wipe	EW0999							ND		ug/100 cm ²
Three feet horizontal	Wipe	EW1000							ND		ug/100 cm ²
11 Two Trichloroethylene Vapor Degreasers			Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Small Vapor Degreaser									ND		ug/100 cm ²
Vapor Degreaser apparatus	Wipe	EW1121									ug/100 cm ²
Eight feet verticle surface	Wipe	EW0378		ND							ug/100 cm ²
Four feet verticle surface	Wipe	EW0379		ND							ug/100 cm ²
Bottom horizontal surface	Wipe	EW0380		ND							ug/100 cm ²
Sediment sample from small vapor degreaser	Sediment	9E0381		ND							ug/100 cm ²
One foot	Wipe	EW0421			ND						ug/100 cm ²
One foot	Wipe	EW0422			ND						ug/100 cm ²
Four feet	Wipe	EW0423			ND						ug/100 cm ²
Four feet	Wipe	EW0424			1.9 J						ug/100 cm ²

ND - Not detected at reported detection limit

One foot	Wipe	EW0522									ND	ug/100 cm ²
One foot	Wipe	EW0523									5.6 J	ug/100 cm ²
One foot	Wipe	EW0524									3.7 J	ug/100 cm ²
Three feet	Wipe	EW0526									2.7 J	ug/100 cm ²
Three feet	Wipe	EW0527									29	ug/100 cm ²
Three feet	Wipe	EW0528									2.4 J	ug/100 cm ²
One foot	Wipe	EW0987									ND	ug/100 cm ²
Four feet verticle	Wipe	EW0998									ND	ug/100 cm ²
Large Vapor Degreaser												
	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2			Units
One foot	Wipe	EW0417		ND								ug/100 cm ²
One foot	Wipe	EW0418		4.2 J								ug/100 cm ²
Four feet	Wipe	EW0419		2.3 J								ug/100 cm ²
Four feet	Wipe	EW0420		ND								ug/100 cm ²
Solvent sample	Solvent	ST0278										
12 A-Frame Hoist												
	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2			Units
Hoist leg	Wipe	EW0302		ND								ug/100 cm ²
Hoist leg one foot	Wipe	EW0303		ND								ug/100 cm ²
Hoist leg, air hoist component	Wipe	EW0304		1.5 J								ug/100 cm ²
13 Four Normalizing Furnaces												
	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2			Units
West Normalizing Furnace												
West Furnace, one foot	Wipe	EW0252		ND								ug/100 cm ²
West Furnace, one foot	Wipe	EW0253		ND								ug/100 cm ²
West Furnace, one foot	Wipe	EW0254		5.9 J								ug/100 cm ²
West Furnace, three foot	Wipe	EW0255		ND								ug/100 cm ²
West Furnace, three foot	Wipe	EW0256		ND								ug/100 cm ²
West Furnace, three foot	Wipe	EW0257		4.3 J								ug/100 cm ²
Bottom one foot	Wipe	EW0927						ND				ug/100 cm ²
Three feet horizontal	Wipe	EW0928						ND				ug/100 cm ²
One foot verticle	Wipe	EW0981						ND				ug/100 cm ²
Four feet horizontal	Wipe	EW0982						ND				ug/100 cm ²
North Normalizing Furnace												
	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2			Units
North Furnace, one foot	Wipe	EW0258		37								ug/100 cm ²
North Furnace, one foot	Wipe	EW0259		ND								ug/100 cm ²
North Furnace, one foot	Wipe	EW0260		19								ug/100 cm ²
North Furnace, three foot	Wipe	EW0261		ND								ug/100 cm ²
North Furnace, three foot	Wipe	EW0262		ND								ug/100 cm ²
North Furnace, three foot	Wipe	EW0263		ND								ug/100 cm ²
North Furnace, one foot	Wipe	EW0334			5.5 J							ug/100 cm ²
North Furnace, one foot	Wipe	EW0335			5.8 J							ug/100 cm ²
North Furnace, one foot	Wipe	EW0336			7.8 J							ug/100 cm ²
North Furnace, one foot	Wipe	EW0337			3.3 J							ug/100 cm ²
Normalizing Furnace East												
	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2			Units
East Furnace, one foot	Wipe	EW0264		2.2 J								ug/100 cm ²
East Furnace, one foot	Wipe	EW0265		ND								ug/100 cm ²
East Furnace, one foot	Wipe	EW0266		ND								ug/100 cm ²
East Furnace, three foot	Wipe	EW0267		ND								ug/100 cm ²
East Furnace, three foot	Wipe	EW0268		ND								ug/100 cm ²
East Furnace, three foot	Wipe	EW0269		ND								ug/100 cm ²
Bottom one foot	Wipe	EW0937						ND				ug/100 cm ²
Three feet horizontal	Wipe	EW0930						ND				ug/100 cm ²
One foot verticle	Wipe	EW0927						ND				ug/100 cm ²
Three feet horizontal	Wipe	EW0928						ND				ug/100 cm ²
Three feet horizontal	Wipe	EW0930						ND				ug/100 cm ²
One foot verticle	Wipe	EW0937						ND				ug/100 cm ²
14 Induction Hardener and Transformer												
	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2			Units
Bottom one foot	Wipe	EW0343		80 E								ug/100 cm ²
Bottom one foot	Wipe	EW0344		4.1 J								ug/100 cm ²

ND - Not detected at reported detection limit

Bottom one foot	Wipe	EW0354	29								ug/100 cm ²
Bottom one foot	Wipe	EW0355	35								ug/100 cm ²
Bottom one foot	Wipe	EW0355	22								ug/100 cm ²
Three to five feet	Wipe	EW0347	ND								ug/100 cm ²
Top horizontal surface	Wipe	EW0348	1.2 J								ug/100 cm ²
Transformer bottom one foot	Wipe	EW0345	25								ug/100 cm ²
Transformer bottom one foot	Wipe	EW0357	49 E								ug/100 cm ²
Transformer bottom one foot	Wipe	EW0356	96 E								ug/100 cm ²
Transformer bottom one foot	Wipe	EW0359	11								ug/100 cm ²
Transformer three to five feet	Wipe	EW0348	12								ug/100 cm ²
Transformer three to five feet	Wipe	EW0349	3.7 J								ug/100 cm ²
# 1, one foot	Wipe	EW0425		ND							ug/100 cm ²
# 1, one foot	Wipe	EW0425		ND							ug/100 cm ²
# 1, four feet	Wipe	EW0427		ND							ug/100 cm ²
# 1, four feet	Wipe	EW0426		ND							ug/100 cm ²
# 2, one foot	Wipe	EW0429		17							ug/100 cm ²
# 2, one foot	Wipe	EW0430		7.5 J							ug/100 cm ²
# 2, four feet	Wipe	EW0431		ND							ug/100 cm ²
# 2, four feet	Wipe	EW0432		ND							ug/100 cm ²
# 3, one foot	Wipe	EW0434		7.6 J							ug/100 cm ²
# 3, one foot	Wipe	EW0435		4.4 J							ug/100 cm ²
# 3, four feet	Wipe	EW0436		ND							ug/100 cm ²
# 3, four feet	Wipe	EW0437		14							ug/100 cm ²
# 2, one foot	Wipe	EW0457			8.4						ug/100 cm ²
# 2, one foot	Wipe	EW0458			15						ug/100 cm ²
# 2, one foot	Wipe	EW0459			ND						ug/100 cm ²
# 3, one foot	Wipe	EW0460			2.0 J						ug/100 cm ²
# 3, one foot	Wipe	EW0461			2.5 J						ug/100 cm ²
# 3, one foot	Wipe	EW0462			5.1 J						ug/100 cm ²
# 2, one foot	Wipe	EW0475						ND			ug/100 cm ²
# 2, one foot	Wipe	EW0476						8.6 J			ug/100 cm ²
# 2, one foot	Wipe	EW0477						8.4			ug/100 cm ²
15 Homocarb Fumaces	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units	
Homocarb South											
Bottom one foot	Wipe	EW0212	ND							ug/100 cm ²	
Bottom one foot	Wipe	EW0213	ND							ug/100 cm ²	
Bottom one foot	Wipe	EW0214	3.9 J*							ug/100 cm ²	
Three to five feet	Wipe	EW0215	ND							ug/100 cm ²	
Three to five feet	Wipe	EW0216	31							ug/100 cm ²	
Three to five feet	Wipe	EW0217	ND							ug/100 cm ²	
Bottom one foot	Wipe	EW0360		5.3 J						ug/100 cm ²	
Bottom one foot	Wipe	EW0361		ND						ug/100 cm ²	
Bottom one foot	Wipe	EW0362		ND						ug/100 cm ²	
One foot verticle	Wipe	EW0979						ND		ug/100 cm ²	
Two feet horizontal	Wipe	EW0980						ND		ug/100 cm ²	
Homocarb Middle South	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units	
Bottom one foot	Wipe	EW0218	ND							ug/100 cm ²	
Bottom one foot	Wipe	EW0219	ND							ug/100 cm ²	
Bottom one foot	Wipe	EW0220	13*							ug/100 cm ²	
Three to five feet	Wipe	EW0221	ND							ug/100 cm ²	
Three to five feet	Wipe	EW0222	ND							ug/100 cm ²	
Three to five feet	Wipe	EW0223	ND							ug/100 cm ²	
Bottom one foot	Wipe	EW0363		4.8 J						ug/100 cm ²	
Bottom one foot	Wipe	EW0364		ND						ug/100 cm ²	
Bottom one foot	Wipe	EW0365		ND						ug/100 cm ²	
One foot verticle	Wipe	EW0977						ND		ug/100 cm ²	
Two feet horizontal	Wipe	EW0978						ND		ug/100 cm ²	
Homocarb Middle North	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units	
Bottom one foot	Wipe	EW0224	64 E							ug/100 cm ²	
Bottom one foot	Wipe	EW0225	30							ug/100 cm ²	

Bottom one foot	Wipe	EW0226	ND							ug/100 cm ²
Three feet	Wipe	EW0227	ND							ug/100 cm ²
Bottom one foot	Wipe	EW0366		240 E						ug/100 cm ²
Bottom one foot	Wipe	EW0367		12						ug/100 cm ²
Bottom one foot	Wipe	EW0368		4.6 J						ug/100 cm ²
One foot	Wipe	EW0400			ND					ug/100 cm ²
One foot	Wipe	EW0401			2.8 J					ug/100 cm ²
One foot verticle	Wipe	EW0975						ND		ug/100 cm ²
Two feet horizontal	Wipe	EW0976						ND		ug/100 cm ²
Homocarb North										
One foot	Wipe	EW0973	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Two feet horizontal	Wipe	EW0974						ND		ug/100 cm ²
								ND		ug/100 cm ²
18 30" Rotary Furnaces and Quench Chamber										
Three to five feet verticle surface	Wipe	EW0174	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Three to five feet verticle surface	Wipe	EW0186	ND							ug/100 cm ²
Three to five feet verticle surface	Wipe	EW0187	1.9 J							ug/100 cm ²
Three to five feet verticle surface	Wipe	EW0188	3.5 J							ug/100 cm ²
Three to five feet verticle surface	Wipe	EW0189	2.2 J							ug/100 cm ²
Horizontal surface above electrical box	Wipe	EW0175	ND							ug/100 cm ²
Bottom one foot	Wipe	EW0176	66"							ug/100 cm ²
Eight feet	Wipe	EW0177	ND							ug/100 cm ²
Ten feet horizontal surface	Wipe	EW0182	4.7 J							ug/100 cm ²
Ten feet horizontal surface	Wipe	EW0183	ND							ug/100 cm ²
Ten feet horizontal surface	Wipe	EW0184	ND							ug/100 cm ²
Ten feet horizontal surface	Wipe	EW0185	ND							ug/100 cm ²
Three to five feet verticle surface	Wipe	EW0282		26						ug/100 cm ²
Three to five feet verticle surface	Wipe	EW0283		19						ug/100 cm ²
Bottom one foot	Wipe	EW0280		13						ug/100 cm ²
Bottom one foot	Wipe	EW0281		49 E						ug/100 cm ²
Five to six feet	Wipe	EW0284		18						ug/100 cm ²
Five to six feet	Wipe	EW0285		6.8 J						ug/100 cm ²
One foot	Wipe	EW0382			6.2 J					ug/100 cm ²
One foot	Wipe	EW0383			5.0 J					ug/100 cm ²
Four feet	Wipe	EW0384			ND					ug/100 cm ²
Four feet	Wipe	EW0385			ND					ug/100 cm ²
Four feet horizontal surface	Wipe	EW0957						17		ug/100 cm ²
One foot verticle	Wipe	EW0958						ND		ug/100 cm ²
Four feet horizontal under alarm	Wipe	EW0959						ND		ug/100 cm ²
Four feet horizontal	Wipe	EW1009							8.7	ug/100 cm ²
Four feet horizontal	Wipe	EW1010							11	ug/100 cm ²
Four feet horizontal	Wipe	EW1421							ND	ug/100 cm ²
17 Three Flat Quench Presses										
Press ring from Flat Press after decon for - shipment to Wisconsin	Wipe	EW104	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
			ND							ug/100 cm ²
Flat Quench Press South										
Bottom one foot	Wipe	EW0237	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Bottom one foot	Wipe	EW0238	ND							ug/100 cm ²
Bottom one foot	Wipe	EW0239	6.4 J							ug/100 cm ²
Bottom one foot	Wipe	EW0328	7.9 J							ug/100 cm ²
Bottom one foot	Wipe	EW0329		20						ug/100 cm ²
One foot	Wipe	EW0399		33						ug/100 cm ²
One foot	Wipe	EW0399		ND						ug/100 cm ²
One foot	Wipe	EW0454		6.0 J						ug/100 cm ²
One foot	Wipe	EW0455			1.5 J					ug/100 cm ²
One foot	Wipe	EW0455			4.9 J					ug/100 cm ²
One foot	Wipe	EW0456			4.9 J					ug/100 cm ²
One foot verticle	Wipe	EW0969								ug/100 cm ²
Three feet horizontal	Wipe	EW0970						ND		ug/100 cm ²
								4.4 J		ug/100 cm ²

