

**QUARTERLY MONITORING REPORT
FOR FEBRUARY 1994
SAFETY-KLEEN CORPORATION
MANHATTAN AVENUE FACILITY
TAMPA, FLORIDA
CLOSURE PERMIT NO. HF29-158003
EPA ID NO. FLD 049 557 408**

PREPARED FOR:

**SAFETY-KLEEN CORPORATION
1000 North Randall Road
Elgin, Illinois 60123**

ATTACHMENT 5-H-2

PREPARED BY:



Environmental Consulting & Technology, Inc.

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94080-1111

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Department of Environmental Protection
SOUTHWEST DISTRICT
BY _____

April 22, 1994
94080-1111

Hazardous Waste Supervisor
Florida Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619-8318

**Re: Safety-Kleen Corporation, Manhattan Avenue, Tampa Facility
Quarterly Monitoring Report, February 1994 and
Remedial System Report
Closure Permit No. HF29-158003**

Dear Hazardous Waste Supervisor:

On behalf of Safety-Kleen Corporation, Environmental Consulting & Technology, Inc. (ECT) herein submits results of the February 1994 quarterly ground water monitoring pursuant to Specific Condition IV.4 of the referenced permit. In addition, this document includes the quarterly remedial system report pursuant to Specific Conditions IV.13 and 14.

QUARTERLY GROUND WATER MONITORING REPORT--FEBRUARY 1994

Ground water samples and water level data were collected in February 1994 according to procedures described in the closure permit and the June 6, 1993 quality assurance project plan (QAPP) for the facility. The ground water samples were submitted to Analytical Technologies, Inc. (ATI) for analysis of the parameters listed in Specific Condition IV.3 of the closure permit as modified on November 12, 1993.

Ground water samples were collected from all 11 monitor wells on February 22 and 23, 1994. Well sampling data forms are provided in Appendix A. Ground water levels and total well depths were measured at each well sampled. Ground water elevation data for February 22 are presented in Table 1 and a water table elevation contour map is shown in Figure 1. The inferred ground water flow direction is toward the east, consistent with historical data. Additional water table elevation contour maps document the ground water capture zone that is induced during ground water recovery (pumping), and are presented in the remediation system report section of this document.

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The laboratory report of ground water quality analytical methods and results is presented as Appendix B. Ground water quality results are summarized in Table 2. Concentration trends for select analytes are illustrated in Figure 2 for monitor well POC-2 and Figure 3 for POC-3. Well locations are shown in Figure 1.

Detection of organic compounds (Environmental Protection Agency [EPA] Methods 8240 and 8270) was essentially limited to ground water from monitor wells POC-2 and POC-3. Relative to the November 1993 quarterly results, organic compound concentrations generally decreased at POC-2 and increased at POC-3. The concentration of mineral spirits decreased appreciably at POC-2 and increased slightly at POC-3. Period of record trends suggest that essentially all contaminant concentrations are decreasing at these wells (Figures 2 and 3). Organic compounds detected above their respective Chapter 17-550, F.A.C. maximum contaminant levels (MCLs) include benzene at POC-2 (11 µg/L) and POC-3 (11 µg/L), and methylene chloride (dichloromethane) at DA-4D (7 µg/L) and DA-5D (6 µg/L).

Two anomalous detections of organic compounds were reported this quarter: tetrachloroethylene (PCE) (2 µg/L) at SA-3; and methylene chloride at DA-4D (7 µg/L), DA-5D (6 µg/L), and POC-3 (5 µg/L).

As discussed in the November 1993 quarterly report, PCE at SA-3 does not appear to be associated with ground water impacts from the Safety-Kleen facility. Based on ECT's review of the project file, PCE has never before been detected in ground water from any wells at the facility (except SA-3 last quarter). Further, no other organic contaminants have ever been detected at SA-3. The specific source of PCE is not known at this time; however, some evidence does exist. First, the PCE may be relatively "fresh" since none of its degradation products were detected (e.g., TCE, DCE, etc.). Second, SA-3 is located offsite in the wetland depression area (Figure 1). This area was flooded throughout much of the summer and early fall of 1993 as a result of stormwater accumulation, primarily from the industrial facilities north of the Safety-Kleen facility. It is possible that PCE was transported by stormwater runoff from the north to the wetland depression area. The very low electrical conductivity of ground water at SA-3 (120 micromhos per centimeter [μ mhos/cm]) reflects the effect of local recharge by infiltration of stormwater. The fact that the zinc concentration at SA-3 was 10 times higher than its historical average in November (0.34 milligrams per liter [mg/L]) may support the notion of PCE transport via stormwater; perhaps PCE is being used locally to clean zinc bearing materials. The concentration of PCE at SA-3 has decreased from 9 µg/L in November, 1993, to 2 µg/L in February 1994. Similarly, zinc at SA-3 has decreased from 0.34 to 0.13 mg/L in that time frame. These decreases may be attributable to the dry season paucity of "source" storm water to the wetland area, or simply attenuation.

Methylene chloride has never before been detected at the site according to the project files. The low concentrations reported, the peculiar spatial arrangement of the detection sites, and the fact that methylene chloride is commonly used for laboratory extractions suggest potential laboratory contamination as the source of methylene chloride. It is doubtful that methylene chloride actually occurs in site ground water.

No acetone was detected in any samples. This tends to support the interpretations presented in previous quarterly reports.

Concentrations of metals were generally below detection limits or very low. No metals were detected at concentrations exceeding their respective MCLs, except at DA-4D, which showed a turbidity value of 7,200 nephelometric turbidity units (NTU). The water from DA-4D has the appearance and consistency of chocolate milk. The water is not sand laden; the turbidity is apparently derived of clay particles laden with metals.

No lead was detected in ground water from any of the surficial aquifer monitor wells.

REMEDIATION SYSTEM REPORT

Specific Condition IV.13 of the closure permit requires quarterly reporting on the effectiveness of the soil and ground water recovery and treatment system. The specific items that must be included in the remediation system report are outlined in Specific Condition IV.14. Each of these items, "a" through "l", is reprinted below and followed by pertinent information.

Item a. A narrative summary on the effectiveness of the treatment and recovery system.

The entire soil and ground water recovery and treatment system began continuous, automated operation in late January 1994. Previously, the soil remediation system could not be operated due to unusually high water levels. This phenomenon has been discussed in several monthly reports submitted to the FDEP. The following discussion provides a summary of the effectiveness of the soil and ground water remediation system.

