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Hartwell Street Landfill
Site #915030
Phase II
Environmental Site Assessment
Former Atlas Steel Site
Buffalo, NY

915030

HARTWELL STREET
LANDFILL

PHASE II
ENVIRONMENTAL SITE ASSESSMENT
FORMER ATLAS STEEL SITE
BUFFALO, NY

Prepared for:

Benderson Development Company, Inc.
570 Delaware Avenue
Buffalo, NY 14202

Prepared for:

Dunn Corporation
495 Commerce Drive
Amherst, NY 14228

December, 1992

1.0 INTRODUCTION

This report presents the findings and conclusions of a Phase II Environmental Site Assessment (ESA) completed by Dunn Corporation (DUNN) at the former Atlas Steel Site located in Buffalo, NY.

This investigation was performed for and authorized by Benderson Development Company Inc., pursuant to the findings of DUNN's Phase I ESA (September, 1992). The purpose of this investigation was to address the potential environmental concerns described in the Phase I ESA. These areas of concern included the former tank pit area, the former X-ray building area, the Hartwell Street Landfill Site, the area adjacent to the Gugino property, areas containing visible surface staining and areas containing visible waste material (i.e., drums, slag, foundry sand). The scope of services performed to address these concerns included the following:

- Excavation of test pits to characterize subsurface conditions;
- Installation of groundwater monitoring wells to facilitate groundwater sampling; and
- Collection and analysis of environmental samples (surface soils, subsurface soils, surface water, sediment, groundwater and waste) to ascertain the presence or absence of contaminants.

2.0 METHODOLOGIES

2.1 Test Pits

A total of thirty-nine (39) test pits, TP-1 through TP-39, were excavated on the project site from October 30 - November 3, 1992 (refer to Figure 2-1). Eleven of the test pits were excavated in the northeast corner of the site in the area referred to as the Hartwell Street Landfill. The remaining twenty-eight test pits were spread across the former plant site and targeted the areas of potential environmental concern previously mentioned.

The work was performed utilizing a rubber-tired backhoe operated by personnel from Advanced Drilling Investigations (ADI). An environmental geologist from DUNN directed and supervised all excavation activities.

Each test pit was advanced until native soils were encountered. Excavated soils were visually classified by the on-site geologist and screened with an HNu photoionization detection meter for volatile organic compounds (VOCs). Test Pit Logs were completed for each test pit location are presented in Appendix A.

Based on sensory observations and HNu screening results, a total of ten (10) soil samples were collected from discrete intervals within selected test pits for subsequent chemical analysis. The soil samples were collected utilizing a precleaned stainless steel trowel. Field Sampling Records describing the collection of each sample are presented in Appendix B.

Decontamination procedures consisted of pressure-washing of the backhoe bucket between sampling locations and washing the stainless steel trowel between sampling locations with a non-phosphate detergent wash and distilled water rinse.

2.2 Surface Sampling

A total of four (4) surface soil samples, SS-1 through SS-4, were collected during this investigation (refer to Figure 2-1 for sample locations). The samples were collected from areas determined to be of potential environmental concern including: an area adjacent to a waste pile (SS-1); an area where surficial staining was observed (SS-2); an area adjacent to an empty drum pile (SS-3); and an area adjacent to partially filled drums (SS-4).

One (1) sediment sample (SED-1) and one (1) surface water sample (SW-1) were also collected during this investigation. These samples were obtained from a catch basin located in the southwest portion of the site. In addition, one (1) waste sample (WS-1) was collected from a waste pile located along the southern border of the site. Refer to Figure 2-1 for the above-mentioned sampling locations.

All non-aqueous samples were collected with a stainless steel trowel, decontaminated between each sampling location. The aqueous sample was collected with a dedicated, pre-cleaned dipper jar. Field Sampling Records describing the collection of each sample are presented in Appendix B.

2.3 Installation of Monitoring Wells

DUNN originally proposed to install six (6) monitoring wells on the project site which were to be screened in the perched water zone located at the fill/native soil interface. However, the test pit program revealed that this interface zone was not uniformly saturated across the project site. Therefore, placement of monitoring wells was limited to areas where sufficient water was available.

Consequently, a total of three (3) shallow groundwater monitoring wells, MW-1 through MW-3, were installed on the project site on November 4 & 5, 1992 (refer to Figure 2-1). MW-1 was located adjacent to the Gugino property to assess potential subsurface contamination which may be associated with that site. MW-2 was located in the northern portion of the plant property. MW-3 was located in an area formerly occupied by large above-ground storage tanks (former tank pit area). All drilling operations were performed by ADI under the direction and supervision of DUNN's on-site geologist.

The monitoring wells were constructed within conventional exploratory test borings which were advanced through unconsolidated (overburden) soils, utilizing hollow stem augers. The use of hollow-stem augers served to stabilize the borehole walls from collapse and allow continuous split barrel sampling of soils, in accordance with ASTM Designation D-1586 *Standard Method of Penetration Testing and Split Barrel Sampling of Soils.*

All recovered soil samples were visually classified and logged by DUNN's on-site geologist. Test Boring Logs, prepared for each boring, are presented in Appendix C. A representative

portion of each sample was placed in a clean glass jar, sealed with aluminum foil and subsequently screened with a HNU photoionization detection meter. All split-spoons, drill rods and augers were steam-cleaned between each boring location to prevent cross-contamination.

Upon completion of each boring, a permanent monitoring well was constructed in the borehole. The monitoring wells were constructed of nominal two-inch diameter, PVC machine slotted well screen and solid riser pipe. The well components were flush threaded which allowed the well to be constructed without the use of any glues or solvents. The annulus between the borehole wall and the monitoring well casings was packed with clean silica sand to a level above the screened portion of the well, followed by a minimum one-foot thick bentonite seal to restrict the downward migration of surface run-off into the well. A metal protective curb box grouted in place, completed each well installation. Monitoring Well Diagrams showing construction details are presented in Appendix D.

2.4 Monitoring Well Development/Sampling

Well development was performed by DUNN personnel on November 6, 1992, utilizing pre-cleaned PVC bailers and dedicated nylon string. The bailers were cleaned with a non-phosphated detergent wash and distilled water rinse. Development was terminated when a total of ten well volumes were evacuated from each well. Well Development Logs, completed for each well, are presented in Appendix E. The three monitoring wells were subsequently sampled on November 10, 1992. Prior to sampling, approximately two to four additional well volumes were purged from each well utilizing the procedure described above. The Well Sampling Logs, completed during the collection of each groundwater sample, are included in Appendix E.

2.5 Chemical Analyses

All soil samples, sediment samples, groundwater and surface water samples collected during this investigation were analyzed for full TCL/TAL parameters. This analysis consists of the following: USEPA Method 8240 (Volatiles); USEPA Method 8270 (Semi-Volatiles); USEPA Method 8080 (Pesticides/PCBs); total metals (Target Analyte List) and total cyanide. The waste sample was analyzed for RCRA Waste Characteristics (ignitability, corrosivity and reactivity) and TCLP (Toxicity Characteristic Leaching Procedure) to determine if the material is a hazardous waste.

All samples collected during the investigation were analyzed by General Testing Corporation of Rochester, NY. The results of the analyses are presented in Appendix F.

3.0 FINDINGS OF INVESTIGATION

3.1 Subsurface Conditions

3.1.1 Hartwell Street Landfill

Miscellaneous fill material was encountered in each of the eleven test pits excavated in the Hartwell Street Landfill area (refer to Figure 2-1). With the exception of TP-10, which was located on a mounded area, fill depths across the landfill ranged from 1.5 - 6.0 feet below ground surface (refer to Test Pit Logs in Appendix A). The fill material consisted predominantly of sand and cinders with varying amounts of gravel, slag, bricks, glass and metal debris. Similar fill was encountered within the mounded area where TP-10 was excavated to a depth of 8.0 feet. Below this fill, native lacustrine (i.e., ancient lake) deposits consisting of silt and clay were observed throughout the landfill area.

HNu screening of the soils excavated from the landfill area did not indicate the presence of any VOCs. In addition, there was no soil staining, discoloration or odors noted during excavation activities.

Minor amounts of perched water were encountered at the fill/native soil interface at several test pit locations. These amounts of water were much less than anticipated, given the relative impermeability of the native lacustrine deposits. Therefore, it was determined that placement of a monitoring well in the landfill area would not be productive. The installation of deeper wells was not considered since it is known from previous studies that 60-80 feet of the very impermeable clay and silt deposits underlie the site over bedrock. It is extremely unlikely that, given the thickness of these deposits, surface contaminants would reach the bedrock aquifer.

3.1.2 Former Plant Site

Test pits and soil borings completed within the former plant site revealed the presence of fill material at depths ranging from 2-10 feet below ground surface (refer to Test Pit Logs & Soil Boring Logs presented in Appendices A & C, respectively). The fill consisted predominantly of sand and gravel with varying mixtures of bricks, wood, concrete, cinders, slag, glass and metal debris. Below the fill, native lacustrine deposits consisting of silt and were encountered across the entire plant site. Previous studies have indicated these deposits to be 6o - 80 feet thick and overlie bedrock.

Stained and discolored fill exhibiting strong petroleum odors was encountered during the excavation of TP-33, which is located in the southeast portion of the former plant site (refer to Figure 2-1). The location of TP-33 corresponds to the approximate location of the former tank pit which was identified in a 1989 survey map of the site. A large quantity of perched water containing a heavy sheen poured into the open test pit during the excavation.

Additional test pits were subsequently excavated in the former tank pit area in an effort to delineate the horizontal extent of the contamination. The approximate areal extent of the

contaminated zone is presented in Figure 3-1 and encompasses an area approximately 70 ft. long x 70 ft. wide. It should be noted that delineation of the contaminated zone was limited by the presence of old building foundations which inhibited excavation activities. The vertical extent of the contamination was determined during the installation of Monitoring Well MW-3. It ranged from 3 to 10 feet below ground surface, at which depth the low permeability native soils were encountered (refer to Test Boring Logs in Appendix C).

HNu screening of the soils recovered from the contaminated zone indicated VOC concentrations ranging from 3 to 20 parts per million. There were no elevated VOC concentrations detected within the subsurface soils recovered from any other portion of the former plant site; nor were staining, discoloration or odors noted.

Excluding the former tank pit area, there were few areas within the plant site where sufficient quantities of perched water were available to justify the installation of monitoring wells. Therefore, a total of only three monitoring wells were installed on the plant site.

3.2 Hydrology

Water level measurements in the three monitoring wells indicate the depth to the perched water zone ranged from 2.5 feet in MW-3 to 5.0 feet in MW-1. However, as previously discussed, the perched water zone is not continuous across the site and, therefore, flow direction cannot be determined. The sporadic existence of the perched water zone is most likely related to the topography of the top of the native lacustrine deposit. Specifically, precipitation which infiltrates the permeable fill material migrates along the surface of the low permeability native soils to areas of lower elevation or depressions.

3.3 Analtyical Results

3.3.1 Subsurface Soil - Hartwell Street Landfill Site

Soil Samples were collected from two of the eleven test pits excavated on the Hartwell Street Landfill Site (TP-3 & TP-7). Locations of the sampled test pits are presented on Figure 2-1.

Chemical analysis of the two soil samples indicated the presence of several volatile organic compounds (refer to Table 3-1). Three of the compounds detected (methylene chloride, acetone and chloroform) are common laboratory contaminants. Trichlorethene and cis 1, 2-dichlorethene were detected in the sample collected from TP-3 at estimated concentrations of 11 parts per billion (ppb) and 8.7 ppb, respectively. In addition, one semi-volatile organic parameter, benzo(b)fluoranthene, was detected in the sample collected from TP-7 at a concentration of 770 ppb. The relatively low concentrations of volatile and semi-volatile parameters detected are not considered to be an environmental concern for the landfill site.

Results of the metals analysis for the two test pit samples did not indicate metal concentrations which exceed normal ranges for uncontaminated soils (refer to Table 3-2). In addition, there were no pesticides or polychlorinated biphenyls (PCBs) detected above the analytical method detection limits (refer to Table 3-3).

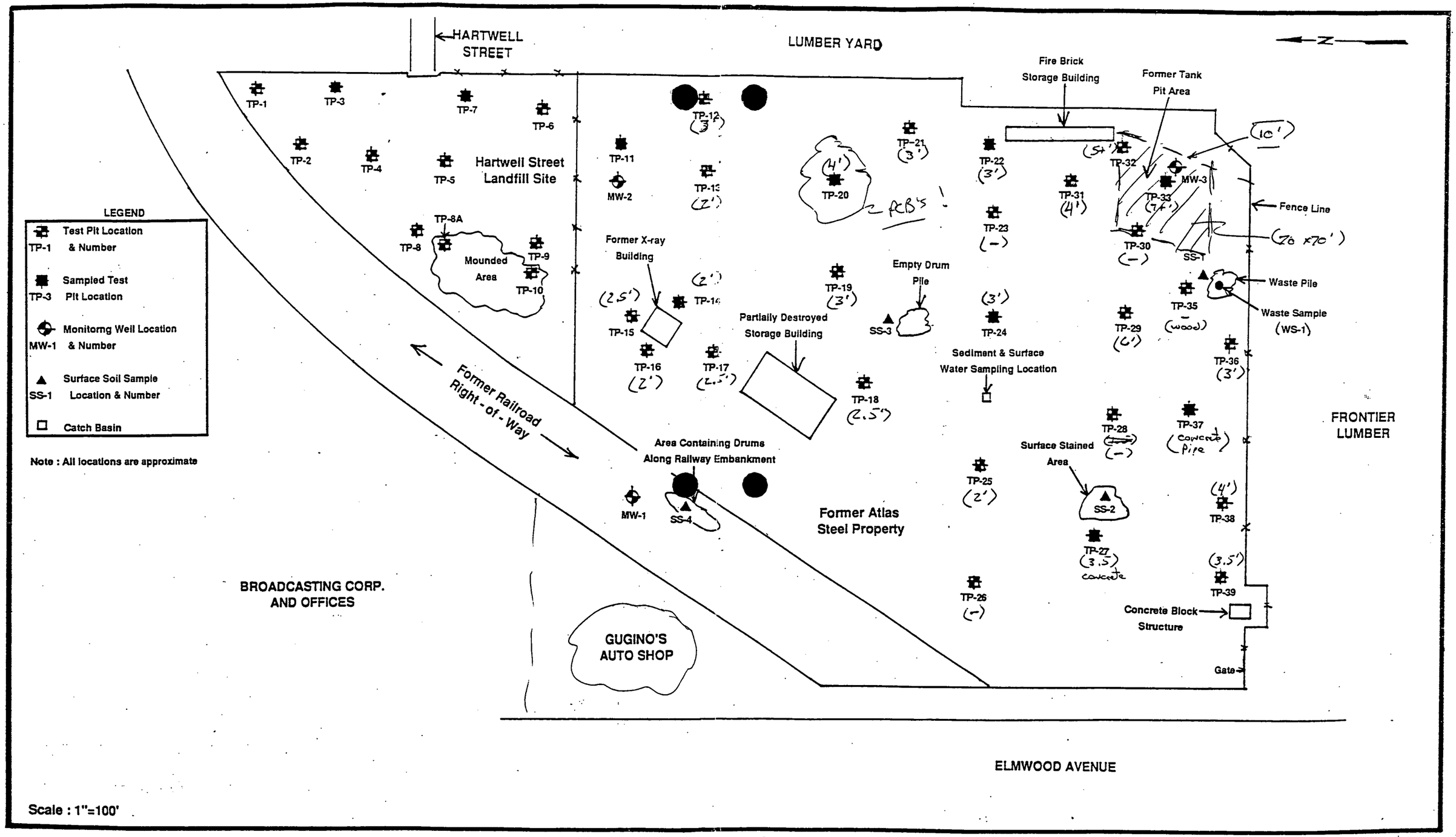


FIGURE 2-1
SITE MAP
FORMER ATLAS STEEL SITE
BUFFALO, NEW YORK

GEOSCIENCE CORP

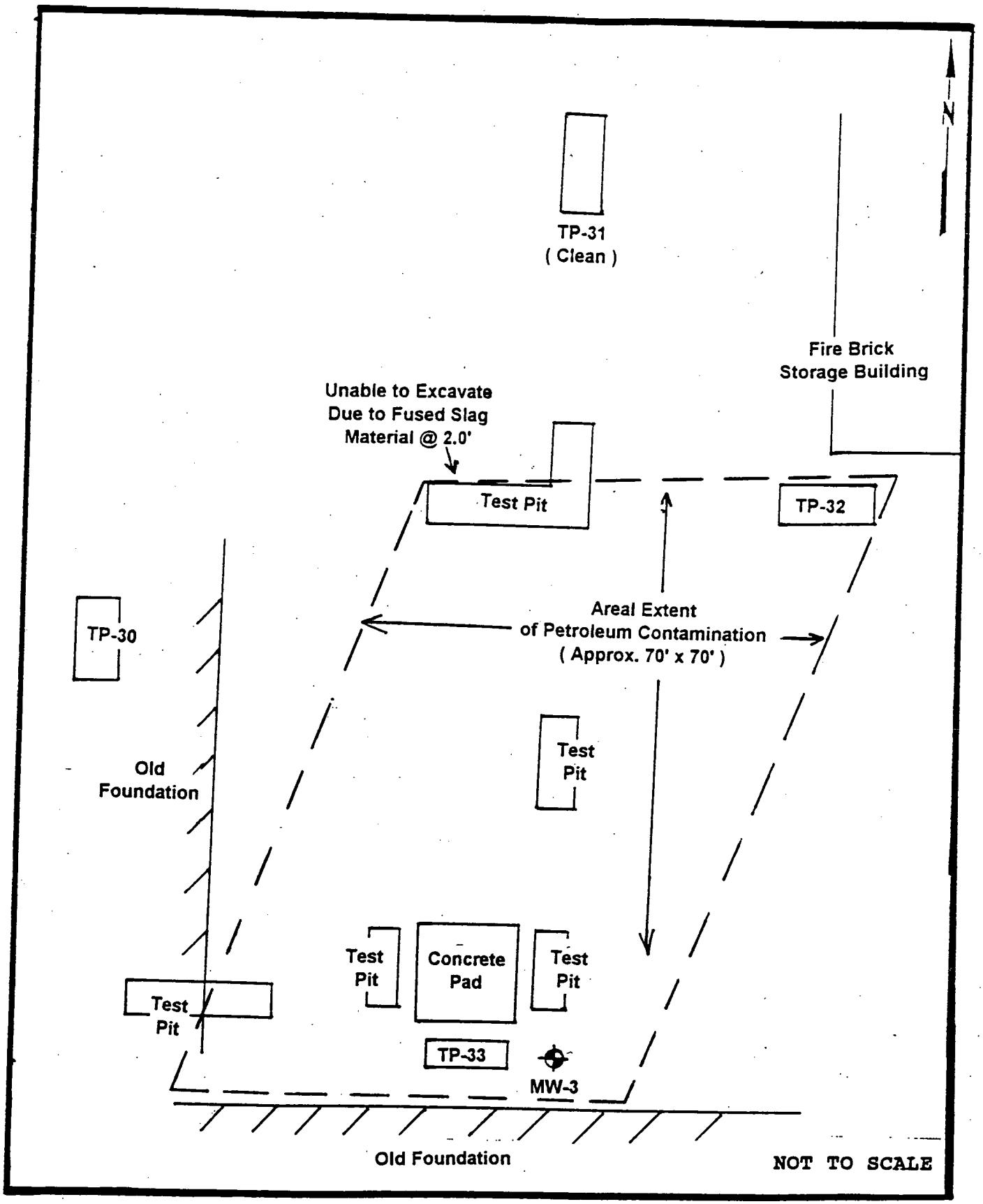


FIGURE 3-1
AREAL EXTENT OF CONTAMINATION
FORMER TANK PIT AREA
FORMER ATLAS STEEL SITE
BUFFALO, N. Y.

DUNN
GEOSCIENCE CORP

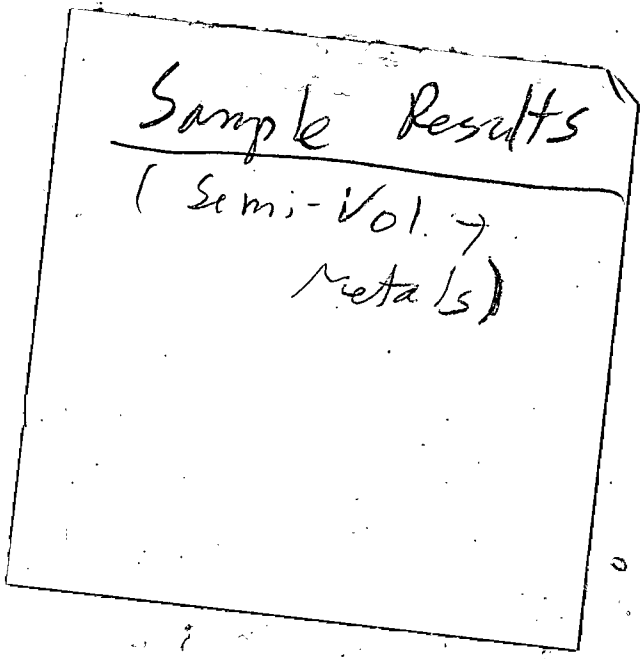

Sample Results
(Semi-Vol. →
Metals)

TABLE 3-1

FORMER ATLAS STEEL SITE
Summary Table of Volatile and Semi-Volatile Organic Parameters
Test Pit Soil Samples
(Concentration Values in ug/kg-ppb)

Analytes	SOIL SAMPLE LOCATION AND DEPTH										NYSDEC Soil Guidance Values
	TP-3	TP-7	TP-11	TP-14	TP-20	TP-22	TP-24	TP-27	TP-33	TP-37	
	3'	5-6'	4-5'	1-2'	2-3'	2-3'	1-2'	2-3'	4-6'	3-4'	
Volatile Organic Parameters											
Methylene Chloride	17 J	8.7 J	ND	ND	ND	ND	ND	ND	ND*	ND	100
Acetone	43 J	48 J	18	ND	50	16	24	24	ND*	63	200
cis 1,2-Dichloroethene	8.7 J	ND	ND	ND	ND	ND	ND	ND	ND*	ND	45
Chloroform	8.0 J	ND	ND	ND	ND	ND	ND	ND	ND*	ND	5.4
Trichloroethene	11 J	ND	ND	6.6	ND	ND	6.6	ND	ND*	ND	15.75
Tetrachloroethene	ND	ND	ND	ND	ND	140	6.0	ND	ND*	ND	45.5
1,1,1 - Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND*	15	19
Semi-Volatile Organic Parameters											
Fluorene	ND	ND	ND	ND	550	ND	ND	580	ND*	ND*	9125
Phenanthrene	ND	ND	ND	1700	3400	500	1500	3900	5100	ND*	10000
Anthracene	ND	ND	ND	ND	740	ND	ND	920	ND*	ND*	10000
Fluoranthene	ND	ND	580	1900	5000	1000	2500	4500	ND*	ND*	10000
Pyrene	ND	ND	470	1400	3600	770	1900	2900	ND*	ND*	10000
Benzo(a)anthracene	ND	ND	ND	760	2300	550	1400	1900	ND*	ND*	69
Chrysene	ND	ND	ND	770	2000	630	1600	1900	ND*	ND*	10000
Benzo(b)fluoranthene	ND	770	600	690	2700	690	2900	1900	ND*	ND*	275
Benzo(k)fluoranthene	ND	ND	480	720	2500	630	1200	1900	ND*	ND*	27.5
Benzo(a)pyrene	ND	ND	500	740	2300	600	1600	1900	ND*	ND*	61
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	980	ND	980	ND	ND*	ND*	80
Dibenzo(a,h)anthracene	ND	ND	ND	ND	430	ND	ND	ND	ND*	ND*	14
Benzo(g,h,i)perylene	ND	ND	ND	ND	890	ND	1100	1100	ND*	ND*	80
	TOTAL PAH 770	2630	8680	27390	5370	16680	23400	5100			500,000

* Matrix interference encountered during analyses resulted in increased detection limits.
J - Indicates estimated value.
ND = Not Detected
Note : Shaded values exceed NYS Guidance Values.

TC L
TA-2

TABLE 3-2

FORMER ATLAS STEEL SITE
Summary Table of Inorganic Parameters
Test Pit Soil Samples
(Concentration Values in mg/kg-ppm)

Analytes	SOIL SAMPLE LOCATION AND DEPTH										Conc. Range of Element in Uncont. Soils**
	TP-3	TP-7	TP-11	TP-14	TP-20	TP-22	TP-24	TP-27	TP-33	TP-37	
	3'	5-6'	4-5'	1-2'	2-3'	2-3'	1-2'	2-3'	4-6'	3-4'	
TAL Metals											
Aluminum	5910	7140	4960	7090	14200	3560	3190	4700	3570	5300	10000-300000
Arsenic	4.52	8.19	9.96	9.36	10.10	14.40	5.64	4.03	1.88	4.66	3.0-12.0
Barium	21.2	29.5	38.5	46.1	80.8	64.2	20.2	22.1	15.2	15.6	15-35000
Calcium	885 *	2570 *	2000	891	39200	1920	730	724	411 *	262	130-35000
Chromium	10.5	12.8	102	22.8	41.9	60.4	5.40	11.3	5.35	9.59	1.5-40
Cobalt	ND	ND	8.92	ND	11.1	11.6	ND	ND	ND	ND	2.5-60
Copper	24.6 *N	19.2 *N	47.2	103.0	59.3	138	13.4	23.5	8.84 *N	31.8	2.0-100
Iron	20200 *	18900 *	83100	21500	38000	74000	9960	12400	17100 *	10700	2000-550000
Lead	28.8	20.8	15.5	1940	37.0	166	27.7	26.1	10.7	12.0	4.0-61
Magnesium	241	956	730	395	13400	594	260	285	185	235	400-9000
Manganese	217 *N	422 *N	8000	2060	1500	594	260	285	271 *N	152	100-4000
Mercury	ND	ND	0.431	ND	0.298	0.087	ND	ND	ND	ND	0.001 - 0.2
Nickel	11.7	11.4	34.9	10.0	29.5	58.0	5.06	10.2	ND	6.0	0.5-60
Potassium	524	779	78.4	1000	2560	413	517	607	64.4	899	100-37000
Sodium	99.4	130	102	110	482	169	68.1	124	83.3	118	150-15000
Vanadium	6.19 *	8.93 *	26.9	13.8	22.5	11.1	5.98	6.81	ND	9.69	1.3-300
Zinc	20.5	29.6	93.6	77.4	107	136	26.2	21.8	10.0	18.8	10-300
Misc. Compounds											
Total Cyanide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-

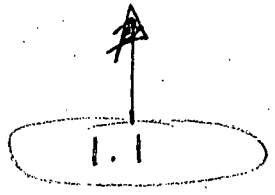
ND = Not Detected
N = Spiked sample recovery not within control limits.
* = Duplicate analysis not within control limits.
** = Published concentrations from various sources.
Note : Shaded values exceed concentration range.

TABLE 3-3

FORMER ATLAS STEEL SITE
Summary Table of Pesticide and PCB Parameters
Test Pit Soil Samples
(Concentration Values in ug/kg-ppb)

Analytes	SOIL SAMPLE LOCATION AND DEPTH										NYSDEC Soil Guidance Values
	TP-3	TP-7	TP-11	TP-14	TP-20	TP-22	TP-24	TP-27	TP-33	TP-37	
	3'	5-6'	4-5'	1-2'	2-3'	2-3'	1-2'	2-3'	4-6'	3-4'	
Pesticides (all)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
PCB'S											
PCB - 1260	ND	ND	ND	ND	1100	ND	ND	ND	ND	ND	13.25

ND = Not Detected
Note : Shaded values exceed NYS Guidance Values



3.3.2 Subsurface Soil - Former Atlas Steel Property

A total of eight soil samples were collected at discrete intervals from test pits located throughout the former plant site (refer to Figure 2-1 for sample locations).

Chemical analysis of the eight soil samples revealed the presence of several volatile organic parameters (refer to Table 3-1). Relatively low concentrations of trichlorethene, tetrachloroethene and 1,1,1-trichloroethane were detected at several test pit locations. The presence of these contaminants does not appear to be widespread or to present an environmental concern for the site.

It should be noted that there were no volatile organic compounds detected in the sample obtained from TP-33, which exhibited staining and strong petroleum odors. Matrix interference was encountered during analysis of TP-33 which resulted in elevated detection limits.

Numerous semi-volatile organic compounds were detected within the test pit samples, excluding TP-33 and TP-37 (refer to Table 3-1). Matrix interference was responsible for elevated detection limits in TP-33 and TP-37. The types of semi-volatile compounds found at the site are typical for industrial fill material. Several of the compounds were detected at levels which exceed NYSDEC Guidance Values. However, given the industrial history and proposed commercial development of the site, the concentrations and types of semi-volatile compounds detected do not appear to be a significant environmental concern.

Results of the metals analysis indicated the presence of several metals (arsenic, chromium, copper, lead, manganese, magnesium and mercury) at slightly elevated concentrations in four test pit samples (refer to Table 3-2). In most cases, where recorded levels exceeded published levels for uncontaminated soils, the exceedence is less than twice the published value. The only value to exceed the published value for uncontaminated soils by several orders of magnitude is lead at 1940 ppm from TP-14 at a depth of 1-2 feet.

While elevated levels of metals were found at several test pit locations, it may be said that the concentrations detected are not extreme and limited to isolated pockets. Therefore, it is DUNN's opinion that the metal concentrations detected at the site should not be considered a significant environmental concern.

There were no pesticides detected in any of the test pit samples above the detection limit of the analytical methodology (refer to Table 3-3). Polychlorinated biphenyls (PCBs) were detected at one test pit location (TP-20). PCB-1260 was detected within the soil collected from TP-20 at a concentration of 1100 ppb. The concentration detected is not of significant environmental concern and its presence appears to be limited to a localized area.

3.3.3 Surface Soil - Former Plant Site

Four surface soil samples (SS-1 through SS-4) were collected from various locations across the former plant site (refer to Figure 2-1). Chemical analysis of the samples did not indicate the presence of any significant concentrations of volatile organic compounds (refer to Table

3-4). Numerous semi-volatile organic compounds were detected in the surface soil samples with the exception of SS-1. Concentrations of semi-volatile organics exceeding NYS Guidance Values were detected in SS-2, located within a visibly stained area. The compounds detected are common constituents of fuel oil, which may be the cause of the surficial staining.

Results of the metals analysis for each sample location indicated the presence of several metals at concentrations above normal ranges for uncontaminated soils (refer to Table 3-5). As in the case of the test pit samples, most metals concentrations that exceeded published background levels were within two to three times the background level. There were several instances where observed levels were greater than ten times the background levels including arsenic (143 ppm) at SS-4; chromium at SS-2 (3820 ppm) and SS-3 (1040 ppm); lead at SS-2 (5550 ppm) and SS-3 (813 ppm); nickel at SS-1 (835 ppm) and zinc at SS-2 (8500 ppm).

The levels of total metals and semi-volatile organics in SS-2 may be a potential environmental concern for the site. However, given the relatively small localized area of surficial staining and the proposed commercial use of the property, the environmental significance of the contaminant levels is diminished.

There were no pesticides detected within any of the surface soil samples above the detection limit of the analytical methodology (refer to Table 3-6). PCBs were detected at only one sample location, SS-3, at a relatively low concentration.

3.3.4 Groundwater - Former Plant Site

Chemical analysis of the three perched groundwater samples did not indicate the presence of any volatile organic compounds above the detection limit of the analytical methodology (refer to Table 3-7). Several semi-volatile compounds were detected in the perched groundwater collected from MW-3 at levels above NYS Groundwater Guidance Values. MW-3 is located in the former tank pit area and the compounds detected are typical fuel oil constituents. In addition, several metals were detected at levels exceeding NYS Groundwater Standards in all three perched groundwater samples (refer to Table 3-8). These included arsenic, chromium, iron, lead, manganese and zinc. There were no pesticides or PCBs detected in any of the perched groundwater samples above the detection limits of the respective analytical methodologies.

Overall, the levels of metals and semi-volatile organics detected in the perched groundwater on-site do not appear to be of significant environmental concern given the industrial / commercial use of the project area. In addition, a municipal water supply is utilized in the City of Buffalo. However, the presence of a sheen on the water recovered from MW-3 does present a potential environmental concern and should be addressed.

