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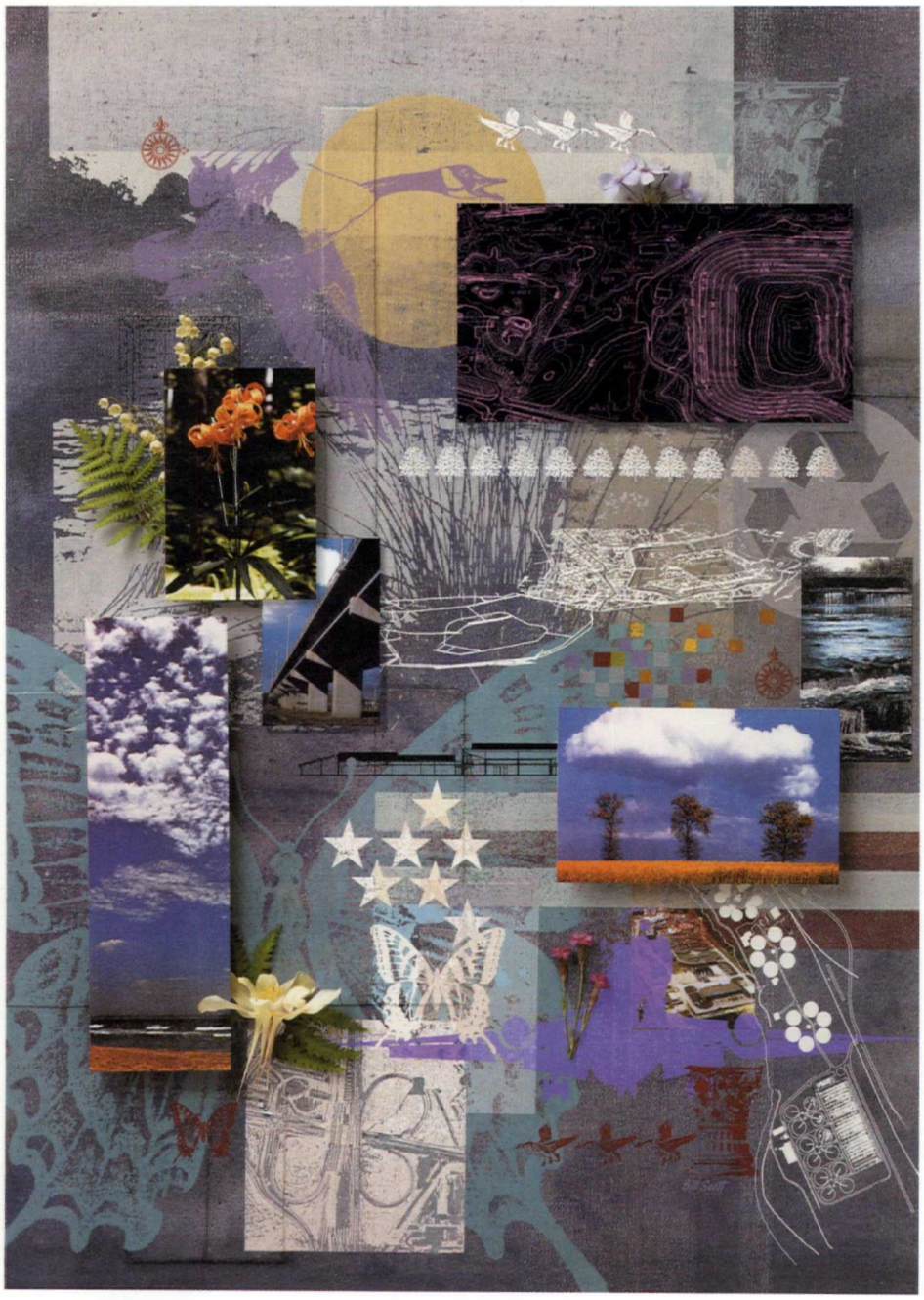

PRELIMINARY SUBSURFACE INVESTIGATION B.C.F. OIL REFINING FACILITY

Prepared for:

B.C.F. Oil Refining, Inc.
360 Maspeth Avenue
Brooklyn, New York 11211

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June, 1998

Quality through teamwork

Rust Environment & Infrastructure

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1.0 INTRODUCTION

1.1 Background

The B.C.F. Oil Refining Facility occupies an approximately 1.85 acre site on the north bank of the Newtown Creek in Brooklyn, New York (Figure 1). When it was in active operation, the Facility processed various waste oils, tank bottoms and oily water mixtures to produce a fuel oil that was sold for use in commercial boilers. It is bordered on the south by the Newtown Creek, on the east by a gasoline and fuel oil distribution terminal, on the north by Maspeth Avenue and then the Brooklyn Union Gas Company, and on the west by light manufacturing and industrial supply facilities.

Based on historical Sanborn Map Company fire insurance maps, the majority of the site was created sometime after 1907 by filling an embayment on the shore of the Newtown Creek. By 1933 the site was occupied by a petroleum distribution terminal. In approximately 1980 the terminal was modified for use as a waste oil processing facility. The Facility was sold to its current owner in 1985.

The principle features of the Facility (Figure 2) consist of:

1) ten 20,000 gallon heated, steel underground tanks (nos. 1-10) used for oil/water separation and temporary storage, processing and blending of waste materials;

2) a 150,000 gallon heated, steel underground tank, divided into two chambers (tank nos. 15 and 16), used for heating waste materials and separation of solids and water;

3) a two-story, masonry structure housing vibratory screening equipment for filtering solids;

4) a tank-farm, consisting of four heated, 110,000 gallon vertical aboveground tanks (nos. 11, 12, 14, 17) within a concrete secondary containment dike, used for storage of finished product;

5) a loading rack located on Maspeth Avenue for dispensing product to fuel distributors; and

6) single-story masonry structures housing offices, a testing laboratory, and steam generating boilers for heating the tanks.

During operation, incoming waste materials were first tested to determine that they met the requirements of the Facility's Part 360 Permit, which prohibited the intake of regulated hazardous wastes or materials containing polychlorinated biphenyl compounds (PCBs). After testing, the incoming materials were off-loaded into one of several underground tanks for processing. The materials were heated to induce separation of water and solids, filtered in the screen house, and blended to create a fuel oil similar in performance characteristics to a Number 6 Fuel Oil.

In addition to testing of incoming waste materials, B.C.F. also conducted weekly testing of its finished product to insure that it did not contain PCBs or unpermitted levels of halogenated solvents.

Under its SPDES permit, B.C.F. was permitted to discharge water through its oil/water separator into Newtown Creek. Accordingly, B.C.F.'s customers sometimes delivered oily water to be processed and appropriately disposed of.

In April of 1994, the contents of B.C.F.'s tanks were inadvertently contaminated by PCBs. Records maintained by BCF and subsequent chemical testing indicate that the contamination was probably caused by a single delivery of un-tested, oily water that contained an unnoticed quantity of PCB transformer oil. The contamination was discovered in the course of BCF's weekly testing of its processed oil. By the time the PCB discovery was confirmed and operations ceased, the contamination had been circulated into most of the underground and aboveground tanks. The facility has been closed since that time, maintaining only a minimal work force for security and maintenance of the premises.

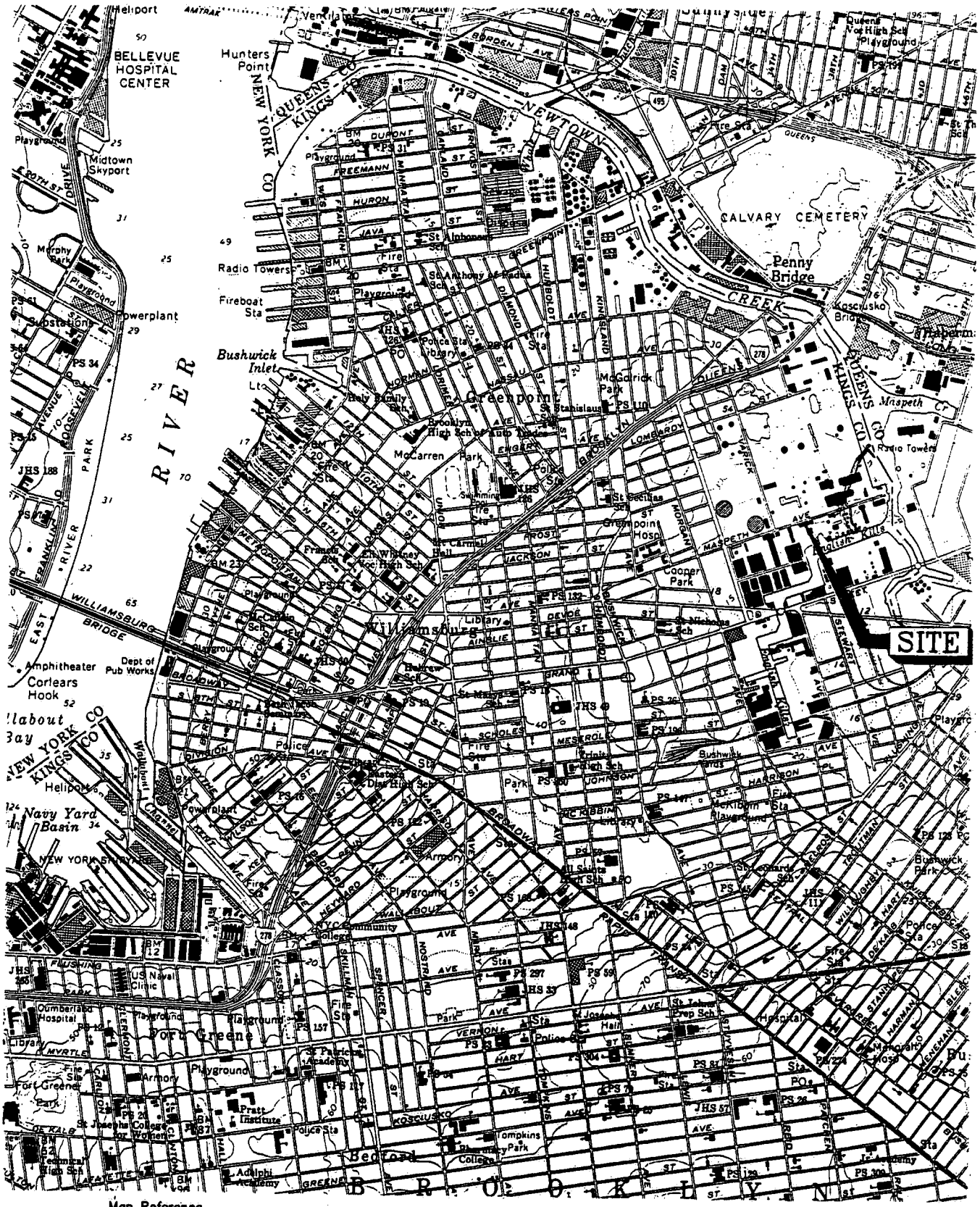
After the facility closed, Rust Environment & Infrastructure conducted several series of tests on the contents of BCF's tanks to determine the chemical identity of the contamination. The testing revealed the presence of PCBs in all but two of the tanks (nos. 9, 10) at concentrations ranging from 1 to 520 ppm. Only two Aroclors, 1242 and 1260, were identified. These particular Aroclors are two of the three Aroclors that were typically used in the formulation of PCB transformer dielectric fluid before its manufacture was prohibited under TSCA.

Rust also performed volatile and semivolatile analyses of the oil in one of the finished product tanks that contained the highest concentration of PCBs. This testing reveled the presence of two isomers of trichlorobenzene, a compound formerly used in conjunction with PCBs in formulating dielectric fluid. Also present at concentrations ranging from 1 to 61 ppm were isomers of dichlorobenzene and a number of halogenated solvents, including trichloroethylene, tetrachloroethylene, 1,1,1-trichloroethane, dichlorodifluoromethane, and trichlorofluoromethane.

1.2 Study Objectives

The purpose of this investigation was to preliminarily characterize the nature of any subsurface soil and groundwater contamination that could have resulted from the long history of industrial use of the subject property or from releases of contaminants on adjoining properties. Such potential contamination could include petroleum hydrocarbon compounds found in the petroleum products stored at the site when it was a fuel terminal and in the waste oil processed there in recent history. The potential contamination might also include non-petroleum constituents that have been identified in the waste oil in the BCF tanks, including the aforementioned PCBs, chlorobenzene compounds, and halogenated solvents.

The study focused on the sampling of soil at locations that were accessible to a drilling rig and adjacent to oil processing and storage areas. Groundwater samples were collected from monitoring wells that were installed prior to 1993 as a condition of the Facility's Major Petroleum Facility License.



Map Reference
NYSDOT 7.5 minute series
Brooklyn Quadrangle, Rev. 1975

Figure 1 – Location Map

RUST

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B.C.F. OIL REFINING FACILITY
360 MASPETH AVENUE
BROOKLYN, NEW YORK 11211

JUNE 1998

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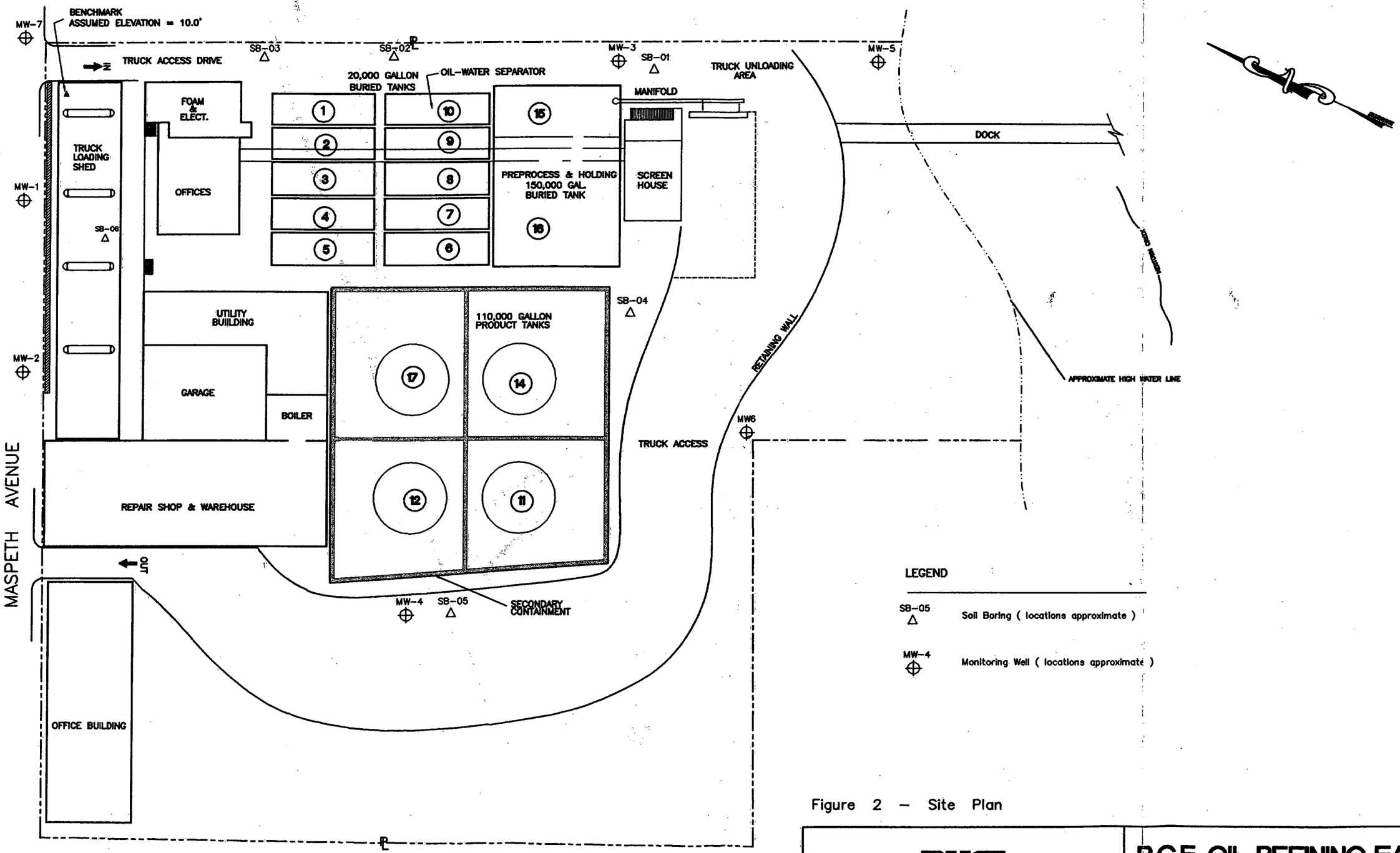

Figure 2 – Site Plan

RUST

Rust Environment & Infrastructure Inc.

B.C.F. OIL REFINING FACILITY

BROOKLYN, NEW YORK

DATE: JUNE, 1998
PROJECT NO. 38808

38808-Fig 2 June 2, 1998

2.0 METHODS OF INVESTIGATION

This section describes the methods and materials used in conducting this investigation. Locations of soil borings and monitoring wells are shown on Figure 2.

2.1 Soil Sampling

Soil samples were collected from six soil boring locations using a direct-push (Geoprobe) rig and a MacroCore sampler. This sampler is an open tube design and measures approximately 2" in diameter by 48" long. The sampler is fitted with a removable cutting shoe and a clear, disposable acetate liner which contains the soil core. Samples were collected at intervals from 0' to 4', 4' to 8', 8' to 12' and 12' to 16' below grade. All reusable down-hole equipment was decontaminated before each boring by washing in tap water and Liquinox detergent, and then rinsing first with tap water and then with deionized water.

Boring Locations

An initial boring was attempted southeast of the screen house, approximately 50 feet from the shoreline. The presence of buried concrete rubble in this location prevented completion of this boring. An employee of BCF stated that the land between the screen house and the shoreline was created entirely from pavement rubble imported during the 1970s for the purpose of expanding the usable area of the site.

Boring SB-01 was located as close as practicable to the shoreline, near the southeast corner of the 150,000 gallon underground process tank (nos. 15, 16).

Borings SB-02 and SB-03 were located in the driveway along the east side of the Facility, adjacent to the 20,000 gallon process tanks.

Boring SB-04 was located near the southeast corner of the finished product tank farm, adjacent to the pipelines extending from the tank farm to the dock.

Boring SB-05 was located adjacent to the west wall of the tank farm's secondary containment dike.

Boring SB-06 was located beneath the truck loading racks, adjacent to the loading dock.