The ground water remediation system has undergone extensive and rigorous startup testing. As discussed in the November 1993 quarterly report, the objectives of the Phase 1 and Phase 2 startup testing were achieved in January, 1994. As such, Phase 3 operation, which includes monthly monitoring, was initiated in late January, 1994. The Phase 3 monthly sampling program includes influent and intercarbon sample analyses for the eight RCRA metals and volatile organic compounds by EPA Methods 8010/8020.

This report includes results of the monthly monitoring program for February and March, 1994 (Appendix C).

In addition, Appendix C also includes results of system effluent samples for lead collected on January 24, 26, 27, and 28, 1994. These four sampling events were conducted voluntarily by Safety-Kleen to follow the lead issue described in the November 1993 quarterly report. No lead was detected in these four samples; further, no lead has been detected in the remedial system water since October, 1993.

The ground water remediation system is effectively capturing the contaminant plume (see Items i and k, and Figures 5, 6, 8, and 10) and completely treating the impacted ground water (see Item g and Table 3). No volatile organics or metals have been detected in the treated ground water since the November 1993 quarterly report. Between January 26 and April 12, 1994, the ground water system treated 470,500 gallons of water to below detection limits for all analytes. All this treatment has been effected without use of the air stripper blower.

The soil vapor extraction (SVE) system has been operating constantly since January 24, 1994; the only exception was a manual shut down on February 22 and 23 during the quarterly ground water sampling event. The SVE system effectively removes organics from the soil vapor, as demonstrated by five sets of influent and effluent data (see Items g and l, and Table 4).

Item b. Any minor revisions or adjustments to the treatment and recovery system or plan.

The following adjustments have been made:

1. The solids filter configuration on the ground water treatment system has been adjusted by eliminating the use of the two high efficiency solids filters and replacing them with one slightly lower efficiency filter. This configuration provides effective filtration without excessive restriction to the system flow rate.
2. An extension fitting was added to the high level cut-off float switch in the transfer tank of the ground water system. This will allow additional room in the transfer tank to accept any water draining from the air stripper tower when the electric probe shuts the system off.
3. Fittings were added to the oil drain plug on the SVE system blower unit to facilitate oil changes.

4. The low oil level sensor switch on the air compressor was malfunctioning; cutting the compressor off when oil levels were well within operating range. The switch was bypassed to prevent these shutdowns.
5. Adjustments in flow rates at several points in the ground water treatment system have been made throughout the quarter. These adjustments have all been made to accommodate or balance the adjustments mentioned in Items b-1, b-2, and b-4 above. The symptoms leading to the revisions and adjustments made to the ground water treatment system are the cause of the varying operating intervals listed in Item e.

Item c. Any proposed modification to the treatment and recovery system.

No modifications are proposed at this time.

Item d. Complete inspection logs for previous three months. These logs must include inspections of the recovery well pump(s) and treatment systems.

Operation and maintenance logs are provided in Appendix D.

Item e. Record of when the treatment system is operating.

The soil vapor extraction system has been in continuous operation since January 24, 1994, except that it was turned off from February 22 to February 23 while quarterly ground water sampling was being conducted.

The ground water treatment system has been in continuous, automated operation since late January, 1994. The system is designed to shut off automatically by high-level switches if flows are not balanced. The list below summarizes the operation status of the ground water system for each site visit. Item b describes adjustments made to balance flows and keep the system running effectively.

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Date	Status Upon Arrival	Status Upon Departure
01/24/94	Off	On
01/27/94	Off	On
01/28/94	Off	On
02/02/94	Off	On
02/04/94	On	Off
02/09/94	Off	On
02/14/94	Off	On
02/15/94	On	On
02/16/94	On	On
02/22/94	Off	Off
02/23/94	Off	On
02/24/94	On	On
03/01/94	On	On
03/02/94	Off	On
03/10/94	On	On
03/14/94	Off	On
3/16/94	On	On
3/21/94	Off	On
03/24/94	Off	On
04/05/94	Off	On
04/12/94	On	On

Item f. Total volume of processed ground water.

As of January 26, 1994, a total of approximately 72,000 gallons of ground water had been recovered and treated. As of April 12, 1994, that total was 542,500 gallons.

Item g. Summary of influent/effluent data, chain-of-custodies, and lab reports.

This quarter's influent and effluent analytical data for ground water and soil vapor are summarized in Tables 3 and 4, respectively. Appendix C is comprised of chain-of-custodies and lab reports pertaining to the remediation system. These data are discussed in Items a and l of this report.

Item h. Summary of ground water data (including graphical representation) with emphasis on the most common contaminants and those most difficult to treat.

Period of record ground water quality data for monitor wells POC-2 and POC-3 are presented in Figures 2 and 3, respectively. These are the two most impacted wells at the site. The figures provide graphs of concentrations through time for the following analytes: benzene, chlorobenzene, ethylbenzene, xylenes, naphthalene, mineral spirits, lead, and turbidity. The long term trend is toward decreasing concentrations for each analyte. These trends are further discussed in the Quarterly Ground Water Monitoring Report section of this document.

Item i. Ground water elevation contour maps for previous six months.

Ground water elevation contour maps are provided for the following dates: September 21, 1993--immediately prior to pumping startup (Figure 4); September 21, 1993--1 hour after pumping startup (Figure 5); September 21, 1993--8 hours after pumping startup (Figure 6); November 17, 1993 (Figure 7); February 15, 1994--24 hours after restart of pumping (Figure 8); February 22, 1994--prior to restart of pumping (Figure 1); March 2, 1994--prior to restart of pumping (Figure 9); and March 10, 1994--8 days after restart of pumping (Figure 10). The ground water elevation contour maps in Figures 8, 9, and 10 are discussed in Item k of this report; the others have been discussed in their respective quarterly reports.

Item j. Record of repairs (wells, piping, etc.).

No repairs have been necessary.

Item k. Figure depicting the zone of capture of the recovery wells including delineation of stagnation points.

Pursuant to Specific Condition IV.12 of the closure permit, water table elevation contour maps are presented in Figures 8, 9, and 10. These maps represent water table elevations on: February 15, 1994--24 hours after a restart of pumping; March 2, 1994--immediately prior to restart of pumping; and March 10, 1994--8 days after a restart of pumping, respectively. Estimated capture zones and stagnation points for this quarter are illustrated in Figures 8 and 10. The capture zone appears to fully envelope the ground water contaminant plume.