3.3.5 Surface Water and Sediment - Former Plant Site

Chemical analysis of the surface water sample (SW-1) collected from a catch basin on-site indicated the presence of several semi-volatile organic compounds at levels exceeding NYS Surface Water Guidance Values(refer to Table 3-7). In addition, several metals were

TABLE 3-4

FORMER ATLAS STEEL SITE
Summary Table of Volatile and Semi-Volatile Organic Parameters
Surface Soil and Sediment Samples
(Concentration Values in ug/kg-ppb)

Analytes	SAMPLE LOCATION					NYSDEC Soil Guidance Values
	SS-1	SS-2	SS-3	SS-4	SED-1	
Volatile Organic Parameters						
Methylene Chloride	9.2	19	ND	ND	ND	--
Acetone	14	15	ND	ND	ND	--
Semi-Volatile Organic Parameters						
2 - Methylphenol	ND	ND	ND	13000	ND	62.5
2 - Methyl Naphthalene	ND	ND	ND	2700	8300	10000
Naphthalene	ND	ND	ND	1000	51000	325
Acenaphthylene	ND	ND	ND	1200	ND	3125
Acenaphthene	ND	6200	ND	ND	39000	2300
Fluorene	ND	11000	ND	ND	57000	9125
Phenanthrene	ND	62000	7400	3100	410000	10000
Anthracene	ND	18000	ND	970	66000	10000
Fluoranthene	ND	73000	17000	9700	460000	10000
Pyrene	ND	51000	14000	8200	380000	10000
Benzo(a)anthracene	ND	34000	8200	4900	160000	69
Chrysene	ND	30000	7300	4500	190000	10000
Benzo(b)fluoranthene	ND	32000	16000	7000	350000	275
Benzo(k)fluoranthene	ND	28000	4500	4400	120000	27.5
Benzo(a)pyrene	ND	33000	11000	4600	230000	61
Indeno(1,2,3-cd)pyrene	ND	12000	6200	1600	45000	80
Dibenzo(a,h)anthracene	ND	ND	ND	850	15000	14
Dibenzofuran	ND	ND	ND	ND	17000	--
Benzo(g,h,i)perylene	ND	11000	6700	1400	48000	80

ND = Not Detected
Note : Shaded values exceed NYS Guidance Values.

TABLE 3-5

FORMER ATLAS STEEL SITE
Summary Table of Inorganic Parameters
Surface Soil and Sediment Samples
(Concentration Values in mg/l -ppm)

Analytes	SAMPLE LOCATION					Conc. Range of Element in Uncont. Soils**
	SS-1	SS-2	SS-3	SS-4	SED-1	
TAL Metals						
Antimony	6.37 N	14.2 N	ND	ND	ND	0.2 -150
Aluminum	1940	3210	3900	5140	4230	10000-30000
Arsenic	23.6	47.3	22	143	0.669	3.0-12.0
Barium	13.2	25	97.6	144	38.9	15-35000
Beryllium	4.78	3.27	2.34	1.61	1.10 *	0-1.75
Cadmium	ND	70.1	13.8	1.76	2.85	0-7.0
Calcium	780 *	3530 *	22400	6020	13000	130-35000
Chromium	38.1	3820	1040	35.2	45.4	1.5-40
Cobalt	34.4	17.3	12	11.1	ND	2.5-60
Copper	934 *N	890 *N	214	126	71.5 *	2.0-100
Iron	352000 *	273000 *	10600	48700	32800	2000-550000
Lead	ND	5550	813	281	117 N	4.0-61
Magnesium	1220	1180	8270	973	2620 N	400-9000
Manganese	3410 *N	29300	7350	286	620 *	100-4000
Mercury	ND	0.985	0.396	0.195	0.169	0.001-0.2
Nickel	835	325	104	45.8	30.0 *	0.5-60
Potassium	64.4	944	2530	1130	353	100-37000
Selenium	ND	4.07	1.27	2.21	ND	0.01-12.0
Sodium	654	812	471	166	232	150-15000
Vanadium	39.1 *	85.8 *	43.5	32.1	7.08	1.3-300
Zinc	57.0	8500	1980	295	383	10-300
Misc. Compounds						
Total Cyanide	ND	ND	ND	ND	ND	–

ND = Not Detected
N = Spiked sample recovery not within control limits.
* = Duplicate analysis not within control limits.
** = Published concentrations from various sources..
Note : Shade values exceed concentration range.

TABLE 3-6

FORMER ATLAS STEEL SITE
Summary Table of Pesticide and PCB Parameters
Surface Soil and Sediment Samples
(Concentration Values in ug/kg-ppb)

Analytes	SAMPLE LOCATION					NYSDEC Soil Guidance Values
	SS-1	SS-2	SS-3	SS-4	SED-1	
Pesticides (all)	ND	ND	ND	ND	ND	--
PCB'S						
PCB - 1260	ND	ND	670	ND	ND	13.25

ND = Not Detected
Note : Shaded values exceed NYS Guidance Values.

TABLE 3-7

FORMER ATLAS STEEL SITE
Summary Table of Groundwater and Surface Water Results
for Volatile Organics, Semi-Volatile Organics, Pesticides & PCB's
(Concentration Values in ug/l-ppb)

Analytes	Groundwater Monitoring Well Sample			NYS* Groundwater **Guidance Value** or Standard	Surface Water Sample	NYS* Surface Water **Guidance Value** or Standard
	MW-1	MW-2	MW-3		SW-1	
Volatile Organic Parameters (All)	ND	ND	ND	--	ND	--
Semi-Volatile Organic Parameters						
Naphthalene	ND	ND	25	10	ND	10
Acenaphthene	ND	ND	9.4	20	ND	20
Fluorene	ND	ND	13	50	ND	50
Phenanthrene	ND	ND	36	50	26	50
Anthracene	ND	ND	10	50	ND	50
Fluoranthene	ND	ND	27	50	38	50
Pyrene	ND	ND	20	50	27	50
Butylbenzylphthalate	ND	ND	ND	50	5.6	50
Benzo(a)anthracene	ND	ND	11	0.002	15	0.002
Bis(2-ethylhexyl)phthalate	9.5	7.7	8.1	50	ND	4.0
Chrysene	ND	ND	10	0.002	16	0.002
Benzo(b)fluoranthene	ND	ND	11	0.002	13	0.002
Benzo(k)fluoranthene	ND	ND	8.0	0.002	15	0.002
Benzo(a)pyrene	ND	ND	9.6	ND	15	0.002
Indeno(1,2,3-cd)pyrene	ND	ND	ND	0.002	8.0	0.002
Benzo(g,h,i)perylene	ND	ND	ND	--	8.3	--
Pesticides/PCB's						
All Parameters	ND	ND	ND	--	ND	--

ND = Not Detected
*6NYCRR PART 703
Note : Shaded values exceed NYS Guidance Values or Standards

TABLE 3-8

FORMER ATLAS STEEL SITE
Summary Table of Groundwater and Surface Water Results
for Total Metals Analysis
(Concentration Values in mg/l-ppm)

Analytes	Groundwater Monitoring Well Sample			NYS* Groundwater **Guidance Value** or Standard	Surface Water Sample	NYS* Surface Water **Guidance Value** or Standard
	MW-1	MW-2	MW-3		SW-1	
TAL Metals						
Aluminum	142	129	262	--	90	--
Arsenic	0.052	0.0446	0.0469	0.025	0.130	0.050
Barium	0.743	0.638	0.992	1.0	0.681	1.0
Cadmium	ND	ND	ND	0.010	0.037	0.010
Calcium	314	294	73	--	539	--
Chromium	0.158	0.225	0.254	0.050	0.409	0.050
Cobalt	0.0589	0.0533	0.0759	--	0.0618	--
Copper	0.176	0.187	0.428	0.20	0.857	0.20
Iron	142	153	364	0.30	177	0.30
Lead	.134	0.323	0.312	0.025	1.53	0.050
Magnesium	94.2	125	19.3	**35**	109	35
Manganese	2.48	11.3	8.50	0.30	6.98	0.30
Mercury	0.00021	0.00034	ND	0.002	0.00137	0.002
Nickel	0.142	0.18	0.131	--	0.307	--
Potassium	28.6 N	30.5 N	57.4 N	--	39.6 N	--
Selenium	0.0062	ND	0.0051	0.010	0.0075	0.010
Silver	ND	ND	ND	0.050	0.012	0.050
Sodium	11.0	92.4	92.3	20.0	73.6	--
Vanadium	.201	0.182	0.303	--	0.165	--
Zinc	0.412	0.565	0.747	0.30	6.85	0.30
Misc. Compounds						
Total Cyanide	ND	ND	ND	0.10	ND	0.10

N = Spiked sample recovery out of control limits.
ND = Not Detected
*6NYCRR PART 703
Note : Shaded values exceed NYS Guidance Values or Standards

detected in SW-1 at levels exceeding NYS Surface Water Standards (refer to Table 3-8). There were no volatile organic compounds, pesticides or PCBs detected in SW-1 above the detection limits of the respective analytical methodologies.

Chemical analysis of the sediment sample (SED-1) collected from a catch basin on-site indicated the presence of numerous semi-volatile organic compounds at levels exceeding NYS Soil Guidance Values (refer to Table 3-4). In addition, elevated levels of lead, zinc and chromium were detected (refer to Table 3-5). There were no volatile organic compounds, pesticides or PCBs detected in SED-1 above the detection limits of the respective analytical methodologies.

The elevated semi-volatile organic compounds detected within catch basin sediments are a potential environmental concern. The catch basin and associated storm sewer system may act as a conduit for contaminant migration off-site. The storm sewer system should either be sealed up and closed in place or cleaned out.

3.3.6 Waste Pile - Former Plant Site

A waste sample (WS-1) was collected from a pile of black foundry sand located along the southern border of the former plant site. Chemical analysis of WS-1 for toxicity, reactivity, corrosivity and ignitability indicated that the waste pile is not a hazardous waste (refer to Table 3-9), and does not appear to pose an environmental concern to the project site.

4.0 CONCLUSIONS

- The fill material disposed in the Hartwell Street Landfill consists predominantly of sand and cinders and ranges in depth from 1.5-6.0 feet below ground surface. Chemical analysis of the fill indicated that it does not appear to present an environmental concern for the property.

- Subsurface contamination was documented to exist in the former tank pit area. Strong petroleum odors were detected in the subsurface soils and a heavy sheen was observed on the perched groundwater zone in an area approximately 70 ft. long x 70 ft. wide. Chemical analysis of the perched groundwater sample collected from Monitoring Well MW-3, revealed the presence of semi-volatile organic compounds commonly associated with fuel oil. This area is considered to be an environmental concern for the property.

need to be remediated

- Several metals were detected within the perched groundwater samples collected from Monitoring Wells MW-1, 2, & 3 at levels above NYS Groundwater Standards. However, given the former industrial use and proposed commercial development of the property, and the fact that 60-80 feet of very impermeable clay and silt separate the perched water from the bedrock aquifer, the slightly elevated metals concentrations within the perched groundwater zone are not considered to be a significant environmental concern.

- Chemical analysis of subsurface and surficial soils collected from across the former

TABLE 3-9

FORMER ATLAS STEEL SITE
Summary Table of RCRA Waste Characteristics & TCLP
Waste Pile Sample (WS-1)

Analysis	Result	Maximum Allowable Level
Corrosivity,mm/yr	7.74	63.5
Ignitability, F	> 212	< 140
Reactivity		
Total Cyanide	ND	--
Total Sulfide	6.14	--
TCLP Metals	ND	Not Applicable
TCLP Pesticides	ND	Not Applicable
TCLP Volatiles	ND	Not Applicable
TCLP Semi-Volatiles	ND	Not Applicable

- Atlas Steel Site indicated the presence of several semi-volatile compounds and total metals at levels exceeding NYS Guidance Values. However, the concentrations and types of analytes detected are common in industrial areas; not extreme; and not widespread and are not considered to be an environmental concern.

- The waste pile located along the southern border of the former Atlas Steel Site was determined to be non-hazardous, and therefore not an environmental concern for the property.

- Chemical analysis of the sediment sample collected from an on-site catch basin indicated the presence of numerous semi-volatile organic compounds. Some of these compounds were also detected in lesser concentrations in the associated surface water sample. In addition, metals were detected in the surface water sample at levels exceeding NYS Surface Water Standards. The storm sewer system is, therefore, a potential environmental concern as it may serve as a conduit for off-site contaminant migration.

5.0 RECOMMENDATIONS

- Remediation of the former tank pit area should be implemented. Remedial activities would entail the excavation and removal of contaminated subsurface soils from the project site for disposal at a permitted landfill. The estimated volume of contaminated soil ranges from 600-1200 cubic yards. In addition, contaminated water encountered during the excavation activities would have to be addressed by either on-site or off-site treatment.

- The existing storm sewer network on the former Atlas Steel site should be either cleaned out or permanently sealed to ensure against possible future liabilities associated with potential off-site contaminant migration.

- The partially filled drums located along the former railway embankment adjacent to Gugino's property should be removed from the project site.

- There is a potential health concern associated with the contaminants detected in the surficial soils on site due to the site's proximity to residential homes. Therefore, any construction work performed on the project site should be completed utilizing appropriate engineering practices with regard to dust control.

Proj3/atlas.rpt
40093-00174

Impacts + Recommendations

FIELD SAMPLING RECORD

PROJECT: ATLAS STEEL SITE
PROJECT NO.: 40093-00174
CLIENT: BENDERSON DEVELOPMENT
SAMPLERS: JOEL TAFT of DUNN

DATE: 10-30-92
TIME: 10:30A
SITE ID:

Sample classification: Surface Water / Infiltration Water / Leachate / Sediment / (Soil) / Waste / Other

Sample From: Stream / River / Lake / Pond / Seep / Lagoon / Tank / Pipe Outfall / Drum / (Excavation) / Boring / Embankment /

Surface: Residential / (Industrial) / Commerical / Other

Sampling Methods: Sampling Bottle: Direct Fill Container / Remote Fill / Dipper Jar/Can / Peristaitic Pump / Bailer / Core Sampler / Standard Split Spoon / Hand Auger / Stainless Spoon / (Trowel) /

Sample Type: Point / (Grab) / Composite /

Atmospheric Trip Blank ID _____
Containers Filled (primary) # 5-4oz BOTTLES
Containers Filled (replicates) # _____
Test for TCL + TAL Parameters + Cyanide
Physical Appearance and Odor Gr-br fine to medium SAND, No odor

Field (wash) Blank ID _____
List ID #s ATL-TP3-3'
List ID #s _____

Field Tests:	Meter ID #	Test Value
Temperature (C / F)		
pH		
Spec. Conductivity (umhos/cm)		
Dissolved Oxygen (mg/1)		
Other:		

Units _____

Weather: Cloudy - 45°F
Comments:

FIELD SAMPLING RECORD

PROJECT: ATLAS STEEL SITE
PROJECT NO.: 40093-00174
CLIENT: BENDERSON DEVELOPMENT
SAMPLERS: JOEL TAFT of DUNN

DATE: 10-30-92
TIME: 11:50 A
SITE ID:

Sample classification: Surface Water / Infiltration Water / Leachate / Sediment / (Soil) / Waste / Other

Sample From: Stream / River / Lake / Pond / Seep / Lagoon / Tank / Pipe Outfall / Drum / (Excavation) / Boring / Embankment /

Surface: Residential / (Industrial) / Commerical / Other

Sampling Methods: Sampling Bottle: Direct Fill Container / Remote Fill / Dipper Jar/Can / Peristaltic Pump / Bailer / Core Sampler / Standard Split Spoon / Hand Auger / Stainless Spoon / (Trowel) /

Sample Type: Point / (Grab) / Composite /

Atmospheric Trip Blank ID
Containers Filled (primary) # 5-4oz BOTTLES
Containers Filled (replicates) #
Test for TCL + TAL Parameters + Cyanide
Physical Appearance and Odor Ok br to blk fine to coarse SAND & CINDERS - No odor

Field (wash) Blank ID
List ID #s ATL-TP7-5-6'
List ID #s

Field Tests:

	Meter ID #	Test Value
Temperature (C / F)		
pH		
Spec. Conductivity (umhos/cm)		
Dissolved Oxygen (mg/1)		
Other:		

Units

Weather: Cldy - 45° F
Comments:

FIELD SAMPLING RECORD

PROJECT: ATLAS STEEL SITE
PROJECT NO.: 40093-00174
CLIENT: BENDERSON DEVELOPMENT
SAMPLERS: JOEL TAFT of DUNN

DATE: 10-30-92
TIME: 3:10 P
SITE ID:

Sample classification: Surface Water / Infiltration Water / Leachate / Sediment / (Soil) / Waste / Other

Sample From: Stream / River / Lake / Pond / Seep / Lagoon / Tank / Pipe Outfall / Drum / (Excavation) / Boring / Embankment /

Surface: Residential / (Industrial) / Commerical / Other

Sampling Methods: Sampling Bottle: Direct Fill Container / Remote Fill / Dipper Jar/Can / Peristaltic Pump / Bailer / Core Sampler / Standard Split Spoon / Hand Auger / Stainless Spoon / (Trowel) /

Sample Type: Point / (Grab) / Composite /

Atmospheric Trip Blank ID _____
Containers Filled (primary) # 5-4oz BOTTLES
Containers Filled (replicates) # _____
Test for TCL + TAL Parameters + Cyanide
Physical Appearance and Odor Gry-blk fine SAND, strong petroleum odor

Field (wash) Blank ID _____
List ID #s ATL-TP33-4-6'
List ID #s _____

Field Tests:

	Meter ID #	Test Value
Temperature (C / F)		
pH		
Spec. Conductivity (umhos/cm)		
Dissolved Oxygen (mg/1)		
Other:		

Units _____

Weather: Cloudy - 45°F
Comments:

FIELD SAMPLING RECORD

PROJECT: ATLAS STEEL SITE
PROJECT NO.: 40093-00174
CLIENT: BENDERSON DEVELOPMENT
SAMPLERS: JOEL TAFT of DUNN

DATE: 11-2-92
TIME: 2:40 P
SITE ID:

Sample classification: Surface Water / Infiltration Water / Leachate / Sediment / (Soil) / Waste / Other

Sample From: Stream / River / Lake / Pond / Seep / Lagoon / Tank / Pipe Outfall / Drum / (Excavation) / Boring / Embankment /

Surface: Residential / (Industrial) / Commerical / Other

Sampling Methods: Sampling Bottle: Direct Fill Container / Remote Fill / Dipper Jar/Can / Peristaltic Pump / Bailer / Core Sampler / Standard Split Spoon / Hand Auger / Stainless Spoon / (Trowel) /

Sample Type: Point / (Grab) / Composite /

Atmospheric Trip Blank ID _____
Containers Filled (primary) # 5-4oz BOTTLES
Containers Filled (replicates) # _____
Test for TCL + TAL Parameters + Cyanide
Physical Appearance and Odor Gry fine to coarse SAND, pine odor

Field (wash) Blank ID _____
List ID #s ATL-TP37-3-4'
List ID #s _____

Field Tests:

	Meter ID #	Test Value
Temperature (C / F)		
pH		
Spec. Conductivity (umhos/cm)		
Dissolved Oxygen (mg/1)		
Other:		

Units _____

Weather: Rain - 40°F
Comments:

FIELD SAMPLING RECORD

PROJECT: ATLAS STEEL SITE
PROJECT NO.: 40093-00174
CLIENT: BENDERSON DEVELOPMENT
SAMPLERS: JOEL TAFT of DUNN

DATE: 11-3-92
TIME: 8:20 A
SITE ID:

Sample classification: Surface Water / Infiltration Water / Leachate / Sediment / (Soil) / Waste / Other

Sample From: Stream / River / Lake / Pond / Seep / Lagoon / Tank / Pipe Outfall / Drum / (Excavation) / Boring / Embankment /

Surface: Residential / (Industrial) / Commerical / Other

Sampling Methods: Sampling Bottle: Direct Fill Container / Remote Fill / Dipper Jar/Can / Peristaltic Pump / Bailer / Core Sampler / Standard Split Spoon / Hand Auger / Stainless Spoon / (Trowel) /

Sample Type: Point / (Grab) / Composite /

Atmospheric Trip Blank ID _____
Containers Filled (primary) # 5-4oz BOTTLES
Containers Filled (replicates) # _____
Test for TCL + TAL Parameters + Cyanide
Physical Appearance and Odor Brown fine to med SAND, some fine to coarse Gravel, no odor

Field (wash) Blank ID _____
List ID #s ATL-TP11-4-5'
List ID #s _____

Field Tests:	**Meter ID #**	**Test Value**
Temperature (C / F)		
pH		
Spec. Conductivity (umhos/cm)		
Dissolved Oxygen (mg/1)		
Other:		

Units _____

Weather: Sunny - 50°F
Comments:

FIELD SAMPLING RECORD

PROJECT: ATLAS STEEL SITE
PROJECT NO.: 40093-00174
CLIENT: BENDERSON DEVELOPMENT
SAMPLERS: JOEL TAFT of DUNN

DATE: 11-3-92
TIME: 10:45A
SITE ID:

Sample classification: Surface Water / Infiltration Water / Leachate / Sediment / (Soil) / Waste / Other

Sample From: Stream / River / Lake / Pond / Seep / Lagoon / Tank / Pipe Outfall / Drum / (Excavation) / Boring / Embankment /

Surface: Residential / (Industrial) / Commercial / Other

Sampling Methods: Sampling Bottle: Direct Fill Container / Remote Fill / Dipper Jar/Can / Peristaltic Pump / Bailer / Core Sampler / Standard Split Spoon / Hand Auger / Stainless Spoon / (Trowel) /

Sample Type: Point / (Grab) / Composite /

Atmospheric Trip Blank ID _____
Containers Filled (primary) # 5-40z BOTTLES
Containers Filled (replicates) # _____
Test for TCL + TAL Parameters + Cyanide
Physical Appearance and Odor Dkgr to blk fine to medium SAND + CINDERS - NO ODORS

Field (wash) Blank ID _____
List ID #s ATL-TP22-2-3
List ID #s _____

Field Tests:

	Meter ID #	Test Value
Temperature (C / F)		
pH		
Spec. Conductivity (umhos/cm)		
Dissolved Oxygen (mg/1)		
Other:		

Units _____

Weather: Sunny - 50°F
Comments:

FIELD SAMPLING RECORD

PROJECT: ATLAS STEEL SITE
PROJECT NO.: 40093-00174
CLIENT: BENDERSON DEVELOPMENT
SAMPLERS: JOEL TAFT of DUNN

DATE: 11-3-92
TIME: 9:00 A
SITE ID:

Sample classification: Surface Water / Infiltration Water / Leachate / Sediment / (Soil) / Waste / Other

Sample From: Stream / River / Lake / Pond / Seep / Lagoon / Tank / Pipe Outfall / Drum / (Excavation) / Boring / Embankment /

Surface: Residential / (Industrial) / Commerical / Other

Sampling Methods: Sampling Bottle: Direct Fill Container / Remote Fill / Dipper Jar/Can / Peristaltic Pump / Bailer / Core Sampler / Standard Split Spoon / Hand Auger / Stainless Spoon / (Trowel) /

Sample Type: Point / (Grab) / Composite /

Atmospheric Trip Blank ID _____
Containers Filled (primary) # 5-4oz BOTTLES
Containers Filled (replicates) # _____
Test for TCL + TAL Parameters + Cyanide
Physical Appearance and Odor Brown fine to coarse SAND, Some fine to coarse Gravel - No odor

Field (wash) Blank ID _____
List ID #s ATL-TP14-1-2'
List ID #s _____

Field Tests:	Meter ID #	Test Value
Temperature (C / F)		
pH		
Spec. Conductivity (umhos/cm)		
Dissolved Oxygen (mg/1)		
Other:		

Units _____

Weather: Sunny - 50°F
Comments:

FIELD SAMPLING RECORD

PROJECT: ATLAS STEEL SITE
PROJECT NO.: 40093-00174
CLIENT: BENDERSON DEVELOPMENT
SAMPLERS: JOEL TAFT of DUNN

DATE: 11-3-92
TIME: 10:10 A
SITE ID:

Sample classification: Surface Water / Infiltration Water / Leachate / Sediment / (Soil) / Waste / Other

Sample From: Stream / River / Lake / Pond / Seep / Lagoon / Tank / Pipe Outfall / Drum / (Excavation) / Boring / Embankment /

Surface: Residential / (Industrial) / Commercial / Other

Sampling Methods: Sampling Bottle: Direct Fill Container / Remote Fill / Dipper Jar/Can / Peristaltic Pump / Bailer / Core Sampler / Standard Split Spoon / Hand Auger / Stainless Spoon / (Trowel) /

Sample Type: Point / (Grab) / Composite /

Atmospheric Trip Blank ID _____ **Field (wash) Blank ID** _____
Containers Filled (primary) # 5-4oz BOTTLES **List ID #s** ATL-TP20-2-3'
Containers Filled (replicates) # _____ **List ID #s** _____
Test for TCL + TAL Parameters + Cyanide
Physical Appearance and Odor Gr-br fine to coarse SAND, concrete, bricks, slag - No odor

Field Tests:	Meter ID #	Test Value
Temperature (C / F)		
pH		
Spec. Conductivity (umhos/cm)		
Dissolved Oxygen (mg/1)		
Other:		

Units _____

Weather: Sunny - 50°F
Comments:

FIELD SAMPLING RECORD

PROJECT: ATLAS STEEL SITE
PROJECT NO.: 40093-00174
CLIENT: BENDERSON DEVELOPMENT
SAMPLERS: JOEL TAFT of DUNN

DATE: 11-3-92
TIME: 11:10 A
SITE ID:

Sample classification: Suface Water / Infiltration Water / Leachate / Sediment / (Soil) / Waste /Other

Sample From: Stream / River / Lake / Pond / Seep / Lagoon / Tank / Pipe Outfall / Drum / (Excavation) / Boring / Embankment /

Surface: Residential / (Industrial) / Commerical / Other

Sampling Methods: Sampling Bottle: Direct Fill Container / Remote Fill / Dipper Jar/Can / Peristaltic Pump / Bailer / Core Sampler / Standard Split Spoon/ Hand Auger / Stainless Spoon/ (Trowel) /

Sample Type: Point / (Grab) / Composite /

Atmospheric Trip Blank ID
Containers Filled (primary) # 5-4oz BOTTLES
Containers Filled (replicates) #
Test for TCL + TAL Parameters + Cyanide
Physical Appearance and Odor Gr-br ironstained Sand & Gravel, cinders & slag - No odors

Field (wash) Blank ID
List ID #s ATL-TP24-1-2'
List ID #s

Field Tests:	Meter ID #	Test Value
Temperature (C / F)		
pH		
Spec. Conductivity (umhos/cm)		
Dissolved Oxygen (mg/1)		
Other:		

Units

Weather: Sunny 50°F
Comments:

FIELD SAMPLING RECORD

PROJECT: ATLAS STEEL SITE
PROJECT NO.: 40093-00174
CLIENT: BENDERSON DEVELOPMENT
SAMPLERS: JOEL TAFT of DUNN

DATE: 11-3-92
TIME: 11:50
SITE ID:

Sample classification: Surface Water / Infiltration Water / Leachate / Sediment / (Soil) / Waste / Other

Sample From: Stream / River / Lake / Pond / Seep / Lagoon / Tank / Pipe Outfall / Drum / (Excavation) / Boring / Embankment /

Surface: Residential / (Industrial) / Commerical / Other

Sampling Methods: Sampling Bottle: Direct Fill Container / Remote Fill / Dipper Jar/Can / Peristaltic Pump / Bailer / Core Sampler / Standard Split Spoon / Hand Auger / Stainless Spoon / (Trowel) /

Sample Type: Point / (Grab) / Composite /

Atmospheric Trip Blank ID _____
Containers Filled (primary) # 5-4oz BOTTLES
Containers Filled (replicates) # _____
Test for TCL + TAL Parameters + Cyanide
Physical Appearance and Odor Dkgr-br fine to med SAND, metal, slag, concrete - No odors

Field (wash) Blank ID _____
List ID #s ATL-TP27-2-3
List ID #s _____

Field Tests:	Meter ID #	Test Value
Temperature (C / F)		
pH		
Spec. Conductivity (umhos/cm)		
Dissolved Oxygen (mg/1)		
Other:		

Units _____

Weather: Sunny - 50°F
Comments:

FIELD SAMPLING RECORD

PROJECT: ATLAS STEEL SITE
PROJECT NO.: 40093-00179
CLIENT: RENDERSON DEVELOPMENT
SAMPLERS: R. RALL of DUNN

DATE: 11-2-92
TIME: 8:45 A
SITE ID:

Sample classification: Surface Water / Infiltration Water / Leachate / Sediment / (Soil) / Waste / Other
Surficial Sample

Sample From: Stream / River / Lake / Pond / Seep / Lagoon / Tank / Pipe Outfall / Drum / Excavation / Boring / Embankment /

Surface: Residential / (Industrial) / Commerical / Other

Sampling Methods: Sampling Bottle: Direct Fill Container / Remote Fill / Dipper Jar/Can / Peristaltic Pump / Bailer / Core Sampler / Standard Split Spoon / Hand Auger / Stainless Spoon / (Trowel)

Sample Type: Point / (Grab) / Composite /

Atmospheric Trip Blank ID _____
Containers Filled (primary) # 5-40z Glass
Containers Filled (replicates) # _____
Test for TCL & TAL Parameters + Cyanide
Physical Appearance and Odor Black fine sand - No odor

Field (wash) Blank ID _____
List ID #s ATL-SS-1
List ID #s _____

Field Tests:	Meter ID #	Test Value
Temperature (C / F)		
pH		
Spec. Conductivity (umhos/cm)		
Dissolved Oxygen (mg/1)		
Other:		

Units _____

Weather: Rain - 40°F
Comments: Sample collected from black sand pile

FIELD SAMPLING RECORD

PROJECT: ATLAS STEEL SITE
PROJECT NO.: 40093-00179
CLIENT: RENDERSON DEVELOPMENT
SAMPLERS: R. RALL of DUNN

DATE: 11-2-92
TIME: 9:00 A
SITE ID:

Sample classification: Surface Water / Infiltration Water / Leachate / Sediment / (Soil) / Waste / Other
Surficial Sample

Sample From: Stream / River / Lake / Pond / Seep / Lagoon / Tank / Pipe Outfall / Drum / Excavation / Boring / Embankment /

Surface: Residential / (Industrial) / Commerical / Other _____

Sampling Methods: Sampling Bottle: Direct Fill Container / Remote Fill / Dipper Jar/Can / Peristaitic Pump / Bailer / Core Sampler / Stancare Soil Spoon/ Hand Auger / Stainless Spoon / (Trowel)

Sample Type: Point / (Grab) / Composite /

Atmospheric Trip Blank ID _____
Containers Filled (primary) # 5-40z Glass
Containers Filled (replicates) # _____
Test for TCL & TAL Parameters + Cyanide
Physical Appearance and Odor No Odor - Fill Material

Field (wash) Blank ID _____
List ID #s ATL-SS-2
List ID #s _____

Field Tests:	Meter ID #	Test Value	
Temperature (C / F)			
pH			
Spec. Conductivity (umhos/cm)			
Dissolved Oxygen (mg/1)			
Other:			Units _____

Weather: Rain - 40°F
Comments: Sample Collected from dark colored stain area

FIELD SAMPLING RECORD

PROJECT: ATLAS STEEL SITE
PROJECT NO.: 40093-00174
CLIENT: RENDERSON DEVELOPMENT
SAMPLERS: R. RALL of DUNN

DATE: 11-3-92
TIME: 9:30 A
SITE ID:

Sample classification: Surface Water / Infiltration Water / Leachate / Sediment / (Soil) / Waste / Other
Surficial Sample

Sample From: Stream / River / Lake / Pond / Seep / Lagoon / Tank / Pipe Outfall / Drum / Excavation / Boring / Embankment /

Surface: Residential / (Industrial) / Commerical / Other

Sampling Methods: Sampling Bottle: Direct Fill Container / Remote Fill / Dipper Jar/Can / Peristaitic Pump / Bailer / Core Sampler / Standard Split Spoon / Hand Auger / Stainless Spoon / (Trowel)

Sample Type: Point / (Grab) / Composite /

Atmospheric Trip Blank ID _____
Containers Filled (primary) # 5-40z Glass
Containers Filled (replicates) # _____
Test for TCL & TAL Parameters + Cyanide
Physical Appearance and Odor FILL Material - No odor

Field (wash) Blank ID _____
List ID #s ATL-SS-3
List ID #s _____

Field Tests:	Meter ID #	Test Value
Temperature (C / F)		
pH		
Spec. Conductivity (umhos/cm)		
Dissolved Oxygen (mg/1)		
Other:		

Units _____

Weather: Sunny - 50°F
Comments: Sample collected adjacent to drum pile in middle of property

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Revised: 4/27/92

FIELD SAMPLING RECORD

PROJECT: ATLAS STEEL SITE
PROJECT NO.: 40093-00179
CLIENT: BENDERSON DEVELOPMENT
SAMPLERS: R. RALL of DUNN

DATE: 11-3-92
TIME: 9:45 A
SITE ID:

Sample classification: Suface Water / Infiltration Water / Leachate / Sediment / (Soil) / Waste /Other
Surficial Sample

Sample From: Stream / River / Lake / Pond / Seep / Lagoon / Tank / Pipe Outfall / Drum / Excavation / Boring / Embankment /

Surface: Residential / (Industrial) / Commerical / Other

Sampling Methods: Sampling Bottle: Direct Fill Container / Remote Fill / Dipper Jar/Can / Peristaitic Pump / Bailer / Core Sampler / Standard Split Spoon/ Hand Auger / Stainless Spoon/ (Trowel) /

Sample Type: Point / (Grab) / Composite /

Atmospheric Trip Blank ID
Containers Filled (primary) # 5-40z Glass
Containers Filled (replicates) #
Field (wash) Blank ID
List ID #s ATL-SS-4
List ID #s
Test for TCL & TAL Parameters + Cyanide
Physical Appearance and Odor Fill/RR Cinders - No odor

Field Tests:	Meter ID #	Test Value
Temperature (C / F)		
pH		
Spec. Conductivity (umhos/cm)		
Dissolved Oxygen (mg/1)		
Other:		