Flat Quench Press Middle		Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Bottom one foot		Wipe	EW0240	8.1							ug/100 cm ²
Bottom one foot		Wipe	EW0241	28							ug/100 cm ²
Bottom one foot		Wipe	EW0242	24							ug/100 cm ²
Bottom one foot		Wipe	EW0330		12						ug/100 cm ²
Bottom one foot		Wipe	EW0331		10						ug/100 cm ²
One foot		Wipe	EW0393		ND						ug/100 cm ²
One foot		Wipe	EW0396		ND						ug/100 cm ²
One foot		Wipe	EW0451			4.3 J					ug/100 cm ²
One foot verticle		Wipe	EW0967						ND		ug/100 cm ²
Four feet verticle		Wipe	EW0968						16		ug/100 cm ²
Four feet verticle		Wipe	EW1420						ND		ug/100 cm ²
Flat Quench Press North		Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Bottom one foot		Wipe	EW0243	8.5							ug/100 cm ²
Bottom one foot		Wipe	EW0244	150 E							ug/100 cm ²
Bottom one foot		Wipe	EW0245	37							ug/100 cm ²
Bottom one foot		Wipe	EW0246	15							ug/100 cm ²
Bottom one foot		Wipe	EW0232		13						ug/100 cm ²
Bottom one foot		Wipe	EW0333		25						ug/100 cm ²
Bottom one foot		Wipe	EW0328		20						ug/100 cm ²
Bottom one foot		Wipe	EW0332		13						ug/100 cm ²
One foot		Wipe	EW0394		7.5 J						ug/100 cm ²
One foot		Wipe	EW0397		8.1						ug/100 cm ²
One foot		Wipe	EW0448			5.8 J					ug/100 cm ²
One foot		Wipe	EW0449			14					ug/100 cm ²
Three feet		Wipe	EW0450			3.1 J					ug/100 cm ²
Three feet horizontal		Wipe	EW0965						16		ug/100 cm ²
One foot verticle		Wipe	EW0966						ND		ug/100 cm ²
Four foot horizontal		Wipe	EW1011							5.2 J	ug/100 cm ²
Three foot verticle		Wipe	EW1012							ND	ug/100 cm ²
16 24" Rotary Furnace		Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Bottom one foot		Wipe	EW0179	6.7 J ^a							ug/100 cm ²
Bottom one foot		Wipe	EW0190	ND							ug/100 cm ²
Bottom one foot		Wipe	EW0191	7.8 J							ug/100 cm ²
Bottom one foot		Wipe	EW0192	ND							ug/100 cm ²
Bottom one foot		Wipe	EW0193	15							ug/100 cm ²
Seven feet		Wipe	EW0178	ND							ug/100 cm ²
Nine feet		Wipe	EW0180	ND							ug/100 cm ²
Two feet		Wipe	EW0161	ND							ug/100 cm ²
Bottom one foot		Wipe	EW0288		4.8 J						ug/100 cm ²
Bottom one foot		Wipe	EW0290		ND						ug/100 cm ²
Bottom one foot		Wipe	EW0286		130 E						ug/100 cm ²
Bottom one foot		Wipe	EW0287		13						ug/100 cm ²
Bottom one foot		Wipe	EW0289		100 E						ug/100 cm ²
One foot		Wipe	EW0386			4.0 J					ug/100 cm ²
One foot		Wipe	EW0387			5.8 J					ug/100 cm ²
Four feet		Wipe	EW0388			ND					ug/100 cm ²
Six feet		Wipe	EW0389			ND					ug/100 cm ²
Bottom one foot verticle		Wipe	EW0960						ND		ug/100 cm ²
Four feet verticle left of alarm		Wipe	EW0961						ND		ug/100 cm ²
Three feet piping apparatus		Wipe	EW0962						ND		ug/100 cm ²
18 20" Rotary Furnace		Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Bottom one foot		Wipe	EW0291		5.4 J						ug/100 cm ²
Bottom one foot		Wipe	EW0293		2.4 J						ug/100 cm ²
Three to five feet		Wipe	EW0292		7.7 J						ug/100 cm ²
Three to five feet		Wipe	EW0294		45 E						ug/100 cm ²
Three to five feet		Wipe	EW0295		3.5 J						ug/100 cm ²
One foot		Wipe	EW0390			2.8 J					ug/100 cm ²
One foot		Wipe	EW0391			2.9 J					ug/100 cm ²
Four feet		Wipe	EW0392			ND					ug/100 cm ²

ND-Not detected at reported detection limit

Six feet	Wipe	EW0393		ND				ND		ug/100 cm ²
Two feet verticle	Wipe	EW0948						ND		ug/100 cm ²
Five feet verticle	Wipe	EW0949						ND		ug/100 cm ²
Two foot piping apparatus	Wipe	EW0950						ND		ug/100 cm ²
20 13 Rectifiers and Rack	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Bottom one foot	Wipe	EW0320	8.5							ug/100 cm ²
Bottom one foot	Wipe	EW0321	6.8 J							ug/100 cm ²
Three to five feet	Wipe	EW0322	5.4 J							ug/100 cm ²
Three to five feet	Wipe	EW0323	4.6 J							ug/100 cm ²
Three to five feet	Wipe	EW0324	ND							ug/100 cm ²
Three to five feet	Wipe	EW0325	3.6 J							ug/100 cm ²
Bottom one foot	Wipe	EW1414						ND		ug/100 cm ²
Four feet verticle	Wipe	EW1415						ND		ug/100 cm ²
21 Andoo Treatment System	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Top west plastic tank	Wipe	EW0350		2.4 J						ug/100 cm ²
Top west plastic tank	Wipe	EW0351		ND						ug/100 cm ²
Top east plastic tank	Wipe	EW0352		ND						ug/100 cm ²
Top east plastic tank	Wipe	EW0353		ND						ug/100 cm ²
Filter press control system, 5'	Wipe	EW0995						4.0 J		ug/100 cm ²
Control panel, five feet verticle	Wipe	EW0996						ND		ug/100 cm ²
22 Deep Freeze Unit	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Bottom one foot	Wipe	EW0270	37"							ug/100 cm ²
Bottom one foot	Wipe	EW0271	ND							ug/100 cm ²
Bottom one foot	Wipe	EW0272	ND							ug/100 cm ²
Bottom one foot	Wipe	EW0273	ND							ug/100 cm ²
Three to four feet	Wipe	EW0274	31"							ug/100 cm ²
Three to four feet	Wipe	EW0275	4.4 J*							ug/100 cm ²
Three to four feet	Wipe	EW0276	16"							ug/100 cm ²
Three to four feet	Wipe	EW0277	ND							ug/100 cm ²
Bottom one foot	Wipe	EW0336		ND						ug/100 cm ²
Bottom one foot	Wipe	EW0339		2.8 J						ug/100 cm ²
Three to four feet	Wipe	EW0340		3.6 J						ug/100 cm ²
One foot	Wipe	EW0402		ND						ug/100 cm ²
Four feet	Wipe	EW0423		ND						ug/100 cm ²
One foot	Wipe	EW0918						ND		ug/100 cm ²
Top horizontal surface	Wipe	EW0919						ND		ug/100 cm ²
Two feet verticle	Wipe	EW0920						ND		ug/100 cm ²
Bottom one foot	Wipe	EW0918						ND		ug/100 cm ²
Top horizontal surface	Wipe	EW0919						ND		ug/100 cm ²
Two feet verticle	Wipe	EW0920						ND		ug/100 cm ²
23 Wheelabrator Parts Cleaner (3 components)	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4			Units
Wheelabrator North										
Base	Wipe	EW0194	ND							ug/100 cm ²
Base	Wipe	EW0195	11							ug/100 cm ²
Base	Wipe	EW0206	ND							ug/100 cm ²
Five feet	Wipe	EW0200	ND							ug/100 cm ²
Five feet	Wipe	EW0201	ND							ug/100 cm ²
Base	Wipe	EW0296		11						ug/100 cm ²
Base	Wipe	EW0297		12						ug/100 cm ²
One foot	Wipe	EW0412		ND						ug/100 cm ²
Four feet	Wipe	EW0413		ND						ug/100 cm ²
One foot	Wipe	EW0921						ND		ug/100 cm ²
Six feet verticle surface	Wipe	EW0922						ND		ug/100 cm ²
Bottom one foot	Wipe	EW0921						ND		ug/100 cm ²
Six feet verticle	Wipe	EW0922						ND		ug/100 cm ²
Wheelabrator West	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Base	Wipe	EW0196	8.6"							ug/100 cm ²
Base	Wipe	EW0197	ND							ug/100 cm ²

ND - Not detected at reported detection limit

Base	Wipe	EW0207	ND							ug/100 cm ²
Five feet	Wipe	EW0202	11*							ug/100 cm ²
Five feet	Wipe	EW0203	ND							ug/100 cm ²
Base	Wipe	EW0300		8.0 J						ug/100 cm ²
Base	Wipe	EW0301		18						ug/100 cm ²
One foot	Wipe	EW0404		ND						ug/100 cm ²
Four feet	Wipe	EW0405		ND						ug/100 cm ²
Bottom one foot	Wipe	EW0923						ND		ug/100 cm ²
Three feet verticle	Wipe	EW0924						ND		ug/100 cm ²
Wheabrator East										
	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Base	Wipe	EW0198	21							ug/100 cm ²
Base	Wipe	EW0199	ND							ug/100 cm ²
Five feet	Wipe	EW0204	3.5 J*							ug/100 cm ²
Five feet	Wipe	EW0205	ND							ug/100 cm ²
Base	Wipe	EW0298		3.4 J						ug/100 cm ²
Base	Wipe	EW0299		6.3 J						ug/100 cm ²
Five feet horizontal	Wipe	EW0634			ND					ug/100 cm ²
Four feet horizontal	Wipe	EW0635			38					ug/100 cm ²
Four feet verticle	Wipe	EW0636			ND					ug/100 cm ²
Three feet horizontal	Wipe	EW0639			ND					ug/100 cm ²
Bottom one foot	Wipe	EW0925						ND		ug/100 cm ²
Six feet horizontal	Wipe	EW0926						ND		ug/100 cm ²
24 Herman Stacker										
	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4			Units
Bottom one foot	Wipe	EW0305	15							ug/100 cm ²
Bottom one foot	Wipe	EW0306	3.0 J							ug/100 cm ²
Bottom one foot	Wipe	EW0311	ND							ug/100 cm ²
Three feet	Wipe	EW0312	6.1 J							ug/100 cm ²
Three feet	Wipe	EW0309	10							ug/100 cm ²
Three feet	Wipe	EW0308	6.4 J							ug/100 cm ²
Six feet	Wipe	EW0307	2.3 J							ug/100 cm ²
Six feet	Wipe	EW0310	17							ug/100 cm ²
Six feet	Wipe	EW0313	1.8 J							ug/100 cm ²
LR component	Wipe	EW0318	5.1 J							ug/100 cm ²
LR component	Wipe	EW0319	4.4 J							ug/100 cm ²
One foot	Wipe	EW0406			6.2 J					ug/100 cm ²
One foot	Wipe	EW0407			1.8 J					ug/100 cm ²
One foot	Wipe	EW0408			6.3 J					ug/100 cm ²
Four feet	Wipe	EW0409			ND					ug/100 cm ²
Six feet	Wipe	EW0410			ND					ug/100 cm ²
Nine feet	Wipe	EW0411			2.2 J					ug/100 cm ²
Nine feet	Wipe	EW0418			ND					ug/100 cm ²
Six" horizontal	Wipe	EW0983						ND		ug/100 cm ²
Four feet horizontal	Wipe	EW0994						ND		ug/100 cm ²
25 Steel Plates, Floor Trenches and Trench Covers										
	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4			Units
Plate south of Transition door (underside)	Wipe	FW0314	9.7							ug/100 cm ²
Plate south of Transition door	Wipe	FW0315	16							ug/100 cm ²
Plate near Transition door (underside)	Wipe	FW0318	7.4 J							ug/100 cm ²
Plate near Transition door	Wipe	FW0317	5.8 J							ug/100 cm ²
Plate north of small TCE Unit (underside)	Wipe	FW0341	1.3 J							ug/100 cm ²
Plate north of small TCE Unit	Wipe	FW0342	4.5 J							ug/100 cm ²
Plate	Wipe	FW0789	36							ug/100 cm ²
Plate	Wipe	FW0790	17							ug/100 cm ²
Plate	Wipe	FW0791	13							ug/100 cm ²
Plate	Wipe	FW0792	11							ug/100 cm ²
Plate	Wipe	FW0793	16							ug/100 cm ²
Plate	Wipe	FW0794	5.4 J							ug/100 cm ²
Plate	Wipe	FW0795	25							ug/100 cm ²
Plate	Wipe	FW0796	110 E							ug/100 cm ²
Plate	Wipe	FW0797	36							ug/100 cm ²
Plate	Wipe	FW0798	6.3							ug/100 cm ²