Item I. Soil venting data.

As previously reported, unusually high water table elevations precluded continuous operation of the soil vapor extraction (SVE) system until January 1994. The SVE system has been operating constantly since January 24, 1994; the only exception was a manual shut down on February 22 and 23 during the quarterly ground water sampling event. Pursuant to the Corrective Action Plan (CAP), soil vapor influent and effluent were sampled weekly during the first month of operation, and a fifth sample was collected three weeks after the fourth weekly sample. Table 4 provides a summary of all analytical results for soil vapor samples including sample dates, analytes, and reported concentrations for influent and effluent. All vapor samples were analyzed by EPA Method 18, pursuant to the CAP, for benzene, toluene, ethylbenzene, xylenes (i.e., BTEX), MTBE, and total hydrocarbons.

None of the BTEX compounds nor MTBE were detected in any samples. Total hydrocarbons in the influent ranged from 1,800 to 2,800 milligrams per cubic meter (mg/m^3). The first effluent sample detected total hydrocarbons at $9.9 \text{ mg}/\text{m}^3$, whereas the last four samples show total hydrocarbons were completely removed (less than $2 \text{ mg}/\text{m}^3$) by this off gas treatment unit.

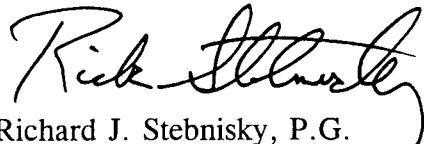
The SVE system effectively removes organic compounds from the soil vapor.

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If you have any questions or comments regarding this quarterly monitoring report, please contact me at (813) 289-9338 or John Hodges at (813) 682-8094. Thank you.

Sincerely,

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.



Richard J. Stebnisky, P.G.
Senior Hydrogeologist

April 22, 1994
Date



Guy T. Kaminski, P.E.
Senior Engineer--FL Lic. No. 41048

April 22, 94
Date

RJS/baj

Attachments: Tables 1 through 4
Figures 1 through 10
Appendices A through D

cc: John G. Hodges, Jr./SK
Gary Long/SK
Site file c/o Russ Giambrone/SK
Clare Burr

TABLES

Table 1. Water Table Elevations, February 22, 1994 (12:47 - 13:00 hrs)
 Safety-Kleen Corporation
 Manhattan Avenue, Tampa, Florida

Well No.	MP Elevation (ft-msl)	Depth to Water (ft)	Water Table Elevation (ft-msl)
POC-1	32.80	6.23	26.57
POC-2	32.77	6.15	26.62
POC-3	31.84	5.24	26.60
SA-1	28.29	2.17	26.12
SA-2	29.72	3.00	26.72
SA-3	27.49	1.61	25.88
SA-4	30.05	3.10	26.95
DA-4D	27.55	2.40	25.15
DA-5D	29.70	7.86	21.84
DA-1A	30.9*	5.41	25.5*
BG-1	32.83	5.37	27.46

Notes: MP = Measuring point.
 ft-msl = Feet above mean sea level.
 * = Approximate.

Source: ECT, 1994.

Table 2. Groundwater Quality Summary, February 1994
 Safety-Kleen Corporation, Manhattan Avenue, Tampa, Florida (Page 1 of 2)

Sample Location	BG-1	SA-1	SA-2	SA-3	SA-4	DA-1A	DA-4D	DA-5D	POC-1	POC-2	POC-2 Dupe	POC-3	Equip Blank	Blank	Trip Blank
Date Collected	02/22/94	02/22/94	02/22/94	02/22/94	02/22/94	02/23/94	02/23/94	02/23/94	02/23/94	02/23/94	02/23/94	02/23/94	02/22/94	02/22/94	02/22/94
Parameter, Units															
Hydrocarbons as Mineral Spirits, µg/L	<100	<100	<100	<100	<100	<100	<100	<100	<100	830	920	3200	<100	<100	NA
Methylene chloride, µg/L	<3	<3	<3	<3	<3	<3	7	6	<3	<3	5	<3	<3	<3	<3
Acetone, µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Carbon disulfide, µg/L	<1	7	<1	3	2	6	47	6	1	4	7	6	<1	<1	<1
1,1-Dichloroethene, µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane, µg/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Benzene, µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	11	10	11	<1	<1	<1
Tetrachloroethylene, µg/L	<1	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene, µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	50	52	64	<1	<1	<1
Ethylbenzene, µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	14	14	74	<1	<1	<1
Xylenes, µg/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	27	30	150	<2	<2	<2
1,2-Dichlorobenzene, µg/L	<3	<3	<3	<3	<3	<3	<3	<3	<3	11	13	15	<3	<3	<3
1,3-Dichlorobenzene, µg/L	<3	<3	<3	<3	<3	<3	<3	<3	<3	8	10	6	<3	<3	<3
1,4-Dichlorobenzene, µg/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	18	22	18	<5	<5	<5
Naphthalene, µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	27	18	120	<10	<10	NA
2,4-Dimethylphenol, µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NA
2-Methylnaphthalene, µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	7	<10	<10	NA
2-Naphthylamine, µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NA
Cresylic Acid, µg/L**	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NA

Table 2. Groundwater Quality Summary, February 1994
 Safety-Kleen Corporation, Manhattan Avenue, Tampa, Florida (Page 2 of 2)

Sample Location	BG-1	SA-1	SA-2	SA-3	SA-4	DA-1A	DA-4D	DA-5D	POC-1	POC-2	POC-2 Dupe	POC-3	Equip Blank	Blank	Trip Blank
Date Collected	02/22/94	02/22/94	02/22/94	02/22/94	02/22/94	02/23/94	02/23/94	02/23/94	02/23/94	02/23/94	02/23/94	02/23/94	02/22/94	02/22/94	02/22/94
Parameter, Units															
Arsenic, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA
Barium, mg/L	0.01	<0.01	0.01	<0.01	0.02	0.01	1.8	0.01	0.01	0.01	0.01	0.04	0.04	0.03	NA
Beryllium, mg/L	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.012	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	NA
Cadmium, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.024	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA
Chromium, mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.62	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA
Copper, mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.15	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	NA
Lead, mg/L	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.14	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	NA
Nickel, mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.11	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	NA
Vanadium, mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	1.3	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA
Zinc, mg/L	<0.02	<0.02	<0.02	0.13	0.05	<0.02	0.13	<0.02	<0.02	<0.02	<0.02	0.03	<0.02	<0.02	NA
Sulfide, mg/L	<1	2	1	<1	<1	<1	<1	<1	2	2	<1	2	<1	<1	NA
Turbidity, NTU	2.7	2.7	2.7	1.7	2.9	9.3	7200	17	8.1	12	13	66	<0.1	<0.1	NA
pH (field), Standard Units	6.7	5.4	5.6	5.0	6.2	9.2	8.2	7.6	6.6	7.6	NA	7.0	NA	NA	NA
Specific conductivity (field), $\mu\text{mhos/cm}$	300	220	220	120	360	220	180	320	460	420	NA	640	NA	NA	NA
Temperature (field), Degrees Celsius	NA	NA	NA	NA	NA										