Units

Weather: Sunny - 50°F
Comments: Collected Sample adjacent to 55-gallon drums on RR right of way

FIELD SAMPLING RECORD

PROJECT: ATLAS STEEL SITE
PROJECT NO.: 40093-00174
CLIENT: BENDERSON DEVELOPMENT
SAMPLERS: J. TAFT of DUNN

DATE: 11-10-92
TIME: 1012 0A
SITE ID:

Sample classification: Surface Water / Infiltration Water / Leachate / Sediment / Soil / (Waste) / Other

Sample From: Stream / River / Lake / Pond / Seep / Lagoon / Tank / Pipe Outfall / Drum / Excavation / Boring / Embankment / (Waste Pile)

Surface: Residential / (Industrial) / Commerical / Other

Sampling Methods: Sampling Bottle: Direct Fill Container / Remote Fill / Dipper Jar/Can / Peristaltic Pump / Bailer / Core Sampler / Stancard Split Spoon/ Hand Auger / Stainless Spoon/(Trowel)

Sample Type: Point / (Grab) / Composite /

Atmospheric Trip Blank ID
Containers Filled (primary) # 2- QT Glass
Containers Filled (replicates) #
Test for RCRA Waste Characteristics + TCLP
Physical Appearance and Odor Black fine to medium SAND

Field (wash) Blank ID
List ID #s ATL-WS1
List ID #s

Field Tests:

	Meter ID #	Test Value
Temperature (C / F)		
pH		
Spec. Conductivity (umhos/cm)		
Dissolved Oxygen (mg/1)		
Other:		

Units

Weather: Cldy - 50°F
Comments:

APPENDIX C

Test Boring Logs

APPENDIX D

Monitoring Well Diagrams

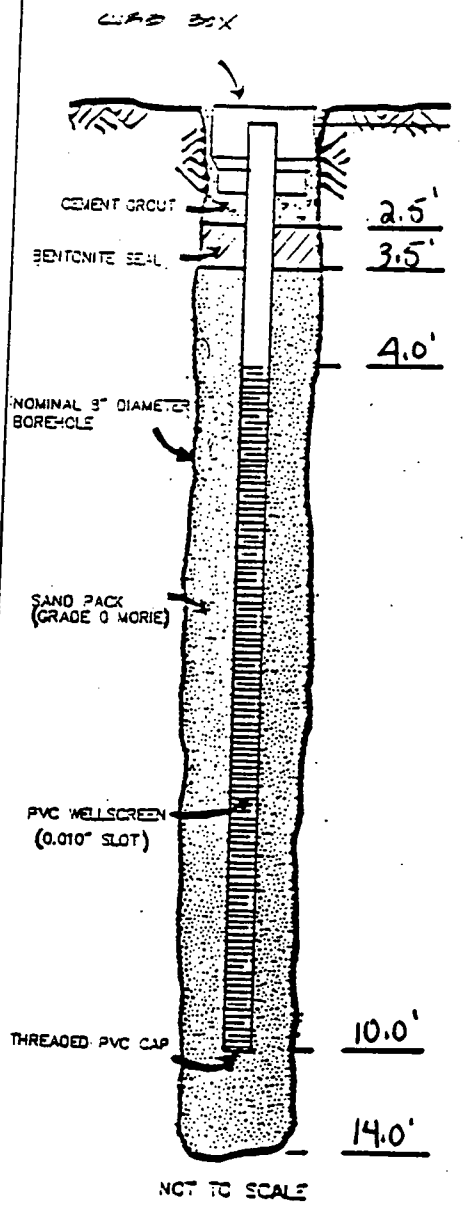
MONITORING WELL COMPLETION LOG

WELL NO. MW-1

DUNN GEOSCIENCE CORPORATION
495 COMMERCE DRIVE
AMHERST, NEW YORK 14150
(716) 691-3866
FAX (716) 691-3884

Project: Atlas Steel
Client: Benderson Development Co.
Location:
Project No.: 40093-00179
Date Drilled: 11-4-92
Date Developed: 11-6-92

CONSTRUCTION DETAIL



NOT TO SCALE

Inspector: J. Taft
Drilling Contractor: Advanced Drilling Investigations

Type of Well: 2.0" PVC Monitoring Well
Static Water Level: 5.00' Date: 11-10-92
Measuring Point (M.P.): TOP PVC
Total Depth of Well: 9.68'

Drilling Method
Type: Hollow Stem Auger Diameter: 4 1/4" I.D.
Casing:

Sampling Method
Type: Split Spoon Diameter: 2.0"
Weight: 140 lbs Fall: 30"
Interval: 2 feet

Settling Tube
Material: Diameter:
Length: Joint Type:

Riser Pipe Left in Place
Material: PVC Diameter: 2.0"
Length: 4.0' Joint Type: Flush Thread

Screen
Material: PVC Diameter: 2.0"
Slot Size: 0.010" Length: 6.0'
Stratigraphic Unit Screened: SILT & CLAY / FILL

Filter Pack
Sand: X Gravel: Natural:
Grade: 0 Morie
Amount: — Interval: 14.0' → 3.5'

Seal(s)
Type: Bentonite Interval: 3.5' → 2.5'
Type: Cement Interval: 2.5' → Surface
Type: Interval:

Locking Casing ☐ Yes ☒ No
Notes:

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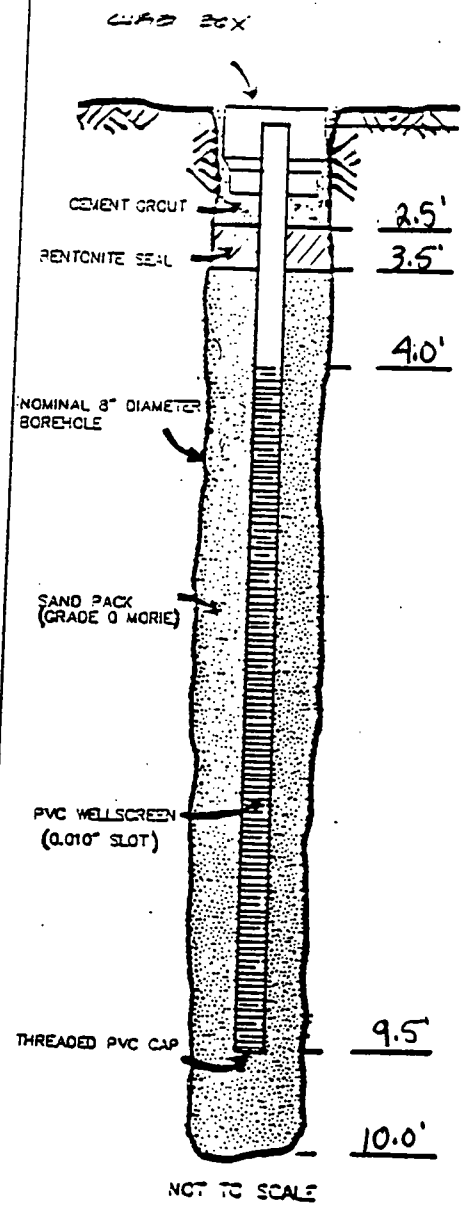
MONITORING WELL COMPLETION LOG

WELL NO. MW-2

DUNN GEOSCIENCE CORPORATION
495 COMMERCE DRIVE
AMHERST, NEW YORK 14150
(716) 691-3866
FAX (716) 691-3884

Project: Atlas Steel
Client: Benderson Development Co.
Location:
Project No.: 40093-00174
Date Drilled: 11-5-92
Date Developed: 11-6-92

CONSTRUCTION DETAIL



NOT TO SCALE

Inspector: J. Taft
Drilling Contractor: Advanced Drilling Investigations

Type of Well: 2.0" PVC Monitoring Well
Static Water Level: 2.99' Date: 11-10-92
Measuring Point (M.P.): TOP PVC
Total Depth of Well: 9.47'

Drilling Method
Type: Hollow Stem Auger Diameter: 4 1/4" I.D.
Casing:

Sampling Method
Type: Split Spoon Diameter: 2.0"
Weight: 140 lbs. Fall: 30"
Interval: 2 feet

Settling Tube
Material: Diameter:
Length: Joint Type:

Riser Pipe Left in Place
Material: PVC Diameter: 2.0"
Length: 4.5' Joint Type: Flush-Thread

Screen
Material: PVC Diameter: 2.0"
Slot Size: 0.010" Length: 5.5'
Stratigraphic Unit Screened: SILT & CLAY / FILL

Filter Pack
Sand: X Gravel: Natural:
Grade: O Morie
Amount: Interval: 10.0 → 3.5'

Seal(s)
Type: Bentonite Interval: 3.5' → 2.5'
Type: Grout Interval: 2.5' → surface
Type: Interval:

Locking Casing ☐ Yes ☒ No
Notes:

FORM54 - 9/88

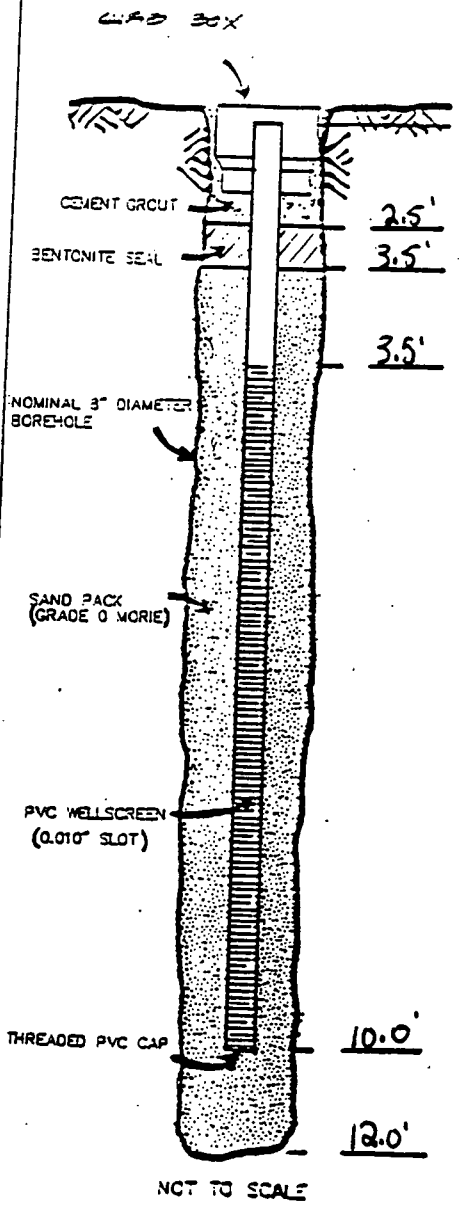
MONITORING WELL COMPLETION LOG

WELL NO. MW-3

DUNN GEOSCIENCE CORPORATION
495 COMMERCE DRIVE
AMHERST, NEW YORK 14150
(716) 691-3866
FAX (716) 691-3884

Project: Atlas Steel
Client: Henderson Development Co.
Location:
Project No.: 40093-00174
Date Drilled: 11-5-92
Date Developed: 11-6-92

CONSTRUCTION DETAIL



Inspector: J. Taft
Drilling Contractor: Advanced Drilling Investigations

Type of Well: 2.0" PVC Monitoring Well
Static Water Level: 2.90' Date: 11-10-92
Measuring Point (M.P.): TOP PVC
Total Depth of Well: 9.0'

Drilling Method
Type: Hollow Stem Auger Diameter: 4 1/4"
Casing:

Sampling Method
Type: Split Spoon Diameter: 2.0"
Weight: 140 lbs. Fall: 30"
Interval: 2 feet

Settling Tube
Material: Diameter:
Length: Joint Type:

Riser Pipe Left in Place
Material: PVC Diameter: 2.0"
Length: 3.5' Joint Type: Flush Thread

Screen
Material: PVC Diameter: 2.0"
Slot Size: 0.010" Length: 6.5'
Stratigraphic Unit Screened: FILL

Filter Pack
Sand: X Gravel: Natural:
Grade: O-Morie
Amount: - Interval: 12.0' → 3.5'

Seal(s)
Type: Bentonite Interval: 3.5' → 2.5'
Type: Grout Interval: 2.5' → surface
Type: Interval:

Locking Casing ☐ Yes ☒ No
Notes:

FORM54 - 9/88

APPENDIX E

Well Development/Sampling Logs

General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job No: R92/04809 Date: NOV. 30 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference

Atlas Steel

Received : 11/04/92 P.O. #:

ANALYTICAL RESULTS - ug/g Dry Wt.

Sample:		-001		-002		-003		-004	
Location:		ATL-TP37-3-4'		ATL-TP11-4-5'		ATL-TP14-1-2'		ATL-TP20-2-3'	
Date Collected:	PQL	11/02/92		11/03/92		11/03/92		11/03/92	
Time Collected:		14:40		08:20		09:00		10:10	
Cyanide, Total		1.10	U	1.33	U	1.12	U	1.17	U
Solids, %		90.3		74.0		85.4		81.6	
Aluminum	10.0	5300		4960		7090		14200	
Antimony	5.00	5.54	U	6.76	U	5.86	U	6.13	U
Arsenic	0.500	4.66		9.96		9.36		10.1	
Barium	0.500	15.6		38.5		46.1		80.8	
Beryllium	0.500	0.554	U	1.38		0.597		1.52	
Cadmium	0.500	0.554	U	0.676	U	0.585	U	0.613	U
Calcium	50.0	262		2000		891		39200	
Chromium	1.00	9.59		102		22.8		41.9	
Cobalt	5.00	5.54	U	8.92		5.86	U	11.1	
Copper	1.00	31.8		47.2		103		59.3	
Iron	5.00	10700		83100		21500		38000	
Lead	5.00	12		15.5		1940		37.0	
Magnesium	50.0	235		730		395		13400	
Manganese	0.500	152		8000		2060		1500	
Mercury	0.100	0.111	U	0.431		0.117	U	0.298	
Nickel	4.00	6.		34.9		10.0		29.5	
Potassium	50.0	899		78.4		1000		2560	
Selenium	0.500	0.554	U	0.924		0.864		1.38	
Silver	1.00	1.11	U	1.35	U	1.17	U	1.22	U
Sodium	50.0	118		102		110		482	
Thallium	5.00	5.54	U	6.76	U	5.86	U	6.13	U
Vanadium	5.00	9.69		26.9		13.8		22.5	
Zinc	1.00	18.8		93.6		77.4		107	

Michael F. Perry

Laboratory Director

3

General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job No: R92/04809 Date: NOV. 30 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference

Atlas Steel

Received : 11/04/92 P.O. #:

ANALYTICAL RESULTS - ug/g Dry Wt.

Sample:		-005		-006		-007		-008	
Location:		ATL-TP22-2-3'		ATL-TP24-1-2'		ATL-TP27-2-3'		ATL-SS-4	
Date Collected:	PQL	11/03/92		11/03/92		11/03/92		11/03/92	
Time Collected:		10:45		11:15		11:50		09:45	
Cyanide, Total		1.23	U	1.02	U	1.07	U	1.32	U
Solids, %		79.7		88.0		86.3		62.0	
Aluminum	10.0	3560		3190		4700		5140	
Antimony	5.00	6.27	U	5.68	U	5.79	U	8.06	U
Arsenic	0.500	14.4		5.64		4.03		143	
Barium	0.500	64.2		20.2		22.1		144	
Beryllium	0.500	1.40		0.568	U	0.579	U	1.61	
Cadmium	0.500	0.627	U	0.568	U	0.579	U	1.76	
Calcium	50.0	1920		730		724		6020	
Chromium	1.00	60.4		5.40		11.3		35.2	
Cobalt	5.00	11.6		5.68	U	5.79	U	11.1	
Copper	1.00	138		13.4		23.5		126	
Iron	5.00	74000		9960		12400		48700	
Lead	5.00	166		27.7		26.1		281	
Magnesium	50.0	594		260		285		973	
Manganese	0.500	1040		65.2		394		286	
Mercury	0.100	0.807		0.114	U	0.116	U	0.195	
Nickel	4.00	58.0		5.06		10.2		45.8	
Potassium	50.0	413		517		607		1130	
Selenium	0.500	1.19		0.568	U	0.579	U	2.21	
Silver	1.00	1.26	U	1.14	U	1.16	U	1.61	U
Sodium	50.0	169		68.1		124		166	
Thallium	5.00	6.27	U	5.68	U	5.79	U	8.06	U
Vanadium	5.00	11.1		5.98		6.81		32.1	
Zinc	1.00	136		26.2		21.8		295	

Laboratory Director

A

General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job No: R92/04809 Date: NOV. 30 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference

Atlas Steel

Received : 11/04/92 P.O. #:

ANALYTICAL RESULTS - ug/g Dry Wt.

Sample:		-009	
Location:		ATL-SS-3	
Date Collected:	PQL	11/03/92	
Time Collected:		09:30	
Cyanide, Total		1.28	U
Solids, %		78.2	
Aluminum	10.0	3900	
Antimony	5.00	6.39	U
Arsenic	0.500	22.0	
Barium	0.500	97.6	
Beryllium	0.500	2.34	
Cadmium	0.500	13.8	
Calcium	50.0	22400	
Chromium	1.00	1040	
Cobalt	5.00	12.0	
Copper	1.00	214	
Iron	5.00	10600	
Lead	5.00	813	
Magnesium	50.0	8270	
Manganese	0.500	7350	
Mercury	0.100	0.396	
Nickel	4.00	104	
Potassium	50.0	2530	
Selenium	0.500	1.27	
Silver	1.00	4.35	
Sodium	50.0	471	
Thallium	5.00	6.39.	U
Vanadium	5.00	43.5	
Zinc	1.00	1980	

Laboratory Director

5

General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job No: R92/04809 Date: DEC. 1 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference

Atlas Steel

Received : 11/04/92 P.O. #:

TCL VOLATILES BY EPA METHOD 8240* ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-001	-002	-003	-004	-005	-006	-007
Location:		ATL-TP37-3-4'	ATL-TP11-4-5'	ATL-TP14-1-2'	ATL-TP20-2-3'	ATL-TP22-2-3'	ATL-TP24-1-2'	ATL-TP27-2-3'
Date Collected:		11/02/92	11/03/92	11/03/92	11/03/92	11/03/92	11/03/92	11/03/92
Time Collected:	PQL	14:40	08:20	09:00	10:10	10:45	11:15	11:50
Date Analyzed:		11/12/92	11/12/92	11/12/92	11/12/92	11/12/92	11/12/92	11/12/92
Dilution:		2.5	1	1	1	1	1	1
Chloromethane	5.0	14 U	6.8 U	5.9 U	6.1 U	6.3 U	5.7 U	5.8 U
Bromomethane	5.0	14 U	6.8 U	5.9 U	6.1 U	6.3 U	5.7 U	5.8 U
Vinyl Chloride	5.0	14 U	6.8 U	5.9 U	6.1 U	6.3 U	5.7 U	5.8 U
Chloroethane	5.0	14 U	6.8 U	5.9 U	6.1 U	6.3 U	5.7 U	5.8 U
Methylene Chloride	5.0	14 U	6.8 U	5.9 U	6.1 U	6.3 U	5.7 U	5.8 U
Acetone	10	63	18	12 U	50	16	24	24
Carbon Disulfide	10	28 U	14 U	12 U	12 U	13 U	11 U	12 U
Vinyl Acetate	10	28 U	14 U	12 U	12 U	13 U	11 U	12 U
1,1-Dichloroethene	5.0	14 U	6.8 U	5.9 U	6.1 U	6.3 U	5.7 U	5.8 U
1,1-Dichloroethane	5.0	14 U	6.8 U	5.9 U	6.1 U	6.3 U	5.7 U	5.8 U
trans-1,2-Dichloroethene	5.0	14 U	6.8 U	5.9 U	6.1 U	6.3 U	5.7 U	5.8 U
cis-1,2-Dichloroethene	5.0	14 U	6.8 U	5.9 U	6.1 U	6.3 U	5.7 U	5.8 U
Chloroform	5.0	14 U	6.8 U	5.9 U	6.1 U	6.3 U	5.7 U	5.8 U
2-Butanone (MEK)	10	28 U	14 U	12 U	12 U	13 U	11 U	12 U
1,2-Dichloroethane	5.0	14 U	6.8 U	5.9 U	6.1 U	6.3 U	5.7 U	5.8 U
1,1,1-Trichloroethane	5.0	15	6.8 U	5.9 U	6.1 U	6.3 U	5.7 U	5.8 U
Carbon Tetrachloride	5.0	14 U	6.8 U	5.9 U	6.1 U	6.3 U	5.7 U	5.8 U
Bromodichloromethane	5.0	14 U	6.8 U	5.9 U	6.1 U	6.3 U	5.7 U	5.8 U
1,2-Dichloropropane	5.0	14 U	6.8 U	5.9 U	6.1 U	6.3 U	5.7 U	5.8 U
1,3-Dichloropropene-Trans	5.0	14 U	6.8 U	5.9 U	6.1 U	6.3 U	5.7 U	5.8 U
Trichloroethene	5.0	14 U	6.8 U	6.6	6.1 U	6.3 U	6.6	5.8 U
Dibromochloromethane	5.0	14 U	6.8 U	5.9 U	6.1 U	6.3 U	5.7 U	5.8 U
1,1,2-Trichloroethane	5.0	14 U	6.8 U	5.9 U	6.1 U	6.3 U	5.7 U	5.8 U
Benzene	5.0	14 U	6.8 U	5.9 U	6.1 U	6.3 U	5.7 U	5.8 U
1,3-Dichloropropene(Cis)	5.0	14 U	6.8 U	5.9 U	6.1 U	6.3 U	5.7 U	5.8 U
Bromoform	5.0	14 U	6.8 U	5.9 U	6.1 U	6.3 U	5.7 U	5.8 U
4-Methyl-2-pentanone(MIBK)	10	28 U	14 U	12 U	12 U	13 U	11 U	12 U
2-Hexanone	10	28 U	14 U	12 U	12 U	13 U	11 U	12 U
Tetrachloroethene	5.0	14 U	6.8 U	5.9 U	6.1 U	140	6.0	5.8 U
1,1,2,2-Tetrachloroethane	5.0	14 U	6.8 U	5.9 U	6.1 U	6.3 U	5.7 U	5.8 U
Toluene	5.0	14 U	6.8 U	5.9 U	6.1 U	6.3 U	5.7 U	5.8 U
Chlorobenzene	5.0	14 U	6.8 U	5.9 U	6.1 U	6.3 U	5.7 U	5.8 U

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R92/04809 Date: DEC. 1 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference

Atlas Steel

Received : 11/04/92

TCL * BY GC METHOD 8080 ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-001	-002	-003	-004	-005	-006	-007
Location:		ATL-TP37-3-4'	ATL-TP11-4-5'	ATL-TP14-1-2'	ATL-TP20-2-3'	ATL-TP22-2-3'	ATL-TP24-1-2'	ATL-TP27-2-3'
Date Collected:		11/02/92	11/03/92	11/03/92	11/03/92	11/03/92	11/03/92	11/03/92
Time Collected:	PQL	14:40	08:20	09:00	10:10	10:45	11:15	11:50
Date Extracted:		11/06/92	11/06/92	11/06/92	11/06/92	11/06/92	11/06/9	11/06/92
Date Analyzed:		11/18/92	11/18/92	11/18/92	11/18/92	11/18/92	11/18/9	11/18/92
Dilution:		100	10	10	10	10	10	10
alpha-BHC	2.0	220 U	27 U	23 U	25 U	25 U	23 U	23 U
beta-BHC	2.0	220 U	27 U	23 U	25 U	25 U	23 U	23 U
gamma-BHC (Lindane)	2.0	220 U	27 U	23 U	25 U	25 U	23 U	23 U
Heptachlor	2.0	220 U	27 U	23 U	25 U	25 U	23 U	23 U
delta-BHC	2.0	220 U	27 U	23 U	25 U	25 U	23 U	23 U
Aldrin	2.0	220 U	27 U	23 U	25 U	25 U	23 U	23 U
Heptachlor epoxide	2.0	220 U	27 U	23 U	25 U	25 U	23 U	23 U
alpha-Endosulfan	2.0	220 U	27 U	23 U	25 U	25 U	23 U	23 U
4,4'-DDE	2.0	220 U	27 U	23 U	25 U	25 U	23 U	23 U
Dieldrin	2.0	220 U	27 U	23 U	25 U	25 U	23 U	23 U
Endrin	2.0	220 U	27 U	23 U	25 U	25 U	23 U	23 U
4,4'-TDE (DDD)	2.0	220 U	27 U	23 U	25 U	25 U	23 U	23 U
beta-Endosulfan	4.0	440 U	54 U	47 U	49 U	50 U	45 U	46 U
4,4'-DDT	4.0	440 U	54 U	47 U	49 U	50 U	45 U	46 U
Endrin Aldehyde	4.0	440 U	54 U	47 U	49 U	50 U	45 U	46 U
Endosulfan Sulfate	4.0	440 U	54 U	47 U	49 U	50 U	45 U	46 U
Methoxychlor	8.0	890 U	110 U	94 U	98 U	100 U	91 U	93 U
Endrin Ketone	4.0	440 U	54 U	47 U	49 U	50 U	45 U	46 U
Chlordane	8.0	890 U	110 U	94 U	98 U	100 U	91 U	93 U
Toxaphene	40	4400 U	540 U	470 U	490 U	500 U	460 U	460 U
PCB 1016	20	2200 U	270 U	230 U	240 U	250 U	230 U	230 U
PCB 1221	20	2200 U	270 U	230 U	240 U	250 U	230 U	230 U
PCB 1232	20	2200 U	270 U	230 U	240 U	250 U	230 U	230 U
PCB 1242	20	2200 U	270 U	230 U	240 U	250 U	230 U	230 U
PCB 1248	20	2200 U	270 U	230 U	240 U	250 U	230 U	230 U
PCB 1254	20	2200 U	270 U	230 U	240 U	250 U	230 U	230 U
PCB 1260	20	2200 U	270 U	230 U	1100	250 U	230 U	230 U

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145 NY ID# in Hackensack: 10801

NJ ID# in Rochester: 73331 NJ ID# in Hackensack: 02317

General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job Number: R92/04809

Date: NOV. 27 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference

Atlas Steel

Received : 11/04/92

P.O. #:

TCL BASE NEUTRALS BY EPA METHOD 8270* ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-008	-009
Location:		ATL-SS-4	ATL-SS-3
Date Collected:		11/03/92	11/03/92
Time Collected:	PQL	09:45	09:30
Date Extracted:		11/06/92	11/06/92
Date Analyzed:		11/17/92	11/18/92
Dilution:		1	10
Butyl benzyl phthalate	330	540 U	4300 U
3,3'-Dichlorobenzidine	330	540 U	4300 U
Benzo(a)anthracene	330	4900	8200
Bis(2-ethylhexyl)phthalate	330	540 U	4300 U
Chrysene	330	4500	7300
Di-n-octyl phthalate	330	540 U	4300 U
Benzo(b)Fluoranthene	330	7000	16000
Benzo(k)fluoranthene	330	4400	4500
Benzo(a)pyrene	330	4600	11000
Indeno(1,2,3-cd)pyrene	330	1600	6200
Dibenzo(a,h)anthracene	330	850	4300 U
Benzo(g,h,i)perylene	330	1400	6700
Benzyl Alcohol	330	540 U	4300 U
4-Chloroaniline	330	540 U	4300 U
2-Methyl Naphthalene	330	2700	4300 U
2-Nitroaniline	330	540 U	4300 U
3-Nitroaniline	330	540 U	4300 U
Dibenzofuran	330	540 U	4300 U
4-Nitroaniline	330	540 U	4300 U
SURROGATE STANDARD RECOVERIES			
Nitrobenzene-d5	23-120%	81	68
2-Fluorobiphenyl	30-115%	94	94
Terphenyl-d14	18-137%	99	101

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145 NY ID# in Hackensack: 10801

NJ ID# in Rochester: 73331 NJ ID# in Hackensack: 02317

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Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R92/04809 Date: DEC. 1 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference

Atlas Steel

Received : 11/04/92 P.O. #:

TCL VOLATILES BY EPA METHOD 8240* ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-001	-002	-003	-004	-005	-006	-007
Location:		ATL-TP37-3-4'	ATL-TP11-4-5'	ATL-TP14-1-2'	ATL-TP20-2-3'	ATL-TP22-2-3'	ATL-TP24-1-2'	ATL-TP27-2-3'
Date Collected:		11/02/92	11/03/92	11/03/92	11/03/92	11/03/92	11/03/92	11/03/92
Time Collected:	PQL	14:40	08:20	09:00	10:10	10:45	11:15	11:50
Date Analyzed:		11/12/92	11/12/92	11/12/92	11/12/92	11/12/92	11/12/92	11/12/92
Dilution:		2.5	1	1	1	1	1	1
Ethylbenzene	5.0	14 U	6.8 U	5.9 U	6.1 U	6.3 U	5.7 U	5.8 U
Styrene	5.0	14 U	6.8 U	5.9 U	6.1 U	6.3 U	5.7 U	5.8 U
Total Xylene (o,m,p)	5.0	14 U	6.8 U	5.9 U	6.1 U	6.3 U	5.7 U	5.8 U
Surrogate Standard Recoveries								
1,2-Dichloroethane-d4	70-121	103	101	102	103	105	106	105
Toluene d8	81-117	117	102	109	115	111	108	107
4-Bromofluorobenzene	74-121	86	98	95	92	87	98	99

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.
NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R92/04809 Date: DEC. 1 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference

Atlas Steel

Received : 11/04/92 P.O. #:

TCL VOLATILES BY EPA METHOD 8240* ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-008	-009					
Location:		ATL-SS-4	ATL-SS-3					
Date Collected:		11/03/92	11/03/92					
Time Collected:	PQL	09:45	09:30					
Date Analyzed:		11/14/92	11/14/92					
Dilution:		1	1					
Chloromethane	5.0	8.1 UJ	6.4 U					
Bromomethane	5.0	8.1 UJ	6.4 U					
Vinyl Chloride	5.0	8.1 UJ	6.4 U					
Chloroethane	5.0	8.1 UJ	6.4 U					
Methylene Chloride	5.0	8.1 UJ	6.4 U					
Acetone	10	16 UJ	13 U					
Carbon Disulfide	10	16 UJ	13 U					
Vinyl Acetate	10	16 UJ	13 U					
1,1-Dichloroethene	5.0	8.1 UJ	6.4 U					
1,1-Dichloroethane	5.0	8.1 UJ	6.4 U					
trans-1,2-Dichloroethene	5.0	8.1 UJ	6.4 U					
cis-1,2-Dichloroethene	5.0	8.1 UJ	6.4 U					
Chloroform	5.0	8.1 UJ	6.4 U					
2-Butanone (MEK)	10	16 UJ	13 U					
1,2-Dichloroethane	5.0	8.1 UJ	6.4 U					
1,1,1-Trichloroethane	5.0	8.1 UJ	6.4 U					
Carbon Tetrachloride	5.0	8.1 UJ	6.4 U					
Bromodichloromethane	5.0	8.1 UJ	6.4 U					
1,2-Dichloropropane	5.0	8.1 UJ	6.4 U					
1,3-Dichloropropene-Trans	5.0	8.1 UJ	6.4 U					
Trichloroethene	5.0	8.1 UJ	6.4 U					
Dibromochloromethane	5.0	8.1 UJ	6.4 U					
1,1,2-Trichloroethane	5.0	8.1 UJ	6.4 U					
Benzene	5.0	8.1 UJ	6.4 U					
1,3-Dichloropropene(Cis)	5.0	8.1 UJ	6.4 U					
Bromoform	5.0	8.1 UJ	6.4 U					
4-Methyl-2-pentanone(MIBK)	10	16 UJ	13 U					
2-Hexanone	10	16 UJ	13 U					
Tetrachloroethene	5.0	8.1 UJ	6.4 U					
1,1,2,2-Tetrachloroethane	5.0	8.1 UJ	6.4 U					
Toluene	5.0	8.1 UJ	6.4 U					
Chlorobenzene	5.0	8.1 UJ	6.4 U					

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General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job No: R92/04809 Date: DEC. 1 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference

Atlas Steel

Received : 11/04/92 P.O. #:

TCL VOLATILES BY EPA METHOD 8240* ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-008	-009
Location:		ATL-SS-4	ATL-SS-3
Date Collected:		11/03/92	11/03/92
Time Collected:	PQL	09:45	09:30
Date Analyzed:		11/14/92	11/14/92
Dilution:		1	1
Ethylbenzene	5.0	8.1 UJ	6.4 U
Styrene	5.0	8.1 UJ	6.4 U
Total Xylene (o,m,p)	5.0	8.1 UJ	6.4 U
Surrogate Standard Recoveries			
1,2-Dichloroethane-d4	70-121	101	104
Toluene d8	81-117	129 *	114
4-Bromofluorobenzene	74-121	83	89

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job No: R92/04809 Date: NOV. 27 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference

Atlas Steel

Received : 11/04/92 P.O. #:

TCL ACID EXTRACTABLES BY EPA METHOD 8270* ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-001	-002	-003	-004	-005	-006	-007
Location:		ATL-TP37-3-4'	ATL-TP11-4-5'	ATL-TP14-1-2'	ATL-TP20-2-3'	ATL-TP22-2-3'	ATL-TP24-1-2'	ATL-TP27-2-3'
Date Collected:		11/02/92	11/03/92	11/03/92	11/03/92	11/03/92	11/03/92	11/03/92
Time Collected:	PQL	14:40	08:20	09:00	10:10	10:45	11:15	11:50
Date Extracted:		11/06/92	11/06/92	11/06/92	11/06/92	11/06/92	11/06/92	11/17/92
Date Analyzed:		11/18/92	11/17/92	11/17/92	11/17/92	11/17/92	11/17/92	11/18/92
Dilution:		10	1	1	1	1	1	1
Phenol	670	7400 U	900 U	780 U	810 U	830 U	760 U	780 U
2-Chlorophenol	670	7400 U	900 U	780 U	810 U	830 U	760 U	780 U
2-Nitrophenol	670	7400 U	900 U	780 U	810 U	830 U	760 U	780 U
2,4-Dimethylphenol	670	7400 U	900 U	780 U	810 U	830 U	760 U	780 U
2,4-Dichlorophenol	670	7400 U	900 U	780 U	810 U	830 U	760 U	780 U
4-Chloro-3-methylphenol	670	7400 U	900 U	780 U	810 U	830 U	760 U	780 U
2,4,6-Trichlorophenol	670	7400 U	900 U	780 U	810 U	830 U	760 U	780 U
2,4-Dinitrophenol	1300	15000 U	1800 U	1600 U	1600 U	1700 U	1500 U	1600 U
4-Nitrophenol	1300	15000 U	1800 U	1600 U	1600 U	1700 U	1500 U	1600 U
2-Methyl-4,6-dinitrophenol	1300	15000 U	1800 U	1600 U	1600 U	1700 U	1500 U	1600 U
Pentachlorophenol	1300	15000 U	1800 U	1600 U	1600 U	1700 U	1500 U	1600 U
2-Methylphenol	670	7400 U	900 U	780 U	810 U	830 U	760 U	780 U
4-Methylphenol	670	7400 U	900 U	780 U	810 U	830 U	760 U	780 U
Benzoic Acid	3300	37000 U	4500 U	3900 U	4100 U	4200 U	3800 U	3900 U
2,4,5-Trichlorophenol	670	7400 U	900 U	780 U	810 U	830 U	760 U	780 U
SURROGATE STANDARD RECOVERIES								
2-Fluorophenol	25-121%	80	87	88	88	88	86	86
Phenol-d6	24-113%	87	93	96	97	97	93	97
2,4,6-TriBromophenol	19-122%	84	112	109	110	107	101	103

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Michael K. Perry

Laboratory Director

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General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job No: R92/04809 Date: NOV. 27 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference

Atlas Steel

Received : 11/04/92 P.O. #:

TCL BASE NEUTRALS BY EPA METHOD 8270* ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-001	-002	-003	-004	-005	-006	-007
Location:		ATL-TP37-3-4'	ATL-TP11-4-5'	ATL-TP14-1-2'	ATL-TP20-2-3'	ATL-TP22-2-3'	ATL-TP24-1-2'	ATL-TP27-2-3'
Date Collected:		11/02/92	11/03/92	11/03/92	11/03/92	11/03/92	11/03/92	11/03/92
Time Collected:	PQL	14:40	08:20	09:00	10:10	10:45	11:15	11:50
Date Extracted:		11/06/92	11/06/92	11/06/92	11/06/92	11/06/92	11/06/92	11/17/92
Date Analyzed:		11/18/92	11/17/92	11/17/92	11/17/92	11/17/92	11/17/92	11/18/92
Dilution:		10	1	1	1	1	1	1
N-Nitrosodimethylamine	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
Bis(2-chloroethyl) ether	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
1,3 Dichlorobenzene	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
1,4 Dichlorobenzene	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
1,2 Dichlorobenzene	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
bis(-2-chloroisopropyl)ether	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
N-Nitroso-Di-n-propylamine	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
Hexachloroethane	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
Nitrobenzene	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
Isophorone	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
bis(-2-chloroethoxy)methane	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
1,2,4-Trichlorobenzene	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
Naphthalene	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
Hexachlorobutadiene	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
Hexachlorocyclopentadiene	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
2-Chloronaphthalene	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
Dimethyl phthalate	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
Acenaphthylene	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
Acenaphthene	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
2,4-Dinitrotoluene	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
2,6-Dinitrotoluene	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
Diethyl phthalate	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
4-Chlorophenyl-phenyl-ether	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
Fluorene	330	3700 U	450 U	390 U	550	420 U	380 U	580
1,2-Diphenylhydrazine	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
N-Nitrosodiphenylamine	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
4-Bromophenyl-phenylether	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
Hexachlorobenzene	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
Phenanthrene	330	3700 U	450 U	1700	3400	500	1500	3900
Anthracene	330	3700 U	450 U	390 U	740	420 U	380 U	920
Di-n-butyl phthalate	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
Benzidine	3300	37000 U	4500 U	3900 U	4100 U	4200 U	3800 U	3900 U
Fluoranthene	330	3700 U	580	1900	5000	1000	2500	4500
Pyrene	330	3700 U	470	1400	3600	770	1900	2900

General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job Number: R92/04809 Date: NOV. 27 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference

Atlas Steel

Received : 11/04/92 P.O. #:

TCL BASE NEUTRALS BY EPA METHOD 8270* ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-001	-002	-003	-004	-005	-006	-007
Location:		ATL-TP37-3-4'	ATL-TP11-4-5'	ATL-TP14-1-2'	ATL-TP20-2-3'	ATL-TP22-2-3'	ATL-TP24-1-2'	ATL-TP27-2-3'
Date Collected:		11/02/92	11/03/92	11/03/92	11/03/92	11/03/92	11/03/92	11/03/92
Time Collected:	PQL	14:40	08:20	09:00	10:10	10:45	11:15	11:50
Date Extracted:		11/06/92	11/06/92	11/06/92	11/06/92	11/06/92	11/06/92	11/17/92
Date Analyzed:		11/18/92	11/17/92	11/17/92	11/17/92	11/17/92	11/17/92	11/18/92
Dilution:		10	1	1	1	1	1	1
Butyl benzyl phthalate	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
3,3'-Dichlorobenzidine	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
Benzo(a)anthracene	330	3700 U	450 U	760	2300	550	1400	1900
Bis(2-ethylhexyl)phthalate	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
Chrysene	330	3700 U	450 U	770	2000	630	1600	1900
Di-n-octyl phthalate	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
Benzo(b)Fluoranthene	330	3700 U	600	690	2700	690	2900	1900
Benzo(k)fluoranthene	330	3700 U	480	720	2500	630	1200	1900
Benzo(a)pyrene	330	3700 U	500	740	2300	600	1600	1900
Indeno(1,2,3-cd)pyrene	330	3700 U	450 U	390 U	980	420 U	980	390 U
Dibenzo(a,h)anthracene	330	3700 U	450 U	390 U	430	420 U	380 U	390 U
Benzo(g,h,i)perylene	330	3700 U	450 U	390 U	890	420 U	1100	1100
Benzyl Alcohol	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
4-Chloroaniline	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
2-Methyl Naphthalene	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
2-Nitroaniline	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
3-Nitroaniline	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
Dibenzofuran	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
4-Nitroaniline	330	3700 U	450 U	390 U	410 U	420 U	380 U	390 U
SURROGATE STANDARD RECOVERIES								
Nitrobenzene-d5	23-120%	67	81	83	82	85	82	83
2-Fluorobiphenyl	30-115%	101	98	99	96	97	91	97
Terphenyl-d14	18-137%	97	88	87	92	87	87	90

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145 NY ID# in Hackensack: 10801

NJ ID# in Rochester: 73331 NJ ID# in Hackensack: 02317

Laboratory Director

General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job No: R92/04809 Date: NOV. 27 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference

Atlas Steel

Received : 11/04/92 P.O. #:

TCL ACID EXTRACTABLES BY EPA METHOD 8270* ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-008	-009
Location:		ATL-SS-4	ATL-SS-3
Date Collected:		11/03/92	11/03/92
Time Collected:	PQL	09:45	09:30
Date Extracted:		11/06/92	11/06/92
Date Analyzed:		11/17/92	11/18/92
Dilution:		1	10
Phenol	670	1100 U	8600 U
2-Chlorophenol	670	1100 U	8600 U
2-Nitrophenol	670	1100 U	8600 U
2,4-Dimethylphenol	670	1100 U	8600 U
2,4-Dichlorophenol	670	1100 U	8600 U
4-Chloro-3-methylphenol	670	1100 U	8600 U
2,4,6-Trichlorophenol	670	1100 U	8600 U
2,4-Dinitrophenol	1300	2200 U	17000 U
4-Nitrophenol	1300	2200 U	17000 U
2-Methyl-4,6-dinitrophenol	1300	2200 U	17000 U
Pentachlorophenol	1300	2200 U	17000 U
2-Methylphenol	670	13000	8600 U
4-Methylphenol	670	1100 U	8600 U
Benzoic Acid	3300	5400 U	43000 U
2,4,5-Trichlorophenol	670	1100 U	8600 U
SURROGATE STANDARD RECOVERIES			
2-Fluorophenol	25-121%	85	89
Phenol-d6	24-113%	91	93
2,4,6-TriBromophenol	19-122%	109	71

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

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General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job No: R92/04809 Date: NOV. 27 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference

Atlas Steel

Received : 11/04/92 P.O. #:

TCL BASE NEUTRALS BY EPA METHOD 8270* ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-008	-009
Location:		ATL-SS-4	ATL-SS-3
Date Collected:		11/03/92	11/03/92
Time Collected:	PQL	09:45	09:30
Date Extracted:		11/06/92	11/06/92
Date Analyzed:		11/17/92	11/18/92
Dilution:		1	10
N-Nitrosodimethylamine	330	540 U	4300 U
Bis(2-chloroethyl) ether	330	540 U	4300 U
1,3 Dichlorobenzene	330	540 U	4300 U
1,4 Dichlorobenzene	330	540 U	4300 U
1,2 Dichlorobenzene	330	540 U	4300 U
bis(-2-chloroisopropyl)ether	330	540 U	4300 U
N-Nitroso-Di-n-propylamine	330	540 U	4300 U
Hexachloroethane	330	540 U	4300 U
Nitrobenzene	330	540 U	4300 U
Isophorone	330	540 U	4300 U
bis(-2-chloroethoxy)methane	330	540 U	4300 U
1,2,4-Trichlorobenzene	330	540 U	4300 U
Naphthalene	330	1000	4300 U
Hexachlorobutadiene	330	540 U	4300 U
Hexachlorocyclopentadiene	330	540 U	4300 U
2-Chloronaphthalene	330	540 U	4300 U
Dimethyl phthalate	330	540 U	4300 U
Acenaphthylene	330	1200	4300 U
Acenaphthene	330	540 U	4300 U
2,4-Dinitrotoluene	330	540 U	4300 U
2,6-Dinitrotoluene	330	540 U	4300 U
Diethyl phthalate	330	540 U	4300 U
4-Chlorophenyl-phenyl-ether	330	540 U	4300 U
Fluorene	330	540 U	4300 U
1,2-Diphenylhydrazine	330	540 U	4300 U
N-Nitrosodiphenylamine	330	540 U	4300 U
4-Bromophenyl-phenylether	330	540 U	4300 U
Hexachlorobenzene	330	540 U	4300 U
Phenanthrene	330	3100	7400
Anthracene	330	970	4300 U
Di-n-butyl phthalate	330	540 U	4300 U
Benzidine	3300	5400 U	43000 U
Fluoranthene	330	9700	17000
Pyrene	330	8200	14000

General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job No: R92/04809 Date: NOV. 27 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference:
Atlas Steel

Received : 11/04/92 P.O. #:

ANALYSIS * BY GC METHOD 8080 — ANALYTICAL RESULTS - %

Sample:		-001	-002	-003	-004	-005	-006	-007
Location:		ATL-TP37-3-4'	ATL-TP11-4-5'	ATL-TP14-1-2'	ATL-TP20-2-3'	ATL-TP22-2-3'	ATL-TP24-1-2'	ATL-TP27-2-3'
Date Collected:		11/02/92	11/03/92	11/03/92	11/03/92	11/03/92	11/03/92	11/03/92
Time Collected:	LIMITS	14:40	08:20	09:00	10:10	10:45	11:15	11:50
SURROGATE STANDARD RECOVERY								
% Recovery								
Dibutylchlorendate	24-150%	D	*	105	80	133	106	*
Tetrachloro-meta-xylene	60-150%	D	107	107	103	114	110	114

*SW 846 Manual, Test Methods for Evaluating Solid Waste, 3rd Edition, 11/86.
NY LABORATORY CERTIFICATION ID#: 10145
NJ ID#: 73331 in Rochester;
NJ ID#: 02317 in Hackensack

Laboratory Director

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General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R92/04809 Date: DEC. 1 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference

Atlas Steel

Received : 11/04/92

TCL * BY GC METHOD 8080 ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-008	-009
Location:		ATL-SS-4	ATL-SS-3
Date Collected:		11/03/92	11/03/92
Time Collected:	PQL	09:45	09:30
Date Extracted:		11/06/92	11/06/92
Date Analyzed:		11/18/92	11/18/92
Dilution:		10	10
alpha-BHC	2.0	32 U	26 U
beta-BHC	2.0	32 U	26 U
gamma-BHC (Lindane)	2.0	32 U	26 U
Heptachlor	2.0	32 U	26 U
delta-BHC	2.0	32 U	26 U
Aldrin	2.0	32 U	26 U
Heptachlor epoxide	2.0	32 U	26 U
alpha-Endosulfan	2.0	32 U	26 U
4,4'-DDE	2.0	32 U	26 U
Dieldrin	2.0	32 U	26 U
Endrin	2.0	32 U	26 U
4,4'-TDE (DDD)	2.0	32 U	26 U
beta-Endosulfan	4.0	65 U	51 U
4,4'-DDT	4.0	65 U	51 U
Endrin Aldehyde	4.0	65 U	51 U
Endosulfan Sulfate	4.0	65 U	51 U
Methoxychlor	8.0	130 U	100 U
Endrin Ketone	4.0	65 U	51 U
Chlordane	8.0	130 U	100 U
Toxaphene	40	640 U	510 U
PCB 1016	20	320 U	260 U
PCB 1221	20	320 U	260 U
PCB 1232	20	320 U	260 U
PCB 1242	20	320 U	260 U
PCB 1248	20	320 U	260 U
PCB 1254	20	320 U	260 U
PCB 1260	20	320 U	670

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145 NY ID# in Hackensack: 10801

NJ ID# in Rochester: 73331 NJ ID# in Hackensack: 02317

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General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job No: R92/04809 Date: NOV. 27 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference:

Atlas Steel

Received : 11/04/92 P.O. #:

ANALYSIS * BY GC METHOD 8080

ANALYTICAL RESULTS - %

Sample:		-008	-009
Location:		ATL-SS-4	ATL-SS-3
Date Collected:		11/03/92	11/03/92
Time Collected:	LIMITS	09:45	09:30
SURROGATE STANDARD RECOVERY			
% Recovery			
Dibutylchlorendate	24-150%	*	*
Tetrachloro-meta-xylene	60-150%	107	103

*SW 846 Manual, Test Methods for Evaluating Solid Waste, 3rd Edition, 11/86.
NY LABORATORY CERTIFICATION ID#: 10145
NJ ID#: 73331 in Rochester;
NJ ID#: 02317 in Hackensack

Laboratory Director

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General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job No: R92/04809 Date: NOV. 27 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference

Atlas Steel

Received : 11/04/92 P.O. #:

TCL VOLATILES BY EPA METHOD 8240* ANALYTICAL RESULTS - ug/kg Wet Wt.

Sample:		-010	-011	-012	-013	-014		
Location:		LAB METH BLANK	LAB METH BLANK	LAB METH BLANK	LAB METH BLANK	LAB METH BLANK		
Date Collected:		--	--	--	--	--		
Time Collected:	PQL	--	--	--	--	--		
Date Analyzed:		11/12/92	11/13/92	11/13/92	11/14/92	11/16/92		
Dilution:		1	1	1	1	1		
Chloromethane	5.0	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
Bromomethane	5.0	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
Vinyl Chloride	5.0	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
Chloroethane	5.0	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
Methylene Chloride	5.0	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
Acetone	10	10 U	10 U	10 U	10 U	10 U		
Carbon Disulfide	10	10 U	10 U	10 U	10 U	10 U		
Vinyl Acetate	10	10 U	10 U	10 U	10 U	10 U		
1,1-Dichloroethene	5.0	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
1,1-Dichloroethane	5.0	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
trans-1,2-Dichloroethene	5.0	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
cis-1,2-Dichloroethene	5.0	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
Chloroform	5.0	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
2-Butanone (MEK)	10	10 U	10 U	10 U	10 U	10 U		
1,2-Dichloroethane	5.0	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
1,1,1-Trichloroethane	5.0	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
Carbon Tetrachloride	5.0	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
Bromodichloromethane	5.0	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
1,2-Dichloropropane	5.0	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
1,3-Dichloropropene-Trans	5.0	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
Trichloroethene	5.0	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
Dibromochloromethane	5.0	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
1,1,2-Trichloroethane	5.0	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
Benzene	5.0	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
1,3-Dichloropropene(Cis)	5.0	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
Bromoform	5.0	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
4-Methyl-2-pentanone(MIBK)	10	10 U	10 U	10 U	10 U	10 U		
2-Hexanone	10	10 U	10 U	10 U	10 U	10 U		
Tetrachloroethene	5.0	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
1,1,2,2-Tetrachloroethane	5.0	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
Toluene	5.0	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
Chlorobenzene	5.0	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		

General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job No: R92/04809 Date: NOV. 27 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference

Atlas Steel

Received : 11/04/92 P.O. #:

TCL VOLATILES BY EPA METHOD 8240* ANALYTICAL RESULTS - ug/kg Wet Wt.

Sample:		-010	-011	-012	-013	-014		
Location:		LAB METH BLANK	LAB METH BLANK	LAB METH BLANK	LAB METH BLANK	LAB METH BLANK		
Date Collected:		--	--	--	--	--		
Time Collected:	PQL	--	--	--	--	--		
Date Analyzed:		11/12/92	11/13/92	11/13/92	11/14/92	11/16/92		
Dilution:		1	1	1	1	1		
Ethylbenzene	5.0	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
Styrene	5.0	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
Total Xylene (o,m,p)	5.0	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
Surrogate Standard Recoveries								
1,2-Dichloroethane-d4	70-121	104	106	104	100	101		
Toluene d8	81-117	98	97	98	96	97		
4-Bromofluorobenzene	74-121	104	102	105	102	116		

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

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General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job No: R92/04809 Date: NOV. 27 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference

Atlas Steel

Received : 11/04/92 P.O. #:

TCL ACID EXTRACTABLES BY EPA METHOD 8270* ANALYTICAL RESULTS - ug/kg Wet Wt

Sample:		-010	-011
Location:		LAB METH BLANK	LAB METH BLANK
Date Collected:		--	--
Time Collected:	PQL	--	--
Date Extracted:		11/06/92	11/17/92
Date Analyzed:		11/17/92	11/18/92
Dilution:		1	1
Phenol	670	670 U	670 U
2-Chlorophenol	670	670 U	670 U
2-Nitrophenol	670	670 U	670 U
2,4-Dimethylphenol	670	670 U	670 U
2,4-Dichlorophenol	670	670 U	670 U
4-Chloro-3-methylphenol	670	670 U	670 U
2,4,6-Trichlorophenol	670	670 U	670 U
2,4-Dinitrophenol	1300	1300 U	1300 U
4-Nitrophenol	1300	1300 U	1300 U
2-Methyl-4,6-dinitrophenol	1300	1300 U	1300 U
Pentachlorophenol	1300	1300 U	1300 U
2-Methylphenol	670	670 U	670 U
4-Methylphenol	670	670 U	670 U
Benzoic Acid	3300	3300 U	3300 U
2,4,5-Trichlorophenol	670	670 U	670 U
SURROGATE STANDARD RECOVERIES			
2-Fluorophenol	25-121%	75	84
Phenol-d6	24-113%	83	92
2,4,6-TriBromophenol	19-122%	82	97

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

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General Testing Corporation

A Full Service Environmental Laborato

LABORATORY REPORT

Job No: R92/04809 Date: NOV. 27 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference

Atlas Steel

Received : 11/04/92 P.O. #:

TCL BASE NEUTRALS BY EPA METHOD 8270* ANALYTICAL RESULTS - ug/kg Wet Wt.

Sample:		-010	-011					
Location:		LAB METH BLANK	LAB METH BLANK					
Date Collected:		--	--					
Time Collected:	PQL	--	--					
Date Extracted:		11/06/92	11/17/92					
Date Analyzed:		11/17/92	11/18/92					
Dilution:		1	1					
N-Nitrosodimethylamine	330	330 U	330 U					
Bis(2-chloroethyl) ether	330	330 U	330 U					
1,3 Dichlorobenzene	330	330 U	330 U					
1,4 Dichlorobenzene	330	330 U	330 U					
1,2 Dichlorobenzene	330	330 U	330 U					
bis(-2-chloroisopropyl)ether	330	330 U	330 U					
N-Nitroso-Di-n-propylamine	330	330 U	330 U					
Hexachloroethane	330	330 U	330 U					
Nitrobenzene	330	330 U	330 U					
Isophorone	330	330 U	330 U					
bis(-2-chloroethoxy)methane	330	330 U	330 U					
1,2,4-Trichlorobenzene	330	330 U	330 U					
Naphthalene	330	330 U	330 U					
Hexachlorobutadiene	330	330 U	330 U					
Hexachlorocyclopentadiene	330	330 U	330 U					
2-Chloronaphthalene	330	330 U	330 U					
Dimethyl phthalate	330	330 U	330 U					
Acenaphthylene	330	330 U	330 U					
Acenaphthene	330	330 U	330 U					
2,4-Dinitrotoluene	330	330 U	330 U					
2,6-Dinitrotoluene	330	330 U	330 U					
Diethyl phthalate	330	330 U	330 U					
4-Chlorophenyl-phenyl-ether	330	330 U	330 U					
Fluorene	330	330 U	330 U					
1,2-Diphenylhydrazine	330	330 U	330 U					
N-Nitrosodiphenylamine	330	330 U	330 U					
4-Bromophenyl-phenylether	330	330 U	330 U					
Hexachlorobenzene	330	330 U	330 U					
Phenanthrene	330	330 U	330 U					
Anthracene	330	330 U	330 U					
Di-n-butyl phthalate	330	330 U	330 U					
Benzidine	3300	3300 U	3300 U					
Fluoranthene	330	330 U	330 U					
Pyrene	330	330 U	330 U					

General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job Number: R92/04809 Date: NOV. 27 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference

Atlas Steel

Received : 11/04/92 P.O. #:

TCL BASE NEUTRALS BY EPA METHOD 8270* ANALYTICAL RESULTS - ug/kg Wet Wt.

Sample:		-010	-011
Location:		LAB METH BLANK	LAB METH BLANK
Date Collected:		--	--
Time Collected:	PQL	--	--
Date Extracted:		11/06/92	11/17/92
Date Analyzed:		11/17/92	11/18/92
Dilution:		1	1
Butyl benzyl phthalate	330	330 U	330 U
3,3'-Dichlorobenzidine	330	330 U	330 U
Benzo(a)anthracene	330	330 U	330 U
Bis(2-ethylhexyl)phthalate	330	330 U	330 U
Chrysene	330	330 U	330 U
Di-n-octyl phthalate	330	330 U	330 U
Benzo(b)Fluoranthene	330	330 U	330 U
Benzo(k)fluoranthene	330	330 U	330 U
Benzo(a)pyrene	330	330 U	330 U
Indeno(1,2,3-cd)pyrene	330	330 U	330 U
Dibenzo(a,h)anthracene	330	330 U	330 U
Benzo(g,h,i)perylene	330	330 U	330 U
Benzyl Alcohol	330	330 U	330 U
4-Chloroaniline	330	330 U	330 U
2-Methyl Naphthalene	330	330 U	330 U
2-Nitroaniline	330	330 U	330 U
3-Nitroaniline	330	330 U	330 U
Dibenzofuran	330	330 U	330 U
4-Nitroaniline	330	330 U	330 U
SURROGATE STANDARD RECOVERIES			
Nitrobenzene-d5	23-120%	70	82
2-Fluorobiphenyl	30-115%	80	93
Terphenyl-d14	18-137%	78	87

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145 NY ID# in Hackensack: 10801

NJ ID# in Rochester: 73331 NJ ID# in Hackensack: 02317

Laboratory Director

General Testing Corporation

A Full Service Environmental Laborato

LABORATORY REPORT

Job No: R92/04809 Date: DEC. 1 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference

Atlas Steel

Received : 11/04/92

TCL * BY GC METHOD 8080 ANALYTICAL RESULTS - ug/kg Wet Wt.

Sample:		-010
Location:		LAB METH
		BLANK
Date Collected:		--
Time Collected:	PQL	--
Date Extracted:		11/06/92
Date Analyzed:		11/18/92
Dilution:		10
alpha-BHC	2.0	20 U
beta-BHC	2.0	20 U
gamma-BHC (Lindane)	2.0	20 U
Heptachlor	2.0	20 U
delta-BHC	2.0	20 U
Aldrin	2.0	20 U
Heptachlor epoxide	2.0	20 U
alpha-Endosulfan	2.0	20 U
4,4'-DDE	2.0	20 U
Dieldrin	2.0	20 U
Endrin	2.0	20 U
4,4'-TDE (DDD)	2.0	20 U
beta-Endosulfan	4.0	40 U
4,4'-DDT	4.0	40 U
Endrin Aldehyde	4.0	40 U
Endosulfan Sulfate	4.0	40 U
Methoxychlor	8.0	80 U
Endrin Ketone	4.0	40 U
Chlordane	8.0	80 U
Toxaphene	40	400 U
PCB 1016	20	200 U
PCB 1221	20	200 U
PCB 1232	20	200 U
PCB 1242	20	200 U
PCB 1248	20	200 U
PCB 1254	20	200 U
PCB 1260	20	200 U

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145 NY ID# in Hackensack: 10801

NJ ID# in Rochester: 73331 NJ ID# in Hackensack: 02317

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General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job No: R92/04809 Date: NOV. 27 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference:

Atlas Steel

Received : 11/04/92 P.O. #:

ANALYSIS * BY GC METHOD 8080 — ANALYTICAL RESULTS - %

Sample:		-010
Location:		LAB METH BLANK
Date Collected:		--
Time Collected:	LIMITS	--
SURROGATE STANDARD RECOVERY		
% Recovery		
Dibutylchlorendate	24-150%	*
Tetrachloro-meta-xylene	60-150%	109

*SW 846 Manual, Test Methods for Evaluating Solid Waste, 3rd Edition, 11/86.
NY LABORATORY CERTIFICATION ID#: 10145
NJ ID#: 73331 in Rochester;
NJ ID#: 02317 in Hackensack

Laboratory Director

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General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job No: R92/04809 Date: NOV. 27 1992

Client:

Dunn Corporation

Sample(s) Reference

Atlas Steel

Date Received: 11/04/92 Date Sample Taken: 11/02&03/92

LABORATORY CHRONICLE
DATE ANALYZED

Sample: / Location:	-001 ATL-TP37- 3-4'	-002 ATL-TP11- 4-5'	-003 ATL-TP14- 1-2'	-004 ATL-TP20- 2-3'	-005 ATL-TP22- 2-3'	-006 ATL-TP24- 1-2'	-007 ATL-TP27- 2-3'	-008 ATL-SS-4
Cyanide, Total	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92
Solids, %	11/05/92	11/05/92	11/05/92	11/05/92	11/05/92	11/05/92	11/05/92	11/05/92
Aluminum	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92
Antimony	11/10/92	11/10/92	11/10/92	11/10/92	11/10/92	11/10/92	11/10/92	11/10/92
Arsenic	11/10/92	11/10/92	11/10/92	11/10/92	11/10/92	11/10/92	11/10/92	11/10/92
Barium	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92
Beryllium	11/10/92	11/10/92	11/10/92	11/10/92	11/10/92	11/10/92	11/10/92	11/10/92
Cadmium	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92
Calcium	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92
Chromium	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92
Cobalt	11/10/92	11/10/92	11/10/92	11/10/92	11/10/92	11/10/92	11/10/92	11/10/92
Copper	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92
Iron	11/10/92	11/10/92	11/10/92	11/10/92	11/10/92	11/10/92	11/10/92	11/10/92
Lead	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92
Magnesium	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92
Manganese	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92
Mercury	11/13/92	11/13/92	11/13/92	11/13/92	11/13/92	11/13/92	11/13/92	11/13/92
Nickel	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92
Potassium	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92
Selenium	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92
Silver	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92
Sodium	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92
Thallium	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92
Vanadium	11/10/92	11/10/92	11/10/92	11/10/92	11/10/92	11/10/92	11/10/92	11/10/92
Zinc	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92

General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job No: R92/04809 Date: NOV. 27 1992

Client:

Dunn Corporation

Sample(s) Reference

Atlas Steel

Date Received: 11/04/92

Date Sample Taken: 11/02&03/92

LABORATORY CHRONICLE
DATE ANALYZED

Sample:	-009
Location:	ATL-SS-3
Cyanide, Total	11/11/92
Solids, %	11/05/92
Aluminum	11/11/92
Antimony	11/10/92
Arsenic	11/10/92
Barium	11/11/92
Beryllium	11/10/92
Cadmium	11/09/92
Calcium	11/11/92
Chromium	11/09/92
Cobalt	11/10/92
Copper	11/09/92
Iron	11/10/92
Lead	11/09/92
Magnesium	11/11/92
Manganese	11/09/92
Mercury	11/13/92
Nickel	11/09/92
Potassium	11/11/92
Selenium	11/09/92
Silver	11/09/92
Sodium	11/11/92
Thallium	11/11/92
Vanadium	11/10/92
Zinc	11/09/92

R92/4809

DUNN GEOSCIENCE CORPORATION

495 COMMERCE DRIVE
AMHERST, NEW YORK 14150
(716) 691-3866

CHAIN OF CUSTODY RECORD

PROJECT NAME: Atlas Steel

PROJECT NUMBER:

SAMPLERS (SIGNATURE): Joel Taft (PRINT): Joel Taft

	SAMPLE I.D.	DATE	TIME	# No. of Bottles/Vials	MATRIX: Water/Soil	GC/MS 624-8240	GC/MS 625-8270	GC/MS TCL-VOA	GC/MS TCL-SVOA	GC/MS Other	GC 601-8010	GC 602-8020	GC 608-8080	GC 8140	GC TCL PEST/PCBs	GC Herbicides	GC Other	INORGANICS Metals	INORGANICS Cyanide	INORGANICS TAL Metals	INORGANICS Other	OTHER	REMARKS (by Laboratory: Samples Intact & Properly Preserved Yes or No)
-001	ATL-TP37-3-4' (Set#4)	11-2-92	2:40	5	S			X	X						X				X	X			TCL+TAL - Standard [illegible]
-002	ATL-TP11-4-5' (Set#7)	11-3-92	8:20	5	S			X	X						X				X	X			" " "
-003	ATL-TP14-1-2' (Set#8)	11-3-92	9:00	5	S			X	X						X				X	X			" " "
-004	ATL-TP-20 2-3' (Set#11)	11-3-92	10:10	5	S			X	X						X				X	X			" " "
-005	ATL-TP-22 2-3' (Set 12)	11-3-92	10:45	5	S			X	X						X				X	X			" " "
-006	ATL-TP24 1-2' (Set 13)	11-3-92	11:15	5	S			X	X						X				X	X			" " "
-007	ATL-TP-27 2-3' (Set 14)	11-3-92	11:50	5	S			X	X						X				X	X			" " "
-008	ATL-SS-4 (Set 10)	11-3-92	9:45	5	S			X	X						X				X	X			" " "
-009	ATL-SS-3 (Set 9)	11-3-92	9:30	5	S			X	X						X				X	X			" " "

95
50

RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
Joel Taft COMPANY DUNN	11-3-92 3:30 11-4-92 6:30	K. [illegible] COMPANY GTC	COMPANY		COMPANY
RELINQUISHED BY (SIGNATURE) COMPANY	DATE/TIME 11/4 1400	RECEIVED BY (SIGNATURE) Tom Hastings COMPANY	Method of Shipment		Special Handling Requirements 4°C

General Testing Corporation

A Full Service Environmental Laboratory

NOV. 25 1992

Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Re: Atlas Steel

Dear Mr. Rick Rall

Enclosed are the results of the analysis requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION

Janice Jaeger
Customer Service Representative

Enc.

710 Exchange Street • Rochester, NY 14608 • Tele: (716) 454-3760 • (716) 454-1245
85 Trinity Place • Hackensack, NJ 07601 • Tele: (201) 488-5242 • Fax: (201) 488-6386
435 Lawrence Bell Drive • Amherst, NY 14221 • Tele: (716) 634-0454 • Fax: (716) 634-9019

General Testing Corporation

Effective 10/1/91

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. For further explanation see case narrative / cover letter.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range and reanalysis could not be performed.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

N - Spiked sample recovery not within control limits. (Flag the entire batch - Inorganic analytes only)

* - Duplicate analysis not within control limits. (Flag the entire batch - Inorganic analysis only)

- Also used to qualify Organics QC data outside limits. (Only used on the QC summary sheets)

M - Duplication injection precision not met (GFA only).