ND - Not detected at reported detection limit

Plate	Wipe	FW0799		8.8						ug/100 cm ²
Plate	Wipe	FW0800		8.8						ug/100 cm ²
Plate	Wipe	FW0801		38						ug/100 cm ²
Plate	Wipe	FW0802		93 E						ug/100 cm ²
Plate	Wipe	FW0803		190 E						ug/100 cm ²
Plate	Wipe	FW0804		12						ug/100 cm ²
Plate	Wipe	FW0805		34						ug/100 cm ²
Fixed plate west of middle north Homocarb	Wipe	FW1079		30						ug/100 cm ²
Fixed plate west of Main quench tank	Wipe	FW1080		2.6 J						ug/100 cm ²
Fixed plate north of Large TCE Vapor Degreaser	Wipe	FW1090		5.4 J						ug/100 cm ²
Fixed plate south of Large TCE Vapor Degreaser	Wipe	FW1091		6.0 J						ug/100 cm ²
Fixed plate north of stairway to basement	Wipe	FW1092		9.7						ug/100 cm ²
Fixed plate near wheelabrator north	Wipe	FW0933		21						ug/100 cm ²
Fixed plate near wheelabrator north	Wipe	FW0934		ND						ug/100 cm ²
Plate near east Normalizing furnace	Wipe	FW0935		2.8 J						ug/100 cm ²
Plate near Deep Freeze Unit	Wipe	FW0936		13						ug/100 cm ²
Plate near east Normalizing furnace	Wipe	FW0929		ND						ug/100 cm ²
Plate westward interior plating line	Wipe	FW0951		7.0 J						ug/100 cm ²
Plate westward interior plating line	Wipe	FW0952		ND						ug/100 cm ²
Plate westward exterior plating line	Wipe	FW0953		54 E						ug/100 cm ²
Plate westward exterior plating line	Wipe	FW0954		8.9						ug/100 cm ²
Plate westward exterior plating line	Wipe	FW0955		57 E						ug/100 cm ²
Fixed plate westward exterior plating line	Wipe	FW0956		8.6						ug/100 cm ²
Plate south of west garage entrance	Wipe	FW1144		3.5 J						ug/100 cm ²
Plate south of west garage entrance	Wipe	FW1145		13						ug/100 cm ²
Plate westward from north Homocarb	Wipe	FW1146		4.8 J						ug/100 cm ²
Plate westward middle Homocarb	Wipe	FW1147		ND						ug/100 cm ²
Plate west of small TCE around Normalizing furnace	Wipe	FW1148		3.2 J						ug/100 cm ²
Fixed plate south of transition door	Wipe	FW1153			13					ug/100 cm ²
Plate south of plating line	Wipe	FW1157			27					ug/100 cm ²
Plate south of plating line	Wipe	FW1158			21					ug/100 cm ²
Plate south of plating line	Wipe	FW1159			18					ug/100 cm ²
Plate south of plating line	Wipe	FW1160			3.3 J					ug/100 cm ²
Basement plate around large east sump	Wipe	FW1155				180 E				ug/100 cm ²
Basement plate around large east sump	Wipe	FW1156				260 E				ug/100 cm ²
Plate south of plating line	Wipe	FW1250				18				ug/100 cm ²
Plate south of plating line	Wipe	FW1251				2.4 J				ug/100 cm ²
Plate west of 36" furnace	Wipe	FW1151						2.8 J		ug/100 cm ²
Plate west of 36" furnace	Wipe	FW1152						ND		ug/100 cm ²
Plate northwest corner of Heat Treat	Wipe	FW1154						1.7 J		ug/100 cm ²
Plate south of transition door	Wipe	FW1249						ND		ug/100 cm ²
Plate near homocarb	Wipe	FW1015						ND		ug/100 cm ²
Plate near homocarb	Wipe	FW1016						ND		ug/100 cm ²
Plate near homocarb	Wipe	FW1017						ND		ug/100 cm ²
Plate near homocarb	Wipe	FW1018						ND		ug/100 cm ²
Plate west of large TCE degreaser	Wipe	FW1019						ND		ug/100 cm ²
Plate west of homocarb	Wipe	FW1020						ND		ug/100 cm ²
Plate west of homocarb	Wipe	FW1021						ND		ug/100 cm ²
Plate from east-west row near Wheelabrator	Wipe	FW0946						ND		ug/100 cm ²
Plate from east-west row near Wheelabrator	Wipe	FW0947						ND		ug/100 cm ²
Plate south of plating line #1	Wipe	FW1545						17		ug/100 cm ²
Plate south of plating line #4	Wipe	FW1546						34		ug/100 cm ²
Plate south of plating line #7	Wipe	FW1547						48 E		ug/100 cm ²
88 Square Quench Tank	Sample Type	Sample ID #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Bottom one foot	Wipe	EW0326		27						ug/100 cm ²
Bottom one foot	Wipe	EW0327		27						ug/100 cm ²
One foot	Wipe	EW0414			1.5 J					ug/100 cm ²
One foot	Wipe	EW0415			1.5 J					ug/100 cm ²
Bottom one foot verticle	Wipe	EW0963						14		ug/100 cm ²
Two feet verticle	Wipe	EW0964						ND		ug/100 cm ²
One foot verticle	Wipe	EW1013							6.6 J	ug/100 cm ²
Two feet verticle	Wipe	EW1014							6.6 J	ug/100 cm ²

ND - Not detected at reported detection limit

27	Furniture Stored in Annex Building	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
	Green steel cabinet	Wipe	EW0691	ND							ug/100 cm ²
	Five foot steel rack, bottom shelf	Wipe	EW0692	4.2 J*							ug/100 cm ²
	Blue steel rack "oil hardening" bottom shelf	Wipe	EW0693	11*							ug/100 cm ²
	Blue steel cabinet, bottom 6"	Wipe	EW0694	ND							ug/100 cm ²
	Blue 16" rack, bottom rack	Wipe	EW0695	ND							ug/100 cm ²
	Greenish blue rack with three foot rail	Wipe	EW0696	41E*							ug/100 cm ²
	Blue plating container, one foot	Wipe	EW0697	24							ug/100 cm ²
	Three door filing cabinet	Wipe	EW0698	ND							ug/100 cm ²
	Blue four foot apparatus (two gages on top)	Wipe	EW0699	ND							ug/100 cm ²
	Blue steel storage cabinet, handle	Wipe	EW0700	ND							ug/100 cm ²
	Blue four foot rack on green crate	Wipe	EW0701	12*							ug/100 cm ²
	Push cart with three racks	Wipe	EW0702	ND							ug/100 cm ²
	Blue storage cabinet, top	Wipe	EW0703	ND							ug/100 cm ²
	Blue three foot push cart with three racks	Wipe	EW0704	ND							ug/100 cm ²
	Toledo scale, one foot	Wipe	EW0705	19*							ug/100 cm ²
	Toledo scale, four feet	Wipe	EW0706	ND							ug/100 cm ²
	Three foot blue mbing bath, electrical box	Wipe	EW0707	ND							ug/100 cm ²
	Blue steel two shelf rack, 6x4"	Wipe	EW0708	7.9 J*							ug/100 cm ²
	Steel brownish two shelf push cart, 6x4"	Wipe	EW0709	22*							ug/100 cm ²
	Green filing cabinet	Wipe	EW0710	ND							ug/100 cm ²
	Toledo Scale	Wipe	EW1322						ND		ug/100 cm ²
	Green 6" rack	Wipe	EW1323						6.8 J*		ug/100 cm ²
	Blue flier	Wipe	EW1317						ND		ug/100 cm ²
	Blue plating bath	Wipe	EW1318						ND		ug/100 cm ²
	Brown table with squares	Wipe	EW1319						ND		ug/100 cm ²
	Blue five shelf rack	Wipe	EW1320						ND		ug/100 cm ²
	Blue five shelf rack	Wipe	EW1321						ND		ug/100 cm ²
	Blue File Cabinet	Wipe	EW1327						ND		ug/100 cm ²
	Blue Paint Cabinet Handles	Wipe	EW1328						ND		ug/100 cm ²
	Blue Paint Cabinet Handles	Wipe	EW1329						ND		ug/100 cm ²
	Blue Paint Cabinet Inside Shelf	Wipe	EW1330						4.2 J		ug/100 cm ²
28	Ductwork to be Reinstalled	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
29	Baker Tank	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
	Baker tank, floor	Wipe	EW1351	ND							ug/100 cm ²
	Baker tank, floor	Wipe	EW1352	ND							ug/100 cm ²
	Baker tank, floor	Wipe	EW1353	ND							ug/100 cm ²
	Baker tank, wall	Wipe	EW1354	ND							ug/100 cm ²
	Baker tank, wall	Wipe	EW1355	ND							ug/100 cm ²
	Baker tank, wall	Wipe	EW1356	ND							ug/100 cm ²
	Baker tank, wall	Wipe	EW1357	ND							ug/100 cm ²
	Baker tank, wall	Wipe	EW1358	ND							ug/100 cm ²
	Baker tank, wall	Wipe	EW1359	ND							ug/100 cm ²
	Baker tank floor	Wipe	EW1360	ND							ug/100 cm ²
32	Waste Generated During Remediation	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
	Wastewater Tanker # 1 left from EP&S activities	Water	W0105	4.8							ppb
	Wastewater Tanker # 1 left from EP&S activities - after additional wastewater by Allwash	Water	W0108	86.0							ppb
	Wastewater generated from personnel showers	Water	W0109	ND							ppb
	Wastewater generated from personnel showers - tested August 29, 1992	Water	W1335	ND							ppb
	Wastewater generated from personnel showers	Water	W0483	ND							ppb
	Wastewater generated from personnel showers - 7/22/92	Water	W0661	ND							ppb
	Water sample from tanker # 1	Water	W0135	4.5							ppb
	Water sample from tanker # 1	Water	W0136	290							ppb
	Water sample from tanker # 2	Water	W0137	23							ppb
	Water sample from tanker # 2	Water	W0138	570							ppb
	Wastewater generated from personnel showers - tested September 11, 1992	Water	W1413	ND							ppb