Notes: $\mu\text{g/L}$ = Micrograms per liter.

mg/L = Milligrams per liter.

NA = Not analyzed.

$\mu\text{mhos/cm}$ = Micromhos per centimeter.

** Calculated as sum of o, m, and p-cresol.

Source: ECT, 1994.

Table 3. Ground Water Remediation System
 Summary of All Analytes Detected Since the November 1993 Quarterly Report*
 Safety-Kleen Corporation
 Manhattan Avenue, Tampa, Florida

Date Sampled	Analyte	Units	Concentration		
			Influent	Intercarbon	Effluent
2/24/94	Benzene	µg/L	2	< 1	--
2/24/94	Ethylbenzene	µg/L	4	< 1	--
2/24/94	Barium	mg/L	0.01	< 0.01	--
3/16/94	Benzene	µg/L	1	< 1	--
3/16/94	Chlorobenzene	µg/L	5	< 1	--
3/16/94	Ethylbenzene	µg/L	3	< 1	--

Notes: mg/L = Milligrams per liter.
 µg/L = Micrograms per liter.
 * = Air stripper blower not on.
 -- = Not analyzed.

Groundwater Sample Locations

- Influent (from oil/water separator)
- Intercarbon (from port between the two sets of carbon drums)
- Effluent (from port after the second set of carbon drums)

Source: ECT, 1994.

Table 4. Soil Vapor:Summary of All Analytical Results
Safety-Kleen Corporation, Manhattan Avenue, Tampa, Florida

Date Sampled	Analyte	Concentration (mg/m ³)	
		Influent	Effluent
1/28/94	Benzene	<2	<2
1/28/94	Toluene	<2	<2
1/28/94	Ethylbenzene	<2	<2
1/28/94	m & p-xylene	<2	<2
1/28/94	o-xylene	<2	<2
1/28/94	MTBE	<2	<2
1/28/94	Total Hydrocarbons	2,200	9.9
2/9/94	Benzene	<2	<2
2/9/94	Toluene	<2	<2
2/9/94	Ethylbenzene	<2	<2
2/9/94	m & p-xylene	<2	<2
2/9/94	o-xylene	<2	<2
2/9/94	MTBE	<2	<2
2/9/94	Total Hydrocarbons	2,800	<2
2/16/94	Benzene	<2	<2
2/16/94	Toluene	<2	<2
2/16/94	Ethylbenzene	<2	<2
2/16/94	m & p-xylene	<2	<2
2/16/94	o-xylene	<2	<2
2/16/94	MTBE	<2	<2
2/16/94	Total Hydrocarbons	1,900	<2
2/24/94	Benzene	<2	<2
2/24/94	Toluene	<2	<2
2/24/94	Ethylbenzene	<2	<2
2/24/94	m & p-xylene	<2	<2
2/24/94	o-xylene	<2	<2
2/24/94	MTBE	<2	<2
2/24/94	Total Hydrocarbons	1,800	<2
3/16/94	Benzene	<2	<2
3/16/94	Toluene	<2	<2
3/16/94	Ethylbenzene	<2	<2
3/16/94	m & p-xylene	<2	<2
3/16/94	o-xylene	<2	<2
3/16/94	MTBE	<2	<2
3/16/94	Total Hydrocarbons	2,100	<2

Notes: mg/m³ = Milligrams per cubic meter.
Source: ECT, 1994.