S - Reported value determined by Method of Standard Additions. (MSA)

X - As specified in the case narrative.

General Testing Corporation

COMPANY: DUNN CORPORATION
Atlas Steel
JOB #: R92/04781

VOLATILE ORGANICS

Dunn soil samples were analyzed for Target Compound List (TCL) volatile organics using SW-846 method 8240.

All the initial and continuing calibration criteria were met for all analytes.

The surrogate standard recoveries for Toluene-d8 and the internal standard area recoveries for Chlorobenzene-d5 on samples R92/04781-001 and 002 were outside QC limits. Subsequent reanalysis confirmed these problems and the data has been flagged "J" as being estimated. All other samples were within QC acceptance limits.

Due to matrix interferences, sample R92/04781-003 was analyzed as a medium level (a 1/125 dilution) thus raising the detection limits reported.

All QC data associated with these samples was acceptable.

SEMIVOLATILE ORGANICS

Dunn soil samples were analyzed for TCL semivolatile organics using SW-846 method 8270.

All the initial and continuing calibration criteria were met for this method.

All surrogate standard recoveries were within acceptance limits.

All QC data associated with these samples was acceptable.

Samples R92/04781-003 and 005 were analyzed at 1/10 dilitions due to matrix interferences in the extracts that the GPC cleanup did not remove.

PESTICIDES/PCBS

Dunn soil samples were analyzed for TCL Pesticides and PCBs using method 8080 from SW-846.

The recoveries for the surrogate standard Dibutylchlorendate could not be determined on sample R92/04781-005 and was outside QC limits on sample R92/04781-003 due to matrix interferences and both have been flagged with a "*". However, the recoveries for the second surrogate, Tetrachloro-m-xylene, were acceptable.

General Testing Corporation

DUNN - ATLAS R92/04781

Due to matrix interferences, all samples were analyzed at 1/10 dilutions or in the case of sample R92/04781-005 some analytes had to be quantitated from a 1/100 dilution.

No other analytical or QC problems were encountered with this analysis.

INORGANIC ANALYSIS

Dunn soil samples were analyzed for the Target Analyte List of metals and Total Cyanide using approved SW-846 methodologies.

The Antimony, Copper and Manganese results for all samples have been flagged with a "N" because the matrix spike recovery performed on sample R92/04781-001 was outside QC acceptance limits. The Calcium, Copper, Iron, Manganese, and Zinc results have been flagged with an "*" because the % relative error from the duplicate analysis performed on sample R92/04781-001 was outside QC limits.

No other analytical or QC problems were encountered with these analyses.

General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job No: R92/04781 Date: NOV. 25 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference

Atlas Steel

Received : 11/03/92 P.O. #:

ANALYTICAL RESULTS - ug/g Dry Wt.

Sample:		-001		-002		-003		-004	
Location:		ATL-TP3-3'		ATL-TP7-5-6'		ATL-TP33-4-6'		ATL-SS-1	
Date Collected:	PQL	10/30/92		10/30/92		10/30/92		11/02/92	
Time Collected:		10:30		11:50		15:10		08:45	
Solids, %		84.8		76.6		76.8		78.3	
Antimony	5.00	5.90	UN	6.53	UN	6.51	UN	6.37	N
Aluminum	10.0	5910		7140		3570		1940	
Arsenic	0.500	4.52		8.19		1.88		23.6	
Barium	0.500	21.2		29.5		15.2		13.2	
Beryllium	0.500	0.590	U	0.653	U	0.651	U	4.78	
Cadmium	0.500	0.590	U	0.653	U	0.651	U	0.639	U
Calcium	50.0	885	*	2570	*	411	*	780	*
Chromium	1.00	10.5		12.8		5.35		38.1	
Cobalt	5.00	5.90	U	6.53	U	6.51	U	34.4	
Copper	1.00	24.6	*N	19.2	*N	8.84	*N	934	*N
Iron	5.00	20200	*	18900	*	17100	*	352000	*
Lead	5.00	28.8		20.8		10.7		6.39	U
Magnesium	50.0	241		956		185		1220	
Manganese	0.500	217	*N	422	*N	271	*N	3410	*N
Mercury	0.100	0.118	U	0.131	U	0.130	U	0.128	U
Nickel	4.00	11.7		11.4		5.21	U	835	
Potassium	50.0	524		779		514		64.4	
Selenium	0.500	0.590	U	0.653	U	0.651	U	0.639	U
Silver	1.00	1.18	U	1.30	U	1.30	U	2.39	
Sodium	50.0	99.4		130		83.3		654	
Thallium	5.00	5.90	U	6.53	U	6.51	U	6.39	U
Vanadium	5.00	6.19	*	8.93	*	6.51	U *	39.1	*
Zinc	1.00	20.5		29.6		10.0		57.0	
Cyanide, Total		1.11	U	1.31	U	1.29	U	1.20	U

General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job No: R92/04781 Date: NOV. 25 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference

Atlas Steel

Received : 11/03/92 P.O. #:

ANALYTICAL RESULTS - ug/g Dry Wt.

Sample:		-005	
Location:		ATL-SS-2	
Date Collected:	PQL	11/02/92	
Time Collected:		09:00	
Solids, %		81.6	
Antimony	5.00	14.2	N
Aluminum	10.0	3210	
Arsenic	0.500	47.3	
Barium	0.500	25.0	
Beryllium	0.500	3.27	
Cadmium	0.500	70.1	
Calcium	50.0	3530	*
Chromium	1.00	3820	
Cobalt	5.00	17.3	
Copper	1.00	890	*N
Iron	5.00	273000	*
Lead	5.00	5550	
Magnesium	50.0	1180	
Manganese	0.500	29300	
Mercury	0.100	0.985	
Nickel	4.00	325	
Potassium	50.0	944	
Selenium	0.500	4.07	
Silver	1.00	15.3	
Sodium	50.0	812	
Thallium	5.00	6.13	U
Vanadium	5.00	85.8	*
Zinc	1.00	8500	
Cyanide, Total		1.22	U

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General Testing Corporation

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LABORATORY REPORT

Job No: R92/04781 Date: NOV. 23 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference

Atlas Steel

Received : 11/03/92 P.O. #:

TCL VOLATILES BY EPA METHOD 8240* ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:	-001	-002	-003	-004	-005			
Location:	ATL-TP3-3'	ATL-TP7-5-6'	ATL-TP33-4-6'	ATL-SS-1	ATL-SS-2			
Date Collected:	10/30/92	10/30/92	10/30/92	11/02/92	11/02/92			
Time Collected:	10:30	11:50	15:10	08:45	09:00			
Date Analyzed:	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92			
Dilution:	1	1	125	1	1			
Chloromethane	5.9 UJ	6.5 UJ	810 U	6.4 U	6.1 U			
Bromomethane	5.9 UJ	6.5 UJ	810 U	6.4 U	6.1 U			
Vinyl Chloride	5.9 UJ	6.5 UJ	810 U	6.4 U	6.1 U			
Chloroethane	5.9 UJ	6.5 UJ	810 U	6.4 U	6.1 U			
Methylene Chloride	17 J	8.7 J	810 U	9.2	19			
Acetone	43 J	48 J	1600 U	14	15			
Carbon Disulfide	12 UJ	13 UJ	1600 U	13 U	12 U			
Vinyl Acetate	12 UJ	13 UJ	1600 U	13 U	12 U			
1,1-Dichloroethene	5.9 UJ	6.5 UJ	810 U	6.4 U	6.1 U			
1,1-Dichloroethane	5.9 UJ	6.5 UJ	810 U	6.4 U	6.1 U			
trans-1,2-Dichloroethene	5.9 UJ	6.5 UJ	810 U	6.4 U	6.1 U			
cis-1,2-Dichloroethene	8.7 J	6.5 UJ	810 U	6.4 U	6.1 U			
Chloroform	8.0 J	6.5 UJ	810 U	6.4 U	6.1 U			
2-Butanone (MEK)	12 UJ	13 UJ	1600 U	13 U	12 U			
1,2-Dichloroethane	5.9 UJ	6.5 UJ	810 U	6.4 U	6.1 U			
1,1,1-Trichloroethane	5.9 UJ	6.5 UJ	810 U	6.4 U	6.1 U			
Carbon Tetrachloride	5.9 UJ	6.5 UJ	810 U	6.4 U	6.1 U			
Bromodichloromethane	5.9 UJ	6.5 UJ	810 U	6.4 U	6.1 U			
1,2-Dichloropropane	5.9 UJ	6.5 UJ	810 U	6.4 U	6.1 U			
1,3-Dichloropropene-Trans	5.9 UJ	6.5 UJ	810 U	6.4 U	6.1 U			
Trichloroethene	11 J	6.5 UJ	810 U	6.4 U	6.1 U			
Dibromochloromethane	5.9 UJ	6.5 UJ	810 U	6.4 U	6.1 U			
1,1,2-Trichloroethane	5.9 UJ	6.5 UJ	810 U	6.4 U	6.1 U			
Benzene	5.9 UJ	6.5 UJ	810 U	6.4 U	6.1 U			
1,3-Dichloropropene(Cis)	5.9 UJ	6.5 UJ	810 U	6.4 U	6.1 U			
Bromoform	5.9 UJ	6.5 UJ	810 U	6.4 U	6.1 U			
4-Methyl-2-pentanone(MIBK)	12 UJ	13 UJ	1600 U	13 U	12 U			
2-Hexanone	12 UJ	13 UJ	1600 U	13 U	12 U			
Tetrachloroethene	5.9 UJ	6.5 UJ	810 U	6.4 U	6.1 U			
1,1,2,2-Tetrachloroethane	5.9 UJ	6.5 UJ	810 U	6.4 U	6.1 U			
Toluene	5.9 UJ	6.5 UJ	810 U	6.4 U	6.1 U			
Chlorobenzene	5.9 UJ	6.5 UJ	810 U	6.4 U	6.1 U			

General Testing Corporation

A Full Service Environmental Laborato

LABORATORY REPORT

Job No: R92/04781 Date: NOV. 23 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference

Atlas Steel

Received : 11/03/92 P.O. #:

TCL VOLATILES BY EPA METHOD 8240* ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:	-001	-002	-003	-004	-005
Location:	ATL-TP3-3	ATL-TP7-5-6'	ATL-TP33-4-6'	ATL-SS-1	ATL-SS-2
Date Collected:	10/30/92	10/30/92	10/30/92	11/02/92	11/02/92
Time Collected:	10:30	11:50	15:10	08:45	09:00
Date Analyzed:	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92
Dilution:	1	1	125	1	1
Ethylbenzene	5.9 UJ	6.5 UJ	810 U	6.4 U	6.1 U
Styrene	5.9 UJ	6.5 UJ	810 U	6.4 U	6.1 U
Total Xylene (o,m,p)	5.9 UJ	6.5 UJ	810 U	6.4 U	6.1 U
Surrogate Standard Recoveries					
1,2-Dichloroethane-d4 (Acceptance limits: 70-121%)	95	98	106	101	98
Toluene d8 (Acceptance limits 81-117%)	131 *	131 *	101	105	105
4-Bromofluorobenzene (Acceptance limits 74-121%)	77	74	111	93	96

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

6

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R92/04781 Date: NOV. 23 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference

Atlas Steel

Received : 11/03/92 P.O. #:

TCL ACID EXTRACTABLES BY EPA METHOD 8270* ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:	-001	-002	-003	-004	-005			
Location:	ATL-TP3-3	ATL-TP7-5-6'	ATL-TP33-4-6'	ATL-SS-1	ATL-SS-2			
Date Collected:	10/30/92	10/30/92	10/30/92	11/02/92	11/02/92			
Time Collected:	10:30	11:50	15:10	08:45	09:00			
Date Extracted:	11/06/92	11/06/92	11/06/92	11/06/92	11/06/92			
Date Analyzed:	11/17/92	11/17/92	11/18/92	11/17/92	11/17/92			
Dilution:	1	1	10	1	10			
Phenol	780 U	870 U	8700 U	860 U	8100 U			
2-Chlorophenol	780 U	870 U	8700 U	860 U	8100 U			
2-Nitrophenol	780 U	870 U	8700 U	860 U	8100 U			
2,4-Dimethylphenol	780 U	870 U	8700 U	860 U	8100 U			
2,4-Dichlorophenol	780 U	870 U	8700 U	860 U	8100 U			
4-Chloro-3-methylphenol	780 U	870 U	8700 U	860 U	8100 U			
2,4,6-Trichlorophenol	780 U	870 U	8700 U	860 U	8100 U			
2,4-Dinitrophenol	1600 U	1700 U	17000 U	1700 U	16000 U			
4-Nitrophenol	1600 U	1700 U	17000 U	1700 U	16000 U			
2-Methyl-4,6-dinitrophenol	1600 U	1700 U	17000 U	1700 U	16000 U			
Pentachlorophenol	1600 U	1700 U	17000 U	1700 U	16000 U			
2-Methylphenol	780 U	870 U	8700 U	860 U	8100 U			
4-Methylphenol	780 U	870 U	8700 U	860 U	8100 U			
Benzoic Acid	3900 U	4300 U	43000 U	4300 U	41000 U			
2,4,5-Trichlorophenol	780 U	870 U	8700 U	860 U	8100 U			
SURROGATE STANDARD RECOVERIES								
2-Fluorophenol	90	83	77	82	66			
(Acceptance Limits: 21-100%)								
Phenol-d6	97	92	84	91	72			
(Acceptance Limits: 10-94%)								
2,4,6-TriBromophenol	97	109	78	84	50			
(Acceptance Limits: 10-123%)								

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Richard K. Perry

Laboratory Director

General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job No: R92/04781 Date: NOV. 23 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference

Atlas Steel

Received : 11/03/92 P.O. #:

TCL BASE NEUTRALS BY EPA METHOD 8270* ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:	-001	-002	-003	-004	-005			
Location:	ATL-TP3-3'	ATL-TP7-5-6'	ATL-TP33-4-6'	ATL-SS-1	ATL-SS-2			
Date Collected:	10/30/92	10/30/92	10/30/92	11/02/92	11/02/92			
Time Collected:	10:30	11:50	15:10	08:45	09:00			
Date Extracted:	11/06/92	11/06/92	11/06/92	11/06/92	11/06/92			
Date Analyzed:	11/17/92	11/17/92	11/18/92	11/17/92	11/17/92			
Dilution:	1	1	10	1	10			
N-Nitrosodimethylamine	390 U	430 U	4300 U	430 U	4100 U			
Bis(2-chloroethyl) ether	390 U	430 U	4300 U	430 U	4100 U			
1,3 Dichlorobenzene	390 U	430 U	4300 U	430 U	4100 U			
1,4 Dichlorobenzene	390 U	430 U	4300 U	430 U	4100 U			
1,2 Dichlorobenzene	390 U	430 U	4300 U	430 U	4100 U			
bis(-2-chloroisopropyl)ether	390 U	430 U	4300 U	430 U	4100 U			
N-Nitroso-Di-n-propylamine	390 U	430 U	4300 U	430 U	4100 U			
Hexachloroethane	390 U	430 U	4300 U	430 U	4100 U			
Nitrobenzene	390 U	430 U	4300 U	430 U	4100 U			
Isophorone	390 U	430 U	4300 U	430 U	4100 U			
bis(-2-chloroethoxy)methane	390 U	430 U	4300 U	430 U	4100 U			
1,2,4-Trichlorobenzene	390 U	430 U	4300 U	430 U	4100 U			
Naphthalene	390 U	430 U	4300 U	430 U	4100 U			
Hexachlorobutadiene	390 U	430 U	4300 U	430 U	4100 U			
Hexachlorocyclopentadiene	390 U	430 U	4300 U	430 U	4100 U			
2-Chloronaphthalene	390 U	430 U	4300 U	430 U	4100 U			
Dimethyl phthalate	390 U	430 U	4300 U	430 U	4100 U			
Acenaphthylene	390 U	430 U	4300 U	430 U	4100 U			
Acenaphthene	390 U	430 U	4300 U	430 U	6200			
2,4-Dinitrotoluene	390 U	430 U	4300 U	430 U	4100 U			
2,6-Dinitrotoluene	390 U	430 U	4300 U	430 U	4100 U			
Diethyl phthalate	390 U	430 U	4300 U	430 U	4100 U			
4-Chlorophenyl-phenyl-ether	390 U	430 U	4300 U	430 U	4100 U			
Fluorene	390 U	430 U	4300 U	430 U	11000			
1,2-Diphenylhydrazine	390 U	430 U	4300 U	430 U	4100 U			
N-Nitrosodiphenylamine	390 U	430 U	4300 U	430 U	4100 U			
4-Bromophenyl-phenylether	390 U	430 U	4300 U	430 U	4100 U			
Hexachlorobenzene	390 U	430 U	4300 U	430 U	4100 U			
Phenanthrene	390 U	430 U	5100	430 U	62000			
Anthracene	390 U	430 U	4300 U	430 U	18000			
Di-n-butyl phthalate	390 U	430 U	4300 U	430 U	4100 U			
Benzidine	3900 U	4300 U	43000 U	4300 U	41000 U			
Fluoranthene	390 U	430 U	4300 U	430 U	73000			
Pyrene	390 U	430 U	4300 U	430 U	51000			

General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job Number: R92/04781 Date: NOV. 23 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference

Atlas Steel

Received : 11/03/92 P.O. #:

TCL BASE NEUTRALS BY EPA METHOD 8270* ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:	-001	-002	-003	-004	-005			
Location:	ATL-TP3-3	ATL-TP7-5-6'	ATL-TP33-4-6'	ATL-SS-1	ATL-SS-2			
Date Collected:	10/30/92	10/30/92	10/30/92	11/02/92	11/02/92			
Time Collected:	10:30	11:50	15:10	08:45	09:00			
Date Extracted:	11/06/92	11/06/92	11/06/92	11/06/92	11/06/92			
Date Analyzed:	11/17/92	11/17/92	11/18/92	11/17/92	11/17/92			
Dilution:	1	1	10	1	10			
Butyl benzyl phthalate	390 U	430 U	4300 U	430 U	4100 U			
3,3'-Dichlorobenzidine	390 U	430 U	4300 U	430 U	4100 U			
Benzo(a)anthracene	390 U	430 U	4300 U	430 U	34000			
Bis(2-ethylhexyl)phthalate	390 U	430 U	4300 U	430 U	4100 U			
Chrysene	390 U	430 U	4300 U	430 U	30000			
Di-n-octyl phthalate	390 U	430 U	4300 U	430 U	4100 U			
Benzo(b)Fluoranthene	390 U	770	4300 U	430 U	32000			
Benzo(k)fluoranthene	390 U	430 U	4300 U	430 U	28000			
Benzo(a)pyrene	390 U	430 U	4300 U	430 U	33000			
Indeno(1,2,3-cd)pyrene	390 U	430 U	4300 U	430 U	12000			
Dibenzo(a,h)anthracene	390 U	430 U	4300 U	430 U	4100 U			
Benzo(g,h,i)perylene	390 U	430 U	4300 U	430 U	11000			
Benzyl Alcohol	390 U	430 U	4300 U	430 U	4100 U			
4-Chloroaniline	390 U	430 U	4300 U	430 U	4100 U			
2-Methyl Naphthalene	390 U	430 U	4300 U	430 U	4100 U			
2-Nitroaniline	390 U	430 U	4300 U	430 U	4100 U			
3-Nitroaniline	390 U	430 U	4300 U	430 U	4100 U			
Dibenzofuran	390 U	430 U	4300 U	430 U	4100 U			
4-Nitroaniline	390 U	430 U	4300 U	430 U	4100 U			
SURROGATE STANDARD RECOVERIES								
Nitrobenzene-d5	82	76	81	76	51			
(Acceptance Limits: 23-120%)								
2-Fluorobiphenyl	93	92	96	89	77			
(Acceptance Limits: 30-115%)								
Terphenyl-d14	101	105	99	93	71			
(Acceptance Limits: 18-137%)								

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR parts #136 & #261.

NY ID# in Rochester: 10145 NY ID# in Hackensack: 10801

NJ ID# in Rochester: 73331 NJ ID# in Hackensack: 02317

Laboratory Director

General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job No: R92/04781 Date: NOV. 23 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference

Atlas Steel

Received : 11/03/92 P.O. #:

ANALYSIS * BY GC METHOD 8080 ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:	-001	-002	-003	-004	-005			
Location:	ATL-TP3-3'	ATL-TP7-5-6'	ATL-TP33-4-6'	ATL-SS-1	ATL-SS-2			
Date Collected:	10/30/92	10/30/92	10/30/92	11/02/92	11/02/92			
Time Collected:	10:30	11:50	15:10	08:45	09:00			
Date Extracted:	11/06/92	11/06/92	11/06/92	11/06/92	11/06/92			
Date Analyzed:	11/18/92	11/18/92	11/18/92	11/18/92	11/18/92			
Dilution:	10	10	10	10	10, 100			
alpha-BHC	24 U	26 U	26 U	26 U	25 U			
beta-BHC	24 U	26 U	26 U	26 U	25 U			
gamma-BHC (Lindane)	24 U	26 U	26 U	26 U	240 U			
Heptachlor	24 U	26 U	26 U	26 U	240 U			
delta-BHC	24 U	26 U	26 U	26 U	25 U			
Aldrin	24 U	26 U	26 U	26 U	25 U			
Heptachlor epoxide	24 U	26 U	26 U	26 U	240 U			
alpha-Endosulfan	24 U	26 U	26 U	26 U	25 U			
4,4'-DDE	24 U	26 U	26 U	26 U	25 U			
Dieldrin	24 U	26 U	26 U	26 U	240 U			
Endrin	24 U	26 U	26 U	26 U	240 U			
4,4'-TDE (DDD)	24 U	26 U	26 U	26 U	25 U			
beta-Endosulfan	47 U	52 U	52 U	51 U	490 U			
4,4'-DDT	47 U	52 U	52 U	51 U	49 U			
Endrin Aldehyde	47 U	52 U	52 U	51 U	49 U			
Endosulfan Sulfate	47 U	52 U	52 U	51 U	49 U			
Methoxychlor	94 U	100 U	100 U	100 U	980 U			
Endrin Ketone	47 U	52 U	52 U	51 U	490 U			
Chlordane	94 U	100 U	100 U	100 U	98 U			
Toxaphene	470 U	520 U	520 U	510 U	490 U			
PCB 1016	240 U	260 U	260 U	260 U	240 U			
PCB 1221	240 U	260 U	260 U	260 U	240 U			
PCB 1232	240 U	260 U	260 U	260 U	240 U			
PCB 1242	240 U	260 U	260 U	260 U	240 U			
PCB 1248	240 U	260 U	260 U	260 U	240 U			
PCB 1254	240 U	260 U	260 U	260 U	240 U			
PCB 1260	240 U	260 U	260 U	260 U	240 U			

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145 NY ID# in Hackensack: 10801

NJ ID# in Rochester: 73331 NJ ID# in Hackensack: 02317

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General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job No: R92/04781 Date: NOV. 23 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference:

Atlas Steel

Received : 11/03/92 P.O. #:

ANALYSIS * BY GC METHOD 8080 ANALYTICAL RESULTS - %

Sample:	-001	-002	-003	-004	-005			
Location:	ATL-TP3-3'	ATL-TP7-5-6'	ATL-TP33-4-6'	ATL-SS-1	ATL-SS-2			
Date Collected:	10/30/92	10/30/92	10/30/92	11/02/92	11/02/92			
Time Collected:	10:30	11:50	15:10	08:45	09:00			
SURROGATE STANDARD RECOVERY								
% Recovery								
Dibutylchlorendate (Acceptance Limits: 24-150%)	126	140	151 *	118	*			
Tetrachloro-meta-xylene (Acceptance Limits: 60-150%)	116	120	115	114	114			

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.
NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Michael K. Perry
Laboratory Director

General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job No: R92/04781 Date: NOV. 23 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference

Atlas Steel

Received : 11/03/92 P.O. #:

TCL VOLATILES BY EPA METHOD 8240* ANALYTICAL RESULTS - ug/kg Wet Wt.

Sample:	-006	-007						
Location:	LAB METH BLANK	LAB METH BLANK						
Date Collected:	--	--						
Time Collected:	--	--						
Date Analyzed:	11/11/92	11/11/92						
Dilution:	1	125						
Chloromethane	5.0 U	630 U						
Bromomethane	5.0 U	630 U						
Vinyl Chloride	5.0 U	630 U						
Chloroethane	5.0 U	630 U						
Methylene Chloride	5.0 U	630 U						
Acetone	10 U	1300 U						
Carbon Disulfide	10 U	1300 U						
Vinyl Acetate	10 U	1300 U						
1,1-Dichloroethene	5.0 U	630 U						
1,1-Dichloroethane	5.0 U	630 U						
trans-1,2-Dichloroethene	5.0 U	630 U						
cis-1,2-Dichloroethene	5.0 U	630 U						
Chloroform	5.0 U	630 U						
2-Butanone (MEK)	10 U	1300 U						
1,2-Dichloroethane	5.0 U	630 U						
1,1,1-Trichloroethane	5.0 U	630 U						
Carbon Tetrachloride	5.0 U	630 U						
Bromodichloromethane	5.0 U	630 U						
1,2-Dichloropropane	5.0 U	630 U						
1,3-Dichloropropene-Trans	5.0 U	630 U						
Trichloroethene	5.0 U	630 U						
Dibromochloromethane	5.0 U	630 U						
1,1,2-Trichloroethane	5.0 U	630 U						
Benzene	5.0 U	630 U						
1,3-Dichloropropene(Cis)	5.0 U	630 U						
Bromoform	5.0 U	630 U						
4-Methyl-2-pentanone(MIBK)	10 U	1300 U						
2-Hexanone	10 U	1300 U						
Tetrachloroethene	5.0 U	630 U						
1,1,2,2-Tetrachloroethane	5.0 U	630 U						
Toluene	5.0 U	630 U						
Chlorobenzene	5.0 U	630 U						

General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job No: R92/04781 Date: NOV: 23 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference

Atlas Steel

Received : 11/03/92 P.O. #:

TCL VOLATILES BY EPA METHOD 8240* ANALYTICAL RESULTS - ug/kg Wet Wt.

Sample:	-006	-007
Location:	LAB METH BLANK	LAB METH BLANK
Date Collected:	--	--
Time Collected:	--	--
Date Analyzed:	11/11/92	11/11/92
Dilution:	1	125
Ethylbenzene	5.0 U	630 U
Styrene	5.0 U	630 U
Total Xylene (o,m,p)	5.0 U	630 U
Surrogate Standard Recoveries		
1,2-Dichloroethane-d4 (Acceptance limits: 70-121%)	100	104
Toluene d8 (Acceptance limits 81-117%)	99	98
4-Bromofluorobenzene (Acceptance limits 74-121%)	104	105

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R92/04781 Date: NOV. 23 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference

Atlas Steel

Received : 11/03/92 P.O. #:

TCL ACID EXTRACTABLES BY EPA METHOD 8270* ANALYTICAL RESULTS - ug/kg Wet Wt.

Sample:	-006							
Location:	LAB METH BLANK							
Date Collected:	--							
Time Collected:	--							
Date Extracted:	11/06/92							
Date Analyzed:	11/17/92							
Dilution:	1							
Phenol	670 U							
2-Chlorophenol	670 U							
2-Nitrophenol	670 U							
2,4-Dimethylphenol	670 U							
2,4-Dichlorophenol	670 U							
4-Chloro-3-methylphenol	670 U							
2,4,6-Trichlorophenol	670 U							
2,4-Dinitrophenol	1300 U							
4-Nitrophenol	1300 U							
2-Methyl-4,6-dinitrophenol	1300 U							
Pentachlorophenol	1300 U							
2-Methylphenol	670 U							
4-Methylphenol	670 U							
Benzoic Acid	3300 U							
2,4,5-Trichlorophenol	670 U							
SURROGATE STANDARD RECOVERIES								
2-Fluorophenol	74							
(Acceptance Limits: 21-100%)								
Phenol-d6	78							
(Acceptance Limits: 10-94%)								
2,4,6-TriBromophenol	81							
(Acceptance Limits: 10-123%)								

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job No: R92/04781 Date: NOV. 23 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference

Atlas Steel

Received : 11/03/92 P.O. #:

TCL BASE NEUTRALS BY EPA METHOD 8270* ANALYTICAL RESULTS - ug/kg Wet Wt.

Sample:	-006
Location:	LAB METH BLANK
Date Collected:	--
Time Collected:	--
Date Extracted:	11/06/92
Date Analyzed:	11/17/92
Dilution:	1
N-Nitrosodimethylamine	330 U
Bis(2-chloroethyl) ether	330 U
1,3 Dichlorobenzene	330 U
1,4 Dichlorobenzene	330 U
1,2 Dichlorobenzene	330 U
bis(-2-chloroisopropyl)ether	330 U
N-Nitroso-Di-n-propylamine	330 U
Hexachloroethane	330 U
Nitrobenzene	330 U
Isophorone	330 U
bis(-2-chloroethoxy)methane	330 U
1,2,4-Trichlorobenzene	330 U
Naphthalene	330 U
Hexachlorobutadiene	330 U
Hexachlorocyclopentadiene	330 U
2-Chloronaphthalene	330 U
Dimethyl phthalate	330 U
Acenaphthylene	330 U
Acenaphthene	330 U
2,4-Dinitrotoluene	330 U
2,6-Dinitrotoluene	330 U
Diethyl phthalate	330 U
4-Chlorophenyl-phenyl-ether	330 U
Fluorene	330 U
1,2-Diphenylhydrazine	330 U
N-Nitrosodiphenylamine	330 U
4-Bromophenyl-phenylether	330 U
Hexachlorobenzene	330 U
Phenanthrene	330 U
Anthracene	330 U
Di-n-butyl phthalate	330 U
Benzidine	3300 U
Fluoranthene	330 U
Pyrene	330 U

General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job Number: R92/04781 Date: NOV. 23 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference

Atlas Steel

Received : 11/03/92 P.O. #:

TCL BASE NEUTRALS BY EPA METHOD 8270* ANALYTICAL RESULTS - ug/kg Wet Wt.

Sample:	-006
Location:	LAB METH BLANK
Date Collected:	--
Time Collected:	--
Date Extracted:	11/06/92
Date Analyzed:	11/17/92
Dilution:	1
Butyl benzyl phthalate	330 U
3,3'-Dichlorobenzidine	330 U
Benzo(a)anthracene	330 U
Bis(2-ethylhexyl)phthalate	330 U
Chrysene	330 U
Di-n-octyl phthalate	330 U
Benzo(b)Fluoranthene	330 U
Benzo(k)fluoranthene	330 U
Benzo(a)pyrene	330 U
Indeno(1,2,3-cd)pyrene	330 U
Dibenzo(a,h)anthracene	330 U
Benzo(g,h,i)perylene	330 U
Benzyl Alcohol	330 U
4-Chloroaniline	330 U
2-Methyl Naphthalene	330 U
2-Nitroaniline	330 U
3-Nitroaniline	330 U
Dibenzofuran	330 U
4-Nitroaniline	330 U
SURROGATE STANDARD RECOVERIES	
Nitrobenzene-d5	67
(Acceptance Limits: 23-120%)	
2-Fluorobiphenyl	79
(Acceptance Limits: 30-115%)	
Terphenyl-d14	92
(Acceptance Limits: 18-137%)	

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145 NY ID# in Hackensack: 10801

NJ ID# in Rochester: 73331 NJ ID# in Hackensack: 02317

Laboratory Director

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General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job No: R92/04781 Date: NOV. 23 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference

Atlas Steel

Received : 11/03/92 P.O. #:

ANALYSIS * BY GC METHOD 8080 ANALYTICAL RESULTS - ug/kg Wet Wt.