Soil Screening and Sampling

Upon retrieval of each core sample, the acetate sleeve containing the soil was removed from the MacroCore and the ends of the sleeve were capped to contain the soil. The sleeve was brought to the BCF office for inspection. Prior to opening the sleeve, the contents were screened with a Photoionization Detector (PID) for the presence of volatile organic compounds (VOCs). The screening was accomplished by puncturing the acetate sleeve at approximate 1 foot intervals, inserting the tip of the PID into the sleeve, and recording the maximum VOC concentration. After

screening, the acetate sleeve was opened by slitting it longitudinally. The inspector recorded the length of the recovered soil core, the texture of the soil, and noted the presence of visual and olfactory evidence of contamination.

In each boring a sample consisting of the 1 foot interval at the interface between the saturated and unsaturated zone was submitted for laboratory analysis. This zone was selected because it is where liquid hydrocarbon (LHC) would be most likely to accumulate. In one boring (SB-02), an additional sample was submitted from a shallow interval that evidenced higher levels of contamination in the form of elevated PID readings. In boring SB-05, an additional sample was submitted from an interval in the saturated zone that contained entrained LHC. Samples were placed in laboratory supplied containers, placed on ice in coolers, and shipped under chain of custody to Phoenix Environmental Laboratories, Manchester, Connecticut.

Requested analyses consisted of Volatile Organic Compounds (VOCs) by USEPA SW-846 Method 8021 (full parameter list), Polynuclear Aromatic Hydrocarbons (PAHs) by USEPA SW-846 Method 8270 (NYSDEC STARS parameters only), and PCBs by USEPA SW-846 Method 8082.

2.2 Water Levels and Liquid Hydrocarbon Gauging

The riser elevations of the seven on-site monitoring wells were surveyed to enable comparison of water elevations between wells. The existence of an eighth well (MW-8), reportedly located on the opposite side of Maspeth Avenue, was not known to Rust at the time of the this field investigation. A benchmark on the east end of the concrete pad under the loading rack was assigned an arbitrary elevation of 10.0 feet. Each PVC well riser was surveyed relative to this benchmark.

The depth to water or LHC was measured using an ORS, Inc. petroleum interface probe. The presence of any petroleum product sheen or film floating on top of the water in the well was noted. The total depth of the well was also measured.

2.3 Groundwater Sampling

Groundwater samples were collected for analysis from monitoring wells MW-4, MW-5 and MW-7. Prior to collecting the sample from each well, the well was purged of three well volumes of water by bailing with a dedicated, disposable polyethylene bottom-loading bailer connected to nylon line. The purge water was collected in five gallon pails and transferred to Tank Number 2.

After purging, groundwater samples were collected with the same bailer used for purging. No petroleum product or other materials that could significantly affect the chemical composition of the groundwater samples were noted on the bailers. Two VOA vials and three one-liter bottles were filled using a spigot placed in the check valve at the bottom of the bailer. Samples were placed on ice in a cooler and submitted to Phoenix Environmental Laboratories, Manchester, Connecticut.

Requested analyses consisted of Volatile Organic Compounds (VOCs) by USEPA SW-846 Method 8021 (full parameter list), PAHs by USEPA SW-846 Method 8270 (NYSDEC STARS parameters only), and PCBs by USEPA SW-846 Method 8082.

A sample of LHC was collected from MW-1 using a dedicated, disposable polyethylene bottom-loading bailer connected to nylon line. The well was not purged before prior to collecting this sample. The sample was placed in a single VOA vial, placed on ice in a cooler and submitted to Phoenix Environmental Laboratories for PCB analysis by SW-846 Method 8082.

3.0 RESULTS

This section presents the results of the soil and groundwater sampling and analysis, and the water level measurement data.

3.1 Soil Characteristics and Analytical Results

A detailed record of the soil characteristics and related observations for each soil boring is presented in the boring logs contained in Appendix A. In general, the borings encountered an upper fill layer consisting of a variable mixture of fine to medium sand, fine to medium gravel, ash, slag and bricks. Below this fill layer was a zone of sand and clayey, sandy silt. The top of this zone was generally shallower in the interior of the site (SB-02, SB-03) than near the Newtown Creek (SB-01). The saturated zone was generally encountered about 6 to 8 feet below surface.

Visual and olfactory evidence of petroleum contamination was observed in each boring. These observations were confirmed by the laboratory analytical results, which are summarized in Table 1. No halogenated volatile organic compounds were detected in any boring. The specific details of the contamination encountered in each boring are discussed below:

<u>SB-01</u>

Relatively low PID readings (0-38 ppm) and no visible contamination characterized the interval from surface to the saturated zone at approximately 11 feet. At this depth a light sheen was noted. Below the top of the saturated zone, PID readings increased to 221 - 1142 ppm, with heavy petroleum odors and visible LHC.

No VOCs were detected in the soil sample from 11-12 feet. Methyl Tert-Butyl Ether (MTBE), a common unleaded gasoline additive, was detected below the practical quantitation limit (PQL) of 20 ppb. A total of seven PAH compounds were detected at 450-590 ppb. No PCB Aroclors were detected.

<u>SB-02</u>

Elevated PID readings (728-1046 ppm) were encountered approximately 2-3 feet below surface. A sample of this interval was submitted for Method 8021 analysis only. A range of volatile petroleum-derived constituents were identified at concentrations ranging from 25-190 ppb; no halogenated compounds (solvents) were detected.

Table 1
BCF Oil Refining
Soil/Groundwater/Product Results

	SB-01 11-12'	SB-02 2-3'	SB-02 6-7'	SB-03 6-7'	SB-04 6-7'	SB-05 6-7'	SB-05 12-13'	SB-06 6-9'	MW-1 OIL	MW-4 WATER	MW-5 WATER	MW-7 WATER
Volatiles (SW-846 8021)												
1,2,4-trimethylbenzene	<5	65	<500	<1300	<25	400	350	<1000		<5	200	33
1,3,5-trimethylbenzene	<5	43	<500	8400	<25	<250	<250	<1000		<5	110	<10
Benzene	<5	25	<500	<1300	<25	<250	<250	<1000		37	1200	540
Ethylbenzene	<5	61	<500	<1300	<25	<250	<250	<1000		<5	230	180
Isopropylbenzene	<5	93	1300	7200	<25	<250	<250	9000		10	80	150
n-Butylbenzene	<5	33	4400	21000	<25	1200	590	16000		<5	<50	<10
n-Propylbenzene	<5	180	4800	31000	<25	<250	<250	28000		12	240	70
Napthalene	<5	46	570	18000	26	930	<250	2700		<5	<50	200
o- Xylene	<5	34	<500	<1300	<25	<250	<250	<1000		<5	<50	26
p&m- Xylene	<5	190	640	3000	<25	<250	<250	<1000		9	220	20
p-Isopropyltoluene	<5	<25	<500	2800	<25	<250	<250	1700		<5	<50	<10
sec-Butylbenzene	<5	<25	1800	5700	38	420	<250	6300		<5	<50	<10
Toluene	<5	49	1300	<1300	<25	500	530	2300		180	100	18
MTBE	BDL20	<20	<100	BDL 2500	<20	BDL250	<50	<200		<5	<50	BDL50
STARS PAHs (SW-846 8270)												
acenaphthene	<330		2200	5300	<330	<1650	470	1800		<8	<8	<10
anthracene	<330		3400	13000	<330	2400	<330	1700		<8	<8	<10
benzo (a) anthracene	500		5400	18000	1500	5500	<330	1300		<31	<31	<37
benzo (a) pyrene	470		3200	5900	1500	4200	<330	930		<10	<10	<12
benzo (b) fluoranthene	590		3800	11000	1600	4800	<330	1100		<19	<19	<23
benzo (ghi) perylene	<330		1100	220	1100	<1650	<330	<330		<10	<10	<12
benzo (k) fluoranthene	<330		2200	2700	760	<1650	<330	<330		<10	<10	<12
chrysene	460		3900	12000	1600	5700	<330	1500		<10	<10	<12
dibenzo (a,h) anthracene	<330		<330	830	<330	<1650	<330	<330		<10	<10	<12
fluoranthene	470		6900	28000	1500	3100	<330	2100		<8	<8	<10
fluorene	<330		3000	610	<330	2700	630	2200		<8	<8	<10
indeno (1,2,3-cd) pyrene	<330		1400	2300	990	<1650	<330	490		<10	<10	<12
naphthalene	<330		<330	1300	<330	4300	<330	<330		<6	<6	<7
phenanthrene	790		13000	55000	1700	12000	1600	8500		<22	<22	<26
pyrene	450		5800	20000	1200	5600	440	2100		<8	<8	<10
PCBs (SW-846 8082)												
Aroclor 1016	<80		<160	<400	<80	<80	<80	<80	<1000	<1	<1	<1
Aroclor 1221	<80		<160	<400	<80	<80	<80	<80	<1000	<1	<1	<1
Aroclor 1232	<80		<160	<400	<80	<80	<80	<80	<1000	<1	<1	<1
Aroclor 1242	<80		<160	<400	<80	<80	<80	<80	<1000	<1	<1	<1
Aroclor 1248	<80		<160	<400	<80	<80	<80	<80	<1000	<1	<1	<1
Aroclor 1254	<80		570	1600	<80	<80	<80	<80	<1000	<1	<1	<1
Aroclor 1260	<80		<160	<400	<80	<80	<80	<80	<1000	<1	<1	<1
Aroclor 1262	<80		<160	<400	<80	<80	<80	<80	<1000	<1	<1	<1
Aroclor 1268	<80		<160	<400	<80	<80	<80	<80	<1000	<1	<1	<1

All results reported in ug/kg (ppb).
< Not Detected
BDL Below Detection Limit

At approximately 7 feet below surface the saturated zone was encountered together with a layer of black-stained sand and a strong, fuel oil-like odor. PID readings ranged from 280-1400 ppm. Most of the soil core below 8 feet consisted of soil sloughed from the borehole walls. The PID reading for the in-situ soil that was recovered was 650 ppm.

Laboratory analysis of the soil sample from 6-7 feet revealed the presence of seven petroleum derived VOCs at concentrations of 570 to 4800 ppb. Thirteen PAH compounds were identified at concentrations of 1100 to 13000 ppb. Aroclor 1254 was reported at 570 ppb (0.57 ppm). This is below the NYSDEC recommended subsurface (below 1 foot) cleanup level of 10.0 ppm. None of the other nine PCB Aroclors were detected.

SB-03

Elevated PID readings (2480-2672 ppm), together with a VOC-like odor were encountered in the upper 4 feet of this boring. At approximately 7 feet below surface the saturated zone was encountered. Elevated PID readings (1790-2240 ppm) continued through the saturated zone to the bottom of the boring at 12 feet.

Laboratory analysis of the soil sample from 6-7 feet revealed the presence of eight petroleum derived VOCs at concentrations of 2800 to 31000 ppb. No halogenated compounds (solvents) were detected. MTBE was detected below the PQL of 2500 ppb. Fifteen PAH compounds were identified at concentrations of 220 to 55000 ppb. Aroclor 1254 was reported at 1600 ppb (1.6 ppm). This is below the NYSDEC recommended subsurface (below 1 foot) cleanup level of 10.0 ppm. None of the other nine PCB Aroclors were detected.

SB-04

Relatively low PID readings (0-92 ppm) were encountered in the upper 4 feet of this boring, through the saturated interval beginning at approximately 7 feet below surface, to the bottom of the boring at 12 feet.

Laboratory analysis of the soil sample from 6-7 feet revealed the presence of only two petroleum derived VOCs at 26 and 38 ppb. Ten PAH compounds were identified at concentrations of 760 to 1500 ppb. No PCB Aroclors were detected.

SB-05

Relatively low PID readings (0-67 ppm) were encountered in the upper 4 feet of this boring, through the saturated interval beginning at approximately 7 feet below surface, to a depth of approximately 12 feet. LHC and a strong petroleum odor were noted at the interface between the saturated and unsaturated zone. The saturated interval below 12 feet contained visible LHC and produced higher PID readings (228-561 ppm).

Laboratory analysis of the soil sample from the interface between the saturated and unsaturated zone (6 to 7 feet) reveled the presence of five petroleum derived VOCs at 400-1200 ppb. MTBE was

reported below the PQL of 250 ppb. Ten PAH compounds were identified at concentrations of 2400 to 12000 ppb. No PCB Aroclors were detected.

Laboratory analysis of the soil sample from the saturated zone (12 to 13 feet) revealed slightly lower levels of contamination: three petroleum derived VOCs at 400-1200 ppb and four PAH compounds at 440 to 1600 ppb. No PCB Aroclors were detected.

SB-06

Elevated PID readings (greater than 500 ppm) were encountered from the interval immediately below the concrete loading rack pad, through the interface with the saturated zone at approximately 7 feet. Heavy petroleum odors and LHC were noted at the top of the saturated zone.

Laboratory analysis of the soil sample from the interface between the saturated and unsaturated zone (8 to 9 feet) revealed relatively high concentrations (1700 - 28000 ppb) of seven petroleum derived VOCs. Eleven PAH compounds were identified at concentrations of 490 to 8500 ppb. No PCB Aroclors were detected.

3.2 Water Levels

The elevations of the monitoring well risers and measurements of water level / LHC thickness are summarized below in Table 2.

Table 2 Groundwater Level and LHC Measurements - May 8, 1998

(all measurements in feet)

Monitoring Well	Riser Elevation (assumed datum)	Elevation of Water or LHC	LHC Thickness	Total Well Depth
MW-1	9.41	1.95 (LHC)	3.74	NM
MW-2	9.57	1.95	possible film	20.50
MW-3	13.15	7.73	possible film	18.95
MW-4	14.55	9.37	possible film	20.65
MW-5	12.95	2.68	possible film	20.33
MW-6	13.63	4.49	tarry substance	NM
MW-7	9.71	1.18	0	19.15

NM - not measured

Monitoring well MW-1, located at the edge of Maspeth Avenue adjacent to the loading racks, contained approximately 3.74 feet of brown-colored LHC having a consistency similar to Number

2 Oil. The interface probe was inconclusive with respect to the presence of any LHC in monitoring wells MW-2, -3, -4, and -5. In each of these wells, the probe only sporadically signaled the presence of LHC, suggesting either that the probe was being fouled by unidentified matter floating in the well or that a thin film of LHC had accumulated in the wells. No sheen or other conclusive evidence of LHC was observed on the probe after withdrawing it from these wells. Monitoring well MW-6 contained a viscous, dark-brown to black petroleum substance which fouled the interface probe and prevented accurate measurement of the petroleum/water interface. Monitoring well MW-7 exhibited no evidence of LHC presence.

Figure 3 depicts the piezometric surface of the unconfined aquifer (water table) as it was measured on May 8, 1998. The data were collected during a period of sustained precipitation, and may reelect higher than normal recharge conditions on the site. The equipotential lines (contour lines) have been inferred from the measured groundwater elevations. In general, the piezometric surface appears to be higher in the interior of the site, and slopes downward towards Newtown Creek and Maspeth Avenue. Based on these very limited data, groundwater would be expected to flow along lines perpendicular to the equipotential lines, toward Maspeth Avenue and Newtown Creek.

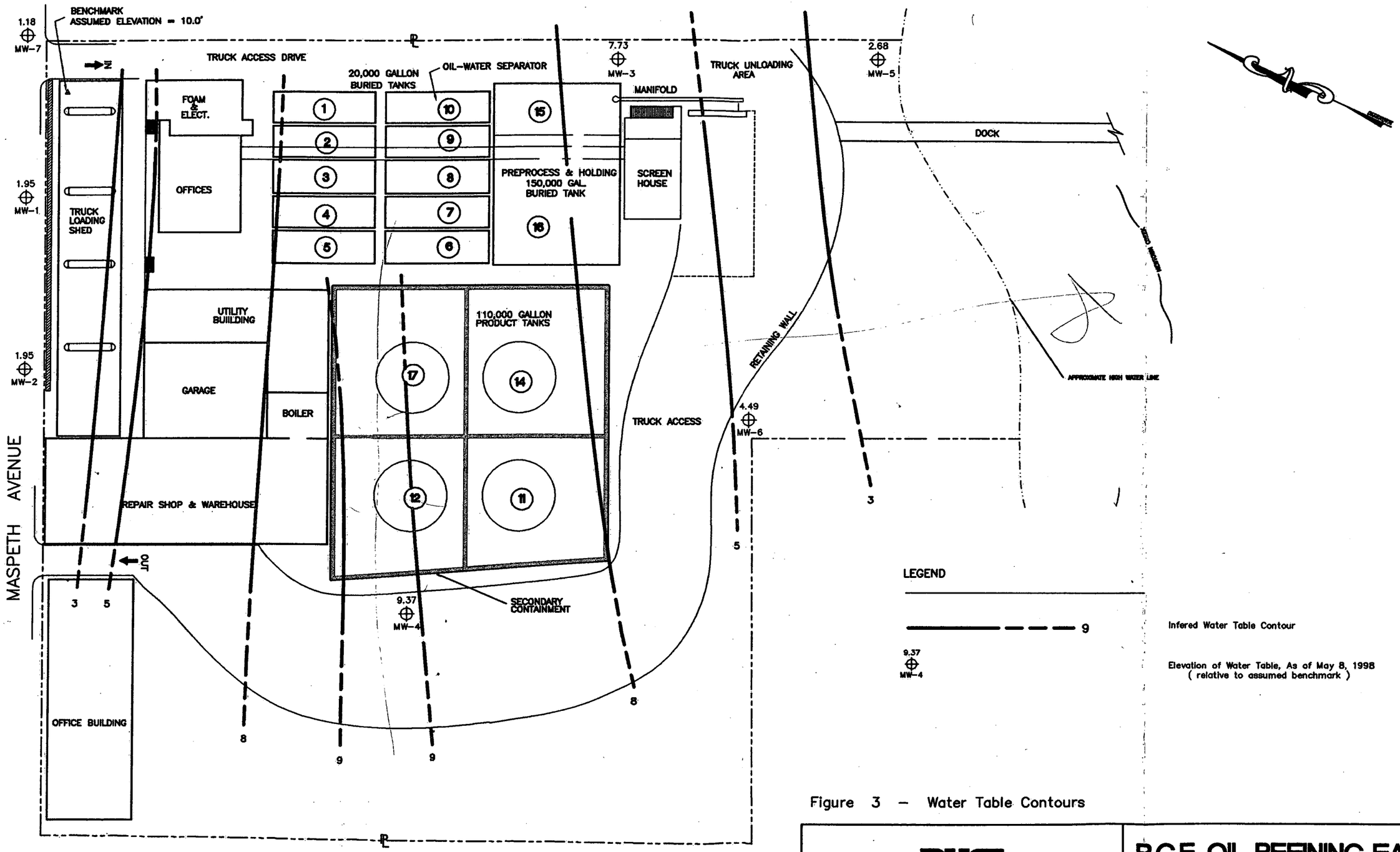

Figure 3 – Water Table Contours

RUST

Rust Environment & Infrastructure Inc.