FIGURES

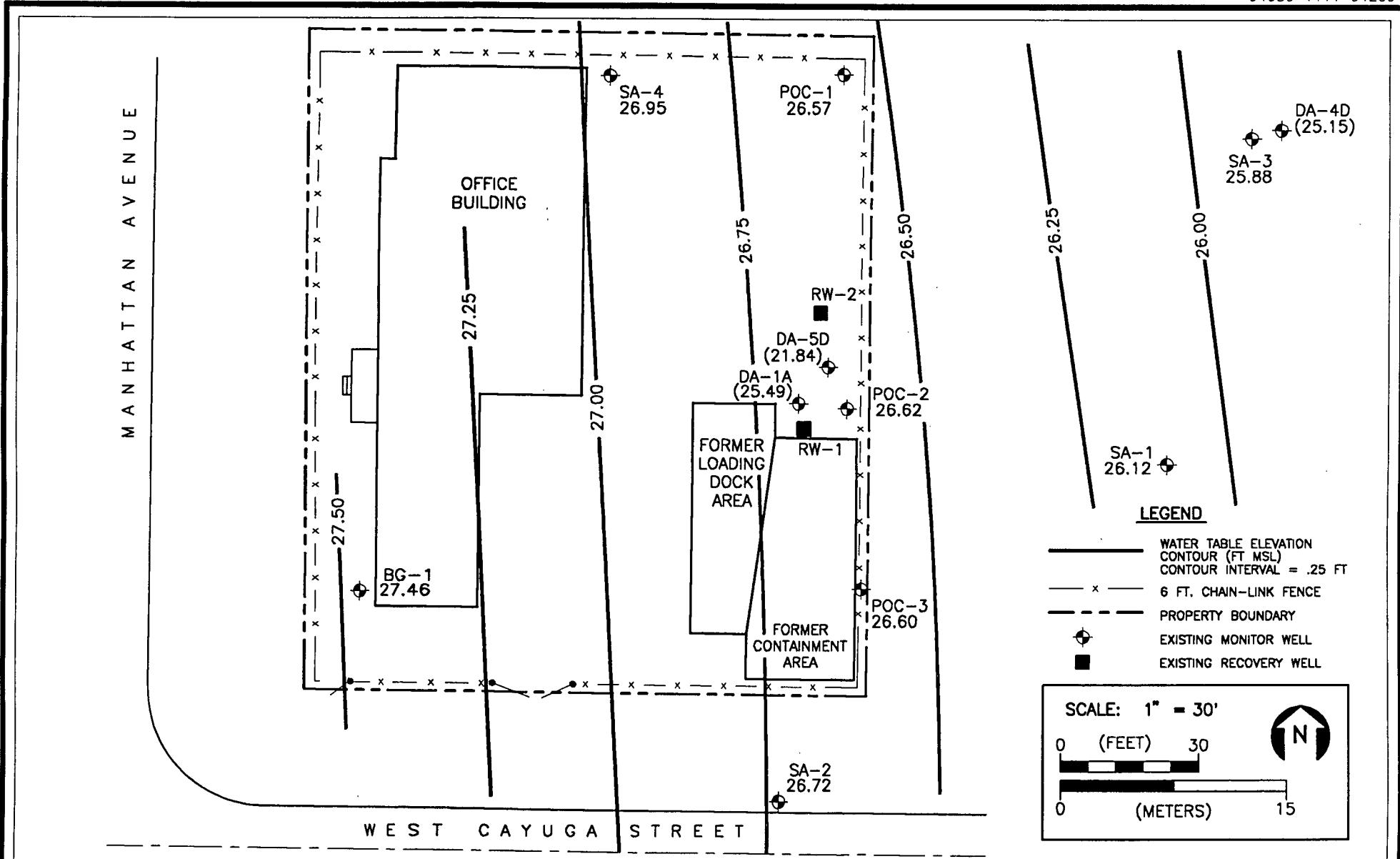
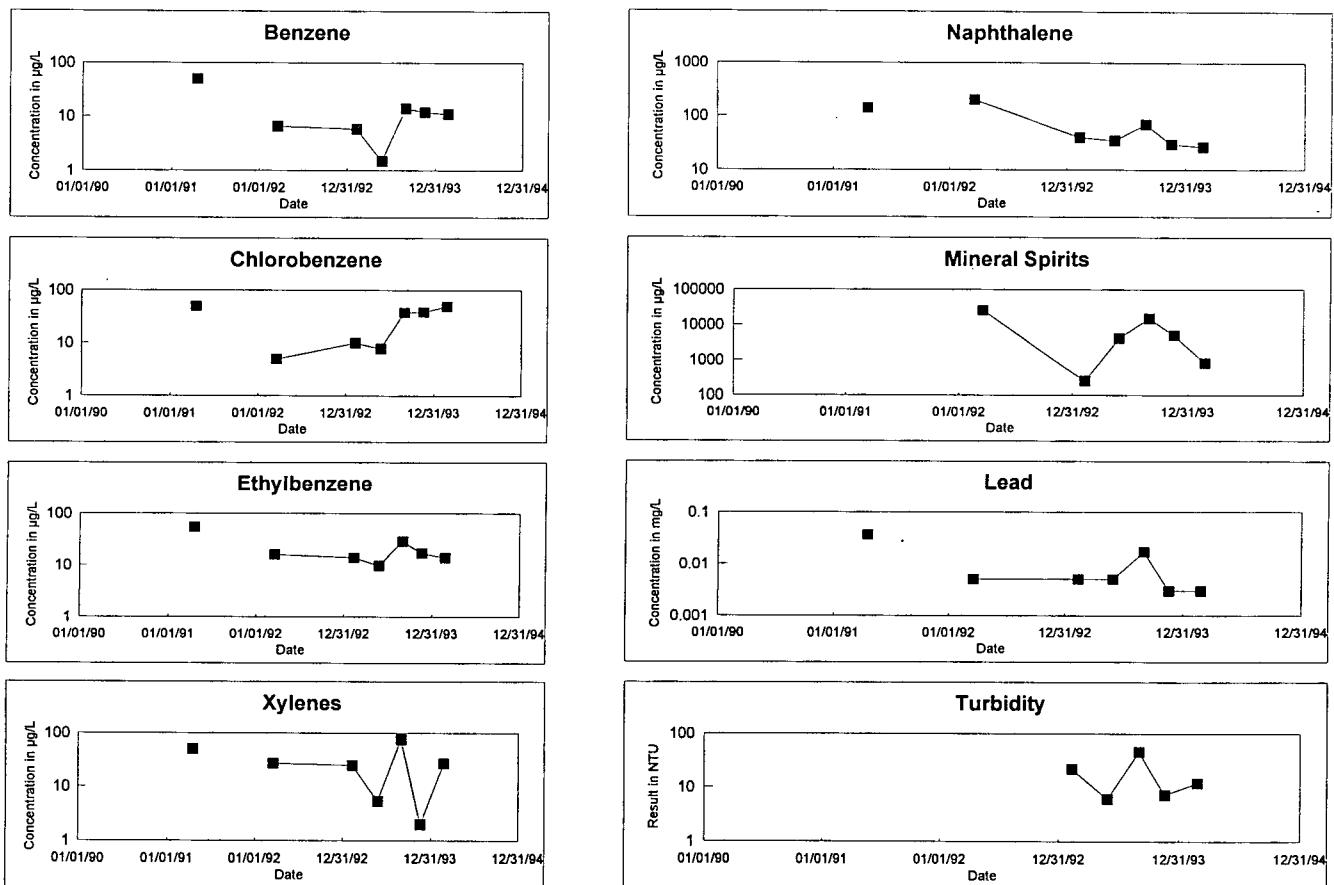


FIGURE 1.
WATER TABLE ELEVATION CONTOUR MAP, FEBRUARY 22, 1994 (12:47 – 13:00)
PRIOR TO RESTART OF PUMPING
SAFETY-KLEEN CORPORATION, MANHATTAN AVENUE FACILITY
TAMPA, FLORIDA
Source: ECT, 1994.