Wastewater generated from personnel	Water	W1589	ND							ppb
Wastewater from floor cleaning machine	Water	W1588	10 E ^a							ppb
38 Air Monitoring for Health and Safety	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Preremediation time weighted average air-quality sample from basement near mother tank	Florisil Tube	AT040F	ND							
	Florisil Tube	AT040B	ND							
	Florisil Tube	AT041F	ND							
	Florisil Tube	AT041B	ND							
Preremediation time weighted average air-quality sample from 1st floor near furnaces	Florisil Tube	AT042F	ND							
	Florisil Tube	AT042B	ND							
	Florisil Tube	AT043F	ND							
	Florisil Tube	AT043B	ND							
Preremediation time weighted average air-quality sample trip blank	Florisil Tube	AB044F	ND							
	Florisil Tube	AB044B	ND							
Sample during building decontamination, pump # 16, located inside exhaust vent	Silica Tube	AT0373								
Sample during building decontamination, pump #E591, located in Heat Treat bldg near 20" rotary furnace	Charcoal Tube	AT0374								
Sample during building decontamination, pump # E591, located inside Heat Treat bldg near 20" rotary furnace	Silica Tube	AT0375								
Sample during building decontamination, pump # 5164, located inside room west of the Heat Treat area near ext	Charcoal Tube	AT0376								
Sample during building decontamination, pump # 5164, located inside room west of the Heat Treat area near ext	Silica Tube	AT0377								
Main floor of Heat Treat garage access way		AT0767								
Main floor of Heat Treat		AT0768								
Basement of Heat Treat during Florline grinding		AT0870								
Basement of Heat Treat during Florline grinding		AT0871								
First Floor Heat Treat		AT0872								
39 Basement Ceiling	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Ceiling wipe	Wipe	CW0769	53 E							ug/100 cm ²
Ceiling wipe	Wipe	CW0770	17							ug/100 cm ²
Ceiling wipe	Wipe	CW0771	80 E							ug/100 cm ²
Ceiling wipe	Wipe	CW0772	11							ug/100 cm ²
Ceiling wipe	Wipe	CW0773	58 E							ug/100 cm ²
Ceiling wipe	Wipe	CW0774	100 E							ug/100 cm ²
Ceiling wipe	Wipe	CW0775	ND							ug/100 cm ²
Ceiling wipe	Wipe	CW0776	28							ug/100 cm ²
Ceiling wipe	Wipe	CW0777	3.7 J							ug/100 cm ²
Ceiling wipe	Wipe	CW0778	ND							ug/100 cm ²
Ceiling wipe	Wipe	CW0779	4.1 J							ug/100 cm ²
Ceiling wipe	Wipe	CW0780	1600 E							ug/100 cm ²
Ceiling wipe	Wipe	CW0781	5.7 J							ug/100 cm ²
Ceiling wipe	Wipe	CW0782	28							ug/100 cm ²
Ceiling wipe	Wipe	CW0783	150 E							ug/100 cm ²
Ceiling wipe	Wipe	CW0784	4.4 J							ug/100 cm ²
Ceiling wipe	Wipe	CW0785	2.5 J							ug/100 cm ²
Ceiling wipe	Wipe	CW0786	4.8 J							ug/100 cm ²
Ceiling wipe	Wipe	CW1046						8.5		ug/100 cm ²
Ceiling wipe	Wipe	CW1047						140 E		ug/100 cm ²
Ceiling wipe	Wipe	CW1048						ND		ug/100 cm ²
Ceiling wipe	Wipe	CW1049						35		ug/100 cm ²

ND - Not detected at reported detection limit

Ceiling wipe	Wipe	CW1050						4.3 J	ug/100 cm ²	
Ceiling wipe	Wipe	CW1051						4.4 J	ug/100 cm ²	
Ceiling wipe	Wipe	CW1052						55 E	ug/100 cm ²	
Ceiling wipe	Wipe	CW1053						240 E	ug/100 cm ²	
Ceiling wipe	Wipe	CW1054						2600 E	ug/100 cm ²	
Ceiling wipe	Wipe	CW1055						34	ug/100 cm ²	
Ceiling wipe	Wipe	CW1056						110 E	ug/100 cm ²	
Ceiling wipe	Wipe	CW1057						3.8 J	ug/100 cm ²	
Ceiling wipe	Wipe	CW1058						2.0 J	ug/100 cm ²	
Ceiling wipe	Wipe	CW1059						4.4 J	ug/100 cm ²	
Ceiling wipe	Wipe	CW1060						2.5 J	ug/100 cm ²	
Ceiling wipe	Wipe	CW1061						7.4 J	ug/100 cm ²	
Ceiling wipe	Wipe	CW1062						7.3 J	ug/100 cm ²	
Ceiling wipe	Wipe	CW1063						15	ug/100 cm ²	
Ceiling wipe	Wipe	CW1064						220 E	ug/100 cm ²	
Ceiling wipe	Wipe	CW1065						3.0 J	ug/100 cm ²	
Ceiling wipe	Wipe	CW1066						ND	ug/100 cm ²	
Ceiling wipe	Wipe	CW1067						1.5 J	ug/100 cm ²	
Ceiling wipe	Wipe	CW1068						ND	ug/100 cm ²	
Ceiling wipe	Wipe	CW1069						2.5 J	ug/100 cm ²	
34. Basement Walls										
Basement North Wall	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Pipe wipe	Wipe	WW0633	12							ug/100 cm ²
Wall wipe	Wipe	WW0634	12							ug/100 cm ²
Wall wipe	Wipe	WW0635	29							ug/100 cm ²
Wall panel # 4	Wipe	WW0635	ND							ug/100 cm ²
Electric panel	Wipe	WW0637	76							ug/100 cm ²
Wall wipe	Wipe	WW0656		10						ug/100 cm ²
Wall wipe	Wipe	WW0659		4.0 J						ug/100 cm ²
Wall wipe	Wipe	WW0660		ND						ug/100 cm ²
Wall wipe	Wipe	WW0661		ND						ug/100 cm ²
Wall wipe	Wipe	WW0662		ND						ug/100 cm ²
Wall wipe	Wipe	WW0665		17						ug/100 cm ²
Wall wipe	Wipe	WW0664		19						ug/100 cm ²
Wall wipe	Wipe	WW0665		21						ug/100 cm ²
Wall wipe	Wipe	WW0668		10						ug/100 cm ²
Wall wipe	Wipe	WW0667		ND						ug/100 cm ²
Wall wipe	Wipe	WW0668		6.9 J						ug/100 cm ²
Wall wipe	Wipe	WW0669		12						ug/100 cm ²
Wall wipe	Wipe	WW1272						ND		ug/100 cm ²
Wall wipe	Wipe	WW1273						3.2 J		ug/100 cm ²
Wall wipe	Wipe	WW1274						12		ug/100 cm ²
Wall wipe	Wipe	WW1275						6.8 J		ug/100 cm ²
Wall wipe	Wipe	WW1276						2.9 J		ug/100 cm ²
Wall wipe	Wipe	WW1277						24		ug/100 cm ²
Wall wipe	Wipe	WW1276						13		ug/100 cm ²
Wall wipe	Wipe	WW1279						8.4		ug/100 cm ²
Wall wipe	Wipe	WW1280						20		ug/100 cm ²
Wall wipe	Wipe	WW1281						24		ug/100 cm ²
Wall wipe	Wipe	WW1282						21		ug/100 cm ²
Wall wipe	Wipe	WW1283						11		ug/100 cm ²
Wall wipe	Wipe	WW1284						13		ug/100 cm ²
Wall wipe	Wipe	WW1285						9.5		ug/100 cm ²
Basement South Wall										
Wall wipe	Wipe	WW0643	ND							ug/100 cm ²
Wall wipe	Wipe	WW0644	ND							ug/100 cm ²
Wall wipe	Wipe	WW0646	3.7 J							ug/100 cm ²
Pipe wipe	Wipe	WW0653	30							ug/100 cm ²
Wall wipe	Wipe	WW0646		ND						ug/100 cm ²
Wall wipe	Wipe	WW0647		4.0 J						ug/100 cm ²

ND—Not detected at reported detection limit

Wall wipe	Wipe	WW0848		13						ug/100 cm ²
Wall wipe	Wipe	WW0849		3.0 J						ug/100 cm ²
Wall wipe	Wipe	WW0850		3.7 J						ug/100 cm ²
Wall wipe	Wipe	WW0851		2.8 J						ug/100 cm ²
Wall wipe	Wipe	WW0852		ND						ug/100 cm ²
Wall wipe	Wipe	WW0853		ND						ug/100 cm ²
Wall wipe	Wipe	WW0854		ND						ug/100 cm ²
Wall wipe	Wipe	WW0855		ND						ug/100 cm ²
Wall wipe	Wipe	WW0856		ND						ug/100 cm ²
Wall wipe	Wipe	WW0857		2.5 J						ug/100 cm ²
Wall wipe	Wipe	WW1258						18		ug/100 cm ²
Wall wipe	Wipe	WW1259						7.3 J		ug/100 cm ²
Wall wipe	Wipe	WW1260						4.9 J		ug/100 cm ²
Wall wipe	Wipe	WW1261						3.1 J		ug/100 cm ²
Wall wipe	Wipe	WW1262						3.0 J		ug/100 cm ²
Wall wipe	Wipe	WW1263						2.4 J		ug/100 cm ²
Wall wipe	Wipe	WW1264						2.4 J		ug/100 cm ²
Wall wipe	Wipe	WW1265						2.1 J		ug/100 cm ²
Wall wipe	Wipe	WW1266						ND		ug/100 cm ²
Wall wipe	Wipe	WW1267						5.6 J		ug/100 cm ²
Wall wipe	Wipe	WW1268						ND		ug/100 cm ²
Wall wipe	Wipe	WW1269						ND		ug/100 cm ²
Wall wipe	Wipe	WW1270						2.1 J		ug/100 cm ²
Wall wipe	Wipe	WW1271						ND		ug/100 cm ²
Basement East Wall	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Pipe wipe	Wipe	WW0854	15							ug/100 cm ²
Pipe wipe	Wipe	WW0855	53							ug/100 cm ²
Wall wipe	Wipe	WW0855	25							ug/100 cm ²
Pipe wipe	Wipe	WW0857	ND							ug/100 cm ²
Wall wipe	Wipe	WW0855	ND							ug/100 cm ²
Wall wipe	Wipe	WW0806		10						ug/100 cm ²
Wall wipe	Wipe	WW0807		10						ug/100 cm ²
Wall wipe	Wipe	WW0808		4.5 J						ug/100 cm ²
Wall wipe	Wipe	WW0809		5.9 J						ug/100 cm ²
Wall wipe	Wipe	WW0810		24						ug/100 cm ²
Wall wipe	Wipe	WW0811		7.3 J						ug/100 cm ²
Wall wipe	Wipe	WW0812		2.6 J						ug/100 cm ²
Wall wipe	Wipe	WW0813		8.9						ug/100 cm ²
Wall wipe	Wipe	WW0814		3.1 J						ug/100 cm ²
Wall wipe	Wipe	WW0815		46 E						ug/100 cm ²
Wall wipe	Wipe	WW0816		7.9 J						ug/100 cm ²
Wall wipe	Wipe	WW0817		3.3 J						ug/100 cm ²
Wall wipe	Wipe	WW0818		12						ug/100 cm ²
Wall wipe	Wipe	WW1209						9.3		ug/100 cm ²
Wall wipe	Wipe	WW1210						ND		ug/100 cm ²
Wall wipe	Wipe	WW1211						3.5 J		ug/100 cm ²
Wall wipe	Wipe	WW1212						7.0 J		ug/100 cm ²
Wall wipe	Wipe	WW1213						5.6 J		ug/100 cm ²
Wall wipe	Wipe	WW1214						5.1 J		ug/100 cm ²
Wall wipe	Wipe	WW1215						6.1 J		ug/100 cm ²
Wall wipe	Wipe	WW1216						17		ug/100 cm ²
Wall wipe	Wipe	WW1217						5.1 J		ug/100 cm ²
Wall wipe	Wipe	WW1218						4.7 J		ug/100 cm ²
Wall wipe	Wipe	WW1219						34		ug/100 cm ²
Wall wipe	Wipe	WW1220						ND		ug/100 cm ²
Wall wipe	Wipe	WW1221						5.4 J		ug/100 cm ²
Wall wipe	Wipe	WW1222						12		ug/100 cm ²
Wall wipe	Wipe	WW1223						ND		ug/100 cm ²
Wall wipe	Wipe	WW1224						3.1 J		ug/100 cm ²
Wall wipe	Wipe	WW1225						ND		ug/100 cm ²
Wall wipe	Wipe	WW1225						2.8 J		ug/100 cm ²
Wall wipe	Wipe	WW1227						16		ug/100 cm ²