B.C.F. OIL REFINING FACILITY
BROOKLYN, NEW YORK

DATE: JUNE, 1998
PROJECT NO. 38808

June 2, 1998

38808-Fig 3

3.3 Groundwater and Product Analytical Results

The Method 8021 analyses of groundwater samples from monitoring wells MW-4, MW-5 and MW-7 revealed the presence of a number of petroleum derived VOC's at concentrations ranging from 9 to 1200 ppb. The highest concentrations of VOCs were found in MW-5, which appears to be downgradient from a portion of the BCF facility. This same well is located only a few feet from the adjoining property on the east, which is presently occupied by a gasoline distribution facility.

MTBE was detected in well MW-7 below the PQL of 50 ppb. MW-7 may be located downgradient from the adjacent gasoline distribution facility.

No PAH compounds were detected in any of the water samples. These compounds are relatively insoluble in water. The absence of PAH compounds in the groundwater samples is evidence that the wells are not impacted by non-aqueous phase petroleum contamination (LHC).

No PCB Aroclors were detected in the water samples. The sample of LHC from MW-1 was analyzed for PCB Aroclors only. None were detected at the method detection limit (MDL) of 1000 ppb (1 ppm).

4.0 CONCLUSIONS

The chemical analytical results of this investigation indicate that the sampled areas have not been impacted by the contamination that was inadvertently introduced into BCF's processing system in 1994. No PCB Aroclors of the types found in BCF's tanks were detected in the soil or groundwater samples. Only very low (0.5 to 1.6 ppm) concentrations of a different Aroclor were found in two soil samples from beneath the roadway leading into the facility. These concentrations are well below the NYSDEC recommended subsurface cleanup level of 10 ppm. None of the halogenated organic compounds (chlorinated solvents, chlorobenzenes, and chloro-fluorocarbon compounds) found in BCF's system have been identified in the soil or groundwater samples. Such halogenated substances are comparatively mobile due to their volatility and relatively high solubility in groundwater, and could have migrated to the monitoring wells and soil sampling locations if they had been released in sufficient quantity.

Petroleum hydrocarbon contamination of varying characteristics was found in a number of locations. The contamination is present in the non-aqueous phase (i.e. LHC) and is retained in the saturated and unsaturated zones. The physical and chemical properties of the contamination at these different locations suggest a number of different sources and an extended history of releases. The following observations support this conclusion:

- The ratios of the many chemical compounds that comprise petroleum products are highly variable, indicating different sources of contamination or different degrees of aging. For example, the total concentration of VOC's in the soil from SB-06 is nearly three times the total concentration of PAH compounds in that sample. At all other locations, the total concentration of VOC's is less than the total concentration of PAH compounds.

- VOC concentrations are extremely low or absent in borings SB-01 and SB-04, suggesting that the petroleum residues present at these locations are highly weathered.

- The analyses indicate the presence of low, unquantified levels of MTBE in soil and groundwater at several locations. MTBE has only been in general use as a gasoline additive since the early 1980s, and thus would not have originated from historical petroleum terminal operations on the site. BCF did not accept gasoline for processing. The prevalence of industrial and fuel distribution activity in the areas surrounding BCF suggests the possibility of impact by an off-site release of gasoline.

LHC in the vicinity of MW-1 appears to be present in mobile quantities capable of migrating through the soil above the water table. In other areas, LHC appears to be present at residual saturation and therefore unable to migrate in the non-aqueous phase. The LHC trapped below the water table at soil boring SB-05 is an example of such contamination.

The extent to which petroleum contamination may be migrating onto or away from the BCF site can not be assessed without more complete understanding of the groundwater dynamics at the site. Groundwater flow is influenced by a number of factors, including the presence of sewers, buried gas pipelines and the tidal fluctuation of Newtown Creek. The water table beneath the site is expected to fluctuate vertically under the tidal influence of Newtown Creek. The single round of groundwater elevation measurements conducted during this investigation suggests a temporal gradient toward Maspeth Avenue. This gradient may lessen or even reverse direction during low tide or certain seasonal conditions.

Appendix A

Soil Boring Logs

RUST E&I Albany, NY (518) 458-1313	Test Boring Log	Boring No. SB01
PROJECT: B.C.F. Oil Recycling Facility		Sheet 1 of 1
CLIENT: Stillman, et al		Job No. 38808.10000
DRILLING CONTRACTOR: ZEBRA Environmental Corp.		Meas. Pt. Elev.: Grade
PURPOSE: Supplemental Soil Borings		Ground Elev.: --
DRILLING METHOD: Direct Push	SAMPLE / CORE / CASING	Datum: --
DRILL RIG TYPE: Geoprobe	TYPE: Macro core / –	Date Started: 5/8/98
WATER DEPTH: est. 7.0	DIAM.: 2" / –	Date Finished: 5/8/98
MEAS. PT.: Grade	WEIGHT	Driller: Kirk Balderas
DATE OF MEAS.: – 5/8/98	FALL	Inspector: K. McGrath

Depth (Feet)	Sample Number	OVA	Lab ID	USCS	GEOLOGIC DESCRIPTION	REMARKS
1	S-1	ND			0-0.42 Very loose, dry, light gray, mostly medium to fine SAND, little fine gravel, trace(+) silt. (concrete) 0.42	26" rec
2		ND				
3		ND			0.42-1.00 Loose, damp, brown, mostly orange medium to fine SAND. 1.00	
4		ND				
5	S-2	32			1.00-1.5 Medium dense, damp to wet, brown, mostly medium to fine SAND, trace(+) silt	26" rec
6		ND				
7		14				
8		12				
9	S-3	38			do; occ bits of brick and debris	29" rec - odor - visible contamination
10		4				
11		ND				▼ est. 11.0
12		15	SB01(11-12)			
13	S-4	338			do. - ½" layer of loose, wet, orange SAND	29" rec
14		454				
15		221			15.0	
16		1142			15-16 Very loose, wet, gray fine SAND, and silt 16.0 End Boring @ 16.0 deg	- Very Strong odor - visible contamination
17						
18						
19						
20						

RUST E&I Albany, NY (518) 458-1313	Test Boring Log	Boring No. SB02
PROJECT: B.C.F. Oil Recycling Facility		Sheet 1 of 1
CLIENT: Stillman, et al		Job No. 38808.10000
DRILLING CONTRACTOR: ZEBRA Environmental Corp.		Meas. Pt. Elev.: Grade
PURPOSE: Supplemental Soil Borings		Ground Elev.: --

DRILLING METHOD: Direct Push		SAMPLE	CORE	CASING	Datum: --
DRILL RIG TYPE: Geoprobe	TYPE	Macro core		–	Date Started: 5/8/98
WATER DEPTH: est. 7.0'	DIAM.	2"		–	Date Finished: 5/8/98
MEAS. PT.: Grade	WEIGHT				Driller: Kirk Balderas
DATE OF MEAS.: -- 5/8/98	FALL				Inspector: K. McGrath

Depth (Feet)	Sample Number	OVA	Lab ID	USCS	GEOLOGIC DESCRIPTION	REMARKS
1	S-1	728			0-0.75 Loose, dry, white, silt (concrete dust) 0.75	24" rec
2		1046			0.75 - > 2.0 Somewhat stiff, moist, dark brown, medium to fine SAND, little (-) silt, trace (+) medium to fine Gravel, occasionally of white sand >2.0	
3		288	SB02(2-3)			
4		966				
5	S-2	1400			4.0 - 6.16 Very loose, wet, gray, coarse to mostly medium SAND, trace (+) medium to fine gravel 6.16	34" rec - Strong odor - 7" black stain 5.42-6.00'
6		480				
7		460	SB02(6-7)			est. 7.0'
8		280			6.16 - 12.0 Somewhat Stiff, wet, gray, Clayey-SILT, with fine Sand, low plasticity do:	
9	S-3	1870				38" rec
10		1790				
11		1898				
12		1650			12.0	
13					End Boring @ 12.0 dbg	
14						
15						
16						
17						
18						
19						
20						

RUST E&I Albany, NY (518) 458-1313	Test Boring Log	Boring No. SB03
PROJECT: B.C.F. Oil Recycling Facility		Sheet 1 of 1
CLIENT: Stillman, et al		Job No. 38808.10000
DRILLING CONTRACTOR: ZEBRA Environmental Corp.		Meas. Pt. Elev.: Grade
PURPOSE: Supplemental Soil Borings		Ground Elev.: NA

DRILLING METHOD: Direct Push		SAMPLE	CORE	CASING	Datum: NA
DRILL RIG TYPE: Geoprobe	TYPE	Macro core		–	Date Started: 5/8/98
WATER DEPTH: est 7.0'	DIAM.	2"		–	Date Finished: 5/8/98
MEAS. PT.: Grade	WEIGHT				Driller: Kirk Balderas
DATE OF MEAS.: 5/8/98	FALL				Inspector: K. McGrath

Depth (Feet)	Sample Number	OVA	Lab ID	USCS	GEOLOGIC DESCRIPTION	REMARKS
					0–0.42 concrete dust	
1	S-1	2265			0.42 - >1.84 Loose, damp, black fly ash and Slag	27" rec - Strong odor
2		2480				
3		2482				
4		2672				
5	S-2	>500			4.0 - 6.16 Loose, wet, brown, coarse to mostly medium to fine SAND, trace (-) fine gravel 6.16	38" rec
6		>500				
7		>500	SB03(6-7)		6.16 - 12.0 Somewhat Stiff, wet, clayey-SILT, abundant debris	▼ est. 7.0
8		>500				
9	S-3	1860			do: trace to little fine gravel, increasing in size and quantity with depth	44" rec
10		2240				
11		1880				
12		1790			12.0	
					End Boring @ 12.0	
13						
14						
15						
16						
17						
18						
19						
20						

RUST E&I Albany, NY (518) 458-1313	Test Boring Log	Boring No. SB04
PROJECT: B.C.F. Oil Recycling Facility		Sheet 1 of 1
CLIENT: Stillman, et al		Job No. 38808.10000
DRILLING CONTRACTOR: ZEBRA Environmental Corp.		Meas. Pt. Elev.: Grade
PURPOSE: Supplemental Soil Borings		Ground Elev.: NA

DRILLING METHOD: Direct Push		SAMPLE	CORE	CASING	Datum: NA
DRILL RIG TYPE: Geoprobe	TYPE	Macro core		–	Date Started: 5/8/98
WATER DEPTH: est. 7.0'	DIAM.	2"		–	Date Finished: 5/8/98
MEAS. PT.: Grade	WEIGHT				Driller: Kirk Balderas
DATE OF MEAS.: 5/8/98	FALL				Inspector: K. McGrath

Depth (Feet)	Sample Number	OVA	Lab ID	USCS	GEOLOGIC DESCRIPTION	REMARKS
					0-0.75 ASPHALT 0.75	28" rec
1	S-1	1			0.25 - 4.80: Very loose, moist, mostly medium to fine SAND, and medium to fine Gravel; abundant brick	
2		1				
3		22				
4		57			4.80	
5	S-2	52			4.80 - 16.0: Somewhat stiff, wet, brown, fine SAND, and SILT	25" rec
6		ND				-strong odor
7		26	SB04(6-7)			▼ est. 7.0'
8		92				
9	S-3	ND				22" rec
10		ND				
11		ND				
12		ND				
13	S-4	ND				28" rec
14		ND				
15		ND				
16		ND			16.0	
					End Boring @ 16.0	
17						
18						
19						
20						

RUST E&I Albany, NY (518) 458-1313	Test Boring Log	Boring No. SB05
PROJECT: B.C.F. Oil Recycling Facility		Sheet 1 of 1
CLIENT: Stillman, et al		Job No. 38808.10000
DRILLING CONTRACTOR: ZEBRA Environmental Corp.		Meas. Pt. Elev.: Grade
PURPOSE: Supplemental Soil Borings		Ground Elev.: NA

DRILLING METHOD: Direct Push		SAMPLE	CORE	CASING	Datum: NA
DRILL RIG TYPE: Geoprobe	TYPE	Macro core		–	Date Started: 5/8/98
WATER DEPTH: est 7.0	DIAM.	2"		–	Date Finished: 5/8/98
MEAS. PT.: Grade	WEIGHT				Driller: Kirk Balderas
DATE OF MEAS.: 5/8/98	FALL				Inspector: K. McGrath

Depth (Feet)	Sample Number	OVA	Lab ID	USCS	GEOLOGIC DESCRIPTION	REMARKS
		ND			0-0.67 TOPSOIL 0.67	32" rec
1	S-1	ND			0.67-1.64 Loose, moist, dark brown, medium to fine SAND and Gravel 1.64	
2		ND				
3		28.8			1.64-16.0 Somewhat Stiff, damp, medium to fine SAND, some Silt; occ debris	
4	S-2	115				38" rec
5		187				
6		95	SB05(6-7)			
7		98				▽ est 7.0
8	S-3	98				32" rec
9		42				
10		58				
11		67				
12	S-4	512				44" rec
13		561	SB05(13-14)			
14		337				
15		228				
16					16.0 End of Boring @ 16.0	
17						
18						
19						
20						

RUST E&I Albany, NY (518) 458-1313	Test Boring Log	Boring No. SB06
PROJECT: B.C.F. Oil Recycling Facility		Sheet 1 of 1
CLIENT: Stillman, et al		Job No. 38808.10000
DRILLING CONTRACTOR: ZEBRA Environmental Corp.		Meas. Pt. Elev.: Grade
PURPOSE: Supplemental Soil Borings		Ground Elev.: NA
DRILLING METHOD: Direct Push	SAMPLE / CORE / CASING	Datum: NA
DRILL RIG TYPE: Geoprobe	TYPE: Macro core / –	Date Started: 5/8/98
WATER DEPTH: est 7.0	DIAM.: 2" / –	Date Finished: 5/8/98
MEAS. PT.:	WEIGHT	Driller: Kirk Balderas
DATE OF MEAS.: –	FALL	Inspector: K. McGrath

Depth (Feet)	Sample Number	OVA	Lab ID	USCS	GEOLOGIC DESCRIPTION	REMARKS
					0-0.66 TOPSOIL 0.66	31" rec
1		low batt			0.66-1.8	
2	S-1				loose, moist, dark brown SAND 1.80	
3					1.80-16.0	
4					Somewhat stiff, moist to wet,	
5		>500			medium to fine SAND, some silt	36" rec
6	S-2					
7			SB06(6-7)			▼ of 7.0
8						
9		low batt				38" rec
10	S-3					
11						
12						
13		low batt				44" rec
14	S-4					
15						
16					16.0	
					End Boring @ 16.0	
17						
18						
19						
20						

Appendix B

Analytical Laboratory Reporting Forms

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040-0418
Tel. (860) 645-1102 Fax (860) 645-0823

RECEIVED
MAY 2 6 1998
RUST E&I

May 22, 1998

Rust Enviroment Infrastructure
12 Metro Park Rd.
Albany NY 12205

Attention: Mr. Frank Williams

Sample ID#: AB78413-20 & AB78422-25 Revised

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab Registration #PH-0618
MA Lab Registration #CT-007
NY Lab Registration #11301
RI Lab Registration #63
NH Lab Registration #213693-A,B
ME Lab Registration #CT-007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 22, 1998

FOR: Attn: Mr. Frank Williams
Rust Environment Infrastructure
12 Metro Park Road
Albany, NY 12205

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	KM	05/08/98	10:30
Location Code:	RUST-ENV	Received by:	SW	05/11/98	11:00
Project Code:		Analyzed by:	see below		
P.O.#:					

Laboratory Data

Client ID: BCF OIL BROOKLYN SB01 (11-12) Phoenix I.D. AB78413

Parameter	Result	MDL	Units	Date	by	Reference
Methyl Tert Butyl Ether	BDL	20	ug/Kg	05/14/98	RM	SW8260
Percent Solid	79.0	0.1	%	05/11/98	JB	160.3
Sonication Ext. For PCB	Completed			05/11/98	T/E	SW846-3550
Sonic Ext. for Semi-Vol	Completed			05/10/98	T/E	SW846-3550
Polychlorinated Biphenyls						
PCB-1016	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1221	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1232	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1242	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1248	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1254	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1260	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1262	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1268	ND	80	ug/Kg	05/13/98	JE	SW 8082
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
1,1,1-Trichloroethane	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
1,1,2-Trichloroethane	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
1,1-Dichloroethane	ND	5.0	ug/Kg	05/15/98	RM	SW 8021

Client ID: BCF OIL BROOKLYN SB01 (11-12) Phoenix I.D. AB78413

Parameter	Result	MDL	Units	Date	by	Reference
1,1-Dichloroethene	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
1,1-Dichloropropene	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
1,2,3-Trichloropropane	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
1,2-Dibromo-3-chloropropane(DBCP)	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
1,2-Dibromoethane(EDB)	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
1,2-Dichlorobenzene	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
1,2-Dichloroethane	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
1,2-Dichloropropane	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
1,3-Dichlorobenzene	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
1,3-Dichloropropane	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
1,4-Dichlorobenzene	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
2,2-Dichloropropane	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
2-Chlorotoluene	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
4-Chlorotoluene	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
Benzene	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
Bromobenzene	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
Bromochloromethane	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
Bromodichloromethane	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
Bromoform	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
Bromomethane	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
Carbon tetrachloride	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
Chlorobenzene	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
Chloroethane	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
Chloroform	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
Chloromethane	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
Dibromochloromethane	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
Dibromomethane	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
Dichlorodifluoromethane	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
Ethylbenzene	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
Hexachlorobutadiene	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
Isopropylbenzene	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
Methylene chloride	ND	5.0	ug/Kg	05/15/98	RM	SW 8021