Figure 2. Period of Record Ground Water Quality - POC-2

Safety-Kleen Corporation
Manhattan Avenue, Tampa, Florida



Parameter	Units	POC-2									
		Sample Date									
		06/12/90	04/18/91	05/21/91	03/17/92	02/09/93	05/27/93	08/31/93	11/18/93	02/23/94	
Benzene	$\mu\text{g/L}$	NA	<50	NA	6.5	5.8	1.5	14	12	11	
Chlorobenzene	$\mu\text{g/L}$	NA	<50	NA	<5	10	7.8	38	39	50	
Ethylbenzene	$\mu\text{g/L}$	NA	55	NA	16	14	9.7	29	17	14	
Xylenes	$\mu\text{g/L}$	NA	<50	NA	27	25	5.3	75	<2	27	
Naphthalene	$\mu\text{g/L}$	NA	140	NA	<200	40	35	70	30	27	
Mineral Spirits	$\mu\text{g/L}$	NA	NA	NA	26000	<250	4200	15000	5000	830	
Lead	mg/L	NA	0.037	NA	<0.005	<0.0050	<0.0050	0.017	<0.003	<0.003	
Turbidity	NTU	NA	NA	NA	NA	22	6.1	46	7.3	12	

Notes: $\mu\text{g/L}$ = Micrograms per liter.

mg/L = Milligrams per liter.

NTU = Nephelometric turbidity units.

NA = Not analyzed.

< indicates parameter was not detected at or above the method detection limit.

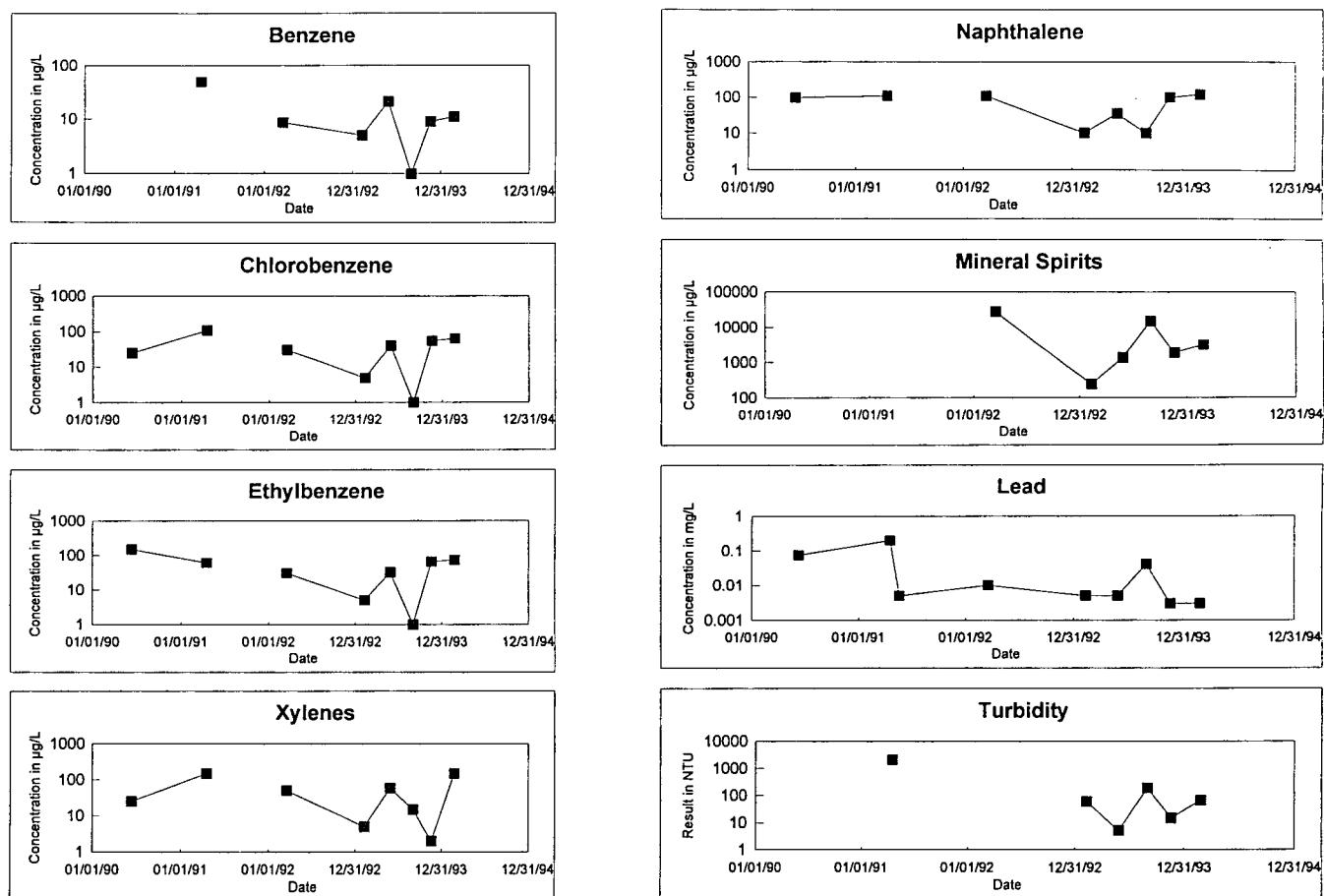
Data reported as a less than value are plotted on the graphs as being equal to that value.

Sources: ERM-CAP and (3) quarterly reports.

ECT quarterly reports.

Figure 3. Period of Record Ground Water Quality - POC-3

Safety-Kleen Corporation
Manhattan Avenue, Tampa, Florida



Parameter	Units	POC-3								
		Sample Date								
		06/12/90	04/18/91	05/21/91	03/17/92	02/09/93	05/27/93	08/31/93	11/18/93	02/23/94
Benzene	$\mu\text{g/L}$	NA	<50	NA	8.6	<5.0	21	<1.0	9	11
Chlorobenzene	$\mu\text{g/L}$	<25	110	NA	31	<5.0	40	1	55	64
Ethylbenzene	$\mu\text{g/L}$	150	62	NA	31	<5.0	32	1	66	74
Xylenes	$\mu\text{g/L}$	<25	150	NA	50	<5.0	59	15	<2	150
Naphthalene	$\mu\text{g/L}$	99	110	NA	110	<10	35	10	100	120
Mineral Spirits	$\mu\text{g/L}$	NA	NA	NA	28000	<250	1400	15000	1900	3200
Lead	mg/L	0.076	0.200	<0.005	0.010	<0.0050	<0.0050	0.041	<0.003	<0.003
Turbidity	NTU	NA	2100	NA	NA	60	5.2	190	15	66

Notes: $\mu\text{g/L}$ = Micrograms per liter.

mg/L = Milligrams per liter.