Sample:	-006							
Location:	LAB METH BLANK							
Date Collected:	--							
Time Collected:	--							
Date Extracted:	11/06/92							
Date Analyzed:	11/18/92							
Dilution:	10							
alpha-BHC	20 U							
beta-BHC	20 U							
gamma-BHC (Lindane)	20 U							
Heptachlor	20 U							
delta-BHC	20 U							
Aldrin	20 U							
Heptachlor epoxide	20 U							
alpha-Endosulfan	20 U							
4,4'-DDE	20 U							
Dieldrin	20 U							
Endrin	20 U							
4,4'-TDE (DDD)	20 U							
beta-Endosulfan	40 U							
4,4'-DDT	40 U							
Endrin Aldehyde	40 U							
Endosulfan Sulfate	40 U							
Methoxychlor	80 U							
Endrin Ketone	40 U							
Chlordane	80 U							
Toxaphene	400 U							
PCB 1016	200 U							
PCB 1221	200 U							
PCB 1232	200 U							
PCB 1242	200 U							
PCB 1248	200 U							
PCB 1254	200 U							
PCB 1260	200 U							

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145 NY ID# in Hackensack: 10801

NJ ID# in Rochester: 73331 NJ ID# in Hackensack: 02317

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General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job No: R92/04781 Date: NOV. 23 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Sample(s) Reference:

Atlas Steel

Received : 11/03/92 P.O. #:

ANALYSIS * BY GC METHOD 8080 ANALYTICAL RESULTS - %

Sample:	-006							
Location:	LAB METH BLANK							
Date Collected:	--							
Time Collected:	--							
SURROGATE STANDARD RECOVERY								
% Recovery								
Dibutylchlorendate (Acceptance Limits: 24-150%)	148							
Tetrachloro-meta-xylene (Acceptance Limits: 60-150%)	127							

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.
NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

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General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job No: R92/04781 Date: NOV. 23 1992

Client:

Dunn Corporation

Sample(s) Reference

Atlas Steel

Date Received: 11/03/92

Date Sample Taken: 10/30,11/02/92

LABORATORY CHRONICLE
DATE ANALYZED

Sample: / Location:	-001 ATL-TP3-3	-002 ATL-TP7-5-6'	-003 ATL-TP33-4-6'	-004 ATL-SS-1	-005 ATL-SS-2			
Solids, %	11/04/92	11/04/92	11/04/92	11/04/92	11/04/92			
Aluminum	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92			
Antimony	11/10/92	11/10/92	11/10/92	11/10/92	11/10/92			
Arsenic	11/10/92	11/10/92	11/10/92	11/10/92	11/10/92			
Barium	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92			
Beryllium	11/10/92	11/10/92	11/10/92	11/10/92	11/10/92			
Cadmium	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92			
Calcium	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92			
Chromium	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92			
Cobalt	11/10/92	11/10/92	11/10/92	11/10/92	11/10/92			
Copper	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92			
Iron	11/10/92	11/10/92	11/10/92	11/10/92	11/10/92			
Lead	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92			
Magnesium	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92			
Manganese	11/09/92	11/09/92	11/09/92	11/09/92	11/19/92			
Mercury	11/06/92	11/06/92	11/06/92	11/06/92	11/06/92			
Nickel	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92			
Potassium	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92			
Selenium	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92			
Silver	11/09/92	11/09/92	11/09/92	11/09/92	11/09/92			
Sodium	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92			
Thallium	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92			
Vanadium	11/10/92	11/10/92	11/10/92	11/10/92	11/10/92			
Zinc	11/09/92	11/09/92	11/09/92	11/09/92	11/19/92			
Cyanide, Total	11/11/92	11/11/92	11/11/92	11/11/92	11/11/92			

R9.2/4781

DUNN GEOSCIENCE CORPORATION

495 COMMERCE DRIVE
AMHERST, NEW YORK 14150
(716) 691-3866

CHAIN OF CUSTODY RECORD

PROJECT NAME: ATLASTEEL
PROJECT NUMBER:
SAMPLERS (SIGNATURE) Joel Taft (PRINT) Joel Taft

	SAMPLE I.D.	DATE	TIME	No. of Bottles/Vials	MATRIX: Water/Soil	GC/MS: 624-8240	GC/MS: 625-8270	GC/MS: TCL-VOA	GC/MS: TCL-SVOA	GC/MS: Other	GC: 601-8010	GC: 602-8020	GC: 608-8080	GC: 8140	GC: TCL PEST/PCBs	GC: Herbicides	GC: Other	INORGANICS: Metals	INORGANICS: Cyanide	INORGANICS: TAL Metals	INORGANICS: Other	OTHER
001	ATL-TP3-3' (#1 SET)	10/30/92	10:30A	5	S			X	X						X				X	X		
002	ATL-TP7-5.6' (#2 SET)	"	11:50A	5	S			X	X						X				X	X		

IF ANY QUESTIONS, PLEASE CALL TOM KIRK (716) 691-3866

REMARKS
by Laboratory: Samples Intact & Properly Preserved Yes or No

STANDARD DELIVERY

RUSH TCL TAL

RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
Joel Taft	10/30/92	K. Nagel
COMPANY DUNN		COMPANY GTL
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
COMPANY	11/3 0800	Tom Hastings
		COMPANY

RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
COMPANY		COMPANY
Method of Shipment		Special Handling Requirements

R92/4781

DUNN GEOSCIENCE CORPORATION

495 COMMERCE DRIVE
AMHERST, NEW YORK 14150
(716) 691-3866

CHAIN OF CUSTODY RECORD

PROJECT NAME: ATLASSTEEL
PROJECT NUMBER:
SAMPLERS (SIGNATURE): [signature] (PRINT) Joel Taft

	SAMPLE I.D.	DATE	TIME	No. of Bottles/Vials	MATRIX: Water/Soil	GC/MS 624-8240	GC/MS 625-8270	GC/MS TCL-VOA	GC/MS TCL-SVOA	GC/MS Other	GC 601-8010	GC 602-8020	GC 608-8080	GC 8140	GC TCL PEST/PCB's	GC Herbicides	GC Other	INORGANICS Metals	INORGANICS Cyanide	INORGANICS TAL Metals	INORGANICS Other	OTHER	REMARKS by Laboratory: Samples Intact & Properly Preserved Yes or No
																							Standard Deliverables
003	** ATL-TP33-4-6' (#3)	10/30/92	3:10 P	5	S			X	X						X				X	X			TCL & TAL
004	ATL-SS-1 (#5)	11/2/92	8:45 AM	5	S			X	X						X				X	X			Full TCL/TAL
005	ATL-SS-2 (#6)	11/2/92	9:00 AM	5	S			X	X						X				X	X			Full TCL/TAL

8

** - possible Med-High levels of contamination

Any questions, please contact Rick Rall - Dunn Corp (716) 691-3866

RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
[signature] COMPANY DUNN	11/2/92 4:03	K. Wagner COMPANY GTC	COMPANY		COMPANY
RELINQUISHED BY (SIGNATURE) COMPANY	DATE/TIME 11/3/92 0900	RECEIVED BY (SIGNATURE) Tom Hastings COMPANY	Method of Shipment		Special Handling Requirements

WELL DEVELOPMENT LOG

DUNN GEOSCIENCE ENGINEERING CO. P.C.
12 Metro Park Rd.
Albany, N.Y. 12205 (518)458-1313

Well I.D.: MW-1
Project Name: ATLAS STEEL
Project No.: 40093-00174
Personnel: J. TAFT
Date: 11-6-92
Time Start: 10:30
Time Finish: 11:10

WELL INFORMATION

Wellscreen Diameter: 2.0"
Borehole Diameter: 8.0"
Depth to Water: 4.80'
Total Well Depth: 9.68'
Well Volume: 0.8 Gals

Riser Diameter: 2.0"
Stratigraphic Unit Screened: SILT & CLAY / FILL
Development Method: Bailer (PVC)
Decon. Procedures: Alconox Wash & DI Rinse
Total Volume Removed: 8.0 Gals
Flow Rate: —

DEVELOPMENT INFORMATION

Parameters	Gallons Evacuated					
	0	2.0	6.0	8.0		
pH	—	—	—	—		
Conductivity (µmhos/cm)	—	—	—	—		
Temperature (°C)	—	—	—	—		
Turbidity (NTU)	>200	>200	>200	>200		
Color	Dk Br	Dk Br	Dk Br	Dk Br		
Odor	None	None	None	None		

Comments: Good recharge noted - well highly turbid

WELL DEVELOPMENT LOG

DUNN GEOSCIENCE ENGINEERING CO. P.C.
12 Metro Park Rd.
Albany, N.Y. 12205 (518)458-1313

Well I.D.: MW-2
Project Name: ATLAS STEEL
Project No.: 40093-00174
Personnel: J. TAFT
Date: 11-6-92
Time Start: 11:20
Time Finish: 12:00

WELL INFORMATION

Wellscreen Diameter: 2.0"
Borehole Diameter: 8.0"
Depth to Water: 2.64'
Total Well Depth: 9.47'
Well Volume: 1.1 Gals

Riser Diameter: 2.0"
Stratigraphic Unit Screened: SILT & CLAY / FILL
Development Method: Bailer (PVC)
Decon. Procedures: Alconox Wash & DI Rinse
Total Volume Removed: 10 Gals
Flow Rate: —

DEVELOPMENT INFORMATION

Parameters	Gallons Evacuated: 0	2 Gals	6 Gals	10 gals		
pH	—	—	—	—		
Conductivity (μmhos/cm)	—	—	—	—		
Temperature (°C)	—	—	—	—		
Turbidity (NTU)	>200	>200	>200	>200		
Color	Br	Br	Br	Br		
Odor	None	None	None	None		

Comments: Moderate to slow recharge noted - Able to bail well dry

WELL DEVELOPMENT LOG

DUNN GEOSCIENCE ENGINEERING CO. P.C.
12 Metro Park Rd.
Albany, N.Y. 12205 (518)458-1313

Well I.D.: MW-3
Project Name: ATLAS STEEL
Project No.: 40093-00174
Personnel: J. TAFT
Date: 11-6-92
Time Start: 12:15
Time Finish: 1:00

WELL INFORMATION

Wellscreen Diameter: 2.0"
Borehole Diameter: 8.0"
Depth to Water: 2.2'
Total Well Depth: 4.0'
Well Volume: 1.1 Gals

Riser Diameter: 2.0"
Stratigraphic Unit Screened: FILL
Development Method: Bailer (PVC)
Decon. Procedures: Alconox Wash + DI Rinse
Total Volume Removed: 10.0 Gals
Flow Rate: —

DEVELOPMENT INFORMATION

Parameters	Gallons Evacuated: 0	2 Gals	6 Gals	10 Gals		
pH	—	—	—	—		
Conductivity (μmhos/cm)	—	—	—	—		
Temperature (°C)	—	—	—	—		
Turbidity (NTU)	>200	>200	>200	>200		
Color	Okgr	Okgr	Okgr	Bkgr		
Odor	Petroleum	Petroleum	Petroleum	Petroleum		

Comments: Very good recharge noted - Heavy sheen on water surface but no free product

DUNN GEOSCIENCE CORPORATION
Field Sampling Record

Sample ID ATL-MW1
Location
Samplers J. TAFT
Client BENDERSON DEVELOPMENT

Date 11-10-92
Project ATLAS STEEL SITE
Project # 40093-00174
Well Size/Type 2.0" PVC MONITORING WELL

I. WATER LEVEL MEASUREMENTS (from top of casing) IN FEET:

Total Well Depth 9.68'
Depth to Water 5.00'
Height of Water Column 4.68'
Gals of Standing Water 0.8

Gals to Purge 2.4
Gals Actually Purged 2.5
Gals/ft: 2"ID=0.16 4"ID=0.65 6"ID=1.47

II. WELL PURGING: Start 11:15 Stop 11:25 Discharge Rate (GPM) —
Equipment: Pump Bailer X
Well behavior during purging: Good to moderate recharge noted

III. SAMPLE COLLECTION: Time 11:30 ID# ATL-MW1
Method: Bailer X Other
Containers 2-40ml septum vials ; 3-1QT Amber Glass ; 2-1QT PLASTIC
Sample Appearance and Odor

IV. FIELD MEASUREMENTS:

Temp	12.6°C			
pH	6.72			
Conductivity	820 µmhos/m			
Turbidity	>200 NTU			

Weather Cloudy - 55°F
Comments

DUNN GEOSCIENCE CORPORATION
Field Sampling Record

Sample ID: ATL-MW2
Location:
Samplers: J. TAFT
Client: BENDERSON DEVELOPMENT

Date: 11-10-92
Project: ATLAS STEEL SITE
Project #: 40093-00174
Well Size/Type: 2.0" PVC MONITORING WELL

I. WATER LEVEL MEASUREMENTS (from top of casing) IN FEET:

Total Well Depth: 9.47'
Depth to Water: 2.99'
Height of Water Column: 6.48'
Gals of Standing Water: 1.0

Gals to Purge: 3.0
Gals Actually Purged: 2.0
Gals/ft: 2"ID=0.16 4"ID=0.65 6"ID=1.47

II. WELL PURGING: Start 11:55 Stop 12:05 Discharge Rate (GPM) —
Equipment: Pump Bailer X
Well behavior during purging: Moderate recharge noted - bailed well dry after 2 gals

III. SAMPLE COLLECTION: Time 12:15 ID# ATL-MW2
Method: Bailer X Other
Containers 2-40 ml septum vials ; 3-1QT Amber Glass ; 2-1QT PLASTIC
Sample Appearance and Odor

IV. FIELD MEASUREMENTS:

Temp	13.1°C			
pH	7.05			
Conductivity	1119 umhos/m			
Turbidity	>200 NTU			

Weather: Cloudy - 55°F
Comments:

A:fldsamp.for/forms disk

DUNN GEOSCIENCE CORPORATION
Field Sampling Record

Sample ID: ATL-MW3
Location:
Samplers: J. TAFT
Client: RENDERSON DEVELOPMENT

Date: 11-10-92
Project: ATLAS STEEL SITE
Project #: 40093-00174
Well Size/Type: 2.0" PVC MONITORING WELL

I. WATER LEVEL MEASUREMENTS (from top of casing) IN FEET:

Total Well Depth: 9.0'
Depth to Water: 2.40'
Height of Water Column: 6.60'
Gals of Standing Water: 1.1

Gals to Purge: 3.3
Gals Actually Purged: 4.0
Gals/ft: 2"ID=0.16 4"ID=0.65 6"ID=1.47

II. WELL PURGING: Start 12:25 Stop 12:35 Discharge Rate (GPM)
Equipment: Pump Bailer X
Well behavior during purging: Excellent recharge noted - Petroleum odor & heavy sheen observed - No free product

III. SAMPLE COLLECTION: Time 12:45 ID# ATL-MW3
Method: Bailer X Other
Containers 2-40ml septum vials ; 3-1QT Amber Glass ; 2-1QT PLASTIC
Sample Appearance and Odor

IV. FIELD MEASUREMENTS:

Temp	12.5°C			
pH	7.32			
Conductivity	491 mmhos/m			
Turbidity	>200			

Weather: Cloudy - 55°F
Comments:

A:fldsamp.for/forms disk

APPENDIX F

Analytical Results

General Testing Corporation

A Full Service Environmental Laboratory

DEC. 1 1992

Mr. Rick Rall
Dunn Corporation
495 Commerce Dr.
Amherst, New York 14428

Re: Atlas Steel

Dear Mr. Rick Rall

Enclosed are the results of the analysis requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at (716) 634-0454.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION

Kathy Wager

Kathy Wager
Account Manager

Enc.

710 Exchange Street • Rochester, NY 14608 • Tele: (716) 454-3760 • (716) 454-1245
85 Trinity Place • Hackensack, NJ 07601 • Tele: (201) 488-5242 • Fax: (201) 488-6386
435 Lawrence Bell Drive • Amherst, NY 14221 • Tele: (716) 634-0454 • Fax: (716) 634-9019

General Testing Corporation

Effective 10/1/91

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. For further explanation see case narrative / cover letter.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range and reanalysis could not be performed.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

N - Spiked sample recovery not within control limits. (Flag the entire batch - Inorganic analytes only)

* - Duplicate analysis not within control limits. (Flag the entire batch - Inorganic analysis only)

\- Also used to qualify Organics QC data outside limits. (Only used on the QC summary sheets)

M - Duplication injection precision not met (GFA only).

S - Reported value determined by Method of Standard Additions. (MSA)

X - As specified in the case narrative.

General Testing Corporation

COMPANY: DUNN CORPORATION
Atlas Project
JOB #: R92/04908

VOLATILE ORGANICS

Dunn soil samples were analyzed for Target Compound List (TCL) volatile organics using SW-846 method 8240 except or sample R92/04908-001 which was analyzed for TCLP volatiles following a Zero Headspace Extraction using method 8240.

All the initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within QC acceptance limits.

No analytical or QC problems were encountered with these samples.

SEMIVOLATILE ORGANICS

Dunn soil samples were analyzed for TCL semivolatile organics using SW-846 method 8270 except for sample R92/04908-001 which was analyzed for TCLP semivolatile organics following a TCLP extraction by method 8270.

All the initial and continuing calibration criteria were met for this method.

The surrogate standard recoveries for 2-Fluorophenol and Phenol-d6 on sample R92/04908-005 were outside QC acceptance limits due to matrix interferences. The analysis was repeated and again the surrogates were outside limits. The recoveries have been flagged with a "*" and the acid extractable data has been flagged with a "J" as being estimated.

All QC data associated with these samples was acceptable.

Samples R92/04908-003 was analyzed at 1/10 dilutions due to high level of organics which caused matrix interferences in the extracts that the GPC cleanup did not remove. These dilutions resulted in proportionately higher detection limits.

General Testing Corporation

DUNN - ATLAS R92/04908

PESTICIDES/PCBS/HERBICIDES

Dunn soil samples were analyzed for TCL Pesticides and PCBs using method 8080 from SW-846 except for sample R92/04908-001 which was analyzed for TCLP Pesticides and Herbicides using methods 8080 and 8150 following a TCLP extraction.

The recovery for the surrogate standard Dibutylchlorendate (DBC) could not be determined on sample R92/04908-003 due to dilutions needed because of matrix interferences and have been flagged with a "D". The recoveries for the surrogate standard Tetrachloro-m-xylene (TCMX) were outside QC limits on samples R92/04908-004 and 006 due to matrix interferences and have been flagged with a "*". However, the recoveries for the second surrogate, DBC, were acceptable therefore the data was accepted.

Due to matrix interferences, all samples were analyzed at 1/10 dilutions or in the case of sample R92/04908-003, some analytes had to be quantitated from a 1/100 dilution.

No other analytical or QC problems were encountered with these analysis.

INORGANIC ANALYSIS

Dunn soil samples were analyzed for the Target Analyte List of metals and Total Cyanide using approved SW-846 methodologies except for sample R92/4908-001 which was analyzed for the TCLP metals following the TCLP extraction.

The Antimony and Potassium results for samples R92/04908-002, 004, 005, and 006 have been flagged with a "N" because the matrix spike recovery performed on sample R92/04908-002 was outside QC limits. Also the Lead and Magnesium results for sample R92/4908-003 have been flagged with a "N" because the matrix spike performed on sample -003 was outside QC limits. Beryllium, Copper, Manganese, and Nickel results for sample R92/04908-003 have been flagged with an"*" because the duplicate analysis performed on sample -003 was outside QC limits for %RE.

No other analytical or QC problems were encountered with these analyses.

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R92/04908 Date: DEC. 10 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Drive
Amherst, NY 14228

Sample(s) Reference

Atlas Project

Received : 11/10/92 P.O. #:

TCL VOLATILES BY EPA METHOD 8240* ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-003						
Location:		ATL-SED1						
Date Collected:		11/10/92						
Time Collected:	PQL	11:00						
Date Analyzed:		11/24/92						
Dilution:		1						
Chloromethane	5.0	6.5 U						
Bromomethane	5.0	6.5 U						
Vinyl Chloride	5.0	6.5 U						
Chloroethane	5.0	6.5 U						
Methylene Chloride	5.0	6.5 U						
Acetone	10	13 U						
Carbon Disulfide	10	13 U						
Vinyl Acetate	10	13 U						
1,1-Dichloroethene	5.0	6.5 U						
1,1-Dichloroethane	5.0	6.5 U						
trans-1,2-Dichloroethene	5.0	6.5 U						
cis-1,2-Dichloroethene	5.0	6.5 U						
Chloroform	5.0	6.5 U						
2-Butanone (MEK)	10	13 U						
1,2-Dichloroethane	5.0	6.5 U						
1,1,1-Trichloroethane	5.0	6.5 U						
Carbon Tetrachloride	5.0	6.5 U						
Bromodichloromethane	5.0	6.5 U						
1,2-Dichloropropane	5.0	6.5 U						
1,3-Dichloropropene-Trans	5.0	6.5 U						
Trichloroethene	5.0	6.5 U						
Dibromochloromethane	5.0	6.5 U						
1,1,2-Trichloroethane	5.0	6.5 U						
Benzene	5.0	6.5 U						
1,3-Dichloropropene(Cis)	5.0	6.5 U						
Bromoform	5.0	6.5 U						
4-Methyl-2-pentanone(MIBK)	10	13 U						
2-Hexanone	10	13 U						
Tetrachloroethene	5.0	6.5 U						
1,1,2,2-Tetrachloroethane	5.0	6.5 U						
Toluene	5.0	6.5 U						
Chlorobenzene	5.0	6.5 U						

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R92/04908 Date: DEC. 10 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Drive
Amherst, NY 14228

Sample(s) Reference

Atlas Project

Received : 11/10/92 P.O. #:

TCL VOLATILES BY EPA METHOD 8240* ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-003
Location:		ATL-SED1
Date Collected:		11/10/92
Time Collected:	PQL	11:00
Date Analyzed:		11/24/92
Dilution:		1
Ethylbenzene	5.0	6.5 U
Styrene	5.0	6.5 U
Total Xylene (o,m,p)	5.0	6.5 U
Surrogate Standard Recoveries		
1,2-Dichloroethane-d4	70-121	91
Toluene d8	81-117	112
4-Bromofluorobenzene	74-121	86

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R92/04908 Date: DEC. 10 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Drive
Amherst, NY 14228

Sample(s) Reference

Atlas Project

Received : 11/10/92 P.O. #:

TCL ACID EXTRACTABLES BY EPA METHOD 8270* ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-003						
Location:		ATL-SED1						
Date Collected:		11/10/92						
Time Collected:	PQL	11:00						
Date Extracted:		11/16/92						
Date Analyzed:		11/30/92						
Dilution:		10						
Phenol	670	8700 U						
2-Chlorophenol	670	8700 U						
2-Nitrophenol	670	8700 U						
2,4-Dimethylphenol	670	8700 U						
2,4-Dichlorophenol	670	8700 U						
4-Chloro-3-methylphenol	670	8700 U						
2,4,6-Trichlorophenol	670	8700 U						
2,4-Dinitrophenol	1300	17000 U						
4-Nitrophenol	1300	17000 U						
2-Methyl-4,6-dinitrophenol	1300	17000 U						
Pentachlorophenol	1300	17000 U						
2-Methylphenol	670	8700 U						
4-Methylphenol	670	8700 U						
Benzoic Acid	3300	43000 U						
2,4,5-Trichlorophenol	670	8700 U						
SURROGATE STANDARD RECOVERIES								
2-Fluorophenol	25-121%	66						
Phenol-d6	24-113%	68						
2,4,6-TriBromophenol	19-122%	57						

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job Number: R92/04908 Date: DEC. 10 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Drive
Amherst, NY 14228

Sample(s) Reference

Atlas Project

Received : 11/10/92 P.O. #:

TCL BASE NEUTRALS BY EPA METHOD 8270* ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-003						
Location:		ATL-SED1						
Date Collected:		11/10/92						
Time Collected:	PQL	11:00						
Date Extracted:		11/16/92						
Date Analyzed:		11/30/92						
Dilution:		10						
Butyl benzyl phthalate	330	4300 U						
3,3'-Dichlorobenzidine	330	4300 U						
Benzo(a)anthracene	330	160000						
Bis(2-ethylhexyl)phthalate	330	4300 U						
Chrysene	330	190000						
Di-n-octyl phthalate	330	4300 U						
Benzo(b)Fluoranthene	330	350000						
Benzo(k)fluoranthene	330	120000						
Benzo(a)pyrene	330	230000						
Indeno(1,2,3-cd)pyrene	330	45000						
Dibenzo(a,h)anthracene	330	15000						
Benzo(g,h,i)perylene	330	48000						
Benzyl Alcohol	330	4300 U						
4-Chloroaniline	330	4300 U						
2-Methyl Naphthalene	330	8300						
2-Nitroaniline	330	4300 U						
3-Nitroaniline	330	4300 U						
Dibenzofuran	330	17000						
4-Nitroaniline	330	4300 U						
SURROGATE STANDARD RECOVERIES								
Nitrobenzene-d5	23-120%	50						
2-Fluorobiphenyl	30-115%	78						
Terphenyl-d14	18-137%	134						

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145 NY ID# in Hackensack: 10801

NJ ID# in Rochester: 73331 NJ ID# in Hackensack: 02317

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R92/04908 Date: DEC. 10 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Drive
Amherst, NY 14228

Sample(s) Reference

Atlas Project

Received : 11/10/92 P.O. #:

TCL BASE NEUTRALS BY EPA METHOD 8270* ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-003							
Location:		ATL-SED1							
Date Collected:		11/10/92							
Time Collected:	PQL	11:00							
Date Extracted:		11/16/92							
Date Analyzed:		11/30/92							
Dilution:		10							
N-Nitrosodimethylamine	330	4300 U							
Bis(2-chloroethyl) ether	330	4300 U							
1,3 Dichlorobenzene	330	4300 U							
1,4 Dichlorobenzene	330	4300 U							
1,2 Dichlorobenzene	330	4300 U							
bis(-2-chloroisopropyl)ether	330	4300 U							
N-Nitroso-Di-n-propylamine	330	4300 U							
Hexachloroethane	330	4300 U							
Nitrobenzene	330	4300 U							
Isophorone	330	4300 U							
bis(-2-chloroethoxy)methane	330	4300 U							
1,2,4-Trichlorobenzene	330	4300 U							
Naphthalene	330	51000							
Hexachlorobutadiene	330	4300 U							
Hexachlorocyclopentadiene	330	4300 U							
2-Chloronaphthalene	330	4300 U							
Dimethyl phthalate	330	4300 U							
Acenaphthylene	330	4300 U							
Acenaphthene	330	39000							
2,4-Dinitrotoluene	330	43000 U							
2,6-Dinitrotoluene	330	4300 U							
Diethyl phthalate	330	4300 U							
4-Chlorophenyl-phenyl-ether	330	4300 U							
Fluorene	330	57000							
1,2-Diphenylhydrazine	330	4300 U							
N-Nitrosodiphenylamine	330	4300 U							
4-Bromophenyl-phenylether	330	4300 U							
Hexachlorobenzene	330	4300 U							
Phenanthrene	330	410000							
Anthracene	330	66000							
Di-n-butyl phthalate	330	4300 U							
Benzidine	3300	43000 U							
Fluoranthene	330	460000							
Pyrene	330	380000							

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R92/04908 Date: DEC. 10 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Drive
Amherst, NY 14228

Sample(s) Reference

Atlas Project

Received : 11/10/92

TCL * BY GC METHOD 8080 ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-003
Location:		ATL-SED1
Date Collected:		11/10/92
Time Collected:	PQL	11:00
Date Extracted:		11/16/92
Date Analyzed:		11/26&12/1/92
Dilution:		10, 100
alpha-BHC	2.0	27 U
beta-BHC	2.0	27 U
gamma-BHC (Lindane)	2.0	270 U
Heptachlor	2.0	27 U
delta-BHC	2.0	27 U
Aldrin	2.0	27 U
Heptachlor epoxide	2.0	270 U
alpha-Endosulfan	2.0	270 U
4,4'-DDE	2.0	270 U
Dieldrin	2.0	270 U
Endrin	2.0	270 U
4,4'-TDE (DDD)	2.0	270 U
beta-Endosulfan	4.0	550 U
4,4'-DDT	4.0	55 U
Endrin Aldehyde	4.0	55 U
Endosulfan Sulfate	4.0	55 U
Methoxychlor	8.0	120 U
Endrin Ketone	4.0	550 U
Chlordane	8.0	120 U
Toxaphene	40	590 U
PCB 1016	20	300 U
PCB 1221	20	300 U
PCB 1232	20	300 U
PCB 1242	20	300 U
PCB 1248	20	300 U
PCB 1254	20	300 U
PCB 1260	20	300 U

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145 NY ID# in Hackensack: 10801

NJ ID# in Rochester: 73331 NJ ID# in Hackensack: 02317

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R92/04908 Date: DEC. 10 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Drive
Amherst, NY 14228

Sample(s) Reference

Atlas Project

Received : 11/10/92 P.O. #:

ANALYTICAL RESULTS - ug/g Dry Wt.

Sample:		-003				
Location:		ATL-SED1				
Date Collected:	PQL	11/10/92				
Time Collected:		11:00				
Cyanide, Total	1.0	1.30	U			
Solids, %		77.1				
Aluminum	10.0	4230				
Antimony	5.00	6.49	U			
Arsenic	0.500	0.669				
Barium	0.500	38.9				
Beryllium	2.50	1.10	*			
Cadmium	0.500	2.85				
Calcium	50.0	13000				
Chromium	1.00	45.4				
Cobalt	5.00	6.49	U			
Copper	1.00	71.5	*			
Iron	5.00	32800				
Lead	5.00	117	N			
Magnesium	50.0	2620	N			
Manganese	0.500	620	*			
Mercury	0.100	0.169				
Nickel	4.00	30.0	*			
Potassium	50.0	353				
Selenium	0.500	0.649	U			
Silver	1.00	1.30	U			
Sodium	50.0	232				
Thallium	5.00	6.49	U			
Vanadium	2.50	7.08				
Zinc	1.00	383				

Michael K. Perry
Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R92/04908 Date: DEC. 10 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Drive
Amherst, NY 14228

Sample(s) Reference
Atlas Project

Received : 11/10/92 P.O. #:

ANALYTICAL RESULTS - ug/g Wet Wt

Sample:	-001						
Location:	ATL-WS1						
Date Collected:	11/10/92						
Time Collected:	10:20						
Corrosivity,mm/yr.	7.74						
Ignitability °C	>100						
Reactivity							
Total Available Cyanide	0.330 U						
Total Available Sulfide	6.14						

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.
NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

7.74 mm/yr × 1 inch/25.4 mm

0.25 in/yr

0.25 in/yr

Michael K. Perry
Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R92/04908 Date: DEC. 10 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Drive
Amherst, NY 14228

Sample(s) Reference
Atlas Project

Received : 11/10/92 P.O. #:

TCLP VOLATILES BY EPA METHOD 8240*** ANALYTICAL RESULTS - ug/l

Sample:	-001		
Location:	ATL-WS1		
Date Collected:	11/10/92		
Time Collected:	10:20		
	BIASED	UNBIASED	% RECOVERY
Date Analyzed:	11/21/92		
Dilution:	1		
Benzene	50 U	50 U	102
Carbon Tetrachloride	50 U	50 U	98
Chlorobenzene	50 U	50 U	102
Chloroform	50 U	50 U	102
1,2-Dichloroethane	50 U	50 U	104
1,1-Dichloroethene	50 U	50 U	112
Methyl Ethyl Ketone	100 U	100 U	94
Tetrachloroethene	50 U	50 U	102
Trichloroethene	50 U	50 U	104
Vinyl Chloride	50 U	50 U	104
SURROGATE STANDARD RECOVERIES			
1,2-Dichloroethane-d4	97		
(Acceptance Limits: 76-114%)			
Toluene d8	98		
(Acceptance Limits: 88-110%)			
Bromofluorobenzene	99		
(Acceptance Limits: 86-115%)			

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.
NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

***TCLP Toxicity Characteristic Leaching Procedure.
Federal Register, Part 261, Vol. 55, No. 126,
June 29, 1990.

Data reported is biased on the above regulation.

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R92/04908 Date: DEC. 10 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Drive
Amherst, NY 14228

Sample(s) Reference

Atlas Project

Received : 11/10/92 P.O. #:

TCLP ACID EXTRACTABLES BY EPA METHOD 8270*** ANALYTICAL RESULTS - ug/l

Sample:	-001		
Location:	ATL-WS1		
Date Collected:	11/10/92		
Time Collected:	10:20		
	BIASED	UNBIASED	% RECOVERY
Date Extracted:	11/18/92		
Date Analyzed:	11/19/92		
Dilution:	10		
m+p-cresol	100 U	100 U	30
o-cresol	100 U	100 U	28
Pentachlorophenol	200 U	200 U	110
2,4,5-Trichlorophenol	100 U	100 U	39
2,4,6-Trichlorophenol	100 U	100 U	83
Surrogate Standard Recoveries:			
2-Fluorophenol	41		
(Acceptance Limits: 21-100%)			
Phenol-d6	28		
(Acceptance Limits: 10-94%)			
2,4,6-TriBromophenol	84		
(Acceptance Limits: 10-123%)			

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.
NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

***TCLP Toxicity Characteristic Leaching Procedure.
Federal Register, Part 261, Vol. 55, No. 126,
June 29, 1990.

Data reported is biased on the above regulation.

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R92/04908 Date: DEC. 10 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Drive
Amherst, NY 14228

Sample(s) Reference

Atlas Project

Received : 11/10/92 P.O. #:

TCLP PESTICIDES-BY GC METHOD 8080 *** ANALYTICAL RESULTS - ug/l

Sample:	-001		
Location:	ATL-WS1		
Date Collected:	11/10/92		
Time Collected:	10:20		
	BIASED	UNBIASED	% RECOVERY
Date Extracted:	11/18/92		
Date Analyzed:	11/21/92		
Dilution:	10		
Chlordane	20 U	20 U	97
Endrin	5.0 U	5.0 U	83
Heptachlor	5.0 U	5.0 U	81
Heptachlor epoxide	5.0 U	5.0 U	84
gamma-BHC (Lindane)	5.0 U	5.0 U	82
Methoxychlor	20 U	20 U	88
Toxaphene	--	100 U	--
Surrogate Standard Recovery			
% Recovery			
Dibutylchlorendate (Acceptance Limits: 24-154)	142		
Tetrachloro-meta-xylene (Acceptance Limits: 60-150)	91		

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.
NY ID# in Rochester: 10145 NY ID# in Hackensack: 10801
NJ ID# in Rochester: 73331 NJ ID# in Hackensack: 02317

***TCLP Toxicity Characteristic Leaching Procedure.
Federal Register, Part 261, Vol. 55, No. 126,
June 29, 1990.

Data reported is biased on the above regulation

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R92/04908 Date: DEC. 10 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Drive
Amherst, NY 14228

Sample(s) Reference

Atlas Project

Received : 11/10/92 P.O. #:

TCLP BASE NEUTRALS BY EPA METHOD 8270*** ANALYTICAL RESULTS - ug/l

Sample:	-001		
Location:	ATL-WS1		
Date Collected:	11/10/92		
Time Collected:	10:20		
	BIASED	UNBIASED	% RECOVERY
Date Extracted:	11/18/92		
Date Analyzed:	11/19/92		
Dilution:	10		
1,4 Dichlorobenzene	50 U	50 U	37
2,4-Dinitrotoluene	50 U	50 U	42
Hexachlorobenzene	50 U	50 U	50
Hexachloroethane	50 U	50 U	32
Nitrobenzene	50 U	50 U	40
Pyridine	100 U	100 U	51
Hexachloro-1,3-butadiene	50 U	50 U	38
Surrogate Standard Recoveries:			
Nitrobenzene-d5	72		
(Acceptance Limits: 35-114%)			
2-Fluorobiphenyl	75		
(Acceptance Limits: 43-116%)			
Terphenyl-d14	87		
(Acceptance Limits: 33-141%)			

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.
NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

***TCLP Toxicity Characteristic Leaching Procedure.
Federal Register, Part 261, Vol. 55, No. 126,
June 29, 1990.

Data reported is biased on the above regulation.