Client ID: BCF OIL BROOKLYN SB01 (11-12) Phoenix I.D. AB78413

Parameter	Result	MDL	Units	Date	by	Reference
n-Butylbenzene	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
n-Propylbenzene	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
Naphthalene	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
o-Xylene	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
p&m-Xylene	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
p-Isopropyltoluene	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
sec-Butylbenzene	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
Styrene	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
tert-Butylbenzene	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
Tetrachloroethene	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
Toluene	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
Trichloroethene	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
Trichlorofluoromethane	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
Vinyl chloride	ND	5.0	ug/Kg	05/15/98	RM	SW 8021
Semivolatiles						
Acenaphthene	ND	330	ug/Kg	05/12/98	S/P	SW 8270
Anthracene	ND	330	ug/Kg	05/12/98	S/P	SW 8270
Benzo(a)anthracene	500	330	ug/Kg	05/12/98	S/P	SW 8270
Benzo(a)pyrene	470	330	ug/Kg	05/12/98	S/P	SW 8270
Benzo(b)fluoranthene	590	330	ug/Kg	05/12/98	S/P	SW 8270
Benzo(g,h,i)perylene	ND	330	ug/Kg	05/12/98	S/P	SW 8270
Benzo(k)fluoranthene	ND	330	ug/Kg	05/12/98	S/P	SW 8270
Chrysene	460	330	ug/Kg	05/12/98	S/P	SW 8270
Dibenz(a,h)anthracene	ND	330	ug/Kg	05/12/98	S/P	SW 8270
Fluoranthene	470	330	ug/Kg	05/12/98	S/P	SW 8270
Fluorene	ND	330	ug/Kg	05/12/98	S/P	SW 8270
Indeno(1,2,3-c,d)pyrene	ND	330	ug/Kg	05/12/98	S/P	SW 8270
Naphthalene	ND	330	ug/Kg	05/12/98	S/P	SW 8270
Phenanthrene	790	330	ug/Kg	05/12/98	S/P	SW 8270
Pyrene	450	330	ug/Kg	05/12/98	S/P	SW 8270

Comments: ND=Not detected MDL = Minimum Detectable Limit BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extenstion 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
May 22, 1998

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 22, 1998

FOR: Attn: Mr. Frank Williams
Rust Environment Infrastructure
12 Metro Park Road
Albany, NY 12205

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	KM	05/08/98	11:00
Location Code:	RUST-ENV	Received by:	SW	05/11/98	11:00
Project Code:		Analyzed by:	see below		
P.O.#:					

Laboratory Data

Client ID: BCF OIL BROOKLYN SB02 (2-3) Phoenix I.D. AB78414

Parameter	Result	MDL	Units	Date	by	Reference
Methyl Tert Butyl Ether	ND	20	ug/Kg	05/12/98	RM	SW8260
Percent Solid	89.3	0.1	%	05/11/98	JB	160.3
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	25	ug/Kg	05/12/98	RM	SW 8021
1,1,1-Trichloroethane	ND	25	ug/Kg	05/12/98	RM	SW 8021
1,1,2,2-Tetrachloroethane	ND	25	ug/Kg	05/12/98	RM	SW 8021
1,1,2-Trichloroethane	ND	25	ug/Kg	05/12/98	RM	SW 8021
1,1-Dichloroethane	ND	25	ug/Kg	05/12/98	RM	SW 8021
1,1-Dichloroethene	ND	25	ug/Kg	05/12/98	RM	SW 8021
1,1-Dichloropropene	ND	25	ug/Kg	05/12/98	RM	SW 8021
1,2,3-Trichlorobenzene	ND	25	ug/Kg	05/12/98	RM	SW 8021
1,2,3-Trichloropropane	ND	25	ug/Kg	05/12/98	RM	SW 8021
1,2,4-Trichlorobenzene	ND	25	ug/Kg	05/12/98	RM	SW 8021
1,2,4-Trimethylbenzene	65	25	ug/Kg	05/12/98	RM	SW 8021
1,2-Dibromo-3-chloropropane(DBCP)	ND	25	ug/Kg	05/12/98	RM	SW 8021
1,2-Dibromoethane(EDB)	ND	25	ug/Kg	05/12/98	RM	SW 8021
1,2-Dichlorobenzene	ND	25	ug/Kg	05/12/98	RM	SW 8021
1,2-Dichloroethane	ND	25	ug/Kg	05/12/98	RM	SW 8021
1,2-Dichloropropane	ND	25	ug/Kg	05/12/98	RM	SW 8021
1,3,5-Trimethylbenzene	43	25	ug/Kg	05/12/98	RM	SW 8021

Client ID: BCF OIL BROOKLYN SB02 (2-3) Phoenix I.D. AB78414

Parameter	Result	MDL	Units	Date	by	Reference
1,3-Dichlorobenzene	ND	25	ug/Kg	05/12/98	RM	SW 8021
1,3-Dichloropropane	ND	25	ug/Kg	05/12/98	RM	SW 8021
1,4-Dichlorobenzene	ND	25	ug/Kg	05/12/98	RM	SW 8021
2,2-Dichloropropane	ND	25	ug/Kg	05/12/98	RM	SW 8021
2-Chlorotoluene	ND	25	ug/Kg	05/12/98	RM	SW 8021
4-Chlorotoluene	ND	25	ug/Kg	05/12/98	RM	SW 8021
Benzene	25	25	ug/Kg	05/12/98	RM	SW 8021
Bromobenzene	ND	25	ug/Kg	05/12/98	RM	SW 8021
Bromochloromethane	ND	25	ug/Kg	05/12/98	RM	SW 8021
Bromodichloromethane	ND	25	ug/Kg	05/12/98	RM	SW 8021
Bromoform	ND	25	ug/Kg	05/12/98	RM	SW 8021
Bromomethane	ND	25	ug/Kg	05/12/98	RM	SW 8021
Carbon tetrachloride	ND	25	ug/Kg	05/12/98	RM	SW 8021
Chlorobenzene	ND	25	ug/Kg	05/12/98	RM	SW 8021
Chloroethane	ND	25	ug/Kg	05/12/98	RM	SW 8021
Chloroform	ND	25	ug/Kg	05/12/98	RM	SW 8021
Chloromethane	ND	25	ug/Kg	05/12/98	RM	SW 8021
cis-1,2-Dichloroethene	ND	25	ug/Kg	05/12/98	RM	SW 8021
Dibromochloromethane	ND	25	ug/Kg	05/12/98	RM	SW 8021
Dibromomethane	ND	25	ug/Kg	05/12/98	RM	SW 8021
Dichlorodifluoromethane	ND	25	ug/Kg	05/12/98	RM	SW 8021
Ethylbenzene	61	25	ug/Kg	05/12/98	RM	SW 8021
Hexachlorobutadiene	ND	25	ug/Kg	05/12/98	RM	SW 8021
Isopropylbenzene	93	25	ug/Kg	05/12/98	RM	SW 8021
Methylene chloride	ND	25	ug/Kg	05/12/98	RM	SW 8021
n-Butylbenzene	33	25	ug/Kg	05/12/98	RM	SW 8021
n-Propylbenzene	180	25	ug/Kg	05/12/98	RM	SW 8021
Naphthalene	46	25	ug/Kg	05/12/98	RM	SW 8021
o-Xylene	34	25	ug/Kg	05/12/98	RM	SW 8021
p&m-Xylene	190	25	ug/Kg	05/12/98	RM	SW 8021
p-Isopropyltoluene	ND	25	ug/Kg	05/12/98	RM	SW 8021
sec-Butylbenzene	37	25	ug/Kg	05/12/98	RM	SW 8021
Styrene	ND	25	ug/Kg	05/12/98	RM	SW 8021
tert-Butylbenzene	ND	25	ug/Kg	05/12/98	RM	SW 8021
Tetrachloroethene	ND	25	ug/Kg	05/12/98	RM	SW 8021
Toluene	49	25	ug/Kg	05/12/98	RM	SW 8021
trans-1,2-Dichloroethene	ND	25	ug/Kg	05/12/98	RM	SW 8021

Client ID: BCF OIL BROOKLYN SB02 (2-3) Phoenix I.D. AB78414

Parameter	Result	MDL	Units	Date	by	Reference
Trichloroethene	ND	25	ug/Kg	05/12/98	RM	SW 8021
Trichlorofluoromethane	ND	25	ug/Kg	05/12/98	RM	SW 8021
Vinyl chloride	ND	25	ug/Kg	05/12/98	RM	SW 8021

Comments: ND=Not detected MDL = Minimum Detectable Limit BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extenstion 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
May 22, 1998

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 22, 1998

FOR: Attn: Mr. Frank Williams
Rust Environment Infrastructure
12 Metro Park Road
Albany, NY 12205

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	KM	05/08/98	11:10
Location Code:	RUST-ENV	Received by:	SW	05/11/98	11:00
Project Code:		Analyzed by:	see below		
P.O.#:					

Laboratory Data

Client ID: BCF OIL BROOKLYN SB02 (6-7) Phoenix I.D. AB78415

Parameter	Result	MDL	Units	Date	by	Reference
Methyl Tert Butyl Ether	ND	100	ug/Kg	05/12/98	RM	SW8260
Percent Solid	84.1	0.1	%	05/11/98	JB	160.3
Sonication Ext. For PCB	Completed			05/11/98	T/E	SW846-3550
Sonic Ext. for Semi-Vol	Completed			05/10/98	T/E	SW846-3550
Polychlorinated Biphenyls						
PCB-1016	ND	160	ug/Kg	05/13/98	JE	SW 8082
PCB-1221	ND	160	ug/Kg	05/13/98	JE	SW 8082
PCB-1232	ND	160	ug/Kg	05/13/98	JE	SW 8082
PCB-1242	ND	160	ug/Kg	05/13/98	JE	SW 8082
PCB-1248	ND	160	ug/Kg	05/13/98	JE	SW 8082
PCB-1254	570	160	ug/Kg	05/13/98	JE	SW 8082
PCB-1260	ND	160	ug/Kg	05/13/98	JE	SW 8082
PCB-1262	ND	160	ug/Kg	05/13/98	JE	SW 8082
PCB-1268	ND	160	ug/Kg	05/13/98	JE	SW 8082
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	500	ug/Kg	05/12/98	RM	SW 8021
1,1,1-Trichloroethane	ND	500	ug/Kg	05/12/98	RM	SW 8021
1,1,2,2-Tetrachloroethane	ND	500	ug/Kg	05/12/98	RM	SW 8021
1,1,2-Trichloroethane	ND	500	ug/Kg	05/12/98	RM	SW 8021
1,1-Dichloroethane	ND	500	ug/Kg	05/12/98	RM	SW 8021

Client ID: BCF OIL BROOKLYN SB02 (6-7) Phoenix I.D. AB78415

Parameter	Result	MDL	Units	Date	by	Reference
1,1-Dichloroethene	ND	500	ug/Kg	05/12/98	RM	SW 8021
1,1-Dichloropropene	ND	500	ug/Kg	05/12/98	RM	SW 8021
1,2,3-Trichlorobenzene	ND	500	ug/Kg	05/12/98	RM	SW 8021
1,2,3-Trichloropropane	ND	500	ug/Kg	05/12/98	RM	SW 8021
1,2,4-Trichlorobenzene	ND	500	ug/Kg	05/12/98	RM	SW 8021
1,2,4-Trimethylbenzene	ND	500	ug/Kg	05/12/98	RM	SW 8021
1,2-Dibromo-3-chloropropane(DBCP	ND	500	ug/Kg	05/12/98	RM	SW 8021
1,2-Dibromoethane(EDB)	ND	500	ug/Kg	05/12/98	RM	SW 8021
1,2-Dichlorobenzene	ND	500	ug/Kg	05/12/98	RM	SW 8021
1,2-Dichloroethane	ND	500	ug/Kg	05/12/98	RM	SW 8021
1,2-Dichloropropane	ND	500	ug/Kg	05/12/98	RM	SW 8021
1,3,5-Trimethylbenzene	ND	500	ug/Kg	05/12/98	RM	SW 8021
1,3-Dichlorobenzene	ND	500	ug/Kg	05/12/98	RM	SW 8021
1,3-Dichloropropane	ND	500	ug/Kg	05/12/98	RM	SW 8021
1,4-Dichlorobenzene	ND	500	ug/Kg	05/12/98	RM	SW 8021
2,2-Dichloropropane	ND	500	ug/Kg	05/12/98	RM	SW 8021
2-Chlorotoluene	ND	500	ug/Kg	05/12/98	RM	SW 8021
4-Chlorotoluene	ND	500	ug/Kg	05/12/98	RM	SW 8021
Benzene	ND	500	ug/Kg	05/12/98	RM	SW 8021
Bromobenzene	ND	500	ug/Kg	05/12/98	RM	SW 8021
Bromochloromethane	ND	500	ug/Kg	05/12/98	RM	SW 8021
Bromodichloromethane	ND	500	ug/Kg	05/12/98	RM	SW 8021
Bromoform	ND	500	ug/Kg	05/12/98	RM	SW 8021
Bromomethane	ND	500	ug/Kg	05/12/98	RM	SW 8021
Carbon tetrachloride	ND	500	ug/Kg	05/12/98	RM	SW 8021
Chlorobenzene	ND	500	ug/Kg	05/12/98	RM	SW 8021
Chloroethane	ND	500	ug/Kg	05/12/98	RM	SW 8021
Chloroform	ND	500	ug/Kg	05/12/98	RM	SW 8021
Chloromethane	ND	500	ug/Kg	05/12/98	RM	SW 8021
cis-1,2-Dichloroethene	ND	500	ug/Kg	05/12/98	RM	SW 8021
Dibromochloromethane	ND	500	ug/Kg	05/12/98	RM	SW 8021
Dibromomethane	ND	500	ug/Kg	05/12/98	RM	SW 8021
Dichlorodifluoromethane	ND	500	ug/Kg	05/12/98	RM	SW 8021
Ethylbenzene	ND	500	ug/Kg	05/12/98	RM	SW 8021
Hexachlorobutadiene	ND	500	ug/Kg	05/12/98	RM	SW 8021
Isopropylbenzene	1300	500	ug/Kg	05/12/98	RM	SW 8021
Methylene chloride	ND	500	ug/Kg	05/12/98	RM	SW 8021

Client ID: BCF OIL BROOKLYN SB02 (6-7) Phoenix I.D. AB78415

Parameter	Result	MDL	Units	Date	by	Reference
n-Butylbenzene	4400	500	ug/Kg	05/12/98	RM	SW 8021
n-Propylbenzene	4800	500	ug/Kg	05/12/98	RM	SW 8021
Naphthalene	570	500	ug/Kg	05/12/98	RM	SW 8021
o-Xylene	ND	500	ug/Kg	05/12/98	RM	SW 8021
p&m-Xylene	640	500	ug/Kg	05/12/98	RM	SW 8021
p-Isopropyltoluene	ND	500	ug/Kg	05/12/98	RM	SW 8021
sec-Butylbenzene	1800	500	ug/Kg	05/12/98	RM	SW 8021
Styrene	ND	500	ug/Kg	05/12/98	RM	SW 8021
tert-Butylbenzene	ND	500	ug/Kg	05/12/98	RM	SW 8021
Tetrachloroethene	ND	500	ug/Kg	05/12/98	RM	SW 8021
Toluene	1300	500	ug/Kg	05/12/98	RM	SW 8021
trans-1,2-Dichloroethene	ND	500	ug/Kg	05/12/98	RM	SW 8021
Trichloroethene	ND	500	ug/Kg	05/12/98	RM	SW 8021
Trichlorofluoromethane	ND	500	ug/Kg	05/12/98	RM	SW 8021
Vinyl chloride	ND	500	ug/Kg	05/12/98	RM	SW 8021
Semivolatiles						
Acenaphthene	2200	330	ug/Kg	05/12/98	S/P	SW 8270
Anthracene	3400	330	ug/Kg	05/12/98	S/P	SW 8270
Benzo(a)anthracene	5400	330	ug/Kg	05/12/98	S/P	SW 8270
Benzo(a)pyrene	3200	330	ug/Kg	05/12/98	S/P	SW 8270
Benzo(b)fluoranthene	3800	330	ug/Kg	05/12/98	S/P	SW 8270
Benzo(g,h,i)perylene	1100	330	ug/Kg	05/12/98	S/P	SW 8270
Benzo(k)fluoranthene	2200	330	ug/Kg	05/12/98	S/P	SW 8270
Chrysene	3900	330	ug/Kg	05/12/98	S/P	SW 8270
Dibenz(a,h)anthracene	ND	330	ug/Kg	05/12/98	S/P	SW 8270
Fluoranthene	6900	1700	ug/Kg	05/12/98	S/P	SW 8270
Fluorene	3000	330	ug/Kg	05/12/98	S/P	SW 8270
Indeno(1,2,3-c,d)pyrene	1400	330	ug/Kg	05/12/98	S/P	SW 8270
Naphthalene	ND	330	ug/Kg	05/12/98	S/P	SW 8270
Phenanthrene	13000	1700	ug/Kg	05/12/98	S/P	SW 8270
Pyrene	5800	330	ug/Kg	05/12/98	S/P	SW 8270

Comments: ND=Not detected MDL = Minimum Detectable Limit BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extention 200

John M. Schreiber

John M. Schreiber, Laboratory Director
May 22, 1998

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 22, 1998

FOR: Attn: Mr. Frank Williams
Rust Environment Infrastructure
12 Metro Park Road
Albany, NY 12205

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	KM	05/08/98	11:30
Location Code:	RUST-ENV	Received by:	SW	05/11/98	11:00
Project Code:		Analyzed by:	see below		
P.O.#:					

Laboratory Data

Client ID: BCF OIL BROOKLYN SB03 (6-7) Phoenix I.D. AB78416

Parameter	Result	MDL	Units	Date	by	Reference
Methyl Tert Butyl Ether	BDL	2500	ug/Kg	05/14/98	RM	SW8260
Percent Solid	83.6	0.1	%	05/11/98	JB	160.3
Sonication Ext. For PCB	Completed			05/11/98	T/E	SW846-3550
Sonic Ext. for Semi-Vol	Completed			05/10/98	T/E	SW846-3550
Polychlorinated Biphenyls						
PCB-1016	ND	400	ug/Kg	05/13/98	JE	SW 8082
PCB-1221	ND	400	ug/Kg	05/13/98	JE	SW 8082
PCB-1232	ND	400	ug/Kg	05/13/98	JE	SW 8082
PCB-1242	ND	400	ug/Kg	05/13/98	JE	SW 8082
PCB-1248	ND	400	ug/Kg	05/13/98	JE	SW 8082
PCB-1254	1600	400	ug/Kg	05/13/98	JE	SW 8082
PCB-1260	ND	400	ug/Kg	05/13/98	JE	SW 8082
PCB-1262	ND	400	ug/Kg	05/13/98	JE	SW 8082
PCB-1268	ND	400	ug/Kg	05/13/98	JE	SW 8082
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	1300	ug/Kg	05/14/98	RM	SW 8021
1,1,1-Trichloroethane	ND	1300	ug/Kg	05/14/98	RM	SW 8021
1,1,2,2-Tetrachloroethane	ND	1300	ug/Kg	05/14/98	RM	SW 8021
1,1,2-Trichloroethane	ND	1300	ug/Kg	05/14/98	RM	SW 8021
1,1-Dichloroethane	ND	1300	ug/Kg	05/14/98	RM	SW 8021