ND—Not detected at reported detection limit

Basement West Wall	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Wall wipe	Wipe	WW0638	22							ug/100 cm ²
Pipe wipe	Wipe	WW0640	31							ug/100 cm ²
Pipe wipe	Wipe	WW0642	17							ug/100 cm ²
Wall wipe	Wipe	WW0819		2.8 J						ug/100 cm ²
Wall wipe	Wipe	WW0820		7.2 J						ug/100 cm ²
Wall wipe	Wipe	WW0821		5.6 J						ug/100 cm ²
Wall wipe	Wipe	WW0822		4.2 J						ug/100 cm ²
Wall wipe	Wipe	WW0823		3.0 J						ug/100 cm ²
Wall wipe	Wipe	WW0824		3.1 J						ug/100 cm ²
Wall wipe	Wipe	WW0825		100 E						ug/100 cm ²
Wall wipe	Wipe	WW0826		4.4 J						ug/100 cm ²
Wall wipe	Wipe	WW0827		10						ug/100 cm ²
Wall wipe	Wipe	WW0828		8.5 J						ug/100 cm ²
Wall wipe	Wipe	WW0829		ND						ug/100 cm ²
Wall wipe	Wipe	WW0830		4.4 J						ug/100 cm ²
Wall wipe	Wipe	WW1228						ND		ug/100 cm ²
Wall wipe	Wipe	WW1229						5.8 J		ug/100 cm ²
Wall wipe	Wipe	WW1230						ND		ug/100 cm ²
Wall wipe	Wipe	WW1231						4.9 J		ug/100 cm ²
Wall wipe	Wipe	WW1232						5.8 J		ug/100 cm ²
Wall wipe	Wipe	WW1233						ND		ug/100 cm ²
Wall wipe	Wipe	WW1234						5.2 J		ug/100 cm ²
Wall wipe	Wipe	WW1235						5.1 J		ug/100 cm ²
Wall wipe	Wipe	WW1236						3.1 J		ug/100 cm ²
Wall wipe	Wipe	WW1237						7.7 J		ug/100 cm ²
Wall wipe	Wipe	WW1238						6.8 J		ug/100 cm ²
Wall wipe	Wipe	WW1239						5.4 J		ug/100 cm ²
Wall wipe	Wipe	WW1240						69 E		ug/100 cm ²
Wall wipe	Wipe	WW1241						4.4 J		ug/100 cm ²
Wall wipe	Wipe	WW1242						7.2 J		ug/100 cm ²
Wall wipe	Wipe	WW1243						4.9 J		ug/100 cm ²
Wall wipe	Wipe	WW1244						6.1 J		ug/100 cm ²
Wall wipe	Wipe	WW1245						ND		ug/100 cm ²
Wall wipe	Wipe	WW1246						2.8 J		ug/100 cm ²
37 Basement Floors	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Floor wipe	Wipe	FW1070						ND		ug/100 cm ²
Floor wipe	Wipe	FW1071						ND		ug/100 cm ²
Floor wipe	Wipe	FW1072						ND		ug/100 cm ²
Floor wipe	Wipe	FW1073						ND		ug/100 cm ²
Floor wipe	Wipe	FW1074						ND		ug/100 cm ²
Floor wipe	Wipe	FW1075						ND		ug/100 cm ²
Floor wipe	Wipe	FW1076						ND		ug/100 cm ²
Floor wipe	Wipe	FW1077						ND		ug/100 cm ²
Floor wipe	Wipe	FW1078						ND		ug/100 cm ²
Floor wipe	Wipe	FW1080						ND		ug/100 cm ²
Floor wipe	Wipe	FW1081						ND		ug/100 cm ²
Floor wipe	Wipe	FW1082						ND		ug/100 cm ²
Floor wipe	Wipe	FW1083						ND		ug/100 cm ²
Floor wipe	Wipe	FW1084						ND		ug/100 cm ²
Floor wipe	Wipe	FW1085						ND		ug/100 cm ²
Floor wipe	Wipe	FW1086						ND		ug/100 cm ²
Floor wipe	Wipe	FW1087						ND		ug/100 cm ²
Floor wipe	Wipe	FW1088						ND		ug/100 cm ²
38 Basement Exhaust Ventilation Duct	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Fan unit	Wipe	EW1305						ND		ug/100 cm ²
Fan unit	Wipe	EW0308						ND		ug/100 cm ²
40 Basement Piping and Equipment Appurtenances	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units

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	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
41. Basement Electrical Cabinets:										
480 volts, Induction Furnace	Wipe	EW1288						9.7		ug/100 cm ²
Panel # 8588	Wipe	EW1289						ND		ug/100 cm ²
Panel # 8	Wipe	EW1290						5.8 J		ug/100 cm ²
Panel # 8501	Wipe	EW1291						4.0 J		ug/100 cm ²
Panel # 8513	Wipe	EW1292						3.1 J		ug/100 cm ²
Panel # 2	Wipe	EW1293						9.6		ug/100 cm ²
42. Basement Mother Tank:										
Four feet verticle surface	Wipe	EW0859	300							ug/100 cm ²
One foot verticle	Wipe	EW0860	300							ug/100 cm ²
North side, four feet, verticle	Wipe	EW1294						9.9		ug/100 cm ²
East side, one foot, verticle	Wipe	EW1295						5.9 J		ug/100 cm ²
West side, one foot, verticle	Wipe	EW1296						29		ug/100 cm ²
South side, four feet, verticle	Wipe	EW1297						ND		ug/100 cm ²
Top cover of Mother tank	Wipe	EW1298						ND		ug/100 cm ²
43. pH Adjustment Tank and Appurtenances:										
South east poly tank	Wipe	EW0945	6.6 J							ug/100 cm ²
Southeast poly tank	Wipe	EW1301						ND		ug/100 cm ²
Southeast poly tank	Wipe	EW1302						ND		ug/100 cm ²
44. Return Water Tank:										
One foot verticle	Wipe	EW1303						3.0 J		ug/100 cm ²
One foot verticle	Wipe	EW1304						3.4 J		ug/100 cm ²
45. Three Basement Sumps:										
Unlined sump in southeast corner of basement	Sediment	SE090	110							ppm
Concrete lined sump along south wall in basement	Sediment	SE091	3,300							ppm
Soil beneath basement floor 4' east of mother tank	Soil	SS093	1,300							ppm
46. Four Homocarb Basement:										
North Homocarb:										
Base of Homocarb	Wipe	EW0639	ND							ug/100 cm ²
Bottom leg of Homocarb	Wipe	EW1286						ND		ug/100 cm ²
North middle Homocarb:										
Base of Homocarb	Wipe	EW0841	44							ug/100 cm ²
Bottom leg of Homocarb	Wipe	EW1287						ND		ug/100 cm ²
South middle Homocarb:										
Bottom leg of Homocarb	Wipe	EW1299						ND		ug/100 cm ²
South Homocarb:										
Bottom leg of Homocarb	Wipe	EW1300						ND		ug/100 cm ²
Miscellaneous Equipment and Appurtenances:										
47. Interior Stairway:										
Stair tred to basement	Wipe	FW1098		160 E						ug/100 cm ²
Stair tred to basement	Wipe	FW1149			10					ug/100 cm ²
Stair tred to basement	Wipe	FW1150			23					ug/100 cm ²
Stair tred to basement	Wipe	FW1203				32				ug/100 cm ²
Stair tred to basement	Wipe	FW1204				47 E				ug/100 cm ²
Stair tred to basement	Wipe	FW1247					ND			ug/100 cm ²
Stair tred to basement	Wipe	FW1248					14			ug/100 cm ²
Hand rail to basement	Wipe	WW1093								ug/100 cm ²
Stairway wall wipe to basement	Wipe	WW1095						ND		ug/100 cm ²
6x6 inch kick plate around stairway to basement	Wipe	WW1096						ND		ug/100 cm ²
								10		ug/100 cm ²

Miscellaneous Samples	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Quench oil from roller press in temp. press area	Oil	QO094	ND							ppm
Concrete Chip 10' north of Heat Treat Building - in front of overhead door on concrete roadway	Concrete Chip	CS095	0.27 *							ppm
Concrete Chip 10' north of Heat Treat Building - in front of overhead door on east end	Concrete Chip	CS095	0.008 J *							ppm
Water from large sump in basement	Water	W0110	ND							ppb
Quench Oil from ENSR Tanker Truck	Oil	QO0106		1.4 J						ppm
Quench Oil from ENSR Tanker Truck	Oil	QO1325	2.3							ppm
Mother Tank Oil after ENSR PCBx Process	Oil	QO1326	2.5							ppm
36" Rotary Quench Tank	Oil	QO1331						3.0		ppm
Q36 Flat Press	Oil	QO1332						2.6		ppm
Q537 Flat Press	Oil	QO1333						3.4		ppm
Q529 Flat Press	Oil	QO1334						2.3 J		ppm
Main Homocarb Quench Tank	Oil	QO1336						2.9		ppm
24" Rotary Pan	Oil	QO1337						6.6		ppm
Q529 9/4/92	Oil	QO1361							2.9	ppm
Q537 9/4/92	Oil	QO1362							3.9	ppm
Q36 9/4/92	Oil	QO1363							2.6	ppm
36" Rotary Quench Tank 9/4/92	Oil	QO1364							2.7	ppm
24" Rotary Pan 9/4/92	Oil	QO1365							4.3	ppm
Mother Tank 9/4/92	Oil	QO1366							2.7	ppm
Q529 Flat Press 9/18/92	Oil	QO1511							2.6	ppm
Q537 Flat Press 9/18/92	Oil	QO1512							2.7	ppm
Q36 Flat Press 9/18/92	Oil	QO1513							2.6	ppm
36" Rotary Quench Tank 9/18/92	Oil	QO1514							2.6	ppm
24" Rotary Pan 9/18/92	Oil	QO1515							2.6	ppm
Square Quench Tank 9/18/92	Oil	QO1516							4.8	ppm
Q529 Flat Press 9/24/92	Oil	QO1590							3.1	ppm
Q537 Flat Press 9/24/92	Oil	QO1591							3.0	ppm
Q36 Flat Press 9/24/92	Oil	QO1592							3.0	ppm
36" Rotary Quench Tank 9/24/92	Oil	QO1593							3.0	ppm
24" Rotary Pan 9/24/92	Oil	QO1594							5.8	ppm
Square Quench Tank 9/24/92	Oil	QO1595							3.0	ppm
Drum in basement with oil	Oil	QO1596	28							ppm
Production area, pulley on wood pallet	Wipe	EW0444	ND							ug/100 cm ²
Production area fan motor on wood pallet	Wipe	EW0445	260							ug/100 cm ²
Steel table in temporary Heat Treat	Wipe	EW0529	ND							ug/100 cm ²
Steel table in temporary Heat Treat	Wipe	EW0530	ND							ug/100 cm ²
Steel rack in temporary Heat Treat	Wipe	EW0532	12							ug/100 cm ²
Steel rack in temporary Heat Treat	Wipe	EW0533	ND							ug/100 cm ²
Steel rack in temporary Heat Treat	Wipe	EW0534	6.0 J							ug/100 cm ²
Steel rack in temporary Heat Treat	Wipe	EW0535	ND							ug/100 cm ²
Steel table in temporary Heat Treat	Wipe	EW0560		380						ug/100 cm ²
Steel table in temporary Heat Treat	Wipe	EW0561		20						ug/100 cm ²
Steel table in temporary Heat Treat	Wipe	EW0562		ND						ug/100 cm ²
Steel table in temporary Heat Treat	Wipe	EW0563		39						ug/100 cm ²
Table with hardness tester #1, temp Heat Treat	Wipe	EW0573		ND						ug/100 cm ²
Table with hardness tester #2, temp Heat Treat	Wipe	EW0574		ND						ug/100 cm ²
Hardness tester #1, temp Heat Treat	Wipe	EW0575		ND						ug/100 cm ²
Hardness tester #2, temp Heat Treat	Wipe	EW0576		ND						ug/100 cm ²
Mail table in temp Heat Treat	Wipe	EW0577		ND						ug/100 cm ²
Paper holder in temp Heat Treat	Wipe	EW0578		ND						ug/100 cm ²
Room divider, temp Heat Treat	Wipe	EW0579		ND						ug/100 cm ²
Storage cabinet, temp Heat Treat	Wipe	EW0580		ND						ug/100 cm ²
Vice on desk, temp Heat Treat	Wipe	EW0581		ND						ug/100 cm ²
Oil tank, temp Heat Treat	Wipe	EW0582		ND						ug/100 cm ²
Mobile work table, temp Heat Treat	Wipe	EW0583		ND						ug/100 cm ²
Overhead door tracks	Wipe	EW0612		15						ug/100 cm ²
Blue rack, temp Heat Treat	Wipe	EW0582			ND					ug/100 cm ²
Blue rack, temp Heat Treat	Wipe	EW0583			11*					ug/100 cm ²
Square metal rack, temp Heat Treat	Wipe	EW0664			ND					ug/100 cm ²