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R92/04908 Date: DEC. 10 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Drive
Amherst, NY 14228

Sample(s) Reference:
Atlas Project

Received : 11/10/92 P.O. #:

ANALYSIS * BY GC METHOD 8080		ANALYTICAL RESULTS - %
Sample:		-003
Location:		ATL-SED1
Date Collected:		11/10/92
Time Collected:	LIMITS	11:00
SURROGATE STANDARD RECOVERY		
% Recovery		
Dibutylchlorendate	24-150%	*
Tetrachloro-meta-xylene	60-150%	95

*SW 846 Manual, Test Methods for Evaluating Solid Waste, 3rd Edition, 11/86.
NY LABORATORY CERTIFICATION ID#: 10145
NJ ID#: 73331 in Rochester;
NJ ID#: 02317 in Hackensack

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R92/04908 Date: DEC. 10 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Drive
Amherst, NY 14228

Sample(s) Reference

Atlas Project

Received : 11/10/92 P.O. #:

ANALYTICAL RESULTS - mg/l

Sample:	-001		
Location:	ATL-WS1		
Date Collected:	11/10/92		
Time Collected:	10:20		
	BIASED	UNBIASED	% RECOVERY
TCLP Extraction Metals ***			
Arsenic	0.500 U	0.500 U	90
Barium	1.00 U	1.00 U	100
Cadmium	0.100 U	0.100 U	91
Chromium	0.100 U	0.100 U	100
Lead	0.100 U	0.100 U	90
Mercury	0.0020 U	0.0020 U	64
Selenium	0.500 U	0.500 U	96
Silver	0.100 U	0.100 U	95

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

***TCLP Toxicity Characteristic Leaching Procedure.
Federal Register, Part 261, Vol. 55, No. 126,
June 29, 1990.

Data reported is biased on the above regulation.

Laboratory Director

Dunn Geoscience Corp.

495 COMMERCE DRIVE
AMHERST, NEW YORK 14150
(716) 691-3866
FAX (716) 691-3884

4908

Client Name: Henderson
Project No.: 40093-0017A
Site Location: Atlas Steel

Sampler: Joel Tast

DGC Contact: Rick Rall
Laboratory Contact:
Lab Identification:
Date Report Required:

Sample Identification	Date	Time	Sample Matrix	Collection Vessel	Lowering Device	# Sample Containers	Presery.	Comp. or Grab	Comment
TL-WS1 (Set#5)	11-092	10:20	SOIL/WASTE	-001		2 (Quats)		Grab	RCRA Waste Characteristics/TCLP
TL-SW1 (Set#4)	"	10:45	Surface Water	-002	Glass Jar	7	*	Grab	TCL+TAL+CN
TL-SED1 (Set#9)	"	11:00	Sediment	-003	Trowel	5		Grab	" " "
TL-MW1 (Set#1)	"	11:30	Groundwater	-004	Bailer	7	*	Grab	" " "
TL-MW2 (Set#2)	"	12:15	"	-005	"	7	*	Grab	" " "
TL-MW3 (Set#3)	"	12:45	"	-006	"	7	*	Grab	" " "

Strong petroleum odor - sheen.

*/HNO_3 for Metals
NaOH for Cyanide
HCL for VOAs

	Name	Affiliation	Date	Time
Relinquished by:	Joel Tast	DUNN	11-092	
Received by:	K Wagel	GTC	11-10-92	1:50
Relinquished by:				

Received by Laboratory: Name Date Time
Samples Intact & Properly Preserved: Yes or No
Laboratory Comments:

FORM50

FIELD SAMPLING RECORD

PROJECT: ATLAS STEEL SITE
PROJECT NO.: 40093-00174
CLIENT: BENDERSON DEVELOPMENT
SAMPLERS: J. TAFT of DUNN

DATE: 11-10-92
TIME: 11:00A
SITE ID:

Sample classification: Suface Water / Infiltration Water / Leachate / (Sediment) / Soil / Waste /Other

Sample From: Stream / River / Lake / Pond / Seep / Lagoon / Tank / Pipe Outfall / Drum / Excavation / Boring / Embankment / (Catch Basin)

Surface: Residential / (Industrial) / Commerical / Other

Sampling Methods: Sampling Bottle: Direct Fill Container / Remote Fill / Dipper Jar/Can / Peristaitic Pump / Bailer / Core Sampler / Standard Split Spoon/ Hand Auger / Stainless Spoon/ (Trowel) /

Sample Type: Point / (Grab) / Composite /

Atmospheric Trip Blank ID _____ **Field (wash) Blank ID** _____
Containers Filled (primary) # 5-4oz Glass **List ID #s** ATL-SE01
Containers Filled (replicates) # _____ **List ID #s** _____
Test for TCL & TAL PARAMETERS + CYANIDE
Physical Appearance and Odor Brown fine to coarse Sand & Gravel, No odor

Field Tests:	Meter ID #	Test Value	
Temperature (C / F)			
pH			
Spec. Conductivity (umhos/cm)			
Dissolved Oxygen (mg/1)			
Other:			Units

Weather: Cldy - 55°F
Comments:

FIELD SAMPLING RECORD

PROJECT: ATLAS STEEL SITE
PROJECT NO.: 40093-00174
CLIENT: BENDERSON DEVELOPMENT
SAMPLERS: J. TAFT of DUNN

DATE: 11-10-92
TIME: 10:45 A
SITE ID:

Sample classification: (Surface Water) / Infiltration Water / Leachate / Sediment / Soil / Waste /Other

Sample From: Stream / River / Lake / Pond / Seep / ~~Lagoon~~ / Tank / Pipe Outfall / Drum / Excavation / Boring / Embankment / (Catch Basin)

Surface: Residential / (Industrial) / Commercial / Other

Sampling Methods: Sampling Bottle: Direct Fill Container / Remote Fill / (Clear Jar/Can) / Peristaltic Pump / Bailer / Core Sampler / Standard Split Spoon/ Hand Auger / Stainless Spoon/Trowel /

Sample Type: Point / (Grab) / Composite /

Atmospheric Trip Blank ID
Containers Filled (primary) # 7 containers
Containers Filled (replicates) #
Test for TCL + TAL + Cyanide
Physical Appearance and Odor No odor - Turbid w/ organics

Field (wash) Blank ID
List ID #s ATL-SW1
List ID #s

Field Tests:

	Meter ID #	Test Value
Temperature (C / F)		
pH		
Spec. Conductivity (umhos/cm)		
Dissolved Oxygen (mg/l)		
Other:		

Units

Weather: Cloudy - 50°F
Comments:

General Testing Corporation

COMPANY: DUNN CORPORATION
Atlas Project
JOB #: R92/04908

VOLATILE ORGANICS

Dunn soil samples were analyzed for Target Compound List (TCL) volatile organics using SW-846 method 8240 except or sample R92/04908-001 which was analyzed for TCLP volatiles following a Zero Headspace Extraction using method 8240.

All the initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within QC acceptance limits.

No analytical or QC problems were encountered with these samples.

SEMIVOLATILE ORGANICS

Dunn soil samples were analyzed for TCL semivolatile organics using SW-846 method 8270 except for sample R92/04908-001 which was analyzed for TCLP semivolatile organics following a TCLP extraction by method 8270.

All the initial and continuing calibration criteria were met for this method.

The surrogate standard recoveries for 2-Fluorophenol and Phenol-d6 on sample R92/04908-005 were outside QC acceptance limits due to matrix interferences. The analysis was repeated and again the surrogates were outside limits. The recoveries have been flagged with a "*" and the acid extractable data has been flagged with a "J" as being estimated.

All QC data associated with these samples was acceptable.

Samples R92/04908-003 was analyzed at 1/10 dilutions due to high level of organics which caused matrix interferences in the extracts that the GPC cleanup did not remove. These dilutions resulted in proportionately higher detection limits.

General Testing Corporation

DUNN - ATLAS R92/04908

PESTICIDES/PCBS/HERBICIDES

Dunn soil samples were analyzed for TCL Pesticides and PCBs using method 8080 from SW-846 except for sample R92/04908-001 which was analyzed for TCLP Pesticides and Herbicides using methods 8080 and 8150 following a TCLP extraction.

The recovery for the surrogate standard Dibutylchlorendate (DBC) could not be determined on sample R92/04908-003 due to dilutions needed because of matrix interferences and have been flagged with a "D". The recoveries for the surrogate standard Tetrachloro-m-xylene (TCMX) were outside QC limits on samples R92/04908-004 and 006 due to matrix interferences and have been flagged with a "*". However, the recoveries for the second surrogate, DBC, were acceptable therefore the data was accepted.

Due to matrix interferences, all samples were analyzed at 1/10 dilutions or in the case of sample R92/04908-003, some analytes had to be quantitated from a 1/100 dilution.

No other analytical or QC problems were encountered with these analysis.

INORGANIC ANALYSIS

Dunn soil samples were analyzed for the Target Analyte List of metals and Total Cyanide using approved SW-846 methodologies except for sample R92/4908-001 which was analyzed for the TCLP metals following the TCLP extraction.

The Antimony and Potassium results for samples R92/04908-002, 004, 005, and 006 have been flagged with a "N" because the matrix spike recovery performed on sample R92/04908-002 was outside QC limits. Also the Lead and Magnesium results for sample R92/4908-003 have been flagged with a "N" because the matrix spike performed on sample -003 was outside QC limits. Beryllium, Copper, Manganese, and Nickel results for sample R92/04908-003 have been flagged with an"*" because the duplicate analysis performed on sample -003 was outside QC limits for %RE.

No other analytical or QC problems were encountered with these analyses.

General Testing Corporation

A Full Service Environmental Laboratc

LABORATORY REPORT

Job No: R92/04908 Date: DEC. 10 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Drive
Amherst, NY 14228

Sample(s) Reference

Atlas Project

Received : 11/10/92 P.O. #:

TCL VOLATILES BY EPA METHOD 8240* ANALYTICAL RESULTS - ug/l

Sample:	-002	-004	-005	-006
Location:	ATL-SW1	ATL-MW1	ATL-MW2	ATL-MW3
Date Collected:	11/10/92	11/10/92	11/10/92	11/10/92
Time Collected:	10:45	11:30	12:15	12:45
Date Analyzed:	11/21/92	11/21/92	11/21/92	11/21/92
Dilution:	1	1	1	1
Ethylbenzene	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	5.0 U	5.0 U	5.0 U	5.0 U
Total Xylene (o,m,p)	5.0 U	5.0 U	5.0 U	5.0 U
Surrogate Standard Recoveries				
1,2-Dichloroethane-d4	101	94	92	93
(Acceptance limits: 76-114%)				
Toluene d8	98	98	99	94
(Acceptance limits: 88-110%)				
4-Bromofluorobenzene	98	101	100	108
(Acceptance limits: 86-115%)				

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job No: R92/04908 Date: DEC. 10 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Drive
Amherst, NY 14228

Sample(s) Reference

Atlas Project

Received : 11/10/92 P.O. #:

TCL VOLATILES BY EPA METHOD 8240* ANALYTICAL RESULTS - ug/l

Sample:	-002	-004	-005	-006				
Location:	ATL-SW1	ATL-MW1	ATL-MW2	ATL-MW3				
Date Collected:	11/10/92	11/10/92	11/10/92	11/10/92				
Time Collected:	10:45	11:30	12:15	12:45				
Date Analyzed:	11/21/92	11/21/92	11/21/92	11/21/92				
Dilution:	1	1	1	1				
Chloromethane	5.0 U	5.0 U	5.0 U	5.0 U				
Bromomethane	5.0 U	5.0 U	5.0 U	5.0 U				
Vinyl Chloride	5.0 U	5.0 U	5.0 U	5.0 U				
Chloroethane	5.0 U	5.0 U	5.0 U	5.0 U				
Methylene Chloride	5.0 U	5.0 U	5.0 U	5.0 U				
Acetone	10 U	10 U	10 U	10 U				
Carbon Disulfide	10 U	10 U	10 U	10 U				
Vinyl Acetate	10 U	10 U	10 U	10 U				
1,1-Dichloroethene	5.0 U	5.0 U	5.0 U	5.0 U				
1,1-Dichloroethane	5.0 U	5.0 U	5.0 U	5.0 U				
trans-1,2-Dichloroethene	5.0 U	5.0 U	5.0 U	5.0 U				
cis-1,2-Dichloroethene	5.0 U	5.0 U	5.0 U	5.0 U				
Chloroform	5.0 U	5.0 U	5.0 U	5.0 U				
2-Butanone (MEK)	10 U	10 U	10 U	10 U				
1,2-Dichloroethane	5.0 U	5.0 U	5.0 U	5.0 U				
1,1,1-Trichloroethane	5.0 U	5.0 U	5.0 U	5.0 U				
Carbon Tetrachloride	5.0 U	5.0 U	5.0 U	5.0 U				
Bromodichloromethane	5.0 U	5.0 U	5.0 U	5.0 U				
1,2-Dichloropropane	5.0 U	5.0 U	5.0 U	5.0 U				
1,3-Dichloropropene-Trans	5.0 U	5.0 U	5.0 U	5.0 U				
Trichloroethene	5.0 U	5.0 U	5.0 U	5.0 U				
Dibromochloromethane	5.0 U	5.0 U	5.0 U	5.0 U				
1,1,2-Trichloroethane	5.0 U	5.0 U	5.0 U	5.0 U				
Benzene	5.0 U	5.0 U	5.0 U	5.0 U				
1,3-Dichloropropene(Cis)	5.0 U	5.0 U	5.0 U	5.0 U				
Bromoform	5.0 U	5.0 U	5.0 U	5.0 U				
4-Methyl-2-pentanone(MIBK)	10 U	10 U	10 U	10 U				
2-Hexanone	10 U	10 U	10 U	10 U				
Tetrachloroethene	5.0 U	5.0 U	5.0 U	5.0 U				
1,1,2,2-Tetrachloroethane	5.0 U	5.0 U	5.0 U	5.0 U				
Toluene	5.0 U	5.0 U	5.0 U	5.0 U				
Chlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U				

General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job No: R92/04908 Date: DEC. 10 1992

Sample(s) Reference

Atlas Project

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Drive
Amherst, NY 14228

Received : 11/10/92 P.O. #:

TCL ACID EXTRACTABLES BY EPA METHOD 8270* ANALYTICAL RESULTS - ug/l

Sample:	-002	-004	-005	-006
Location:	ATL-SW1	ATL-MW1	ATL-MW2	ATL-MW3
Date Collected:	11/10/92	11/10/92	11/10/92	11/10/92
Time Collected:	10:45	11:30	12:15	12:45
Date Extracted:	11/13/92	11/13/92	11/13/92	11/13/92
Date Analyzed:	11/18/92	11/18/92	11/18/92	11/18/92
Dilution:	1	1	1	1
Phenol	10 U	10 U	10 UJ	10 U
2-Chlorophenol	10 U	10 U	10 UJ	10 U
2-Nitrophenol	10 U	10 U	10 UJ	10 U
2,4-Dimethylphenol	10 U	10 U	10 UJ	10 U
2,4-Dichlorophenol	10 U	10 U	10 UJ	10 U
4-Chloro-3-methylphenol	10 U	10 U	10 UJ	10 U
2,4,6-Trichlorophenol	10 U	10 U	10 UJ	10 U
2,4-Dinitrophenol	20 U	20 U	20 UJ	20 U
4-Nitrophenol	20 U	20 U	20 UJ	20 U
2-Methyl-4,6-dinitrophenol	20 U	20 U	20 UJ	20 U
Pentachlorophenol	20 U	20 U	20 UJ	20 U
2-Methylphenol	10 U	10 U	10 UJ	10 U
4-Methylphenol	10 U	10 U	10 UJ	10 U
Benzoic Acid	50 U	50 U	50 UJ	50 U
2,4,5-Trichlorophenol	10 U	10 U	10 UJ	10 U
SURROGATE STANDARD RECOVERIES				
2-Fluorophenol	57	51	2 *	49
(Acceptance Limits: 21-100%)				
Phenol-d6	46	39	1 *	41
(Acceptance Limits: 10-94%)				
2,4,6-TriBromophenol	94	83	15	97
(Acceptance Limits: 10-123%)				

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackenseck: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratc

LABORATORY REPORT

Job No: R92/04908 Date: DEC. 10 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Drive
Amherst, NY 14228

Sample(s) Reference

Atlas Project

Received : 11/10/92 P.O. #:

TCL BASE NEUTRALS BY EPA METHOD 8270* ANALYTICAL RESULTS - ug/l

Sample:	-002	-004	-005	-006				
Location:	ATL-SW1	ATL-MW1	ATL-MW2	ATL-MW3				
Date Collected:	11/10/92	11/10/92	11/10/92	11/10/92				
Time Collected:	10:45	11:30	12:15	12:45				
Date Extracted:	11/13/92	11/13/92	11/13/92	11/13/92				
Date Analyzed:	11/18/92	11/18/92	11/18/92	11/18/92				
Dilution:	1	1	1	1				
N-Nitrosodimethylamine	5.0 U	5.0 U	5.0 U	5.0 U				
Bis(2-chloroethyl) ether	5.0 U	5.0 U	5.0 U	5.0 U				
1,3 Dichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U				
1,4 Dichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U				
1,2 Dichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U				
bis(-2-chloroisopropyl)ether	5.0 U	5.0 U	5.0 U	5.0 U				
N-Nitroso-Di-n-propylamine	5.0 U	5.0 U	5.0 U	5.0 U				
Hexachloroethane	5.0 U	5.0 U	5.0 U	5.0 U				
Nitrobenzene	5.0 U	5.0 U	5.0 U	5.0 U				
Isophorone	5.0 U	5.0 U	5.0 U	5.0 U				
bis(-2-chloroethoxy)methane	5.0 U	5.0 U	5.0 U	5.0 U				
1,2,4-Trichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U				
Naphthalene	5.0 U	5.0 U	5.0 U	25				
Hexachlorobutadiene	5.0 U	5.0 U	5.0 U	5.0 U				
Hexachlorocyclopentadiene	5.0 U	5.0 U	5.0 U	5.0 U				
2-Chloronaphthalene	5.0 U	5.0 U	5.0 U	5.0 U				
Dimethyl phthalate	5.0 U	5.0 U	5.0 U	5.0 U				
Acenaphthylene	5.0 U	5.0 U	5.0 U	5.0 U				
Acenaphthene	5.0 U	5.0 U	5.0 U	9.4				
2,4-Dinitrotoluene	5.0 U	5.0 U	5.0 U	5.0 U				
2,6-Dinitrotoluene	5.0 U	5.0 U	5.0 U	5.0 U				
Diethyl phthalate	5.0 U	5.0 U	5.0 U	5.0 U				
4-Chlorophenyl-phenyl-ether	5.0 U	5.0 U	5.0 U	5.0 U				
Fluorene	5.0 U	5.0 U	5.0 U	13				
1,2-Diphenylhydrazine	5.0 U	5.0 U	5.0 U	5.0 U				
N-Nitrosodiphenylamine	5.0 U	5.0 U	5.0 U	5.0 U				
4-Bromophenyl-phenylether	5.0 U	5.0 U	5.0 U	5.0 U				
Hexachlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U				
Phenanthrene	26	5.0 U	5.0 U	36				
Anthracene	5.0 U	5.0 U	5.0 U	10				
Di-n-butyl phthalate	5.0 U	5.0 U	5.0 U	5.0 U				
Benzidine	50 U	50 U	50 U	50 U				
Fluoranthene	38	5.0 U	5.0 U	27				
Pyrene	27	5.0 U	5.0 U	20				

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job Number: R92/04908 Date: DEC. 10 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Drive
Amherst, NY 14228

Sample(s) Reference

Atlas Project

Received : 11/10/92 P.O. #:

TCL BASE NEUTRALS BY EPA METHOD 8270* ANALYTICAL RESULTS - ug/l

Sample:	-002	-004	-005	-006				
Location:	ATL-SW1	ATL-MW1	ATL-MW2	ATL-MW3				
Date Collected:	11/10/92	11/10/92	11/10/92	11/10/92				
Time Collected:	10:45	11:30	12:15	12:45				
Date Extracted:	11/13/92	11/13/92	11/13/92	11/13/92				
Date Analyzed:	11/18/92	11/18/92	11/18/92	11/18/92				
Dilution:	1	1	1	1				
Butyl benzyl phthalate	5.6	5.0 U	5.0 U	5.0 U				
3,3'-Dichlorobenzidine	5.0 U	5.0 U	5.0 U	5.0 U				
Benzo(a)anthracene	15	5.0 U	5.0 U	11				
Bis(2-ethylhexyl)phthalate	5.0 U	9.5	7.7	8.1				
Chrysene	16	5.0 U	5.0 U	10				
Di-n-octyl phthalate	5.0 U	5.0 U	5.0 U	5.0 U				
Benzo(b)Fluoranthene	13	5.0 U	5.0 U	11				
Benzo(k)fluoranthene	15	5.0 U	5.0 U	8.0				
Benzo(a)pyrene	15	5.0 U	5.0 U	9.6				
Indeno(1,2,3-cd)pyrene	8.0	5.0 U	5.0 U	5.0 U				
Dibenzo(a,h)anthracene	5.0 U	5.0 U	5.0 U	5.0 U				
Benzo(g,h,i)perylene	8.3	5.0 U	5.0 U	5.0 U				
Benzyl Alcohol	5.0 U	5.0 U	5.0 U	5.0 U				
4-Chloroaniline	5.0 U	5.0 U	5.0 U	5.0 U				
2-Methyl Naphthalene	5.0 U	5.0 U	5.0 U	5.0 U				
2-Nitroaniline	5.0 U	5.0 U	5.0 U	5.0 U				
3-Nitroaniline	5.0 U	5.0 U	5.0 U	5.0 U				
Dibenzofuran	5.0 U	5.0 U	5.0 U	5.0 U				
4-Nitroaniline	5.0 U	5.0 U	5.0 U	5.0 U				
SURROGATE STANDARD RECOVERIES								
Nitrobenzene-d5	76	78	76	75				
(Acceptance Limits: 35-114%)								
2-Fluorobiphenyl	79	80	80	84				
(Acceptance Limits: 43-116%)								
Terphenyl-d14	77	70	70	70				
(Acceptance Limits: 33-141%)								

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145 NY ID# in Hackensack: 10801
NJ ID# in Rochester: 73331 NJ ID# in Hackensack: 02317

Michael K. Penn
Laboratory Director

General Testing Corporation

A Full Service Environmental Laborato

LABORATORY REPORT

Job No: R92/04908 Date: DEC. 10 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Drive
Amherst, NY 14228

Sample(s) Reference

Atlas Project

Received : 11/10/92 P.O. #:

TCL * BY GC METHOD 8080 ANALYTICAL RESULTS - ug/l

Sample:	-002	-004	-005	-006
Location:	ATL-SW1	ATL-MW1	ATL-MW2	ATL-MW3
Date Collected:	11/10/92	11/10/92	11/10/92	11/10/92
Time Collected:	10:45	11:30	12:15	12:45
Date Extracted:	11/16/92	11/16/92	11/16/92	11/16/92
Date Analyzed:	11/24/92	11/24/92	11/24/92	11/24/92
Dilution:	10	1	10	10
alpha-BHC	0.50 U	0.050 U	0.50 U	0.50 U
beta-BHC	0.50 U	0.050 U	0.50 U	0.50 U
gamma-BHC (Lindane)	0.50 U	0.050 U	0.50 U	0.50 U
Heptachlor	0.50 U	0.050 U	0.50 U	0.50 U
delta-BHC	0.50 U	0.050 U	0.50 U	0.50 U
Aldrin	0.50 U	0.050 U	0.50 U	0.50 U
Heptachlor epoxide	0.50 U	0.050 U	0.50 U	0.50 U
alpha-Endosulfan	0.50 U	0.050 U	0.50 U	0.50 U
4,4'-DDE	0.50 U	0.050 U	0.50 U	0.50 U
Dieldrin	0.50 U	0.050 U	0.50 U	0.50 U
Endrin	0.50 U	0.050 U	0.50 U	0.50 U
4,4'-TDE (DDD)	0.50 U	0.050 U	0.50 U	0.50 U
beta-Endosulfan	1.0 U	0.10 U	1.0 U	1.0 U
4,4'-DDT	1.0 U	0.10 U	1.0 U	1.0 U
Endrin Aldehyde	1.0 U	0.10 U	1.0 U	1.0 U
Endosulfan Sulfate	1.0 U	0.10 U	1.0 U	1.0 U
Methoxychlor	2.0 U	0.20 U	2.0 U	2.0 U
Endrin Ketone	1.0 U	0.10 U	1.0 U	1.0 U
Chlordane	2.0 U	0.20 U	2.0 U	2.0 U
Toxaphene	10 U	1.0 U	10 U	10 U
PCB 1016	5.0 U	0.50 U	5.0 U	5.0 U
PCB 1221	5.0 U	0.50 U	5.0 U	5.0 U
PCB 1232	5.0 U	0.50 U	5.0 U	5.0 U
PCB 1242	5.0 U	0.50 U	5.0 U	5.0 U
PCB 1248	5.0 U	0.50 U	5.0 U	5.0 U
PCB 1254	5.0 U	0.50 U	5.0 U	5.0 U
PCB 1260	5.0 U	0.50 U	5.0 U	5.0 U

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145 NY ID# in Hackensack: 10801

NJ ID# in Rochester: 73331 NJ ID# in Hackensack: 02317

General Testing Corporation

A Full Service Environmental Laborator

LABORATORY REPORT

Job No: R92/04908 Date: DEC. 10 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Drive
Amherst, NY 14228

Sample(s) Reference:
Atlas Project

Received : 11/10/92 P.O. #:

ANALYSIS * BY GC METHOD 8080 ANALYTICAL RESULTS - %

Sample:	-002	-004	-005	-006
Location:	ATL-SW1	ATL-MW1	ATL-MW2	ATL-MW3
Date Collected:	11/10/92	11/10/92	11/10/92	11/10/92
Time Collected:	10:45	11:30	12:15	12:45
SURROGATE STANDARD RECOVERY				
% Recovery				
Dibutylchlorendate (Acceptance Limits: 24-154%)	99	61	99	39
Tetrachloro-meta-xylene (Acceptance Limits: 60-150%)	70	56*	70	41*

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Heckensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratc

LABORATORY REPORT

Job No: R92/04908 Date: DEC. 10 1992

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Drive
Amherst, NY 14228

Sample(s) Reference

Atlas Project

Received : 11/10/92 P.O. #:

METALS - TAL

ANALYTICAL RESULTS - mg/l

Sample:	-002	-004	-005	-006				
Location:	ATL-SW1	ATL-MW1	ATL-MW2	ATL-MW3				
Date Collected:	11/10/92	11/10/92	11/10/92	11/10/92				
Time Collected:	10:45	11:30	12:15	12:45				
Cyanide, Total	0.010 U	0.010 U	0.010 U	0.010 U				
Aluminum	90.0	142	129	262				
Antimony	0.050 UN	0.050 UN	0.050 UN	0.050 UN				
Arsenic	0.130	0.052	0.0446	0.0469				
Barium	0.681	0.743	0.638	0.922				
Beryllium	0.0050 U	0.0050 U	0.0050 U	0.0050 U				
Cadmium	0.037	0.010 U	0.010 U	0.010 U				
Calcium	539	314	294	73.0				
Chromium	0.409	0.158	0.225	0.254				
Cobalt	0.0618	0.0589	0.0533	0.0759				
Copper	0.857	0.176	0.187	0.428				
Iron	177	142	153	364				
Lead, Furnace	1.53	0.134	0.323	0.312				
Magnesium	109	94.2	125	19.3				
Manganese	6.98	2.48	11.3	8.50				
Mercury	0.00137	0.00021	0.00034	0.00020 U				
Nickel	0.307	0.142	0.180	0.131				
Potassium	39.6 N	28.6 N	30.5 N	57.4 N				
Selenium	0.0075	0.0062	0.0050 U	0.0051				
Silver	0.012	0.010 U	0.010 U	0.010 U				
Sodium	73.6	11.0	92.4	92.3				
Thallium	0.050 U	0.050 U	0.050 U	0.050 U				
Vanadium	0.165	0.201	0.182	0.303				
Zinc	6.85	0.412	0.565	0.747				

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Michael K. Perr

Laboratory Directc

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R92/04908 Date: DEC. 10 1992

Sample(s) Reference:

Atlas Project

Client:
Mr. Rick Rall
Dunn Corporation
495 Commerce Drive
Amherst, NY 14228

Received : 11/10/92 P.O. #:

TCLP HERBICIDES-ANALYSIS BY GC METHOD 8150 *** ANALYTICAL RESULTS - ug/l

Sample:	-001		
Location:	ATL-WS1		
Date Collected:	11/10/92		
Time Collected:	10:20		
	BIASED	UNBIASED	% RECOVERY
Date Extracted:	11/19/92		
Date Analyzed:	11/23/92		
Dilution:	100		
2,4-D	50 U	50 U	100
2,4,5-TP (Silvex)	50 U	50 U	89
SURROGATE STANDARD RECOVERIES			
% Recovery			
2,4-DB (Acceptance Limits 18-152)	79		

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

*** TCLP Toxcity Characteristic Leaching Procedure.
Federal Register, Part 261, Vol.55, No. 126,
June 29, 1990

Data reported is biased on the above regulation.