Client ID: BCF OIL BROOKLYN SB03 (6-7) Phoenix I.D. AB78416

Parameter	Result	MDL	Units	Date	by	Reference
1,1-Dichloroethene	ND	1300	ug/Kg	05/14/98	RM	SW 8021
1,1-Dichloropropene	ND	1300	ug/Kg	05/14/98	RM	SW 8021
1,2,3-Trichlorobenzene	ND	1300	ug/Kg	05/14/98	RM	SW 8021
1,2,3-Trichloropropane	ND	1300	ug/Kg	05/14/98	RM	SW 8021
1,2,4-Trichlorobenzene	ND	1300	ug/Kg	05/14/98	RM	SW 8021
1,2,4-Trimethylbenzene	ND	1300	ug/Kg	05/14/98	RM	SW 8021
1,2-Dibromo-3-chloropropane(DBCP)	ND	1300	ug/Kg	05/14/98	RM	SW 8021
1,2-Dibromoethane(EDB)	ND	1300	ug/Kg	05/14/98	RM	SW 8021
1,2-Dichlorobenzene	ND	1300	ug/Kg	05/14/98	RM	SW 8021
1,2-Dichloroethane	ND	1300	ug/Kg	05/14/98	RM	SW 8021
1,2-Dichloropropane	ND	1300	ug/Kg	05/14/98	RM	SW 8021
1,3,5-Trimethylbenzene	8400	1300	ug/Kg	05/14/98	RM	SW 8021
1,3-Dichlorobenzene	ND	1300	ug/Kg	05/14/98	RM	SW 8021
1,3-Dichloropropane	ND	1300	ug/Kg	05/14/98	RM	SW 8021
1,4-Dichlorobenzene	ND	1300	ug/Kg	05/14/98	RM	SW 8021
2,2-Dichloropropane	ND	1300	ug/Kg	05/14/98	RM	SW 8021
2-Chlorotoluene	ND	1300	ug/Kg	05/14/98	RM	SW 8021
4-Chlorotoluene	ND	1300	ug/Kg	05/14/98	RM	SW 8021
Benzene	ND	1300	ug/Kg	05/14/98	RM	SW 8021
Bromobenzene	ND	1300	ug/Kg	05/14/98	RM	SW 8021
Bromochloromethane	ND	1300	ug/Kg	05/14/98	RM	SW 8021
Bromodichloromethane	ND	1300	ug/Kg	05/14/98	RM	SW 8021
Bromoform	ND	1300	ug/Kg	05/14/98	RM	SW 8021
Bromomethane	ND	1300	ug/Kg	05/14/98	RM	SW 8021
Carbon tetrachloride	ND	1300	ug/Kg	05/14/98	RM	SW 8021
Chlorobenzene	ND	1300	ug/Kg	05/14/98	RM	SW 8021
Chloroethane	ND	1300	ug/Kg	05/14/98	RM	SW 8021
Chloroform	ND	1300	ug/Kg	05/14/98	RM	SW 8021
Chloromethane	ND	1300	ug/Kg	05/14/98	RM	SW 8021
cis-1,2-Dichloroethene	ND	1300	ug/Kg	05/14/98	RM	SW 8021
Dibromochloromethane	ND	1300	ug/Kg	05/14/98	RM	SW 8021
Dibromomethane	ND	1300	ug/Kg	05/14/98	RM	SW 8021
Dichlorodifluoromethane	ND	1300	ug/Kg	05/14/98	RM	SW 8021
Ethylbenzene	ND	1300	ug/Kg	05/14/98	RM	SW 8021
Hexachlorobutadiene	ND	1300	ug/Kg	05/14/98	RM	SW 8021
Isopropylbenzene	7200	1300	ug/Kg	05/14/98	RM	SW 8021
Methylene chloride	ND	1300	ug/Kg	05/14/98	RM	SW 8021

Client ID: BCF OIL BROOKLYN SB03 (6-7) Phoenix I.D. AB78416

Parameter	Result	MDL	Units	Date	by	Reference
n-Butylbenzene	21000	1300	ug/Kg	05/14/98	RM	SW 8021
n-Propylbenzene	31000	1300	ug/Kg	05/14/98	RM	SW 8021
Naphthalene	18000	1300	ug/Kg	05/14/98	RM	SW 8021
o-Xylene	ND	1300	ug/Kg	05/14/98	RM	SW 8021
p&m-Xylene	3000	1300	ug/Kg	05/14/98	RM	SW 8021
p-Isopropyltoluene	2800	1300	ug/Kg	05/14/98	RM	SW 8021
sec-Butylbenzene	5700	1300	ug/Kg	05/14/98	RM	SW 8021
Styrene	ND	1300	ug/Kg	05/14/98	RM	SW 8021
tert-Butylbenzene	ND	1300	ug/Kg	05/14/98	RM	SW 8021
Tetrachloroethene	ND	1300	ug/Kg	05/14/98	RM	SW 8021
Toluene	ND	1300	ug/Kg	05/14/98	RM	SW 8021
trans-1,2-Dichloroethene	ND	1300	ug/Kg	05/14/98	RM	SW 8021
Trichloroethene	ND	1300	ug/Kg	05/14/98	RM	SW 8021
Trichlorofluoromethane	ND	1300	ug/Kg	05/14/98	RM	SW 8021
Vinyl chloride	ND	1300	ug/Kg	05/14/98	RM	SW 8021
Semivolatiles						
Acenaphthene	5300	330	ug/Kg	05/12/98	S/P	SW 8270
Anthracene	13000	3300	ug/Kg	05/12/98	S/P	SW 8270
Benzo(a)anthracene	18000	3300	ug/Kg	05/12/98	S/P	SW 8270
Benzo(a)pyrene	5900	330	ug/Kg	05/12/98	S/P	SW 8270
Benzo(b)fluoranthene	11000	3300	ug/Kg	05/12/98	S/P	SW 8270
Benzo(g,h,i)perylene	220	330	ug/Kg	05/12/98	S/P	SW 8270
Benzo(k)fluoranthene	2700	330	ug/Kg	05/12/98	S/P	SW 8270
Chrysene	12000	3300	ug/Kg	05/12/98	S/P	SW 8270
Dibenz(a,h)anthracene	830	330	ug/Kg	05/12/98	S/P	SW 8270
Fluoranthene	28000	3300	ug/Kg	05/12/98	S/P	SW 8270
Fluorene	610	330	ug/Kg	05/12/98	S/P	SW 8270
Indeno(1,2,3-c,d)pyrene	2300	330	ug/Kg	05/12/98	S/P	SW 8270
Naphthalene	1300	330	ug/Kg	05/12/98	S/P	SW 8270
Phenanthrene	55000	3300	ug/Kg	05/12/98	S/P	SW 8270
Pyrene	20000	3300	ug/Kg	05/12/98	S/P	SW 8270

Comments: ND=Not detected MDL = Minimum Detectable Limit BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extenstion 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
May 22, 1998

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 22, 1998

FOR: Attn: Mr. Frank Williams
Rust Environment Infrastructure
12 Metro Park Road
Albany, NY 12205

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	KM	05/08/98	13:00
Location Code:	RUST-ENV	Received by:	SW	05/11/98	11:00
Project Code:		Analyzed by:	see below		
P.O.#:					

Laboratory Data

Client ID: BCF OIL BROOKLYN SB04 (6-7) Phoenix I.D. AB78417

Parameter	Result	MDL	Units	Date	by	Reference
Methyl Tert Butyl Ether	ND	20	ug/Kg	05/12/98	RM	SW8260
Percent Solid	85.0	0.1	%	05/11/98	JB	160.3
Sonication Ext. For PCB	Completed			05/11/98	T/E	SW846-3550
Sonic Ext. for Semi-Vol	Completed			05/10/98	T/E	SW846-3550
Polychlorinated Biphenyls						
PCB-1016	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1221	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1232	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1242	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1248	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1254	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1260	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1262	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1268	ND	80	ug/Kg	05/13/98	JE	SW 8082
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	25	ug/Kg	05/12/98	RM	SW 8021
1,1,1-Trichloroethane	ND	25	ug/Kg	05/12/98	RM	SW 8021
1,1,2,2-Tetrachloroethane	ND	25	ug/Kg	05/12/98	RM	SW 8021
1,1,2-Trichloroethane	ND	25	ug/Kg	05/12/98	RM	SW 8021
1,1-Dichloroethane	ND	25	ug/Kg	05/12/98	RM	SW 8021

Client ID: BCF OIL BROOKLYN SB04 (6-7) Phoenix I.D. AB78417

Parameter	Result	MDL	Units	Date	by	Reference
1,1-Dichloroethene	ND	25	ug/Kg	05/12/98	RM	SW 8021
1,1-Dichloropropene	ND	25	ug/Kg	05/12/98	RM	SW 8021
1,2,3-Trichlorobenzene	ND	25	ug/Kg	05/12/98	RM	SW 8021
1,2,3-Trichloropropane	ND	25	ug/Kg	05/12/98	RM	SW 8021
1,2,4-Trichlorobenzene	ND	25	ug/Kg	05/12/98	RM	SW 8021
1,2,4-Trimethylbenzene	ND	25	ug/Kg	05/12/98	RM	SW 8021
1,2-Dibromo-3-chloropropane(DBCP	ND	25	ug/Kg	05/12/98	RM	SW 8021
1,2-Dibromoethane(EDB)	ND	25	ug/Kg	05/12/98	RM	SW 8021
1,2-Dichlorobenzene	ND	25	ug/Kg	05/12/98	RM	SW 8021
1,2-Dichloroethane	ND	25	ug/Kg	05/12/98	RM	SW 8021
1,2-Dichloropropane	ND	25	ug/Kg	05/12/98	RM	SW 8021
1,3,5-Trimethylbenzene	ND	25	ug/Kg	05/12/98	RM	SW 8021
1,3-Dichlorobenzene	ND	25	ug/Kg	05/12/98	RM	SW 8021
1,3-Dichloropropane	ND	25	ug/Kg	05/12/98	RM	SW 8021
1,4-Dichlorobenzene	ND	25	ug/Kg	05/12/98	RM	SW 8021
2,2-Dichloropropane	ND	25	ug/Kg	05/12/98	RM	SW 8021
2-Chlorotoluene	ND	25	ug/Kg	05/12/98	RM	SW 8021
4-Chlorotoluene	ND	25	ug/Kg	05/12/98	RM	SW 8021
Benzene	ND	25	ug/Kg	05/12/98	RM	SW 8021
Bromobenzene	ND	25	ug/Kg	05/12/98	RM	SW 8021
Bromochloromethane	ND	25	ug/Kg	05/12/98	RM	SW 8021
Bromodichloromethane	ND	25	ug/Kg	05/12/98	RM	SW 8021
Bromoform	ND	25	ug/Kg	05/12/98	RM	SW 8021
Bromomethane	ND	25	ug/Kg	05/12/98	RM	SW 8021
Carbon tetrachloride	ND	25	ug/Kg	05/12/98	RM	SW 8021
Chlorobenzene	ND	25	ug/Kg	05/12/98	RM	SW 8021
Chloroethane	ND	25	ug/Kg	05/12/98	RM	SW 8021
Chloroform	ND	25	ug/Kg	05/12/98	RM	SW 8021
Chloromethane	ND	25	ug/Kg	05/12/98	RM	SW 8021
cis-1,2-Dichloroethene	ND	25	ug/Kg	05/12/98	RM	SW 8021
Dibromochloromethane	ND	25	ug/Kg	05/12/98	RM	SW 8021
Dibromomethane	ND	25	ug/Kg	05/12/98	RM	SW 8021
Dichlorodifluoromethane	ND	25	ug/Kg	05/12/98	RM	SW 8021
Ethylbenzene	ND	25	ug/Kg	05/12/98	RM	SW 8021
Hexachlorobutadiene	ND	25	ug/Kg	05/12/98	RM	SW 8021
Isopropylbenzene	ND	25	ug/Kg	05/12/98	RM	SW 8021
Methylene chloride	ND	25	ug/Kg	05/12/98	RM	SW 8021

Client ID: BCF OIL BROOKLYN SB04 (6-7) Phoenix I.D. AB78417

Parameter	Result	MDL	Units	Date	by	Reference
n-Butylbenzene	ND	25	ug/Kg	05/12/98	RM	SW 8021
n-Propylbenzene	ND	25	ug/Kg	05/12/98	RM	SW 8021
Naphthalene	26	25	ug/Kg	05/12/98	RM	SW 8021
o-Xylene	ND	25	ug/Kg	05/12/98	RM	SW 8021
p&m-Xylene	ND	25	ug/Kg	05/12/98	RM	SW 8021
p-Isopropyltoluene	ND	25	ug/Kg	05/12/98	RM	SW 8021
sec-Butylbenzene	38	25	ug/Kg	05/12/98	RM	SW 8021
Styrene	ND	25	ug/Kg	05/12/98	RM	SW 8021
tert-Butylbenzene	ND	25	ug/Kg	05/12/98	RM	SW 8021
Tetrachloroethene	ND	25	ug/Kg	05/12/98	RM	SW 8021
Toluene	ND	25	ug/Kg	05/12/98	RM	SW 8021
trans-1,2-Dichloroethene	ND	25	ug/Kg	05/12/98	RM	SW 8021
Trichloroethene	ND	25	ug/Kg	05/12/98	RM	SW 8021
Trichlorofluoromethane	ND	25	ug/Kg	05/12/98	RM	SW 8021
Vinyl chloride	ND	25	ug/Kg	05/12/98	RM	SW 8021
Semivolatiles						
Acenaphthene	ND	330	ug/Kg	05/12/98	S/P	SW 8270
Anthracene	ND	330	ug/Kg	05/12/98	S/P	SW 8270
Benzo(a)anthracene	1500	330	ug/Kg	05/12/98	S/P	SW 8270
Benzo(a)pyrene	1500	330	ug/Kg	05/12/98	S/P	SW 8270
Benzo(b)fluoranthene	1600	330	ug/Kg	05/12/98	S/P	SW 8270
Benzo(g,h,i)perylene	1100	330	ug/Kg	05/12/98	S/P	SW 8270
Benzo(k)fluoranthene	760	330	ug/Kg	05/12/98	S/P	SW 8270
Chrysene	1600	330	ug/Kg	05/12/98	S/P	SW 8270
Dibenz(a,h)anthracene	ND	330	ug/Kg	05/12/98	S/P	SW 8270
Fluoranthene	1500	330	ug/Kg	05/12/98	S/P	SW 8270
Fluorene	ND	330	ug/Kg	05/12/98	S/P	SW 8270
Indeno(1,2,3-c,d)pyrene	990	330	ug/Kg	05/12/98	S/P	SW 8270
Naphthalene	ND	330	ug/Kg	05/12/98	S/P	SW 8270
Phenanthrene	1700	330	ug/Kg	05/12/98	S/P	SW 8270
Pyrene	1200	330	ug/Kg	05/12/98	S/P	SW 8270

Comments: ND=Not detected MDL = Minimum Detectable Limit BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extenstion 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
May 22, 1998

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 22, 1998

FOR: Attn: Mr. Frank Williams
Rust Environment Infrastructure
12 Metro Park Road
Albany, NY 12205

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	KM	05/08/98	14:00
Location Code:	RUST-ENV	Received by:	SW	05/11/98	11:00
Project Code:		Analyzed by:	see below		
P.O.#:					

Laboratory Data

Client ID: BCF OIL BROOKLYN SB05 (6-7) Phoenix I.D. AB78418

Parameter	Result	MDL	Units	Date	by	Reference
Methyl Tert Butyl Ether	BDL	250	ug/Kg	05/14/98	RM	SW8260
Percent Solid	86.1	0.1	%	05/11/98	JB	160.3
Sonication Ext. For PCB	Completed			05/11/98	T/E	SW846-3550
Sonic Ext. for Semi-Vol	Completed			05/10/98	T/E	SW846-3550
Polychlorinated Biphenyls						
PCB-1016	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1221	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1232	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1242	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1248	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1254	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1260	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1262	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1268	ND	80	ug/Kg	05/13/98	JE	SW 8082
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	05/12/98	RM	SW 8021
1,1,1-Trichloroethane	ND	250	ug/Kg	05/12/98	RM	SW 8021
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	05/12/98	RM	SW 8021
1,1,2-Trichloroethane	ND	250	ug/Kg	05/12/98	RM	SW 8021
1,1-Dichloroethane	ND	250	ug/Kg	05/12/98	RM	SW 8021

Client ID: BCF OIL BROOKLYN SB05 (6-7) Phoenix I.D. AB78418

Parameter	Result	MDL	Units	Date	by	Reference
1,1-Dichloroethene	ND	250	ug/Kg	05/12/98	RM	SW 8021
1,1-Dichloropropene	ND	250	ug/Kg	05/12/98	RM	SW 8021
1,2,3-Trichlorobenzene	ND	250	ug/Kg	05/12/98	RM	SW 8021
1,2,3-Trichloropropane	ND	250	ug/Kg	05/12/98	RM	SW 8021
1,2,4-Trichlorobenzene	ND	250	ug/Kg	05/12/98	RM	SW 8021
1,2,4-Trimethylbenzene	400	250	ug/Kg	05/12/98	RM	SW 8021
1,2-Dibromo-3-chloropropane(DBCP)	ND	250	ug/Kg	05/12/98	RM	SW 8021
1,2-Dibromoethane(EDB)	ND	250	ug/Kg	05/12/98	RM	SW 8021
1,2-Dichlorobenzene	ND	250	ug/Kg	05/12/98	RM	SW 8021
1,2-Dichloroethane	ND	250	ug/Kg	05/12/98	RM	SW 8021
1,2-Dichloropropane	ND	250	ug/Kg	05/12/98	RM	SW 8021
1,3,5-Trimethylbenzene	ND	250	ug/Kg	05/12/98	RM	SW 8021
1,3-Dichlorobenzene	ND	250	ug/Kg	05/12/98	RM	SW 8021
1,3-Dichloropropane	ND	250	ug/Kg	05/12/98	RM	SW 8021
1,4-Dichlorobenzene	ND	250	ug/Kg	05/12/98	RM	SW 8021
2,2-Dichloropropane	ND	250	ug/Kg	05/12/98	RM	SW 8021
2-Chlorotoluene	ND	250	ug/Kg	05/12/98	RM	SW 8021
4-Chlorotoluene	ND	250	ug/Kg	05/12/98	RM	SW 8021
Benzene	ND	250	ug/Kg	05/12/98	RM	SW 8021
Bromobenzene	ND	250	ug/Kg	05/12/98	RM	SW 8021
Bromochloromethane	ND	250	ug/Kg	05/12/98	RM	SW 8021
Bromodichloromethane	ND	250	ug/Kg	05/12/98	RM	SW 8021
Bromoform	ND	250	ug/Kg	05/12/98	RM	SW 8021
Bromomethane	ND	250	ug/Kg	05/12/98	RM	SW 8021
Carbon tetrachloride	ND	250	ug/Kg	05/12/98	RM	SW 8021
Chlorobenzene	ND	250	ug/Kg	05/12/98	RM	SW 8021
Chloroethane	ND	250	ug/Kg	05/12/98	RM	SW 8021
Chloroform	ND	250	ug/Kg	05/12/98	RM	SW 8021
Chloromethane	ND	250	ug/Kg	05/12/98	RM	SW 8021
cis-1,2-Dichloroethene	ND	250	ug/Kg	05/12/98	RM	SW 8021
Dibromochloromethane	ND	250	ug/Kg	05/12/98	RM	SW 8021
Dibromomethane	ND	250	ug/Kg	05/12/98	RM	SW 8021
Dichlorodifluoromethane	ND	250	ug/Kg	05/12/98	RM	SW 8021
Ethylbenzene	ND	250	ug/Kg	05/12/98	RM	SW 8021
Hexachlorobutadiene	ND	250	ug/Kg	05/12/98	RM	SW 8021
Isopropylbenzene	ND	250	ug/Kg	05/12/98	RM	SW 8021
Methylene chloride	ND	250	ug/Kg	05/12/98	RM	SW 8021