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Square metal rack, temp Heat Treat	Wipe	EW0665			40*				ug/100 cm ²	
Blue rack, temp Heat Treat	Wipe	EW0666			170				ug/100 cm ²	
Blue rack, temp Heat Treat	Wipe	EW0667			ND				ug/100 cm ²	
Blue rack, temp Heat Treat	Wipe	EW0668			18*				ug/100 cm ²	
Blue square rack, temp Heat Treat	Wipe	EW0668			67				ug/100 cm ²	
Blue square rack, temp Heat Treat	Wipe	EW0670			40*				ug/100 cm ²	
1/2 ton Gardner Denver Crane	Wipe	EW1396					ND		ug/100 cm ²	
Homocarb motor	Wipe	EW1407					ND		ug/100 cm ²	
Blue steel rack from temp Heat Treat	Wipe	EW1408					ND		ug/100 cm ²	
Blue steel rack from temp Heat Treat	Wipe	EW1409					ND		ug/100 cm ²	
Brown steel rack from temp Heat Treat	Wipe	EW1410					ND		ug/100 cm ²	
Table painted blue with stone temp Heat Treat	Wipe	EW1411					ND		ug/100 cm ²	
Table painted blue with square vice temp Heat Treat	Wipe	EW1412					ND		ug/100 cm ²	
Wheel of Rupp lift	Wipe	EW0837		15					ug/100 cm ²	
Wheel of Rupp lift	Wipe	EW0838		18					ug/100 cm ²	
Soil sample from plating line	Soil	SS0988	24						ppm	
Water tank near welding booth	Wipe	EW1022					ND		ug/100 cm ²	
Paint chips from ceiling above homocarb area	Pain chips	PT0279	47						ppm	
Plating line south, two feet horizontal	Wipe	EW1416	100 E						ug/100 cm ²	
Plating line south, one foot verticle	Wipe	EW1429			ND				ug/100 cm ²	
Plating line south, horizontal	Wipe	EW1430			53 E				ug/100 cm ²	
Plating line middle, verticle	Wipe	EW1431			ND				ug/100 cm ²	
Plating line middle, horizontal	Wipe	EW1432			ND				ug/100 cm ²	
Plating line north, horizontal	Wipe	EW1445			ND				ug/100 cm ²	
Plating line north, horizontal	Wipe	EW1446			ND				ug/100 cm ²	
Plating line north, verticle	Wipe	EW1447			ND				ug/100 cm ²	
Red Oil pump in Heat Treat Basement	Wipe	EW1560	1600 E						ug/100 cm ²	
Red Oil pump in Heat Treat Basement	Wipe	EW1561	120 E						ug/100 cm ²	
Plating line south, horizontal	Wipe	EW1565					18		ug/100 cm ²	
Plating line south horizontal	Wipe	EW1566					5.0 J		ug/100 cm ²	
Plating line south, horizontal	Wipe	EW1597					11		ug/100 cm ²	
Plating line south, horizontal	Wipe	EW1598					ND		ug/100 cm ²	
Plating line south, horizontal	Wipe	EW1599						ND	ug/100 cm ²	
Plating line south, horizontal	Wipe	EW1600						ND	ug/100 cm ²	
Parking Lot Transformer Spill										
Asphalt wipe sample near gate #4	Wipe	PW097		Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1: Confirmatory 2	Units
Asphalt wipe near gate #4	Wipe	PW098		ND						ug/100 cm ²
Asphalt wipe near gate #4	Wipe	PW099		2.0 J **						ug/100 cm ²
Asphalt Wipe near gate #4	Wipe	PW099		ND						ug/100 cm ²
Asphalt wipe near gate #4	Wipe	PW100		7.4 J **						ug/100 cm ²
Asphalt wipe near gate #4	Wipe	PW101		8.4 **						ug/100 cm ²
Asphalt Chip near gate #4	Asphalt Chip	PC102		0.14 J **						ppm
Asphalt Chip near gate #4	Asphalt Chip	PC103		0.44 J **						ppm
Roof Materials										
Soil from Heat Treat Building Roof	Soil	80107		Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1: Confirmatory 2	Units
North roof vent	Wipe	VW1307		43.0						ppm
Removed roof vent in Annex #EF1003	Wipe	VW1310		50 E*						ug/100 cm ²
Removed roof vent in Annex #EF1904	Wipe	VW1311		81**						ug/100 cm ²
Removed roof vent in Annex #EF1002	Wipe	VW1311		70*						ug/100 cm ²
Removed roof vent in Annex #EF1901	Wipe	VW1312		150**						ug/100 cm ²
Removed roof vent in Annex, top cap	Wipe	VW1313		190**						ug/100 cm ²
Removed roof vent in Annex, top cap	Wipe	VW1314		ND						ug/100 cm ²
Removed roof vent in Annex, top cap	Wipe	VW1315		ND						ug/100 cm ²
Removed roof vent in Annex, top cap	Wipe	VW1316		5.4J						ug/100 cm ²
Removed Dravo unit	Wipe	EW1308		4.2 J*						ug/100 cm ²
Removed Dravo unit	Wipe	EW1309		ND						ug/100 cm ²
Soil from Heat Treat Building Roof	Soil	890372		31						ug/100 cm ²
Roof core for asbestos	Roofing	RC0525								ppm
Roof Flashing for Asbestos Analysis	Roofing	RC0587		5 % CH						percent
Roof Flashing for Asbestos Analysis	Roofing	RC0588		3 % CH						percent
Roof Flashing for Asbestos Analysis	Roofing	RC0589		1 % CH						percent
Duct Sealant for Asbestos Analysis	Roofing	RC0590		ND						percent
Flat Roofing Materials from Heat Treat Roof	Roofing	RC0591		ND						percent

Flat Roofing Materials from Heat Treat Roof	Roofing	RC0592	ND				percent
Soil sample from roof vent	Soil	890647	63*				ppm
Soil sample from roof vent	Soil	890648	72*				ppm
Soil sample from roof vent	Soil	890649	20*				ppm
Soil sample from roof vent	Soil	890650	30*				ppm
Soil sample from roof drain	Soil	890651	10*				ppm
Soil sample from roof drain	Soil	890652	4.7J				ppm
Roof core of Heat Treat for Asbestos	Roofing	RC0711					percent
Roof core of Heat Treat for Asbestos	Roofing	RC0712					percent
Roof core of Heat Treat for Asbestos	Roofing	RC0713					percent
Roof core of Heat Treat for Asbestos	Roofing	RC0714					percent
Roof core of Heat Treat for Asbestos	Roofing	RC0715					percent
Roof core of Heat Treat for Asbestos	Roofing	RC0716					percent
Roof core of Heat Treat for Asbestos	Roofing	RC0717					percent
Vent wipe	Wipe	EW0766	4.6 J				ug/100 cm ²
Soil sample from roof vent	Soil	890767	30 E*				ppm
Roof wipe of vapor barrier during after removal	Wipe	RW1344			ND		ug/100 cm ²
Roof wipe of vapor barrier during after removal	Wipe	RW1345			ND		ug/100 cm ²
Roof wipe of vapor barrier during after removal	Wipe	RW1346			ND		ug/100 cm ²
Roof wipe of vapor barrier during after removal	Wipe	RW1367			ND		ug/100 cm ²
Roof wipe of vapor barrier during after removal	Wipe	RW1368			ND		ug/100 cm ²
Roof wipe of vapor barrier during after removal	Wipe	RW1369			ND		ug/100 cm ²
Roof wipe of vapor barrier during after removal	Wipe	RW1370			ND		ug/100 cm ²
Roof wipe of vapor barrier during after removal	Wipe	RW1371			ND		ug/100 cm ²
Roof wipe of vapor barrier during after removal	Wipe	RW1372			ND		ug/100 cm ²
Roof wipe of vapor barrier during after removal	Wipe	RW1394			ND		ug/100 cm ²
Roof wipe of vapor barrier during after removal	Wipe	RW1403			ND		ug/100 cm ²
Roof wipe of vapor barrier during after removal	Wipe	RW1404			ND		ug/100 cm ²
Roof wipe of vapor barrier during after removal	Wipe	RW1405			ND		ug/100 cm ²
Roof wipe of vapor barrier during after removal	Wipe	RW1408			ND		ug/100 cm ²
Roof wipe of vapor barrier during after removal	Wipe	RW1422			ND		ug/100 cm ²
Roof wipe of vapor barrier during after removal	Wipe	RW1223			ND		ug/100 cm ²
Roof wipe of vapor barrier during after removal	Wipe	RW1424			ND		ug/100 cm ²
Roof wipe of vapor barrier during after removal	Wipe	RW1425			ND		ug/100 cm ²
Roof wipe of vapor barrier during after removal	Wipe	RW1426			ND		ug/100 cm ²
Roof wipe of vapor barrier during after removal	Wipe	RW1427			ND		ug/100 cm ²
Roof wipe of vapor barrier	Wipe	RW1430			ND		ug/100 cm ²
Roof wipe of vapor barrier	Wipe	RW1451			ND		ug/100 cm ²
Roof wipe of vapor barrier	Wipe	RW1452			ND		ug/100 cm ²
Roof core, vermiculite base	Roofing	RC0208	ND				ppm
Roof core, top tar and felt	Roofing	RC0209	ND				ppm
Roof core, vermiculite base	Roofing	RC0210	3.7				ppm
Roof core, top tar and felt	Roofing	RC0211	1.7				ppm
Soil near roof vent # 1	Soil	890228	86**				ppm
Soil near roof vent # 2	Soil	890229	57*				ppm
Soil near roof vent # 3	Soil	890230	49*				ppm
Soil near roof vent # 4	Soil	890231	80*				ppm
Soil near roof vent # 5	Soil	890232	150*				ppm
Soil near roof vent # 6	Soil	890233	120*				ppm
Soil near roof vent # 7	Soil	890234	98*				ppm
Soil near roof vent # 8	Soil	890235	130*				ppm
Soil near roof vent # 9	Soil	890236	190**				ppm
Roof vent EF6401, on Heat Treat roof	Wipe	VW1395		ND			ug/100 cm ²
Roof vent EF6402, on Heat Treat roof	Wipe	VW1396		ND			ug/100 cm ²
Roof vent EF6403, on Heat Treat roof	Wipe	VW1397		14*			ug/100 cm ²
Roof vent EF6409, on Heat Treat roof	Wipe	VW1398		17*			ug/100 cm ²
Roof vent EF6406, on Heat Treat roof	Wipe	VW1399		34*			ug/100 cm ²
Roof vent EF6406, on Heat Treat roof	Wipe	VW1400		ND			ug/100 cm ²
Roof vent EF6405, on Heat Treat roof	Wipe	VW1401		ND			ug/100 cm ²
Roof vent EF6404, on Heat Treat roof	Wipe	VW1402		ND			ug/100 cm ²
Roof vent # 3, on Heat Treat roof	Wipe	VW1567					ug/100 cm ²
Roof vent # 4, on Heat Treat roof	Wipe	VW1568				7.1 J*	ug/100 cm ²
						9.0*	ug/100 cm ²

Roof vent # 5, on Heat Treat roof	Wipe	VW1589						11*		
Main Quench Tank	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
One foot	Wipe	EW0247	79 E							ug/100 cm ²
One foot	Wipe	EW0248	ND							ug/100 cm ²
One foot	Wipe	EW0249	13							ug/100 cm ²
Four feet	Wipe	EW0250	18							ug/100 cm ²
Four feet	Wipe	EW0251	27							ug/100 cm ²
One foot	Wipe	EW0438		3.0 J						ug/100 cm ²
One foot	Wipe	EW0439		83 E						ug/100 cm ²
One foot	Wipe	EW0440		58 E						ug/100 cm ²
Four feet	Wipe	EW0441		4.3 J						ug/100 cm ²
Four feet	Wipe	EW0442		29						ug/100 cm ²
Four feet	Wipe	EW0443		15						ug/100 cm ²
One foot	Wipe	EW0476			190					ug/100 cm ²
One foot	Wipe	EW0479			48					ug/100 cm ²
One foot	Wipe	EW0480			58					ug/100 cm ²
Four feet	Wipe	EW0481			8.4					ug/100 cm ²
Four feet	Wipe	EW0482			13					ug/100 cm ²
Four feet	Wipe	EW0484			12					ug/100 cm ²
One foot	Wipe	EW0558				4.4 J				ug/100 cm ²
One foot	Wipe	EW0559				21				ug/100 cm ²
Four feet	Wipe	EW0566				17				ug/100 cm ²
Four feet	Wipe	EW0567				8.4				ug/100 cm ²
One foot	Wipe	EW0606					4.3 J			ug/100 cm ²
One foot	Wipe	EW0607					ND			ug/100 cm ²
Two feet	Wipe	EW0608					ND			ug/100 cm ²
Two feet	Wipe	EW0608					5.8 J			ug/100 cm ²
Four feet	Wipe	EW0610					ND			ug/100 cm ²
One foot	Wipe	EW0971						43 E		ug/100 cm ²
Three foot horizontal	Wipe	EW0972						4.4 J		ug/100 cm ²
Contractor's Equipment	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Altoash										
Black hose	Wipe	EW0593		9.8						ug/100 cm ²
Diaphragm pump	Wipe	EW0594		ND						ug/100 cm ²
Galvanized wash tub	Wipe	EW0595		ND						ug/100 cm ²
Small electric motor	Wipe	EW0595		ND						ug/100 cm ²
Orange electric cord	Wipe	EW0597		ND						ug/100 cm ²
Scaffolding legs	Wipe	EW0598		12						ug/100 cm ²
Scaffolding cross arms	Wipe	EW0599		1.4 J						ug/100 cm ²
Scaffolding platforms	Wipe	EW0600		ND						ug/100 cm ²
Submersible pump	Wipe	EW0601		9.0						ug/100 cm ²
Hanging light	Wipe	EW0602		ND						ug/100 cm ²
Standing submersible pump	Wipe	EW0603		3.4 J						ug/100 cm ²
Garden sprayers	Wipe	EW0634		ND						ug/100 cm ²
Red air hose	Wipe	EW0608		ND						ug/100 cm ²
Scaffolding leg	Wipe	EW0716			ND					ug/100 cm ²
Scaffolding leg	Wipe	EW0719			4.4 J					ug/100 cm ²
Shovel	Wipe	EW0720			4.1 J					ug/100 cm ²
Squeegee	Wipe	EW0721			6.5 J					ug/100 cm ²
Submersible sump	Wipe	EW0722			ND					ug/100 cm ²
Shower filter	Wipe	EW0723			ND					ug/100 cm ²
Teel upright pump	Wipe	EW0724			4.9 J					ug/100 cm ²
Acid pump	Wipe	EW0725			ND					ug/100 cm ²
Esaco vacuum	Wipe	EW0726			5.8 J					ug/100 cm ²
Aluminum wash tub	Wipe	EW0727			ND					ug/100 cm ²
Fire extinguisher	Wipe	EW0728			ND					ug/100 cm ²
Blue shop vacuum	Wipe	EW0729			7.0 J					ug/100 cm ²
Silver Advance shop vacuum with white lid	Wipe	EW0730			ND					ug/100 cm ²
Silver Advance shop vacuum with black lid	Wipe	EW0731			ND					ug/100 cm ²
Red/black 6 gallon Dayton shop vacuum	Wipe	EW0732			ND					ug/100 cm ²
Red garden sprayer	Wipe	EW0733			ND					ug/100 cm ²