Laboratory Director

APPENDIX A

Test Pit Logs

DUNN GEOSCIENCE CORPORATION
495 Commerce Drive | Amherst, New York 14150

TEST PIT / TRENCH LOG

Test Pit No.: TP-1
Sheet 1 of 1

Job No: 40093-00174
Date Started: 10-30-92
Date Finished: 10-30-92
Total Depth: 4.5'
Ground Elev.:
S.W.L.:
Container Size:
Analysis Request

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Graphic Log	Depth Scale	Material Description (include in order: MATERIAL TYPE, color, moisture, texture, bedding, moisture & minerals)	Remarks	Sample Number
		FILL; OK gray to black CINDERS & fine to coarse SAND	Water seeping in to open hole @ 3.5'.	
		- becomes brown, slag & bricks noted @ ± 1.0'	No elevated HNu readings were recorded during excavation.	
	2.0'	- becomes gray, cinders & slag noted @ ± 2.0'		
		(Damp to moist)		
		±3.5'		
		Brown SILT & CLAY, trace roots (moist)		
	4.0'	- little embedded rounded fine gravel noted		
		TEST PIT TERMINATED @ 4.5'		
	6.0'			
	8.0'			
	10.0'			

DUNN GEOSCIENCE CORPORATION
405 Commerce Drive | Amherst, New York 14150

TEST PIT / TRENCH LOG

Test Pit No.: TP-2
Sheet 1 of 1

Job No: 40093-00174
Date Started: 10-30-92
Date Finished: 10-30-92
Total Depth: 4.0'
Ground Elev.:
S.W.L.:
Container Size:

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Graphic Log	Depth Scale	Material Description (Include in order: MATERIAL TYPE, color, plasticity, texture, bedding, moisture & minerals)	Remarks	Sample Number	Analysis Request
		FILL: Dark gray to black fine to coarse SAND & fine GRAVEL & CINDERS (Damp to Moist)	No elevated HNu readings were recorded during excavation.		
		+1.5' - scrap metal noted			
	2.0'	Red-brown SILT & CLAY (Moist)			
		±2.5' - grades to red-brown to gray mottled SILT & CLAY, little embedded rounded coarse sand & fine gravel			
	4.0'	TEST PIT TERMINATED @ 4.0'			
	6.0'				
	8.0'				
	10.0'				

DUNN GEOSCIENCE CORPORATION
495 Commerce Drive | Amherst, New York 14150

TEST PIT / TRENCH LOG

Test Pit No.: TP-3
Sheet 1 of 1

Job No: 40093-00174
Date Started: 10-30-92
Date Finished: 10-30-92
Total Depth: 4.5'
Ground Elev.:
S.W.L.:
Container Size:

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Graphic Log	Depth Scale	Material Description (include in order: MATERIAL TYPE, color, plasticity, texture, bedding, moisture & odor/etc.)	Remarks	Sample Number	Analysis Request
		FILL: Dark brown to black fine to coarse SAND & CINDERS (Damp to Moist)	Sample was obtained @ 3.0'. (ATL-TP3-3').		TCL+TAL+CN
		±1.5' - becomes dark gray to black fine to medium SAND	No elevated HNU readings were recorded during excavation.		
	2.0'	- grades gray-brown, becomes wet @ ±3.0'			
		±3.5' Brown-gray SILT, Some Clay (Moist)			
	4.0'	- grades to red-brown SILT & CLAY			
		TEST PIT TERMINATED @ 4.5'			
	6.0'				
	8.0'				
	10.0'				

DUNN GEOSCIENCE CORPORATION
405 Commerce Drive | Amherst, New York 14150

TEST PIT / TRENCH LOG

Test Pit No.: TP-4
Sheet 1 of 1

Job No: 40093-00174
Date Started: 10-30-92
Date Finished: 10-30-92
Total Depth: 4.0'
Ground Elev.:
S.W.L.:
Container Size:

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Graphic Log	Depth Scale	Material Description (Include in order: MATERIAL TYPE, color, plasticity, texture, bedding, moisture & minerals)	Remarks	Sample Number	Analysis Request
		FILL: Dark gray fine to coarse SAND; cinders, slag & glass noted (Damp)	No elevated HNu readings were recorded during excavation.		
		±0.5' - brown-gray reworked SILT & CLAY			
	2.0'	±1.5' - black to orange fine to medium SAND; brick & slag noted (moist to wet)			
		±3.0'			
		Red-brown to light gray mottled SILT & CLAY (Moist)			
	4.0'	TEST PIT TERMINATED @ 4.0'			
	6.0'				
	8.0'				
	10.0'				

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TEST PIT / TRENCH LOG

Test Pit No.: TP5
Sheet 1 of 1

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Job No: 40093-00174
Date Started: 10-30-92
Date Finished: 10-30-92
Total Depth: 4.0'
Ground Elev.:
S.W.L.:
Container Size:

Graphic Log	Depth Scale	Material Description (Include in order: MATERIAL TYPE, color, plasticity, texture, bedding, moisture & odor)	Remarks	Sample Number	Analysis Request
		FILL: Dark gray to black fine to coarse SAND & GRAVEL; metal, slag, cinders & glass noted (Damp to moist)	No elevated HNU readings were recorded during excavation.		
	2.0'	- becomes brown, some Silt noted			
		~~3.0'~~ Red-brown SILT & CLAY (moist)			
	4.0'	TEST PIT TERMINATED @ 4.0'			
	6.0'				
	8.0'				
	10.0'				

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TEST PIT / TRENCH LOG

Test Pit No.: TP-6
Sheet 1 of 1

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Job No: 40093-00174
Date Started: 10-30-92
Date Finished: 10-30-92
Total Depth: 4.5'
Ground Elev.:
S.W.L.:
Container Size:

Graphic Log	Depth Scale	Material Description (include in order: MATERIAL TYPE, color, plasticity, texture, bedding, moisture & odor)	Remarks	Sample Number	Analysis Request
		FILL: Dark gray to black fine to medium SAND; cinders, bricks & glass noted (Damp to moist)	No elevated HNU reading were recorded during excavation.		
	2.0'	±2.5' wet, brown fine to medium SAND			
		~~±3.0'~~ Red-brown to gray varved SILT & CLAY (moist)			
	4.0'	TEST PIT TERMINATED @ 4.5'			
	6.0'				
	8.0'				
	10.0'				

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TEST PIT / TRENCH LOG

Test Pit No.: TP 7
Sheet 1 of 1

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Job No: 40093-00174
Date Started: 10-30-92
Date Finished: 10-30-92
Total Depth: 6.5'
Ground Elev.:
S.W.L.:
Container Size:

Graphic Log	Depth Scale	Material Description (include in order: MATERIAL TYPE, color, plasticity, texture, bedding, moisture & odor(s))	Remarks	Sample Number	Analysis Request
		FILL: Dk. gray to black fine to medium SAND; cinders & glass noted (Damp)	Water seeping into open hole from 4.5-6.0'.		TCL + TAL + CN
		- reworked brown SILT & CLAY noted (Moist)	Sample obtained from 5-6'. (ATL-TP7-5 6').		
	2.0'	- metal bars & bricks noted	No elevated HNU readings were recorded during excavation.		
	4.0'	- becomes wet @ ± 4.5'			
	6.0'	@6.0' Red-brown SILT & CLAY (Moist)			
		TEST PIT TERMINATED @ 6.5'			
	8.0'				
	10.0'				

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TEST PIT / TRENCH LOG

Test Pit No.: TP-8
Sheet 1 of 1

Job No: 40093-00174
Date Started: 10-30-92
Date Finished: 10-30-92
Total Depth: 4.5'
Ground Elev.:
S.W.L.:
Container Size:

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Graphic Log	Depth Scale	Material Description (Include in order: MATERIAL TYPE, color, plasticity, texture, bedding, moisture & minerals)	Remarks	Sample Number	Analysis Request
		FILL: Dark gray to black fine to medium SAND; bricks, metal frags & cinders noted (moist)	No elevated #No readings were recorded during excavation.		
		1.5'			
	2.0'	Red-brown SILT & CLAY (moist)			
		- little embedded rounded fine gravel noted			
	4.0'				
		TEST PIT TERMINATED @ 4.5'			
	6.0'				
	8.0'				
	10.0'				

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TEST PIT / TRENCH LOG

Test Pit No.: TP-8A
Sheet 1 of 1

Job No: 40093-00174
Date Started: 10-30-92
Date Finished: 10-30-92
Total Depth: 5.0'
Ground Elev.:
S.W.L.:
Container Size:

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Graphic Log	Depth Scale	Material Description (include in order: MATERIAL TYPE, color, plasticity, texture, bedding, moisture & odor/stain)	Remarks	Sample Number	Analysis Request
		FILL: Dk gray to black fine to coarse SAND; cinders, brick & glass noted (Damp).	No odors or staining noted.		
	2.0'		Test Pit was excavated in mounded area.		
	4.0'				
		±4.5' Brown SILT, Some Clay (Moist)			
		-grades red-brown SILT & CLAY			
	6.0'	TEST PIT TERMINATED @ 5.0'			
	8.0'				
	10.0'				

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TEST PIT / TRENCH LOG

Test Pit No.: TP-9
Sheet 1 of 1

Job No: 40093-00174
Date Started: 11-3-92
Date Finished: 11-3-92
Total Depth: 4.0'
Ground Elev.:
S.W.L.:
Container Size:

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Graphic Log	Depth Scale	Material Description (Include in order: MATERIAL TYPE, color, plasticity, texture, bedding, moisture & minerals)	Remarks	Sample Number	Analysis Request
		FILL: Brown SILT, Some Clay; bricks noted (moist)			
		- wood & concrete slabs noted @ ± 1.0'			
	2.0'	- becomes brown fine to medium SAND, Some fine to coarse Gravel, little silt (Moist)			
		±3.5' Red-brown SILT & CLAY (moist)			
	4.0'	TEST ATTERMINATED @ 4.0'			
	6.0'				
	8.0'				
	10.0'				

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TEST PIT / TRENCH LOG

Test Pit No.: TP-10
Sheet 1 of 1

Job No: 40093-00174
Date Started: 11-3-92
Date Finished: 11-3-92
Total Depth: 8.0'
Ground Elev.:
S.W.L.:
Container Size:

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Graphic Log	Depth Scale	Material Description (include in order: MATERIAL TYPE, color, plasticity, texture, bedding, moisture & odor)	Remarks	Sample Number	Analysis Request
		FILL: Brown fine to medium SAND, some fine to coarse Gravel; brick fragments & slag noted	Test pit was excavated within mounded area and was terminated at the base of the mound.		
	2.0'	- cobbles & concrete fragments noted			
		(Damp to Moist)	No elevated HNu readings were recorded.		
	4.0'				
	6.0'				
	8.0'	TEST PIT TERMINATED @ 8.0'			
	10.0'				

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TEST PIT / TRENCH LOG

Test Pit No.: TP-11
Sheet 1 of 1

Job No: 40093-00174
Date Started: 11-3-92
Date Finished: 11-3-92
Total Depth: 6.0'
Ground Elev.:
S.W.L.:
Container Size:

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Graphic Log	Depth Scale	Material Description (include in order: MATERIAL TYPE, color, plasticity, texture, bedding, moisture & odor/stain)	Remarks	Sample Number	Analysis Request
		FILL: Brown fine to medium SAND, some fine to coarse Gravel, little silt; concrete slabs & bricks noted (moist)	Water level @ 5.0' at completion of excavation.		
	2.0'		No odors or sheens noted during excavation.		
	4.0'	- water running into hole @ ± 4.5'	Sample was collected from 4-5' (ATL-TP11-4-5').		
		±5.5' Brown CLAY & SILT (moist)			
	6.0'	TEST PIT TERMINATED @ 6.0'			
	8.0'				
	10.0'				

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TEST PIT / TRENCH LOG

Test Pit No.: TP12
Sheet 1 of 1

Job No: 40093-00174
Date Started: 11-3-92
Date Finished: 11-3-92
Total Depth: 4.0'
Ground Elev.:
S.W.L.:
Container Size:

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Graphic Log	Depth Scale	Material Description (Include in order: MATERIAL TYPE, color, plasticity, texture, bedding, moisture & odor/stain)	Remarks	Sample Number	Analysis Request
		FILL: Brown fine to coarse SAND & GRAVEL; bricks, concrete & slag noted (moist)	Water level @ 2.5' at completion of test pit.		
	2.0'	- becomes gray-brown, wet @ ± 2.5'	No odors or sheens noted during excavation.		
		±3.0'			
	4.0'	Red-brown SILT & CLAY (moist)			
		TEST PIT TERMINATED @ 4.0'			
	6.0'				
	8.0'				
	10.0'				

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TEST PIT / TRENCH LOG

Test Pit No.: TP-13
Sheet 1 of 1

Job No: 40093-00174
Date Started: 11-3-92
Date Finished: 11-3-92
Total Depth: 3.5'
Ground Elev.:
S.W.L.:
Container Size:

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Graphic Log	Depth Scale	Material Description (include in order: MATERIAL TYPE, color, plasticity, texture, bedding, moisture & minerals)	Remarks	Sample Number	Analysis Request
		FILL; Brown fine to coarse SAND & GRAVEL; Wood & bricks noted (Wet)	No odors or sheens noted during excavation.		
	2.0'	±2.0' Red-brown CLAY & SILT (Moist)			
		TEST PIT TERMINATED @ 3.5'			
	4.0'				
	6.0'				
	8.0'				
	10.0'				

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TEST PIT / TRENCH LOG

Test Pit No.: TP-14
Sheet 1 of 1

Job No: 40093-00174
Date Started: 11-3-92
Date Finished: 11-3-92
Total Depth: 3.0'
Ground Elev.:
S.W.L.:
Container Size:

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Graphic Log	Depth Scale	Material Description (Include in order: MATERIAL TYPE, color, plasticity, texture, bedding, moisture & minerals)	Remarks	Sample Number	Analysis Request
		FILL: Brown fine to coarse SAND, Some fine to coarse Gravel, little silt (moist to wet)	Water seeping into open hole from 1-2'.		TCL + TAL + CN
	2.0'	±2.0' Gray-brown SILT & CLAY (Moist)	Sample collected from 1-2' (ATL-TP14-1-2').		
		TEST PIT TERMINATED @ 3.0'	No elevated HNu readings were recorded.		
	4.0'		No odors or sheens were observed.		
	6.0'				
	8.0'				
	10.0'				

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TEST PIT / TRENCH LOG

Test Pit No.: TP-15
Sheet 1 of 1

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Job No: 40093-00174
Date Started: 11-3-92
Date Finished: 11-3-92
Total Depth: 3.0'
Ground Elev.:
S.W.L.:
Container Size:

Graphic Log	Depth Scale	Material Description (Include in order: MATERIAL TYPE, color, plasticity, texture, bedding, moisture & odor/stain)	Remarks	Sample Number	Analysis Request
		FILL: Gray-brown fine to medium SAND, some fine Gravel (Moist)	Water seeping into open hole from 2.0-2.5'.		
	2.0'	- becomes wet @ ± 2.0'	No odors or sheens noted during excavation.		
		±2.5' Red-brown CLAY & SILT (Moist)			
		TEST PIT TERMINATED @ 3.0'			
	4.0'				
	6.0'				
	8.0'				
	10.0'				

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TEST PIT / TRENCH LOG

Test Pit No.: TP-16
Sheet 1 of 1

Job No: 40093-00174
Date Started: 11-3-92
Date Finished: 11-3-92
Total Depth: 3.0'
Ground Elev.:
S.W.L.:
Container Size:

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Graphic Log	Depth Scale	Material Description (include in order: MATERIAL TYPE, color, plasticity, texture, bedding, moisture & minerals)	Remarks	Sample Number	Analysis Request
		FILL: Brown fine to coarse SAND & GRAVEL, little silt; Cinders & Slag noted (Moist)	Water seeping into open hole from 1.5-2.0'.		
		- becomes wet @ ±1.5'	No odors or sheens were noted.		
	2.0'	±2.0' Gray-brown CLAY & SILT (Moist)			
		TEST PIT TERMINATED @ 3.0'			
	4.0'				
	6.0'				
	8.0'				
	10.0'				

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TEST PIT / TRENCH LOG

Test Pit No.: TP17
Sheet 1 of 1

Job No: 40093-00174
Date Started: 11-3-92
Date Finished: 11-3-92
Total Depth: 3.5'
Ground Elev.:
S.W.L.:
Container Size:

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Graphic Log	Depth Scale	Material Description (Include in order: MATERIAL TYPE, color, plasticity, texture, bedding, moisture & minerals)	Remarks	Sample Number	Analysis Request
		FILL: Gray-brown fine to coarse SAND & GRAVEL, little silt; bricks noted	No odors noted during excavation		
	2.0'	- becomes dark gray to black (moist to wet)			
		±2.5' Brown SILT & CLAY (moist)			
	4.0'	TEST PIT TERMINATED @ 3.5'			
	6.0'				
	8.0'				
	10.0'				

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TEST PIT / TRENCH LOG

Test Pit No.: TP-18
Sheet 1 of 1

Job No: 40093-00174
Date Started: 11-3-92
Date Finished: 11-3-92
Total Depth: 3.5'
Ground Elev.:
S.W.L.:
Container Size:

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Graphic Log	Depth Scale	Material Description (include in order: MATERIAL TYPE, color, grain size, texture, bedding, moisture & minerals)	Remarks	Sample Number	Analysis Request
		FILL: Gray fine to medium SAND, Some fine to coarse Gravel (Moist to Wet)	Water seeping into open hole @ 1.0'.		
	2.0'		No odors or sheens noted during excavation.		
		±2.5'			
		Gray-brown varved SILT & CLAY (Moist)			
		TEST PIT TERMINATED @ 3.5'			
	4.0'				
	6.0'				
	8.0'				
	10.0'				

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TEST PIT / TRENCH LOG

Test Pit No.: TP-19
Sheet 1 of 1

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Job No: 40093-00174
Date Started: 11-3-92
Date Finished: 11-3-92
Total Depth: 4.0'
Ground Elev.:
S.W.L.:
Container Size:

Graphic Log	Depth Scale	Material Description (Include in order: MATERIAL TYPE, color, plasticity, texture, bedding, moisture & miscellaneous)	Remarks	Sample Number	Analysis Request
		FILL: Gray-brown fine to medium SAND & GRAVEL; bricks & slag noted (Moist)	Water running into open hole @ 2.0 → 3.0'.		
	2.0'	- becomes wet @ ± 2.0'	No elevated HNu readings were recorded during excavation.		
		±3.0'			
		Gray-brown SILT & CLAY			
	4.0'	TEST PIT TERMINATED @ 4.0'			
	6.0'				
	8.0'				
	10.0'				

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TEST PIT / TRENCH LOG

Test Pit No.: TP-20
Sheet 1 of 1

Job No: 40093-00174
Date Started: 11-3-92
Date Finished: 11-3-92
Total Depth: 5.0'
Ground Elev.:
S.W.L.:
Container Size:

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Graphic Log	Depth Scale	Material Description (Include in order: MATERIAL TYPE, color, plasticity, texture, bedding, moisture & minerals)	Remarks	Sample Number	Analysis Request
		FILL: Brown fine to coarse SAND & GRAVEL; concrete slag & bricks noted	Sample was collected from 2-3'. (ATL-TP20-2-3').		TCL + TAL + CN
	2.0'	- becomes light gray @ ± 2.0'	No elevated HNU readings were recorded during excavation.		
		(Damp to Moist)			
	4.0'	±4.0' Gray-brown SILT, Some Clay			
		-grades to red-brown SILT & CLAY @ ± 4.5'			
		TEST PIT TERMINATED @ 5.0'			
	6.0'				
	8.0'				
	10.0'				

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TEST PIT / TRENCH LOG

Test Pit No.: TP-21
Sheet 1 of 1

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Job No: 40093-00174
Date Started: 11-3-92
Date Finished: 11-3-92
Total Depth: 4.0'
Ground Elev.:
S.W.L.:
Container Size:

Graphic Log	Depth Scale	Material Description (Include in order: MATERIAL TYPE, color, plasticity, texture, bedding, moisture & minerals)	Remarks	Sample Number	Analysis Request
		FILL: Gray-brown fine to medium SAND	Water seeping into hole @ 2.5 - 3.0'.		
		- wood from former railroad bed noted @ ± 1.0'	No elevated HNu readings were recorded.		
	2.0'	- wet, dark gray cinders noted @ ± 2.5'			
		±3.0' Gray-brown SILT & CLAY (Moist)			
	4.0'	TEST PIT TERMINATED @ 4.0'			
	6.0'				
	8.0'				
	10.0'				

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TEST PIT / TRENCH LOG

Test Pit No.: TP-22
Sheet 1 of 1

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Job No: 40093-00174
Date Started: 11-3-92
Date Finished: 11-3-92
Total Depth: 4.0'
Ground Elev.:
S.W.L.:
Container Size:

Graphic Log	Depth Scale	Material Description (include in order: MATERIAL TYPE, color, plasticity, texture, bedding, moisture & minerals)	Remarks	Sample Number	Analysis Request
		FILL: Brown fine to medium SAND, little silt; Bricks, wood & metal debris noted	Water seeping into hole from 2.5-3.0'. Sample was collected from 2.0→3.0' interval. (ATL-TP22-2-3'). No elevated HNU readings were recorded.		TCL + TAL + CN⁻
	2.0'	±2.5' - becomes wet; dark gray to black CINDERS			
		~3.0' Gray SILT, Some Clay (Moist) - grades to reddish-brown SILT & CLAY			
	4.0'	TEST PIT TERMINATED @ 4.0'			
	6.0'				
	8.0'				
	10.0'				

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TEST PIT / TRENCH LOG

Test Pit No.: TP23
Sheet 1 of 1

Job No: 40093-00174
Date Started: 11-3-92
Date Finished: 11-3-92
Total Depth: 2.0'
Ground Elev.:
S.W.L.:
Container Size:

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Graphic Log	Depth Scale	Material Description (include in order: MATERIAL TYPE, color, plasticity, texture, bedding, moisture & miscella	Remarks	Sample Number	Analysis Request
		FILL: Gray-brown fine to coarse SAND & GRAVEL; metal debris, Wood & Concrete noted	No elevated HNU readings were recorded.		
	2.0'	Concrete Slabs @ ± 2.0'			
		TEST PIT TERMINATED @ 2.0'			
	4.0'				
	6.0'				
	8.0'				
	10.0'				

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TEST PIT TRENCH LOG

Test Pit No.: TP-24
Sheet 1 of 1

Job No: 40093-00174
Date Started: 11-3-92
Date Finished: 11-3-92
Total Depth: 4.0'
Ground Elev.:
S.W.L.:
Container Size:

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Graphic Log	Depth Scale	Material Description (include in order: MATERIAL TYPE, color, gradation, texture, bedding, moisture & minerals)	Remarks	Sample Number	Analysis Request
		FILL: Brown fine to coarse Sand & Gravel; Cinders & Slag noted - becomes gray @ 0.5-1.0'	Sample collected from 1-2' (ATL-TP24-1-2'). No elevated HNU readings recorded.		TCL + TAL + CN
	2.0'	- bricks, some Silt & Clay noted @ ± 1.5'; iron staining			
		±3.0'			
		Gray-brown SILT, Some Clay - grades to brown CLAY & SILT (moist)			
	4.0'	TEST PIT TERMINATED @ 4.0'			
	6.0'				
	8.0'				
	10.0'				

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TEST PIT / TRENCH LOG

Test Pit No.: TP-25
Sheet 1 of 1

Job No: 40093-00174
Date Started: 11-3-92
Date Finished: 11-3-92
Total Depth: 3.5'
Ground Elev.:
S.W.L.:
Container Size:

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Graphic Log	Depth Scale	Material Description (include in order: MATERIAL TYPE, color, plasticity, texture, bedding, moisture & minerals)	Remarks	Sample Number	Analysis Request
		FILL: Wood, bricks, brown Sand + Gravel - becomes red-brown fine to medium Sand (wet)	Water running into hole @ 1.0' No elevated HNu readings were recorded.		
	2.0'	±2.0' Brown SILT, Some Clay (Moist) - grades to brown CLAY + SILT @ ± 2.5'			
	4.0'	TEST PIT TERMINATED @ 3.5'			
	6.0'				
	8.0'				
	10.0'				

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TEST PIT / TRENCH LOG

Test Pit No.: TP26
Sheet 1 of 1

Job No: 40093-00174
Date Started: 11-3-92
Date Finished: 11-3-92
Total Depth: 1.0'
Ground Elev.:
S.W.L.:
Container Size:

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Graphic Log	Depth Scale	Material Description (include in order: MATERIAL TYPE, color, hardness, texture, bedding, moisture & minerals)	Remarks	Sample Number	Analysis Request
		FILL: Bricks, wood & metal debris to 1.0' - Concrete Slab @ 1.0'			
		TEST PIT TERMINATED @ 1.0'			
	2.0'				
	4.0'				
	6.0'				
	8.0'				
	10.0'				

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TEST PIT / TRENCH LOG

Test Pit No.: TP27
Sheet 1 of 1

Job No: 40093-00174
Date Started: 11-3-92
Date Finished: 11-3-92
Total Depth: 4.0'
Ground Elev.:
S.W.L.:
Container Size:

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Graphic Log	Depth Scale	Material Description (include in order: MATERIAL TYPE, color, plasticity, texture, bedding, moisture & minerals)	Remarks	Sample Number	Analysis Request
		FILL: Bricks, metal fragments, concrete + slag (Damp to Moist)	Sample collected from 2-3'. (ATL-TP27-2-3')		TCL+TAL+CN
		- becomes dark gray to brown fine to medium SAND @ ±1.5' (moist to wet)	No elevated HNu readings were recorded.		
	2.0'	- metal plates & concrete slabs @ ±2.0'			
		±3.5' Brown-red to gray mottled SILT, Some Clay (moist)			
	4.0'	TEST PIT TERMINATED @ 4.0'			
	6.0'				
	8.0'				
	10.0'				

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TEST PIT / TRENCH LOG

Test Pit No.: TP-28
Sheet 1 of 1

Job No: 40093-00174
Date Started: 11-3-92
Date Finished: 11-3-92
Total Depth: 1.5'
Ground Elev.:
S.W.L.:
Container Size:

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Graphic Log	Depth Scale	Material Description (include in order: MATERIAL TYPE, color, consistency, texture, bedding, moisture & minerals)	Remarks	Sample Number	Analysis Request
		FILL: Wood & bricks			
		- Concrete Slab @ ± 1.5'			
	2.0'	TEST PIT TERMINATED @ 1.5'			
	4.0'				
	6.0'				
	8.0'				
	10.0'				

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TEST PIT / TRENCH LOG

Test Pit No.: TP29
Sheet 1 of 1

Job No: 40093-00174
Date Started: 11-2-92
Date Finished: 11-2-92
Total Depth: 7.0'
Ground Elev.:
S.W.L.:
Container Size:

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Graphic Log	Depth Scale	Material Description (Include in order: MATERIAL TYPE, color, plasticity, texture, bedding, moisture & minerals)	Remarks	Sample Number	Analysis Request
		FILL: Tan-brown fine SAND; concrete blocks & bricks noted (Damp)	Water seeping into open hole from 5.0-6.0'.		
		- metal beam & wiring noted	No odors or sheens were noted during excavation.		
	2.0'				
		- reworked red-brown SILT & CLAY noted @ 2.5-3.0'			
		±3.0' - becomes gray fine to medium SAND, little silt (Moist to wet)			
	4.0'				
	6.0'	6.0' Gray-brown SILT & CLAY (Moist)			
		TEST PIT TERMINATED @ 7.0'			
	8.0'				
	10.0'				

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TEST PIT / TRENCH LOG

Test Pit No.: TP-30
Sheet 1 of 1

Job No: 40093-00174
Date Started: 11-2-92
Date Finished: 11-2-92
Total Depth: 2.0'
Ground Elev.:
S.W.L.:
Container Size:

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Graphic Log	Depth Scale	Material Description (include in order: MATERIAL TYPE, color, plasticity, texture, bedding, moisture & minerals)	Remarks	Sample Number	Analysis Request
		FILL: Tan fine SAND - (Damp)			
	2.0'	Concrete Slab (foundation) @ 2.0'			
		TEST PIT TERMINATED @ 2.0'			
	4.0'				
	6.0'				
	8.0'				
	10.0'				

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TEST PIT / TRENCH LOG

Test Pit No.: TP-31
Sheet 1 of 1

Job No: 40093-00174
Date Started: 11-2-92
Date Finished: 11-2-92
Total Depth: 4.5'
Ground Elev.:
S.W.L.:
Container Size:

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Graphic Log	Depth Scale	Material Description (include in order: MATERIAL TYPE, color, plasticity, texture, bedding, moisture & odor/stain)	Remarks	Sample Number	Analysis Request
		FILL: Brown fine to coarse SAND & GRAVEL; bricks, cinders & slag noted (Damp to Moist)			
	2.0'				
		- becomes gray fine to medium SAND, Some Gravel; Slag - Slight petroleum odor noted (Moist to Wet)			
	4.0'	@4.0' Brown SILT & CLAY (Moist)			
		TEST PIT TERMINATED @ 4.5'			
	6.0'				
	8.0'				
	10.0'				

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TEST PIT / TRENCH LOG

Test Pit No.: TP-32
Sheet 1 of 1

Job No: 40093-00174
Date Started: 11-2-92
Date Finished: 11-2-92
Total Depth: 5.0'
Ground Elev.:
S.W.L.:
Container Size:

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Graphic Log	Depth Scale	Material Description (include in order: MATERIAL TYPE, color, plasticity, texture, bedding, moisture & inhomogeneities)	Remarks	Sample Number	Analysis Request
		FILL: Brown fine to coarse SAND & GRAVEL; Cinders, Slag & Bricks noted			
	2.0'				
		- becomes gray @ ± 3.0'			
	4.0'	±4.0' - water pouring in to hole with heavy sheen & petroleum odor noted			
		TEST PIT TERMINATED @ 5.0'			
	6.0'				
	8.0'				
	10.0'				

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TEST PIT / TRENCH LOG

Test Pit No.: TP-33
Sheet 1 of 1

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Job No: 40093-00174
Date Started: 10-30-92
Date Finished: 10-30-92
Total Depth: 7.0'
Ground Elev.:
S.W.L.:
Container Size:

Graphic Log	Depth Scale	Material Description (Include in order: MATERIAL TYPE, color, plasticity, texture, bedding, moisture & odor)	Remarks	Sample Number	Analysis Request
		FILL: Brown fine SAND, bricks (Ramp)	Water level @ 5.0' upon completion of excavation.		TCL + TAL + CN
		- becomes brown fine to coarse SAND, little silt; bricks, slag & cinders noted	HNU readings ranged from 5 ppm to 20 ppm during excavation from 4.0-7.0'.		
	2.0'	±2.0' - becomes dark gray - petroleum odor noted (moist to wet)	Sample was obtained from 4-6' (ATL-TP33-4-6').		
	4.0'	±4.0' - becomes dark gray to black - dark water with heavy sheen & petroleum odor running into hole from 4.0-6.0'.			
	6.0'				
		TEST PIT TERMINATED @ 7.0'			
	8.0'				
	10.0'				

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TEST PIT / TRENCH LOG

Test Pit No.: TP35
Sheet 1 of 1

Job No: 40093-00174
Date Started: 11-2-92
Date Finished: 11-2-92
Total Depth: 4.0'
Ground Elev.:
S.W.L.:
Container Size:

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Graphic Log	Depth Scale	Material Description (include in order: MATERIAL TYPE, color, plasticity, texture, bedding, moisture & minerals)	Remarks	Sample Number	Analysis Request
		FILL: Brown fine to coarse SAND & GRAVEL, little silt; cinders & slag noted	Water seeping in to hole from below wood planks. No odors or sheens noted.		
		±1.0' - Wood planks noted			
	2.0'	±1.5' - Gray-brown fine to medium SAND, some fine Gravel & Cinders			
		±4.0' Concrete Slab			
	4.0'	TEST PIT TERMINATED @ 4.0'			
	6.0'				
	8.0'				
	10.0'				

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TEST PIT / TRENCH LOG

Test Pit No.: TP-36
Sheet 1 of 1

Job No: 40093-00174
Date Started: 11-2-92
Date Finished: 11-2-92
Total Depth: 4.0'
Ground Elev.:
S.W.L.:
Container Size:

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Graphic Log	Depth Scale	Material Description (Include in order: MATERIAL TYPE, color, plasticity, texture, bedding, moisture & minerals)	Remarks	Sample Number	Analysis Request
		FILL: Brown fine to coarse SAND, Some Silt; metal debris, slag, cinders & bricks noted (Damp to Moist)	No odors or staining noted during excavation.		
	2.0'				
	±3.0'	Red-brown varved CLAY & SILT (Moist)			
	4.0'	TEST PIT TERMINATED @ 4.0'			
	6.0'				
	8.0'				
	10.0'				

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TEST PIT / TRENCH LOG

Test Pit No.: TP-37
Sheet 1 of 1

Job No: 40093-00174
Date Started: 11-2-92
Date Finished: 11-2-92
Total Depth: 4.5'
Ground Elev.:
S.W.L.:
Container Size:

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Graphic Log	Depth Scale	Material Description (include in order: MATERIAL TYPE, color, plasticity, texture, bedding, moisture & odor)	Remarks	Sample Number	Analysis Request
		FILL: Brown fine to coarse SAND & GRAVEL; bricks, concrete & metal piping noted (Damp)	Sample obtained from 3-4'. (ATL-TP37-3-4')		TCL + TAL + CN
	2.0'	- becomes gray @ ±3.0', wood fragment noted - sweet, pine odor noted (Moist)			
	4.0'	- metal piping & concrete noted @ ±4.5'			
		TEST PIT TERMINATED @ 4.5'			
	6.0'				
	8.0'				
	10.0'				

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TEST PIT / TRENCH LOG

Test Pit No.: TP-38
Sheet 1 of 1

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Job No: 40093-00174
Date Started: 10-30-92
Date Finished: 10-30-92
Total Depth: 5.0'
Ground Elev.:
S.W.L.:
Container Size:

Graphic Log	Depth Scale	Material Description (Include in order: MATERIAL TYPE, color, plasticity, texture, bedding, moisture & minerals)	Remarks	Sample Number	Analysis Request
		FILL: Brown fine to coarse SAND; bricks, wood & metal piping noted (Damp)			
		-becomes gray, cinders & slag noted (Moist)			
	2.0'				
		-becomes wet @ ±3.5'			
	4.0'	±4.0'			
		Red-brown SILT & CLAY (Moist)			
		TEST PIT TERMINATED @ 5.0'			
	6.0'				
	8.0'				
	10.0'				

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TEST PIT / TRENCH LOG

Test Pit No.: TP-39
Sheet 1 of 1

Job No: 40093-00174
Date Started: 10-30-92
Date Finished: 10-30-92
Total Depth: 6.0'
Ground Elev.:
S.W.L.:
Container Size:

Project: Atlas Steel Site
Client: Benderson Development Co.
Purpose: Phase II - Environmental Site Assessment
Site Location: Elmwood Ave - Buffalo, N.Y.
Sampling Point Location:

Excavation Contractor: Advanced Drilling Investigations
Operator Name: —
Inspector: Joel Taft
General Description :
Sample Equipment Used:
No. of Samples

Graphic Log	Depth Scale	Material Description (include in order: MATERIAL TYPE, color, plasticity, texture, bedding, moisture & minerals)	Remarks	Sample Number	Analysis Request
		FILL: BRICKS, METAL, Some fine to coarse Sand (moist to Damp)	No elevated HNU readings were recorded during excavation.		
		±1.5' - becomes brown fine to coarse Sand; slag, cinders noted, tar			
	2.0'	±3.5'			
		Gray-brown SILT, Some Clay, trace roots - decaying organic odor noted (Moist)			
	4.0'	- grades to red-brown to gray mottled SILT & CLAY (Moist)			
	6.0'	TEST PIT TERMINATED @ 6.0'			
	8.0'				
	10.0'				