Client ID: BCF OIL BROOKLYN SB05 (6-7) Phoenix I.D. AB78418

Parameter	Result	MDL	Units	Date	by	Reference
n-Butylbenzene	1200	250	ug/Kg	05/12/98	RM	SW 8021
n-Propylbenzene	ND	250	ug/Kg	05/12/98	RM	SW 8021
Naphthalene	930	250	ug/Kg	05/12/98	RM	SW 8021
o-Xylene	ND	250	ug/Kg	05/12/98	RM	SW 8021
p&m-Xylene	ND	250	ug/Kg	05/12/98	RM	SW 8021
p-Isopropyltoluene	ND	250	ug/Kg	05/12/98	RM	SW 8021
sec-Butylbenzene	420	250	ug/Kg	05/12/98	RM	SW 8021
Styrene	ND	250	ug/Kg	05/12/98	RM	SW 8021
tert-Butylbenzene	ND	250	ug/Kg	05/12/98	RM	SW 8021
Tetrachloroethene	ND	250	ug/Kg	05/12/98	RM	SW 8021
Toluene	500	250	ug/Kg	05/12/98	RM	SW 8021
trans-1,2-Dichloroethene	ND	250	ug/Kg	05/12/98	RM	SW 8021
Trichloroethene	ND	250	ug/Kg	05/12/98	RM	SW 8021
Trichlorofluoromethane	ND	250	ug/Kg	05/12/98	RM	SW 8021
Vinyl chloride	ND	250	ug/Kg	05/12/98	RM	SW 8021
Semivolatiles						
Acenaphthene	ND	1650	ug/Kg	05/12/98	S/P	SW 8270
Anthracene	2400	1650	ug/Kg	05/12/98	S/P	SW 8270
Benzo(a)anthracene	5500	1650	ug/Kg	05/12/98	S/P	SW 8270
Benzo(a)pyrene	4200	1650	ug/Kg	05/12/98	S/P	SW 8270
Benzo(b)fluoranthene	4800	1650	ug/Kg	05/12/98	S/P	SW 8270
Benzo(g,h,i)perylene	ND	1650	ug/Kg	05/12/98	S/P	SW 8270
Benzo(k)fluoranthene	ND	1650	ug/Kg	05/12/98	S/P	SW 8270
Chrysene	5700	1650	ug/Kg	05/12/98	S/P	SW 8270
Dibenz(a,h)anthracene	ND	1650	ug/Kg	05/12/98	S/P	SW 8270
Fluoranthene	3100	1650	ug/Kg	05/12/98	S/P	SW 8270
Fluorene	2700	1650	ug/Kg	05/12/98	S/P	SW 8270
Indeno(1,2,3-c,d)pyrene	ND	1650	ug/Kg	05/12/98	S/P	SW 8270
Naphthalene	4300	1650	ug/Kg	05/12/98	S/P	SW 8270
Phenanthrene	12000	1650	ug/Kg	05/12/98	S/P	SW 8270
Pyrene	5600	1650	ug/Kg	05/12/98	S/P	SW 8270

Comments: ND=Not detected MDL = Minimum Detectable Limit BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extenstion 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
May 22, 1998

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 22, 1998

FOR: Attn: Mr. Frank Williams
Rust Environment Infrastructure
12 Metro Park Road
Albany, NY 12205

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	KM	05/08/98	14:15
Location Code:	RUST-ENV	Received by:	SW	05/11/98	11:00
Project Code:		Analyzed by:	see below		
P.O.#:					

Laboratory Data

Client ID: BCF OIL BROOKLYN SB05 (12-13) Phoenix I.D. AB78419

Parameter	Result	MDL	Units	Date	by	Reference
Methyl Tert Butyl Ether	ND	50	ug/Kg	05/12/98	RM	SW8260
Percent Solid	80.2	0.1	%	05/11/98	JB	160.3
Sonication Ext. For PCB	Completed			05/11/98	T/E	SW846-3550
Sonic Ext. for Semi-Vol	Completed			05/10/98	T/E	SW846-3550
Polychlorinated Biphenyls						
PCB-1016	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1221	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1232	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1242	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1248	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1254	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1260	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1262	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1268	ND	80	ug/Kg	05/13/98	JE	SW 8082
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	05/12/98	RM	SW 8021
1,1,1-Trichloroethane	ND	250	ug/Kg	05/12/98	RM	SW 8021
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	05/12/98	RM	SW 8021
1,1,2-Trichloroethane	ND	250	ug/Kg	05/12/98	RM	SW 8021
1,1-Dichloroethane	ND	250	ug/Kg	05/12/98	RM	SW 8021

Client ID: BCF OIL BROOKLYN SB05 (12-13) Phoenix I.D. AB78419

Parameter	Result	MDL	Units	Date	by	Reference
1,1-Dichloroethene	ND	250	ug/Kg	05/12/98	RM	SW 8021
1,1-Dichloropropene	ND	250	ug/Kg	05/12/98	RM	SW 8021
1,2,3-Trichlorobenzene	ND	250	ug/Kg	05/12/98	RM	SW 8021
1,2,3-Trichloropropane	ND	250	ug/Kg	05/12/98	RM	SW 8021
1,2,4-Trichlorobenzene	ND	250	ug/Kg	05/12/98	RM	SW 8021
1,2,4-Trimethylbenzene	350	250	ug/Kg	05/12/98	RM	SW 8021
1,2-Dibromo-3-chloropropane(DBCP)	ND	250	ug/Kg	05/12/98	RM	SW 8021
1,2-Dibromoethane(EDB)	ND	250	ug/Kg	05/12/98	RM	SW 8021
1,2-Dichlorobenzene	ND	250	ug/Kg	05/12/98	RM	SW 8021
1,2-Dichloroethane	ND	250	ug/Kg	05/12/98	RM	SW 8021
1,2-Dichloropropane	ND	250	ug/Kg	05/12/98	RM	SW 8021
1,3,5-Trimethylbenzene	ND	250	ug/Kg	05/12/98	RM	SW 8021
1,3-Dichlorobenzene	ND	250	ug/Kg	05/12/98	RM	SW 8021
1,3-Dichloropropane	ND	250	ug/Kg	05/12/98	RM	SW 8021
1,4-Dichlorobenzene	ND	250	ug/Kg	05/12/98	RM	SW 8021
2,2-Dichloropropane	ND	250	ug/Kg	05/12/98	RM	SW 8021
2-Chlorotoluene	ND	250	ug/Kg	05/12/98	RM	SW 8021
4-Chlorotoluene	ND	250	ug/Kg	05/12/98	RM	SW 8021
Benzene	ND	250	ug/Kg	05/12/98	RM	SW 8021
Bromobenzene	ND	250	ug/Kg	05/12/98	RM	SW 8021
Bromochloromethane	ND	250	ug/Kg	05/12/98	RM	SW 8021
Bromodichloromethane	ND	250	ug/Kg	05/12/98	RM	SW 8021
Bromoform	ND	250	ug/Kg	05/12/98	RM	SW 8021
Bromomethane	ND	250	ug/Kg	05/12/98	RM	SW 8021
Carbon tetrachloride	ND	250	ug/Kg	05/12/98	RM	SW 8021
Chlorobenzene	ND	250	ug/Kg	05/12/98	RM	SW 8021
Chloroethane	ND	250	ug/Kg	05/12/98	RM	SW 8021
Chloroform	ND	250	ug/Kg	05/12/98	RM	SW 8021
Chloromethane	ND	250	ug/Kg	05/12/98	RM	SW 8021
cis-1,2-Dichloroethene	ND	250	ug/Kg	05/12/98	RM	SW 8021
Dibromochloromethane	ND	250	ug/Kg	05/12/98	RM	SW 8021
Dibromomethane	ND	250	ug/Kg	05/12/98	RM	SW 8021
Dichlorodifluoromethane	ND	250	ug/Kg	05/12/98	RM	SW 8021
Ethylbenzene	ND	250	ug/Kg	05/12/98	RM	SW 8021
Hexachlorobutadiene	ND	250	ug/Kg	05/12/98	RM	SW 8021
Isopropylbenzene	ND	250	ug/Kg	05/12/98	RM	SW 8021
Methylene chloride	ND	250	ug/Kg	05/12/98	RM	SW 8021

Client ID: BCF OIL BROOKLYN SB05 (12-13) Phoenix I.D. AB78419

Parameter	Result	MDL	Units	Date	by	Reference
n-Butylbenzene	590	250	ug/Kg	05/12/98	RM	SW 8021
n-Propylbenzene	ND	250	ug/Kg	05/12/98	RM	SW 8021
Naphthalene	ND	250	ug/Kg	05/12/98	RM	SW 8021
o-Xylene	ND	250	ug/Kg	05/12/98	RM	SW 8021
p&m-Xylene	ND	250	ug/Kg	05/12/98	RM	SW 8021
p-Isopropyltoluene	ND	250	ug/Kg	05/12/98	RM	SW 8021
sec-Butylbenzene	ND	250	ug/Kg	05/12/98	RM	SW 8021
Styrene	ND	250	ug/Kg	05/12/98	RM	SW 8021
tert-Butylbenzene	ND	250	ug/Kg	05/12/98	RM	SW 8021
Tetrachloroethene	ND	250	ug/Kg	05/12/98	RM	SW 8021
Toluene	530	250	ug/Kg	05/12/98	RM	SW 8021
trans-1,2-Dichloroethene	ND	250	ug/Kg	05/12/98	RM	SW 8021
Trichloroethene	ND	250	ug/Kg	05/12/98	RM	SW 8021
Trichlorofluoromethane	ND	250	ug/Kg	05/12/98	RM	SW 8021
Vinyl chloride	ND	250	ug/Kg	05/12/98	RM	SW 8021
Semivolatiles						
Acenaphthene	470	330	ug/Kg	05/12/98	S/P	SW 8270
Anthracene	ND	330	ug/Kg	05/12/98	S/P	SW 8270
Benzo(a)anthracene	ND	330	ug/Kg	05/12/98	S/P	SW 8270
Benzo(a)pyrene	ND	330	ug/Kg	05/12/98	S/P	SW 8270
Benzo(b)fluoranthene	ND	330	ug/Kg	05/12/98	S/P	SW 8270
Benzo(g,h,i)perylene	ND	330	ug/Kg	05/12/98	S/P	SW 8270
Benzo(k)fluoranthene	ND	330	ug/Kg	05/12/98	S/P	SW 8270
Chrysene	ND	330	ug/Kg	05/12/98	S/P	SW 8270
Dibenz(a,h)anthracene	ND	330	ug/Kg	05/12/98	S/P	SW 8270
Fluoranthene	ND	330	ug/Kg	05/12/98	S/P	SW 8270
Fluorene	630	330	ug/Kg	05/12/98	S/P	SW 8270
Indeno(1,2,3-c,d)pyrene	ND	330	ug/Kg	05/12/98	S/P	SW 8270
Naphthalene	ND	330	ug/Kg	05/12/98	S/P	SW 8270
Phenanthrene	1600	330	ug/Kg	05/12/98	S/P	SW 8270
Pyrene	440	330	ug/Kg	05/12/98	S/P	SW 8270

Comments: ND=Not detected MDL = Minimum Detectable Limit BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extenstion 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
May 22, 1998

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 22, 1998

FOR: Attn: Mr. Frank Williams
Rust Environment Infrastructure
12 Metro Park Road
Albany, NY 12205

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	KM	05/08/98	15:00
Location Code:	RUST-ENV	Received by:	SW	05/11/98	11:00
Project Code:		Analyzed by:	see below		
P.O.#:					

Laboratory Data

Client ID: BCF OIL BROOKLYN SB06 (6-9) Phoenix I.D. AB78420

Parameter	Result	MDL	Units	Date	by	Reference
Methyl Tert Butyl Ether	ND	200	ug/Kg	05/12/98	RM	SW8260
Percent Solid	75.8	0.1	%	05/11/98	JB	160.3
Sonication Ext. For PCB	Completed			05/11/98	T/E	SW846-3550
Sonic Ext. for Semi-Vol	Completed			05/10/98	T/E	SW846-3550
Polychlorinated Biphenyls						
PCB-1016	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1221	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1232	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1242	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1248	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1254	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1260	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1262	ND	80	ug/Kg	05/13/98	JE	SW 8082
PCB-1268	ND	80	ug/Kg	05/13/98	JE	SW 8082
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	1000	ug/Kg	05/12/98	RM	SW 8021
1,1,1-Trichloroethane	ND	1000	ug/Kg	05/12/98	RM	SW 8021
1,1,2,2-Tetrachloroethane	ND	1000	ug/Kg	05/12/98	RM	SW 8021
1,1,2-Trichloroethane	ND	1000	ug/Kg	05/12/98	RM	SW 8021
1,1-Dichloroethane	ND	1000	ug/Kg	05/12/98	RM	SW 8021

Client ID: BCF OIL BROOKLYN SB06 (6-9) Phoenix I.D. AB78420

Parameter	Result	MDL	Units	Date	by	Reference
1,1-Dichloroethene	ND	1000	ug/Kg	05/12/98	RM	SW 8021
1,1-Dichloropropene	ND	1000	ug/Kg	05/12/98	RM	SW 8021
1,2,3-Trichlorobenzene	ND	1000	ug/Kg	05/12/98	RM	SW 8021
1,2,3-Trichloropropane	ND	1000	ug/Kg	05/12/98	RM	SW 8021
1,2,4-Trichlorobenzene	ND	1000	ug/Kg	05/12/98	RM	SW 8021
1,2,4-Trimethylbenzene	ND	1000	ug/Kg	05/12/98	RM	SW 8021
1,2-Dibromo-3-chloropropane(DBCP)	ND	1000	ug/Kg	05/12/98	RM	SW 8021
1,2-Dibromoethane(EDB)	ND	1000	ug/Kg	05/12/98	RM	SW 8021
1,2-Dichlorobenzene	ND	1000	ug/Kg	05/12/98	RM	SW 8021
1,2-Dichloroethane	ND	1000	ug/Kg	05/12/98	RM	SW 8021
1,2-Dichloropropane	ND	1000	ug/Kg	05/12/98	RM	SW 8021
1,3,5-Trimethylbenzene	ND	1000	ug/Kg	05/12/98	RM	SW 8021
1,3-Dichlorobenzene	ND	1000	ug/Kg	05/12/98	RM	SW 8021
1,3-Dichloropropane	ND	1000	ug/Kg	05/12/98	RM	SW 8021
1,4-Dichlorobenzene	ND	1000	ug/Kg	05/12/98	RM	SW 8021
2,2-Dichloropropane	ND	1000	ug/Kg	05/12/98	RM	SW 8021
2-Chlorotoluene	ND	1000	ug/Kg	05/12/98	RM	SW 8021
4-Chlorotoluene	ND	1000	ug/Kg	05/12/98	RM	SW 8021
Benzene	ND	1000	ug/Kg	05/12/98	RM	SW 8021
Bromobenzene	ND	1000	ug/Kg	05/12/98	RM	SW 8021
Bromochloromethane	ND	1000	ug/Kg	05/12/98	RM	SW 8021
Bromodichloromethane	ND	1000	ug/Kg	05/12/98	RM	SW 8021
Bromoform	ND	1000	ug/Kg	05/12/98	RM	SW 8021
Bromomethane	ND	1000	ug/Kg	05/12/98	RM	SW 8021
Carbon tetrachloride	ND	1000	ug/Kg	05/12/98	RM	SW 8021
Chlorobenzene	ND	1000	ug/Kg	05/12/98	RM	SW 8021
Chloroethane	ND	1000	ug/Kg	05/12/98	RM	SW 8021
Chloroform	ND	1000	ug/Kg	05/12/98	RM	SW 8021
Chloromethane	ND	1000	ug/Kg	05/12/98	RM	SW 8021
cis-1,2-Dichloroethene	ND	1000	ug/Kg	05/12/98	RM	SW 8021
Dibromochloromethane	ND	1000	ug/Kg	05/12/98	RM	SW 8021
Dibromomethane	ND	1000	ug/Kg	05/12/98	RM	SW 8021
Dichlorodifluoromethane	ND	1000	ug/Kg	05/12/98	RM	SW 8021
Ethylbenzene	ND	1000	ug/Kg	05/12/98	RM	SW 8021
Hexachlorobutadiene	ND	1000	ug/Kg	05/12/98	RM	SW 8021
Isopropylbenzene	9000	1000	ug/Kg	05/12/98	RM	SW 8021
Methylene chloride	ND	1000	ug/Kg	05/12/98	RM	SW 8021