NTU = Nephelometric turbidity units.

NA = Not analyzed.

< indicates parameter was not detected at or above the method detection limit.

Data reported as a less than value are plotted on the graphs as being equal to that value.

Sources: ERM-CAP and (3) quarterly reports.

ECT quarterly reports.

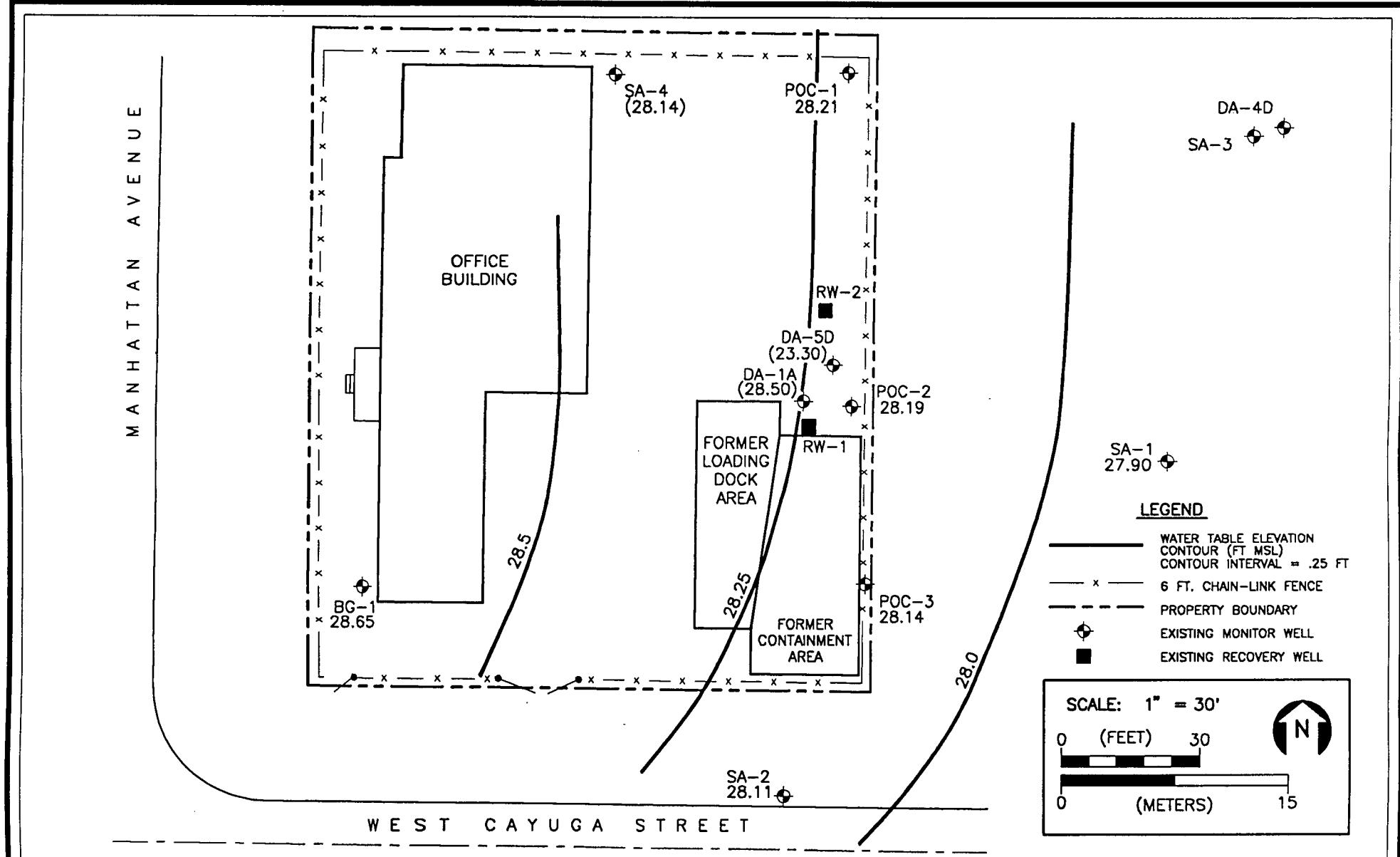
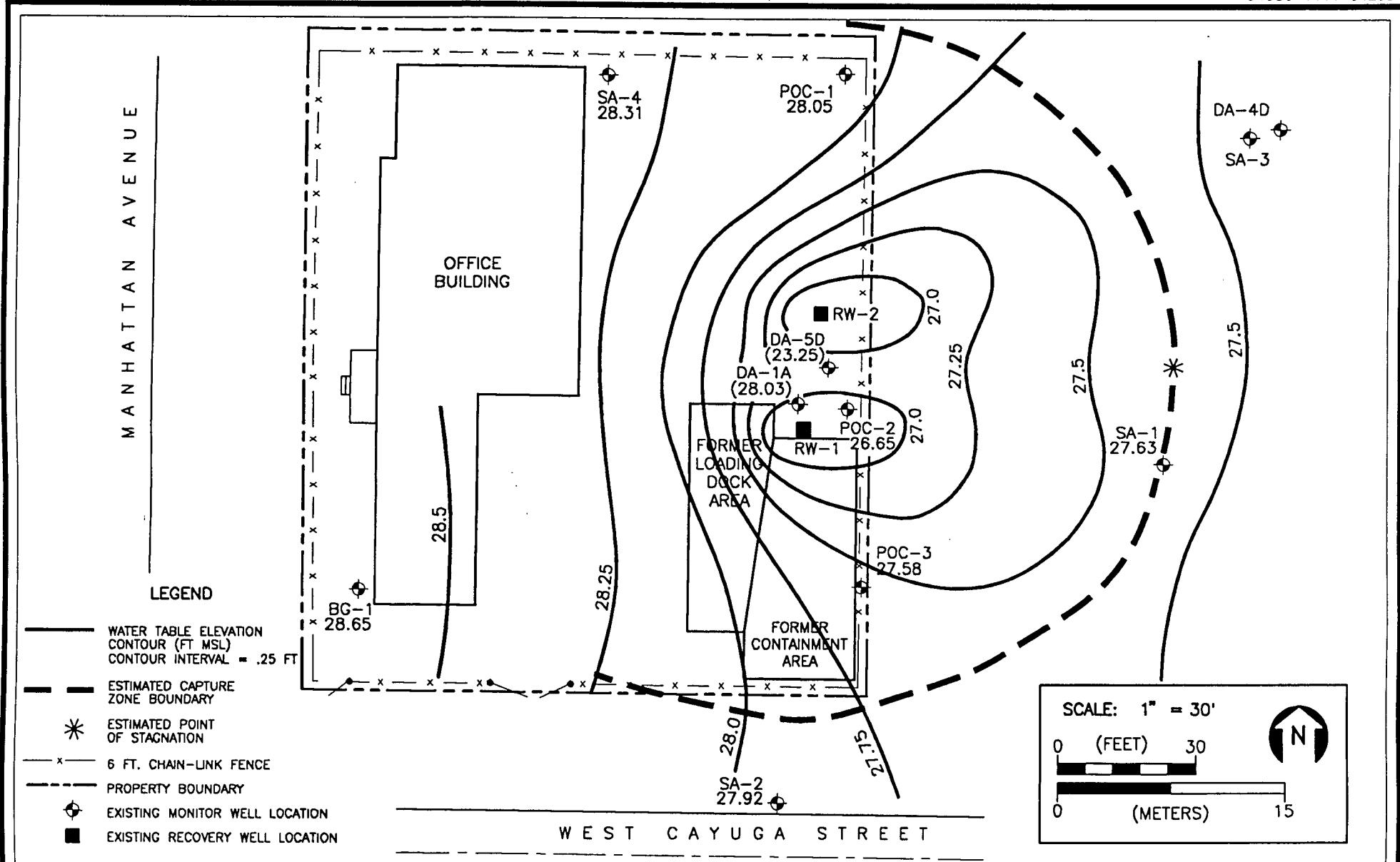