ND—Not detected at reported detection limit

Blue pneumatic diaphragm pump	Wipe	EW0734			16					ug/100 cm ²
Hanging lights	Wipe	EW0735			ND					ug/100 cm ²
3-stage wastewater filter	Wipe	EW0736			ND					ug/100 cm ²
Vacuum handles and brush handles	Wipe	EW0737			ND					ug/100 cm ²
CAPSUR foamer	Wipe	EW0736			ND					ug/100 cm ²
Red hose from CAPSUR foamer	Wipe	EW0739			22					ug/100 cm ²
Orange electrical cord	Wipe	EW0740			ND					ug/100 cm ²
Red pipe wrench	Wipe	EW0741			43 E					ug/100 cm ²
Silver crescent wrench	Wipe	EW0742			9.8					ug/100 cm ²
Rupp lift 600 11284, wheel	Wipe	EW1338	9.7							ug/100 cm ²
Rupp lift 600 11284, platform	Wipe	EW1339	ND							ug/100 cm ²
Rupp lift 600 11284, verticle surface	Wipe	EW1340	ND							ug/100 cm ²
Rupp lift 600 11277, wheel	Wipe	EW1341	11							ug/100 cm ²
Rupp lift 600 11277, platform	Wipe	EW1342	ND							ug/100 cm ²
Rupp lift 600 11277, verticle surface	Wipe	EW1343	ND							ug/100 cm ²
Rupp lift 600 11277, wheel	Wipe	EW1417			25					ug/100 cm ²
Rupp lift 600 11280, wheel	Wipe	EW1418			12					ug/100 cm ²
Rupp lift 600 11280, platform	Wipe	EW1419			ND					ug/100 cm ²
Rupp lift 11280, wheel	Wipe	EW1448						23		ug/100 cm ²
Rupp lift 11277, wheel	Wipe	EW1449						20		ug/100 cm ²
Rupp lift 10453, platform	Wipe	EW1458	ND							ug/100 cm ²
Microtrap #1	Wipe	EW1433	ND							ug/100 cm ²
Microtrap #2	Wipe	EW1434	ND							ug/100 cm ²
Microtrap #3	Wipe	EW1435	ND							ug/100 cm ²
Microtrap #4	Wipe	EW1436	ND							ug/100 cm ²
Microtrap #5	Wipe	EW1437	ND							ug/100 cm ²
Microtrap #6	Wipe	EW1438	ND							ug/100 cm ²
Microtrap #7	Wipe	EW1439	ND							ug/100 cm ²
Microtrap #8	Wipe	EW1440	ND							ug/100 cm ²
Microtrap #9	Wipe	EW1441	ND							ug/100 cm ²
Microtrap #10	Wipe	EW1442	18							ug/100 cm ²
Microtrap #11	Wipe	EW1443	ND							ug/100 cm ²
Microtrap #12	Wipe	EW1444	ND							ug/100 cm ²
Microtrap #10	Wipe	EW1458			ND					ug/100 cm ²
Walk behind chop saw	Wipe	EW1453	ND							ug/100 cm ²
Chop saw	Wipe	EW1454	ND							ug/100 cm ²
Roof spud	Wipe	EW1455	ND							ug/100 cm ²
Airless sprayer	Wipe	EW1457	ND							ug/100 cm ²
Wheel barrel bucket	Wipe	EW1523							ND	ug/100 cm ²
Scaffolding stair unit	Wipe	EW1524							ND	ug/100 cm ²
Scaffolding stair unit	Wipe	EW1525							ND	ug/100 cm ²
Wheel barrel wooden handle	Wipe	EW1526							ND	ug/100 cm ²
Wheel barrel wheel	Wipe	EW1527							ND	ug/100 cm ²
Light	Wipe	EW1544							ND	ug/100 cm ²
HEPA vacuum # 1	Wipe	EW1570							ND	ug/100 cm ²
HEPA vacuum # 2	Wipe	EW1571							ND	ug/100 cm ²
HEPA vacuum # 3	Wipe	EW1872							ND	ug/100 cm ²
Fluore	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Blastrac vacuum wheel	Wipe	EW0673	15							ug/100 cm ²
Blastrac vacuum verticle surface	Wipe	EW0674	ND							ug/100 cm ²
Blastrac vacuum horizontal surface	Wipe	EW0675	6.8 J							ug/100 cm ²
Blastrac vacuum black hose	Wipe	EW0676	ND							ug/100 cm ²
Blastrac vacuum horizontal surface	Wipe	EW0677	4.4 J							ug/100 cm ²
Blastrac blaster wheel	Wipe	EW0678	63 E							ug/100 cm ²
Blastrac blaster black hose	Wipe	EW0679	ND							ug/100 cm ²
Blastrac blaster verticle surface	Wipe	EW0680	12							ug/100 cm ²
Blastrac blaster	Wipe	EW0681	ND							ug/100 cm ²
Small Blastrac blaster verticle surface	Wipe	EW0682	ND							ug/100 cm ²
Small Blastrac blaster handle	Wipe	EW0683	ND							ug/100 cm ²
Jack hammer # 1	Wipe	EW0684	5.4 J							ug/100 cm ²
Jack hammer # 2	Wipe	EW0685	3.5 J							ug/100 cm ²
Jack hammer # 3	Wipe	EW0686	3.5 J							ug/100 cm ²

Catch basin for Blastrac vacuum	Wipe	EW0687	ND							ug/100 cm ²
Right angle griner	Wipe	EW0688	8.5 J							ug/100 cm ²
Mbar	Wipe	EW0688	ND							ug/100 cm ²
Saw	Wipe	EW0690	ND							ug/100 cm ²
Mbar wheel	Wipe	EW0691	ND							ug/100 cm ²
Saw handle	Wipe	EW0692	ND							ug/100 cm ²
Blastrac vacuum	Wipe	EW1122						4.3 J		ug/100 cm ²
Blastrac vacuum	Wipe	EW1123						5.4 J		ug/100 cm ²
Blastrac blaster	Wipe	EW1126						30		ug/100 cm ²
Blastrac blaster	Wipe	EW1127						1.7 J		ug/100 cm ²
Welding Booth	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Bottom one foot	Wipe	EW0519		3.4 J						ug/100 cm ²
Three feet	Wipe	EW0520		3.3 J						ug/100 cm ²
Welding booth	Wipe	EW1001						ND		ug/100 cm ²
Basement southwest room from Heat Treat	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Green steel rack	Wipe	EW0671	36							ug/100 cm ²
Green steel rack	Wipe	EW0672	15							ug/100 cm ²
Metal rack	Wipe	EW0673	81							ug/100 cm ²
Metal rack	Wipe	EW0674	20							ug/100 cm ²
Steel rack	Wipe	EW0675	ND							ug/100 cm ²
Steel rack	Wipe	EW0678	ND							ug/100 cm ²
Middle steel rack	Wipe	EW0677	8.7							ug/100 cm ²
Middle steel rack	Wipe	EW0678	ND							ug/100 cm ²
Lift	Wipe	EW0679	27							ug/100 cm ²
Lift	Wipe	EW0680	12							ug/100 cm ²
Steel rack	Wipe	EW0681	9.8							ug/100 cm ²
Tall green steel rack	Wipe	EW0682	7.7 J							ug/100 cm ²
South side of door leaving Heat Treat	Wipe	EW0683	ND							ug/100 cm ²
South side of door leaving Heat Treat	Wipe	EW0684	3.8 J							ug/100 cm ²
Cement wall west of door leaving Heat Treat	Wipe	WW0685	ND							ug/100 cm ²
Steel plate on east steel rack	Wipe	EW0686	9.8							ug/100 cm ²
Top of poly acid tank	Wipe	EW0687	ND							ug/100 cm ²
Floor wipe	Wipe	FW0688	250							ug/100 cm ²
Pipe wipe	Wipe	EW0689	7.3 J							ug/100 cm ²
Steel stand with round bottom	Wipe	EW0690	18							ug/100 cm ²
Furnace brick	Soil	890765	ND							ug/100 cm ²
Basement 2nd room southwest from Heat Treat	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Furnace brick	Wipe	EW0744	ND							ug/100 cm ²
Miscellaneous parts	Wipe	EW0745	ND							ug/100 cm ²
Floor wipe	Wipe	FW0746	56							ug/100 cm ²
Floor wipe	Wipe	FW0747	180							ug/100 cm ²
Steel rack	Wipe	EW0748	4.4 J							ug/100 cm ²
Miscellaneous parts	Wipe	EW0749	34*							ug/100 cm ²
Steel rack	Wipe	EW0750	10							ug/100 cm ²
Miscellaneous parts	Wipe	EW0751	ND							ug/100 cm ²
Steel rack	Wipe	EW0752	ND							ug/100 cm ²
Floor wipe	Wipe	FW0753	48							ug/100 cm ²
Floor wipe	Wipe	FW0754	40							ug/100 cm ²
Floor wipe	Wipe	FW0755	50							ug/100 cm ²
Floor wipe	Wipe	FW0756	270							ug/100 cm ²
Steel rack	Wipe	EW0757	24							ug/100 cm ²
Miscellaneous parts	Wipe	EW0758	28							ug/100 cm ²
Steel rack	Wipe	EW0759	20							ug/100 cm ²
Miscellaneous parts	Wipe	EW0760	4.2 J							ug/100 cm ²
Steel rack	Wipe	EW0761	0.1							ug/100 cm ²
Miscellaneous parts	Wipe	EW0762	9.8							ug/100 cm ²
Floor wipe	Wipe	FW0763	180							ug/100 cm ²
Floor wipe	Wipe	FW0764	110							ug/100 cm ²