Client ID: BCF OIL BROOKLYN SB06 (6-9) Phoenix I.D. AB78420

Parameter	Result	MDL	Units	Date	by	Reference
n-Butylbenzene	16000	1000	ug/Kg	05/12/98	RM	SW 8021
n-Propylbenzene	28000	1000	ug/Kg	05/12/98	RM	SW 8021
Naphthalene	2700	1000	ug/Kg	05/12/98	RM	SW 8021
o-Xylene	ND	1000	ug/Kg	05/12/98	RM	SW 8021
p&m-Xylene	ND	1000	ug/Kg	05/12/98	RM	SW 8021
p-Isopropyltoluene	1700	1000	ug/Kg	05/12/98	RM	SW 8021
sec-Butylbenzene	6300	1000	ug/Kg	05/12/98	RM	SW 8021
Styrene	ND	1000	ug/Kg	05/12/98	RM	SW 8021
tert-Butylbenzene	ND	1000	ug/Kg	05/12/98	RM	SW 8021
Tetrachloroethene	ND	1000	ug/Kg	05/12/98	RM	SW 8021
Toluene	2300	1000	ug/Kg	05/12/98	RM	SW 8021
trans-1,2-Dichloroethene	ND	1000	ug/Kg	05/12/98	RM	SW 8021
Trichloroethene	ND	1000	ug/Kg	05/12/98	RM	SW 8021
Trichlorofluoromethane	ND	1000	ug/Kg	05/12/98	RM	SW 8021
Vinyl chloride	ND	1000	ug/Kg	05/12/98	RM	SW 8021
Semivolatiles						
Acenaphthene	1800	330	ug/Kg	05/12/98	S/P	SW 8270
Anthracene	1700	330	ug/Kg	05/12/98	S/P	SW 8270
Benzo(a)anthracene	1300	330	ug/Kg	05/12/98	S/P	SW 8270
Benzo(a)pyrene	930	330	ug/Kg	05/12/98	S/P	SW 8270
Benzo(b)fluoranthene	1100	330	ug/Kg	05/12/98	S/P	SW 8270
Benzo(g,h,i)perylene	ND	330	ug/Kg	05/12/98	S/P	SW 8270
Benzo(k)fluoranthene	ND	330	ug/Kg	05/12/98	S/P	SW 8270
Chrysene	1500	330	ug/Kg	05/12/98	S/P	SW 8270
Dibenz(a,h)anthracene	ND	330	ug/Kg	05/12/98	S/P	SW 8270
Fluoranthene	2100	330	ug/Kg	05/12/98	S/P	SW 8270
Fluorene	2200	330	ug/Kg	05/12/98	S/P	SW 8270
Indeno(1,2,3-c,d)pyrene	490	330	ug/Kg	05/12/98	S/P	SW 8270
Naphthalene	ND	330	ug/Kg	05/12/98	S/P	SW 8270
Phenanthrene	8500	330	ug/Kg	05/12/98	S/P	SW 8270
Pyrene	2100	330	ug/Kg	05/12/98	S/P	SW 8270

Comments: ND=Not detected MDL = Minimum Detectable Limit BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extenstion 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
May 22, 1998

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 22, 1998

FOR: Attn: Mr. Frank Williams
Rust Environment Infrastructure
12 Metro Park Road
Albany, NY 12205

Sample Information		Custody Information		Date	Time
Matrix:	OIL	Collected by:	KM	05/08/98	15:00
Location Code:	RUST-ENV	Received by:	SW	05/11/98	11:00
Project Code:		Analyzed by:	see below		
P.O.#:					

Laboratory Data

Client ID: BCF OIL BROOKLYN MW-1 Phoenix I.D. AB78421

Parameter	Result	MDL	Units	Date	by	Reference
Waste Dilution	Completed	NA	NA	05/13/98	TR	SW3580
Polychlorinated Biphenyls						
PCB-1016	ND	1.0	mg/kg	05/13/98	JE	SW 8082
PCB-1221	ND	1.0	mg/kg	05/13/98	JE	SW 8082
PCB-1232	ND	1.0	mg/kg	05/13/98	JE	SW 8082
PCB-1242	ND	1.0	mg/kg	05/13/98	JE	SW 8082
PCB-1248	ND	1.0	mg/kg	05/13/98	JE	SW 8082
PCB-1254	ND	1.0	mg/kg	05/13/98	JE	SW 8082
PCB-1260	ND	1.0	mg/kg	05/13/98	JE	SW 8082
PCB-1262	ND	1.0	mg/kg	05/13/98	JE	SW 8082
PCB-1268	ND	1.0	mg/kg	05/13/98	JE	SW 8082

Comments: ND=Not detected MDL = Minimum Detectable Limit BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extenstion 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
May 22, 1998

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 22, 1998

FOR: Attn: Mr. Frank Williams
Rust Environment Infrastructure
12 Metro Park Road
Albany, NY 12205

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	KM	05/08/98	15:20
Location Code:	RUST-ENV	Received by:	SW	05/11/98	11:00
Project Code:		Analyzed by:	see below		
P.O.#:					

Laboratory Data

Client ID: BCF OIL BROOKLYN MW-4 Phoenix I.D. AB78422

Parameter	Result	MDL	Units	Date	by	Reference
Methyl Tert Butyl Ether	ND	5.0	ug/L	05/12/98	RM	SW8240
Sep. Funnel for PCB	Completed			05/12/98	PL	sw846-3510
Sep. Funnel Semi-Vol	Completed			05/12/98	PL	sw846-3510
Polychlorinated Biphenyls						
PCB-1016	ND	1.0	ug/l	05/13/98	JE	SW 8082
PCB-1221	ND	1.0	ug/l	05/13/98	JE	SW 8082
PCB-1232	ND	1.0	ug/l	05/13/98	JE	SW 8082
PCB-1242	ND	1.0	ug/l	05/13/98	JE	SW 8082
PCB-1248	ND	1.0	ug/l	05/13/98	JE	SW 8082
PCB-1254	ND	1.0	ug/l	05/13/98	JE	SW 8082
PCB-1260	ND	1.0	ug/l	05/13/98	JE	SW 8082
PCB-1262	ND	1.0	ug/l	05/13/98	JE	SW 8082
PCB-1268	ND	1.0	ug/l	05/13/98	JE	SW 8082
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	05/12/98	RM	SW 8021
1,1,1-Trichloroethane	ND	5.0	ug/L	05/12/98	RM	SW 8021
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	05/12/98	RM	SW 8021
1,1,2-Trichloroethane	ND	5.0	ug/L	05/12/98	RM	SW 8021
1,1-Dichloroethane	ND	5.0	ug/L	05/12/98	RM	SW 8021
1,1-Dichloroethene	ND	5.0	ug/L	05/12/98	RM	SW 8021

Client ID: BCF OIL BROOKLYN MW-4 Phoenix I.D. AB78422

Parameter	Result	MDL	Units	Date	by	Reference
1,1-Dichloropropene	ND	5.0	ug/L	05/12/98	RM	SW 8021
1,2,3-Trichlorobenzene	ND	5.0	ug/L	05/12/98	RM	SW 8021
1,2,3-Trichloropropane	ND	5.0	ug/L	05/12/98	RM	SW 8021
1,2,4-Trichlorobenzene	ND	5.0	ug/L	05/12/98	RM	SW 8021
1,2,4-Trimethylbenzene	ND	5.0	ug/L	05/12/98	RM	SW 8021
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	ug/L	05/12/98	RM	SW 8021
1,2-Dibromoethane(EDB)	ND	5.0	ug/L	05/12/98	RM	SW 8021
1,2-Dichlorobenzene	ND	5.0	ug/L	05/12/98	RM	SW 8021
1,2-Dichloroethane	ND	5.0	ug/L	05/12/98	RM	SW 8021
1,2-Dichloropropane	ND	5.0	ug/L	05/12/98	RM	SW 8021
1,3,5-Trimethylbenzene	ND	5.0	ug/L	05/12/98	RM	SW 8021
1,3-Dichlorobenzene	ND	5.0	ug/L	05/12/98	RM	SW 8021
1,3-Dichloropropane	ND	5.0	ug/L	05/12/98	RM	SW 8021
1,4-Dichlorobenzene	ND	5.0	ug/L	05/12/98	RM	SW 8021
2,2-Dichloropropane	ND	5.0	ug/L	05/12/98	RM	SW 8021
2-Chlorotoluene	ND	5.0	ug/L	05/12/98	RM	SW 8021
4-Chlorotoluene	ND	5.0	ug/L	05/12/98	RM	SW 8021
Benzene	37	5.0	ug/L	05/12/98	RM	SW 8021
Bromobenzene	ND	5.0	ug/L	05/12/98	RM	SW 8021
Bromochloromethane	ND	5.0	ug/L	05/12/98	RM	SW 8021
Bromodichloromethane	ND	5.0	ug/L	05/12/98	RM	SW 8021
Bromoform	ND	5.0	ug/L	05/12/98	RM	SW 8021
Bromomethane	ND	5.0	ug/L	05/12/98	RM	SW 8021
Carbon tetrachloride	ND	5.0	ug/L	05/12/98	RM	SW 8021
Chlorobenzene	ND	5.0	ug/L	05/12/98	RM	SW 8021
Chloroethane	ND	5.0	ug/L	05/12/98	RM	SW 8021
Chloroform	ND	5.0	ug/L	05/12/98	RM	SW 8021
Chloromethane	ND	5.0	ug/L	05/12/98	RM	SW 8021
cis-1,2-Dichloroethene	ND	5.0	ug/L	05/12/98	RM	SW 8021
Dibromochloromethane	ND	5.0	ug/L	05/12/98	RM	SW 8021
Dibromomethane	ND	5.0	ug/L	05/12/98	RM	SW 8021
Dichlorodifluoromethane	ND	5.0	ug/L	05/12/98	RM	SW 8021
Ethylbenzene	ND	5.0	ug/L	05/12/98	RM	SW 8021
Hexachlorobutadiene	ND	5.0	ug/L	05/12/98	RM	SW 8021
Isopropylbenzene	10	5.0	ug/L	05/12/98	RM	SW 8021
Methylene chloride	ND	5.0	ug/L	05/12/98	RM	SW 8021
n-Butylbenzene	ND	5.0	ug/L	05/12/98	RM	SW 8021

Client ID: BCF OIL BROOKLYN MW-4 Phoenix I.D. AB78422

Parameter	Result	MDL	Units	Date	by	Reference
n-Propylbenzene	12	5.0	ug/L	05/12/98	RM	SW 8021
Naphthalene	ND	5.0	ug/L	05/12/98	RM	SW 8021
o-Xylene	ND	5.0	ug/L	05/12/98	RM	SW 8021
p&m-Xylene	9.0	5.0	ug/L	05/12/98	RM	SW 8021
p-Isopropyltoluene	ND	5.0	ug/L	05/12/98	RM	SW 8021
sec-Butylbenzene	ND	5.0	ug/L	05/12/98	RM	SW 8021
Styrene	ND	5.0	ug/L	05/12/98	RM	SW 8021
tert-Butylbenzene	ND	5.0	ug/L	05/12/98	RM	SW 8021
Tetrachloroethene	ND	5.0	ug/L	05/12/98	RM	SW 8021
Toluene	180	5.0	ug/L	05/12/98	RM	SW 8021
trans-1,2-Dichloroethene	ND	5.0	ug/L	05/12/98	RM	SW 8021
Trichloroethene	ND	5.0	ug/L	05/12/98	RM	SW 8021
Trichlorofluoromethane	ND	5.0	ug/L	05/12/98	RM	SW 8021
Vinyl chloride	ND	5.0	ug/L	05/12/98	RM	SW 8021
Semivolatiles						
Acenaphthene	ND	8	ug/L	05/14/98	SC	SW 8270
Anthracene	ND	8	ug/L	05/14/98	SC	SW 8270
Benzo(a)anthracene	ND	31	ug/L	05/14/98	SC	SW 8270
Benzo(a)pyrene	ND	10	ug/L	05/14/98	SC	SW 8270
Benzo(b)fluoranthene	ND	19	ug/L	05/14/98	SC	SW 8270
Benzo(g,h,i)perylene	ND	10	ug/L	05/14/98	SC	SW 8270
Benzo(k)fluoranthene	ND	10	ug/L	05/14/98	SC	SW 8270
Chrysene	ND	10	ug/L	05/14/98	SC	SW 8270
Dibenz(a,h)anthracene	ND	10	ug/L	05/14/98	SC	SW 8270
Fluoranthene	ND	8	ug/L	05/14/98	SC	SW 8270
Fluorene	ND	8	ug/L	05/14/98	SC	SW 8270
Indeno(1,2,3-c,d)pyrene	ND	10	ug/L	05/14/98	SC	SW 8270
Naphthalene	ND	6	ug/L	05/14/98	SC	SW 8270
Phenanthrene	ND	22	ug/L	05/14/98	SC	SW 8270
Pyrene	ND	8	ug/L	05/14/98	SC	SW 8270

Comments: ND=Not detected MDL = Minimum Detectable Limit BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extenstion 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
May 22, 1998

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 22, 1998

FOR: Attn: Mr. Frank Williams
Rust Environment Infrastructure
12 Metro Park Road
Albany, NY 12205

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	KM	05/08/98	14:20
Location Code:	RUST-ENV	Received by:	SW	05/11/98	11:00
Project Code:		Analyzed by:	see below		
P.O.#:					

Laboratory Data

Client ID: BCF OIL BROOKLYN MW-5 Phoenix I.D. AB78423

Parameter	Result	MDL	Units	Date	by	Reference
Methyl Tert Butyl Ether	ND	50	ug/L	05/12/98	RM	SW8240
Sep. Funnel for PCB	Completed			05/12/98	PL	sw846-3510
Sep. Funnel Semi-Vol	Completed			05/12/98	PL	sw846-3510
Polychlorinated Biphenyls						
PCB-1016	ND	1.0	ug/l	05/13/98	JE	SW 8082
PCB-1221	ND	1.0	ug/l	05/13/98	JE	SW 8082
PCB-1232	ND	1.0	ug/l	05/13/98	JE	SW 8082
PCB-1242	ND	1.0	ug/l	05/13/98	JE	SW 8082
PCB-1248	ND	1.0	ug/l	05/13/98	JE	SW 8082
PCB-1254	ND	1.0	ug/l	05/13/98	JE	SW 8082
PCB-1260	ND	1.0	ug/l	05/13/98	JE	SW 8082
PCB-1262	ND	1.0	ug/l	05/13/98	JE	SW 8082
PCB-1268	ND	1.0	ug/l	05/13/98	JE	SW 8082
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	50	ug/L	05/12/98	RM	SW 8021
1,1,1-Trichloroethane	ND	50	ug/L	05/12/98	RM	SW 8021
1,1,2,2-Tetrachloroethane	ND	50	ug/L	05/12/98	RM	SW 8021
1,1,2-Trichloroethane	ND	50	ug/L	05/12/98	RM	SW 8021
1,1-Dichloroethane	ND	50	ug/L	05/12/98	RM	SW 8021
1,1-Dichloroethene	ND	50	ug/L	05/12/98	RM	SW 8021

Client ID: BCF OIL BROOKLYN MW-5 Phoenix I.D. AB78423

Parameter	Result	MDL	Units	Date	by	Reference
1,1-Dichloropropene	ND	50	ug/L	05/12/98	RM	SW 8021
1,2,3-Trichlorobenzene	ND	50	ug/L	05/12/98	RM	SW 8021
1,2,3-Trichloropropane	ND	50	ug/L	05/12/98	RM	SW 8021
1,2,4-Trichlorobenzene	ND	50	ug/L	05/12/98	RM	SW 8021
1,2,4-Trimethylbenzene	200	50	ug/L	05/12/98	RM	SW 8021
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	ug/L	05/12/98	RM	SW 8021
1,2-Dibromoethane(EDB)	ND	50	ug/L	05/12/98	RM	SW 8021
1,2-Dichlorobenzene	ND	50	ug/L	05/12/98	RM	SW 8021
1,2-Dichloroethane	ND	50	ug/L	05/12/98	RM	SW 8021
1,2-Dichloropropane	ND	50	ug/L	05/12/98	RM	SW 8021
1,3,5-Trimethylbenzene	110	50	ug/L	05/12/98	RM	SW 8021
1,3-Dichlorobenzene	ND	50	ug/L	05/12/98	RM	SW 8021
1,3-Dichloropropane	ND	50	ug/L	05/12/98	RM	SW 8021
1,4-Dichlorobenzene	ND	50	ug/L	05/12/98	RM	SW 8021
2,2-Dichloropropane	ND	50	ug/L	05/12/98	RM	SW 8021
2-Chlorotoluene	ND	50	ug/L	05/12/98	RM	SW 8021
4-Chlorotoluene	ND	50	ug/L	05/12/98	RM	SW 8021
Benzene	1200	50	ug/L	05/12/98	RM	SW 8021
Bromobenzene	ND	50	ug/L	05/12/98	RM	SW 8021
Bromochloromethane	ND	50	ug/L	05/12/98	RM	SW 8021
Bromodichloromethane	ND	50	ug/L	05/12/98	RM	SW 8021
Bromoform	ND	50	ug/L	05/12/98	RM	SW 8021
Bromomethane	ND	50	ug/L	05/12/98	RM	SW 8021
Carbon tetrachloride	ND	50	ug/L	05/12/98	RM	SW 8021
Chlorobenzene	ND	50	ug/L	05/12/98	RM	SW 8021
Chloroethane	ND	50	ug/L	05/12/98	RM	SW 8021
Chloroform	ND	50	ug/L	05/12/98	RM	SW 8021
Chloromethane	ND	50	ug/L	05/12/98	RM	SW 8021
cis-1,2-Dichloroethene	ND	50	ug/L	05/12/98	RM	SW 8021
Dibromochloromethane	ND	50	ug/L	05/12/98	RM	SW 8021
Dibromomethane	ND	50	ug/L	05/12/98	RM	SW 8021
Dichlorodifluoromethane	ND	50	ug/L	05/12/98	RM	SW 8021
Ethylbenzene	230	50	ug/L	05/12/98	RM	SW 8021
Hexachlorobutadiene	ND	50	ug/L	05/12/98	RM	SW 8021
Isopropylbenzene	80	50	ug/L	05/12/98	RM	SW 8021
Methylene chloride	ND	50	ug/L	05/12/98	RM	SW 8021
n-Butylbenzene	ND	50	ug/L	05/12/98	RM	SW 8021

Client ID: BCF OIL BROOKLYN MW-5 Phoenix I.D. AB78423

Parameter	Result	MDL	Units	Date	by	Reference
n-Propylbenzene	240	50	ug/L	05/12/98	RM	SW 8021
Naphthalene	ND	50	ug/L	05/12/98	RM	SW 8021
o-Xylene	ND	50	ug/L	05/12/98	RM	SW 8021
p&m-Xylene	220	50	ug/L	05/12/98	RM	SW 8021
p-Isopropyltoluene	ND	50	ug/L	05/12/98	RM	SW 8021
sec-Butylbenzene	ND	50	ug/L	05/12/98	RM	SW 8021
Styrene	ND	50	ug/L	05/12/98	RM	SW 8021
tert-Butylbenzene	ND	50	ug/L	05/12/98	RM	SW 8021
Tetrachloroethene	ND	50	ug/L	05/12/98	RM	SW 8021
Toluene	100	50	ug/L	05/12/98	RM	SW 8021
trans-1,2-Dichloroethene	ND	50	ug/L	05/12/98	RM	SW 8021
Trichloroethene	ND	50	ug/L	05/12/98	RM	SW 8021
Trichlorofluoromethane	ND	50	ug/L	05/12/98	RM	SW 8021
Vinyl chloride	ND	50	ug/L	05/12/98	RM	SW 8021
Semivolatiles						
Acenaphthene	ND	8	ug/L	05/14/98	SC	SW 8270
Anthracene	ND	8	ug/L	05/14/98	SC	SW 8270
Benzo(a)anthracene	ND	31	ug/L	05/14/98	SC	SW 8270
Benzo(a)pyrene	ND	10	ug/L	05/14/98	SC	SW 8270
Benzo(b)fluoranthene	ND	19	ug/L	05/14/98	SC	SW 8270
Benzo(g,h,i)perylene	ND	10	ug/L	05/14/98	SC	SW 8270
Benzo(k)fluoranthene	ND	10	ug/L	05/14/98	SC	SW 8270
Chrysene	ND	10	ug/L	05/14/98	SC	SW 8270
Dibenz(a,h)anthracene	ND	10	ug/L	05/14/98	SC	SW 8270
Fluoranthene	ND	8	ug/L	05/14/98	SC	SW 8270
Fluorene	ND	8	ug/L	05/14/98	SC	SW 8270
Indeno(1,2,3-c,d)pyrene	ND	10	ug/L	05/14/98	SC	SW 8270
Naphthalene	ND	6	ug/L	05/14/98	SC	SW 8270
Phenanthrene	ND	22	ug/L	05/14/98	SC	SW 8270
Pyrene	ND	8	ug/L	05/14/98	SC	SW 8270

Comments: ND=Not detected MDL = Minimum Detectable Limit BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extenstion 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
May 22, 1998

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 22, 1998

FOR: Attn: Mr. Frank Williams
Rust Environment Infrastructure
12 Metro Park Road
Albany, NY 12205

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	KM	05/08/98	16:00
Location Code:	RUST-ENV	Received by:	SW	05/11/98	11:00
Project Code:		Analyzed by:	see below		
P.O.#:					

Laboratory Data

Client ID: BCF OIL BROOKLYN MW-7 Phoenix I.D. AB78424

Parameter	Result	MDL	Units	Date	by	Reference
Methyl Tert Butyl Ether	BDL	50	ug/L	05/14/98	RM	SW8240
Sep. Funnel for PCB	Completed			05/12/98	PL	sw846-3510
Sep. Funnel Semi-Vol	Completed			05/12/98	PL	sw846-3510
Polychlorinated Biphenyls						
PCB-1016	ND	1.0	ug/l	05/13/98	JE	SW 8082
PCB-1221	ND	1.0	ug/l	05/13/98	JE	SW 8082
PCB-1232	ND	1.0	ug/l	05/13/98	JE	SW 8082
PCB-1242	ND	1.0	ug/l	05/13/98	JE	SW 8082
PCB-1248	ND	1.0	ug/l	05/13/98	JE	SW 8082
PCB-1254	ND	1.0	ug/l	05/13/98	JE	SW 8082
PCB-1260	ND	1.0	ug/l	05/13/98	JE	SW 8082
PCB-1262	ND	1.0	ug/l	05/13/98	JE	SW 8082
PCB-1268	ND	1.0	ug/l	05/13/98	JE	SW 8082
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	10	ug/L	05/12/98	RM	SW 8021
1,1,1-Trichloroethane	ND	10	ug/L	05/12/98	RM	SW 8021
1,1,2,2-Tetrachloroethane	ND	10	ug/L	05/12/98	RM	SW 8021
1,1,2-Trichloroethane	ND	10	ug/L	05/12/98	RM	SW 8021
1,1-Dichloroethane	ND	10	ug/L	05/12/98	RM	SW 8021
1,1-Dichloroethene	ND	10	ug/L	05/12/98	RM	SW 8021

Client ID: BCF OIL BROOKLYN MW-7 Phoenix I.D. AB78424

Parameter	Result	MDL	Units	Date	by	Reference
1,1-Dichloropropene	ND	10	ug/L	05/12/98	RM	SW 8021
1,2,3-Trichlorobenzene	ND	10	ug/L	05/12/98	RM	SW 8021
1,2,3-Trichloropropane	ND	10	ug/L	05/12/98	RM	SW 8021
1,2,4-Trichlorobenzene	ND	10	ug/L	05/12/98	RM	SW 8021
1,2,4-Trimethylbenzene	33	10	ug/L	05/12/98	RM	SW 8021
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	ug/L	05/12/98	RM	SW 8021
1,2-Dibromoethane(EDB)	ND	10	ug/L	05/12/98	RM	SW 8021
1,2-Dichlorobenzene	ND	10	ug/L	05/12/98	RM	SW 8021
1,2-Dichloroethane	ND	10	ug/L	05/12/98	RM	SW 8021
1,2-Dichloropropane	ND	10	ug/L	05/12/98	RM	SW 8021
1,3,5-Trimethylbenzene	ND	10	ug/L	05/12/98	RM	SW 8021
1,3-Dichlorobenzene	ND	10	ug/L	05/12/98	RM	SW 8021
1,3-Dichloropropane	ND	10	ug/L	05/12/98	RM	SW 8021
1,4-Dichlorobenzene	ND	10	ug/L	05/12/98	RM	SW 8021
2,2-Dichloropropane	ND	10	ug/L	05/12/98	RM	SW 8021
2-Chlorotoluene	ND	10	ug/L	05/12/98	RM	SW 8021
4-Chlorotoluene	ND	10	ug/L	05/12/98	RM	SW 8021
Benzene	540	10	ug/L	05/12/98	RM	SW 8021
Bromobenzene	ND	10	ug/L	05/12/98	RM	SW 8021
Bromochloromethane	ND	10	ug/L	05/12/98	RM	SW 8021
Bromodichloromethane	ND	10	ug/L	05/12/98	RM	SW 8021
Bromoform	ND	10	ug/L	05/12/98	RM	SW 8021
Bromomethane	ND	10	ug/L	05/12/98	RM	SW 8021
Carbon tetrachloride	ND	10	ug/L	05/12/98	RM	SW 8021
Chlorobenzene	ND	10	ug/L	05/12/98	RM	SW 8021
Chloroethane	ND	10	ug/L	05/12/98	RM	SW 8021
Chloroform	ND	10	ug/L	05/12/98	RM	SW 8021
Chloromethane	ND	10	ug/L	05/12/98	RM	SW 8021
cis-1,2-Dichloroethene	ND	10	ug/L	05/12/98	RM	SW 8021
Dibromochloromethane	ND	10	ug/L	05/12/98	RM	SW 8021
Dibromomethane	ND	10	ug/L	05/12/98	RM	SW 8021
Dichlorodifluoromethane	ND	10	ug/L	05/12/98	RM	SW 8021
Ethylbenzene	180	10	ug/L	05/12/98	RM	SW 8021
Hexachlorobutadiene	ND	10	ug/L	05/12/98	RM	SW 8021
Isopropylbenzene	150	10	ug/L	05/12/98	RM	SW 8021
Methylene chloride	ND	10	ug/L	05/12/98	RM	SW 8021
n-Butylbenzene	ND	10	ug/L	05/12/98	RM	SW 8021

Client ID: BCF OIL BROOKLYN MW-7 Phoenix I.D. AB78424

Parameter	Result	MDL	Units	Date	by	Reference
n-Propylbenzene	70	10	ug/L	05/12/98	RM	SW 8021
Naphthalene	200	10	ug/L	05/12/98	RM	SW 8021
o-Xylene	26	10	ug/L	05/12/98	RM	SW 8021
p&m-Xylene	20	10	ug/L	05/12/98	RM	SW 8021
p-Isopropyltoluene	ND	10	ug/L	05/12/98	RM	SW 8021
sec-Butylbenzene	ND	10	ug/L	05/12/98	RM	SW 8021
Styrene	ND	10	ug/L	05/12/98	RM	SW 8021
tert-Butylbenzene	ND	10	ug/L	05/12/98	RM	SW 8021
Tetrachloroethene	ND	10	ug/L	05/12/98	RM	SW 8021
Toluene	18	10	ug/L	05/12/98	RM	SW 8021
trans-1,2-Dichloroethene	ND	10	ug/L	05/12/98	RM	SW 8021
Trichloroethene	ND	10	ug/L	05/12/98	RM	SW 8021
Trichlorofluoromethane	ND	10	ug/L	05/12/98	RM	SW 8021
Vinyl chloride	ND	10	ug/L	05/12/98	RM	SW 8021
Semivolatiles						
Acenaphthene	ND	10	ug/L	05/14/98	SC	SW 8270
Anthracene	ND	10	ug/L	05/14/98	SC	SW 8270
Benzo(a)anthracene	ND	37	ug/L	05/14/98	SC	SW 8270
Benzo(a)pyrene	ND	12	ug/L	05/14/98	SC	SW 8270
Benzo(b)fluoranthene	ND	23	ug/L	05/14/98	SC	SW 8270
Benzo(g,h,i)perylene	ND	12	ug/L	05/14/98	SC	SW 8270
Benzo(k)fluoranthene	ND	12	ug/L	05/14/98	SC	SW 8270
Chrysene	ND	12	ug/L	05/14/98	SC	SW 8270
Dibenz(a,h)anthracene	ND	12	ug/L	05/14/98	SC	SW 8270
Fluoranthene	ND	10	ug/L	05/14/98	SC	SW 8270
Fluorene	ND	10	ug/L	05/14/98	SC	SW 8270
Indeno(1,2,3-c,d)pyrene	ND	12	ug/L	05/14/98	SC	SW 8270
Naphthalene	81	7	ug/L	05/14/98	SC	SW 8270
Phenanthrene	ND	26	ug/L	05/14/98	SC	SW 8270
Pyrene	ND	10	ug/L	05/14/98	SC	SW 8270

Comments: ND=Not detected MDL = Minimum Detectable Limit BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extenstion 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
May 22, 1998

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 22, 1998

FOR: Attn: Mr. Frank Williams
Rust Environment Infrastructure
12 Metro Park Road
Albany, NY 12205

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	KM	05/08/98	12:14
Location Code:	RUST-ENV	Received by:	SW	05/11/98	11:00
Project Code:		Analyzed by:	see below		
P.O.#:					

Laboratory Data

Client ID: BCF OIL BROOKLYN TB050898 Phoenix I.D. AB78425

Parameter	Result	MDL	Units	Date	by	Reference
Methyl Tert Butyl Ether	ND	5.0	ug/L	05/12/98	RM	SW8240
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	05/12/98	RM	SW 8021
1,1,1-Trichloroethane	ND	1.0	ug/L	05/12/98	RM	SW 8021
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	05/12/98	RM	SW 8021
1,1,2-Trichloroethane	ND	1.0	ug/L	05/12/98	RM	SW 8021
1,1-Dichloroethane	ND	1.0	ug/L	05/12/98	RM	SW 8021
1,1-Dichloroethene	ND	1.0	ug/L	05/12/98	RM	SW 8021
1,1-Dichloropropene	ND	1.0	ug/L	05/12/98	RM	SW 8021
1,2,3-Trichlorobenzene	ND	1.0	ug/L	05/12/98	RM	SW 8021
1,2,3-Trichloropropane	ND	1.0	ug/L	05/12/98	RM	SW 8021
1,2,4-Trichlorobenzene	ND	1.0	ug/L	05/12/98	RM	SW 8021
1,2,4-Trimethylbenzene	ND	1.0	ug/L	05/12/98	RM	SW 8021
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	ug/L	05/12/98	RM	SW 8021
1,2-Dibromoethane(EDB)	ND	1.0	ug/L	05/12/98	RM	SW 8021
1,2-Dichlorobenzene	ND	1.0	ug/L	05/12/98	RM	SW 8021
1,2-Dichloroethane	ND	1.0	ug/L	05/12/98	RM	SW 8021
1,2-Dichloropropane	ND	1.0	ug/L	05/12/98	RM	SW 8021
1,3,5-Trimethylbenzene	ND	1.0	ug/L	05/12/98	RM	SW 8021
1,3-Dichlorobenzene	ND	1.0	ug/L	05/12/98	RM	SW 8021

Client ID: BCF OIL BROOKLYN TB050898 Phoenix I.D. AB78425

Parameter	Result	MDL	Units	Date	by	Reference
1,3-Dichloropropane	ND	1.0	ug/L	05/12/98	RM	SW 8021
1,4-Dichlorobenzene	ND	1.0	ug/L	05/12/98	RM	SW 8021
2,2-Dichloropropane	ND	1.0	ug/L	05/12/98	RM	SW 8021
2-Chlorotoluene	ND	1.0	ug/L	05/12/98	RM	SW 8021
4-Chlorotoluene	ND	1.0	ug/L	05/12/98	RM	SW 8021
Benzene	ND	1.0	ug/L	05/12/98	RM	SW 8021
Bromobenzene	ND	1.0	ug/L	05/12/98	RM	SW 8021
Bromochloromethane	ND	1.0	ug/L	05/12/98	RM	SW 8021
Bromodichloromethane	ND	1.0	ug/L	05/12/98	RM	SW 8021
Bromoform	ND	1.0	ug/L	05/12/98	RM	SW 8021
Bromomethane	ND	1.0	ug/L	05/12/98	RM	SW 8021
Carbon tetrachloride	ND	1.0	ug/L	05/12/98	RM	SW 8021
Chlorobenzene	ND	1.0	ug/L	05/12/98	RM	SW 8021
Chloroethane	ND	1.0	ug/L	05/12/98	RM	SW 8021
Chloroform	ND	1.0	ug/L	05/12/98	RM	SW 8021
Chloromethane	ND	1.0	ug/L	05/12/98	RM	SW 8021
cis-1,2-Dichloroethene	ND	1.0	ug/L	05/12/98	RM	SW 8021
Dibromochloromethane	ND	1.0	ug/L	05/12/98	RM	SW 8021
Dibromomethane	ND	1.0	ug/L	05/12/98	RM	SW 8021
Dichlorodifluoromethane	ND	1.0	ug/L	05/12/98	RM	SW 8021
Ethylbenzene	ND	1.0	ug/L	05/12/98	RM	SW 8021
Hexachlorobutadiene	ND	1.0	ug/L	05/12/98	RM	SW 8021
Isopropylbenzene	ND	1.0	ug/L	05/12/98	RM	SW 8021
Methylene chloride	ND	1.0	ug/L	05/12/98	RM	SW 8021
n-Butylbenzene	ND	1.0	ug/L	05/12/98	RM	SW 8021
n-Propylbenzene	ND	1.0	ug/L	05/12/98	RM	SW 8021
Naphthalene	ND	1.0	ug/L	05/12/98	RM	SW 8021
o-Xylene	ND	1.0	ug/L	05/12/98	RM	SW 8021
p&m-Xylene	ND	1.0	ug/L	05/12/98	RM	SW 8021
p-Isopropyltoluene	ND	1.0	ug/L	05/12/98	RM	SW 8021
sec-Butylbenzene	ND	1.0	ug/L	05/12/98	RM	SW 8021
Styrene	ND	1.0	ug/L	05/12/98	RM	SW 8021
tert-Butylbenzene	ND	1.0	ug/L	05/12/98	RM	SW 8021
Tetrachloroethene	ND	1.0	ug/L	05/12/98	RM	SW 8021
Toluene	ND	1.0	ug/L	05/12/98	RM	SW 8021
trans-1,2-Dichloroethene	ND	1.0	ug/L	05/12/98	RM	SW 8021
Trichloroethene	ND	1.0	ug/L	05/12/98	RM	SW 8021

Client ID: BCF OIL BROOKLYN TB050898 Phoenix I.D. AB78425

Parameter	Result	MDL	Units	Date	by	Reference
Trichlorofluoromethane	ND	1.0	ug/L	05/12/98	RM	SW 8021
Vinyl chloride	ND	1.0	ug/L	05/12/98	RM	SW 8021

Comments: ND=Not detected MDL = Minimum Detectable Limit BDL = Below Detection Limit

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If there are any questions regarding this data, please call Phoenix Client Services at extenstion 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
May 22, 1998

Chain of Custody
Rust Environment and Infrastructure
12 Metro Park Road
Albany, N.Y. 12205 Ph: (518) 458-1313 Fax: (518) 458-2472

RUST

Client Name: Schumacher
Project No.: 38808, 10000
Site Location: BCF Oil, 360 Marcy Ave, Brooklyn
Sampler: K. McGrath, F. Williams

Rust Contact: Frank Williams 518 435 7236
Laboratory Contact: Andy Phelan
Lab Identification: Phoenix Environmental
Date Report Required: Normal

Sample Identification	Date	Time	Sample Matrix	Collection Vessel	# Sample Containers	Preserv.	Comp. or Grab	ANALYSIS REQUIRED/COMMENTS	
SB01 (11-12)	5/8/98	10:30	Soil	Macro-Core	2	—	G	8021, 8270 SVOCs, 8082 PCB	78413
SB02 (2-3)		11:00	Soil	Macro-Core	1	—	G	8021	78414
SB02 (6-7)		11:10	Soil	Macro-Core	2	—	G	8021, 8270 SVOCs, 8082 (PCB)	78415
SB03 (6-7)		11:30	Soil	Macro-Core	2	—	G	8021, 8270 SVOCs, 8082 (PCB)	78416
SB04 (6-7)		13:00	Soil	Macro-Core	2	—	G	8021, 8270 SVOCs, 8082 (PCB)	78417
SB05 (6-7)		14:00	Soil	Macro-Core	2	—	G	8021, 8270 SVOCs, 8082 (PCB)	78418
SB05 (12-13)		14:15	Soil	Macro-Core	2	—	G	8021, 8270 SVOCs, 8082 (PCB)	78419
SB06 (6-9)		15:00	Soil	Large Core	2	—	G	8021, 8270 SVOCs, 8082 (PCB)	78420
MW-1		15:00	GW(?)	Bailer	1	—	G	8082	78421
MW-4		15:20	GW	Bailer	5	—	G	8021, 8270 SVOCs, 8082 (PCB)	78422
MW-5		14:20	GW	Bailer	5	—	G	8021, 8270 SVOCs, 8082 (PCB)	78423
MW-7		16:00	GW	Bailer	5	—	G	8021, 8270 SVOCs, 8082 (PCB)	78424
TB050898	↓	—	—	—	2	—	—	8021	78425
									78426QC

	Name	Affiliation	Date	Time
Relinquished by:	[illegible]	RUST	5/8/98	1700
Received by:				
Relinquished by:				
Received by:				

	Name	Date	Time
Received by Laboratory:	[illegible]	5/11/98	11:00

Samples Intact & Properly Preserved: Yes or No
Laboratory Comments: Samples Rec'd Cold

Form 3C