Basement Samples near Pipe Leaks	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Floor wipe north of mother tank	Wipe	FW1347	2000							ug/100 cm ²
Pipe wipe north of mother tank	Wipe	EW1348	3800							ug/100 cm ²
North side of mother tank	Wipe	EW1349	9.4							ug/100 cm ²
Floor wipe north of mother tank	Wipe	FW1350	620							ug/100 cm ²
Exit ways into plant from first floor Heat Treat	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Northwest exit way										
Wall wipe	Wipe	WW0160	ND							ug/100 cm ²
Wall wipe	Wipe	WW0161	ND							ug/100 cm ²
Floor wipe	Wipe	FW0162	ND							ug/100 cm ²
Floor wipe	Wipe	FW0163	ND							ug/100 cm ²
Wall wipe	Wipe	WW0164	ND							ug/100 cm ²
Southwest exit way	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Wall wipe	Wipe	WW0165	ND							ug/100 cm ²
Wall wipe	Wipe	WW0166	ND							ug/100 cm ²
Wall wipe	Wipe	WW0167	ND							ug/100 cm ²
Floor wipe	Wipe	FW0168	ND							ug/100 cm ²
Floor wipe	Wipe	FW0169	ND							ug/100 cm ²
Southeast exit way	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Wall wipe	Wipe	WW0170	ND							ug/100 cm ²
Wall wipe	Wipe	WW0171	ND							ug/100 cm ²
Wall wipe	Wipe	WW0172	ND							ug/100 cm ²
Wall wipe	Wipe	WW0173	ND							ug/100 cm ²
Two small quench tanks	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
East small quench tank										
One foot	Wipe	EW0513	4.2 J							ug/100 cm ²
Two feet	Wipe	EW0514	7.4 J							ug/100 cm ²
Three feet	Wipe	EW0515	9.3							ug/100 cm ²
West small quench tank	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
One foot	Wipe	EW0516	4.1 J							ug/100 cm ²
Two feet	Wipe	EW0517	ND							ug/100 cm ²
Three feet	Wipe	EW0518	3.0 J							ug/100 cm ²
Equipment in room southwest of Heat Treat	Sample Type	Sample I.D. #	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Basement cleaned in TCE Vapor Degreaser 8/5/82										
Pallet # 1	Wipe	EW1373						ND		ug/100 cm ²
Pallet # 1	Wipe	EW1374						ND		ug/100 cm ²
Pallet # 1	Wipe	EW1375						ND		ug/100 cm ²
Pallet # 2	Wipe	EW1376						ND		ug/100 cm ²
Pallet # 2	Wipe	EW1377						ND		ug/100 cm ²
Pallet # 2	Wipe	EW1378						24		ug/100 cm ²
Pallet # 3	Wipe	EW1378						ND		ug/100 cm ²
Pallet # 3	Wipe	EW1380						ND		ug/100 cm ²
Pallet # 3	Wipe	EW1381						ND		ug/100 cm ²
Pallet # 4	Wipe	EW1382						ND		ug/100 cm ²
Pallet # 4	Wipe	EW1383						ND		ug/100 cm ²
Pallet # 4	Wipe	EW1384						ND		ug/100 cm ²
Pallet # 5	Wipe	EW1385						ND		ug/100 cm ²
Pallet # 5	Wipe	EW1385						ND		ug/100 cm ²
Pallet # 5	Wipe	EW1387						ND		ug/100 cm ²
Pallet # 6	Wipe	EW1388						ND		ug/100 cm ²
Pallet # 6	Wipe	EW1389						ND		ug/100 cm ²
Pallet # 6	Wipe	EW1390						ND		ug/100 cm ²
Pallet # 7	Wipe	EW1391						ND		ug/100 cm ²
Pallet # 7	Wipe	EW1392						ND		ug/100 cm ²
Pallet # 7	Wipe	EW1393						ND		ug/100 cm ²
Parts on crates with poly	Wipe	EW1459						ND		ug/100 cm ²

Parts on crates with poly	Wipe	EW1461						ND		ug/100 cm ²
Parts on crates with poly	Wipe	EW1462						ND		ug/100 cm ²
Pallet # 9	Wipe	EW1463						ND		ug/100 cm ²
Side one	Wipe	EW1509						5.0 J		ug/100 cm ²
Side one	Wipe	EW1510						ND		ug/100 cm ²
Side one	Wipe	EW1517						ND		ug/100 cm ²
Side one	Wipe	EW1518						ND		ug/100 cm ²
Side two	Wipe	EW1519						58 E		ug/100 cm ²
Side two	Wipe	EW1520						ND		ug/100 cm ²
Side two	Wipe	EW1521						ND		ug/100 cm ²
Side two	Wipe	EW1522						ND		ug/100 cm ²
Parts and equipment decontaminated in TCE vapor degreaser sorted in steel rack			Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
1	Wipe	EW1528						ND		ug/100 cm ²
2	Wipe	EW1529						ND		ug/100 cm ²
3	Wipe	EW1530						8.4		ug/100 cm ²
4	Wipe	EW1531						ND		ug/100 cm ²
5	Wipe	EW1532						ND		ug/100 cm ²
6	Wipe	EW1533						ND		ug/100 cm ²
7	Wipe	EW1534						ND		ug/100 cm ²
8	Wipe	EW1535						ND		ug/100 cm ²
9	Wipe	EW1536						ND		ug/100 cm ²
10	Wipe	EW1537						ND		ug/100 cm ²
11	Wipe	EW1538						7.4 J		ug/100 cm ²
12	Wipe	EW1539						4.7 J		ug/100 cm ²
13	Wipe	EW1540						ND		ug/100 cm ²
14	Wipe	EW1541						ND		ug/100 cm ²
15	Wipe	EW1542						ND		ug/100 cm ²
16	Wipe	EW1443						ND		ug/100 cm ²
First Floor sampling 9/17/92 after Pipe leak			Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Floor wipe	Wipe	FW1464						ND		ug/100 cm ²
Floor wipe	Wipe	FW1465						ND		ug/100 cm ²
Floor wipe	Wipe	FW1466						ND		ug/100 cm ²
Floor wipe	Wipe	FW1467						ND		ug/100 cm ²
Floor wipe	Wipe	FW1468						ND		ug/100 cm ²
Floor wipe	Wipe	FW1469						ND		ug/100 cm ²
Floor wipe	Wipe	FW1470						ND		ug/100 cm ²
Floor wipe	Wipe	FW1471						ND		ug/100 cm ²
Floor wipe	Wipe	FW1472						17		ug/100 cm ²
Floor wipe	Wipe	FW1473						ND		ug/100 cm ²
Floor wipe	Wipe	FW1474						ND		ug/100 cm ²
Floor wipe	Wipe	FW1475						ND		ug/100 cm ²
Floor wipe	Wipe	FW1476						ND		ug/100 cm ²
Floor wipe	Wipe	FW1477						ND		ug/100 cm ²
Floor wipe	Wipe	FW1478						ND		ug/100 cm ²
Floor wipe	Wipe	FW1479						ND		ug/100 cm ²
Floor wipe	Wipe	FW1480						ND		ug/100 cm ²
Floor wipe	Wipe	FW1481						ND		ug/100 cm ²
Floor wipe	Wipe	FW1482						ND		ug/100 cm ²
Floor wipe	Wipe	FW1483						ND		ug/100 cm ²
Floor wipe	Wipe	FW1484						ND		ug/100 cm ²
Floor wipe	Wipe	FW1485						ND		ug/100 cm ²
Floor wipe	Wipe	FW1486						ND		ug/100 cm ²
First Floor sampling			Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Floor wipe	Wipe	FW1502							ND	ug/100 cm ²
Floor wipe	Wipe	FW1503							ND	ug/100 cm ²
Floor wipe	Wipe	FW1504							ND	ug/100 cm ²
Floor wipe	Wipe	FW1505							ND	ug/100 cm ²
Floor wipe	Wipe	FW1506						ND		ug/100 cm ²
Floor wipe	Wipe	FW1507						ND		ug/100 cm ²
Floor wipe	Wipe	FW1508						ND		ug/100 cm ²

Basement Floor sampling 8/18/92 after pipe leak	Sample Type	Sample I.D.#	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units
Floor wipe	Wipe	FW1487						5.0 J		ug/100 cm ²
Floor wipe	Wipe	FW1488						7.3 J		ug/100 cm ²
Floor wipe	Wipe	FW1488						5.4 J		ug/100 cm ²
Floor wipe	Wipe	FW1490						5.2 J		ug/100 cm ²
Floor wipe	Wipe	FW1491						2.1 J		ug/100 cm ²
Floor wipe	Wipe	FW1492						7.8 J		ug/100 cm ²
Floor wipe	Wipe	FW1493						2.0 J		ug/100 cm ²
Floor wipe	Wipe	FW1494						3.7 J		ug/100 cm ²
Floor wipe	Wipe	FW1495						ND		ug/100 cm ²
Floor wipe	Wipe	FW1496						ND		ug/100 cm ²
Floor wipe	Wipe	FW1497						8.3 J		ug/100 cm ²
Floor wipe	Wipe	FW1498						5.0 J		ug/100 cm ²
Interior Stairway sampling 8/18/92 after pipe leak										
Sample Type	Sample I.D.#	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units	
Floor wipe, bottom stair	Wipe	FW1499					75 E		ug/100 cm ²	
Floor wipe, top stair steel	Wipe	FW1500					39		ug/100 cm ²	
Floor wipe, top stair epoxy	Wipe	FW1501					ND		ug/100 cm ²	
Floor wipe, bottom stair steel	Wipe	FW1502						ND	ug/100 cm ²	
Floor wipe, bottom stair epoxy	Wipe	FW1503						ND	ug/100 cm ²	
Floor wipe, top stair steel	Wipe	FW1504						ND	ug/100 cm ²	
Floor wipe, top stair epoxy	Wipe	FW1480						ND	ug/100 cm ²	
First Floor sampling around Induction Hardener										
Sample Type	Sample I.D.#	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units	
Floor wipe	Wipe	FW1548					ND		ug/100 cm ²	
Floor wipe	Wipe	FW1549					ND		ug/100 cm ²	
Floor wipe	Wipe	FW1550					ND		ug/100 cm ²	
Floor wipe	Wipe	FW1551					ND		ug/100 cm ²	
Basement Floor sampling post Oxidizer cleaning 8/22/92										
Sample Type	Sample I.D.#	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units	
Floor wipe	Wipe	FW1552					ND		ug/100 cm ²	
Floor wipe	Wipe	FW1553					ND		ug/100 cm ²	
Floor wipe	Wipe	FW1554					ND		ug/100 cm ²	
Floor wipe	Wipe	FW1555					NO		ug/100 cm ²	
Floor wipe	Wipe	FW1556					ND		ug/100 cm ²	
Floor wipe	Wipe	FW1557					ND		ug/100 cm ²	
Floor wipe	Wipe	FW1558					ND		ug/100 cm ²	
Floor wipe	Wipe	FW1559					ND		ug/100 cm ²	
Floor wipe	Wipe	FW1577					ND		ug/100 cm ²	
Floor wipe	Wipe	FW1578					ND		ug/100 cm ²	
Floor wipe	Wipe	FW1579					NO		ug/100 cm ²	
Floor wipe	Wipe	FW1580					ND		ug/100 cm ²	
Floor wipe	Wipe	FW1581					ND		ug/100 cm ²	
Floor wipe	Wipe	FW1582					ND		ug/100 cm ²	
First room south west from Heat Treat: Basement sampling after pipe leak										
Sample Type	Sample I.D.#	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units	
Floor wipe	Wipe	FW1583					ND		ug/100 cm ²	
Floor wipe	Wipe	FW1584					ND		ug/100 cm ²	
Floor wipe	Wipe	FW1585					ND		ug/100 cm ²	
Floor wipe	Wipe	FW1586					ND		ug/100 cm ²	
Floor wipe	Wipe	FW1587					ND		ug/100 cm ²	
First Floor sampling near Roller Dye Press post oxidizer cleaning										
Sample Type	Sample I.D.#	Initial Test	Clean Cycle 1	Clean Cycle 2	Clean Cycle 3	Clean Cycle 4	Confirmatory 1	Confirmatory 2	Units	
Floor wipe	Wipe	FW1573					NO		ug/100 cm ²	
Floor wipe	Wipe	FW1574					ND		ug/100 cm ²	
Floor wipe	Wipe	FW1575					ND		ug/100 cm ²	
Floor wipe	Wipe	FW1576					ND		ug/100 cm ²	

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APPENDIX B
INTRUSIVE/HOT WORK PERMIT

INTRUSIVE/HOT WORK PERMIT

The Gleason Works

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Procedure - A permit will be prepared for any intrusive or hot work (ie. welding, cutting) activities for all work inside the Heat Treat Building. These activities include: drilling, sanding, scraping, or any other like activities. Permits will be issued by the Manager of Health and Safety Affairs. No intrusive or hot work activities will begin without a completed permit.

Permit Application: (to be filled out by the actual person or manager performing the work)

1. Description of work activities and exact location:

2. Expected duration of work to be performed:

Work Authorization: (to be filled out by the Manager of Health and Safety Affairs)

1. Work area checked to accurately identify areas with PCBs? _____
Wipe samples collected from area? _____ Air Samples collected from area? _____
PCB concentrations reported? _____ PCB concentrations reported? _____
2. If potential for PCB release, are all non-trained personnel removed from area and access to the area restricted? _____
3. All personnel performing the operation properly trained? _____
4. Personal protective equipment and emergency response equipment available for all work personnel? _____
Hard Hat _____, Eye and Face Protection _____, Saran/Tyvck _____, Inner Gloves _____, Outer Gloves _____, Boots _____, Respirator _____, Other _____.
5. HEPA vacuum available to minimize dust creation, or wet methods used? _____

AUTHORIZATION

Manager of Health and Safety Affairs

Date

Time

Permit must be renewed on: _____

Date

Work team sign-off:

I/we have read this work permit and will follow all procedures outlined within.

Name

Date

Name

Date

Name

Date

This work permit must be posted at the work location listed above.

When work is completed, this permit must be returned to the Manager of Environmental Health and Safety Affairs.