FIGURE 4.
WATER TABLE ELEVATION CONTOUR MAP, SEPTEMBER 21, 1993 (9:00 – 9:16)
IMMEDIATELY PRIOR TO PUMPING STARTUP
SAFETY-KLEEN CORPORATION, MANHATTAN AVENUE FACILITY
TAMPA, FLORIDA
Source: ECT, 1994.


ECT
Environmental Consulting & Technology, Inc.

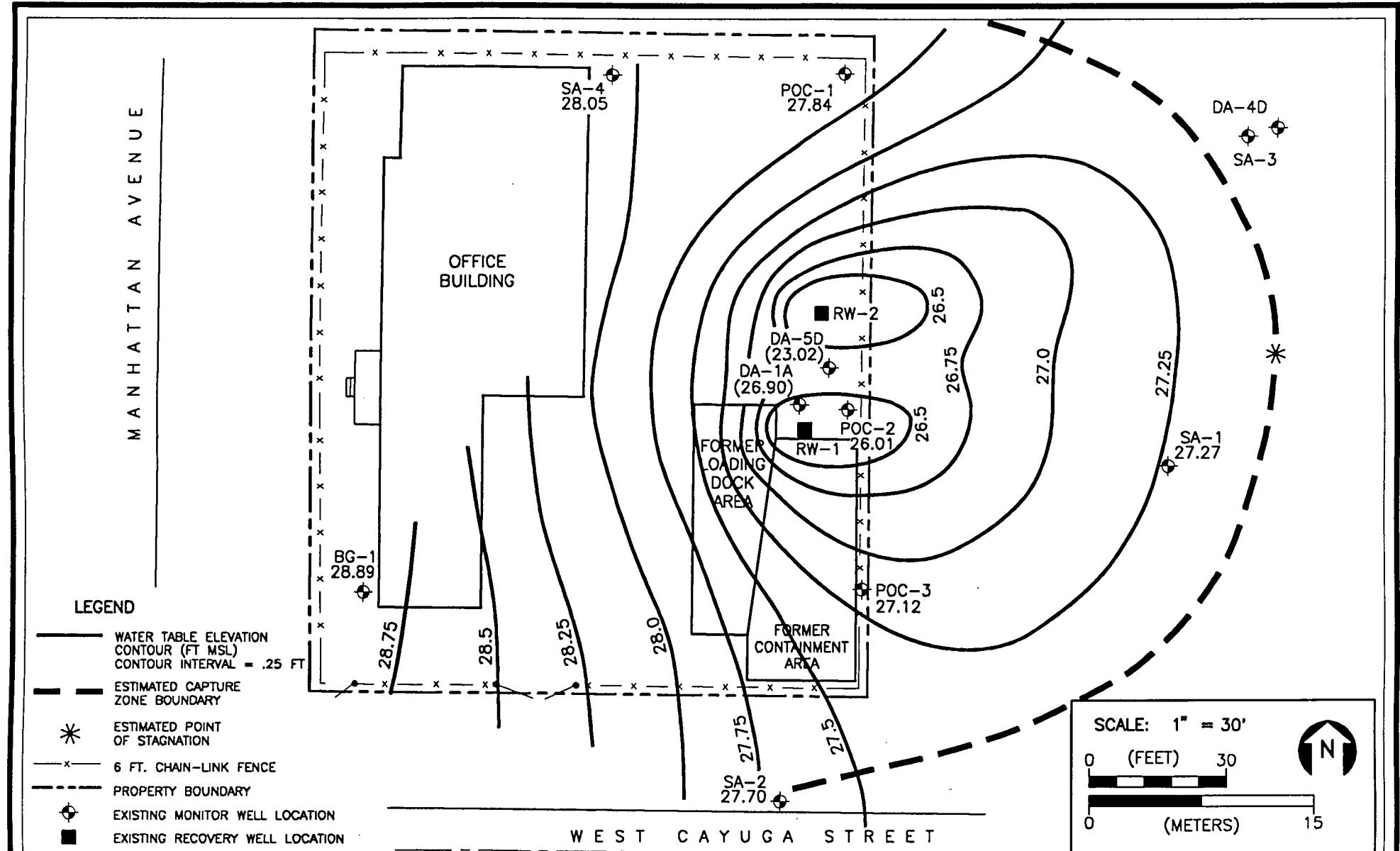


FIGURE 6.
WATER TABLE ELEVATION CONTOUR MAP, SEPTEMBER 21, 1993 (17:12 – 17:18)
EIGHT HOURS AFTER PUMPING STARTUP
SAFETY-KLEEN CORPORATION, MANHATTAN AVENUE FACILITY
TAMPA, FLORIDA
Source: ECT, 1994.

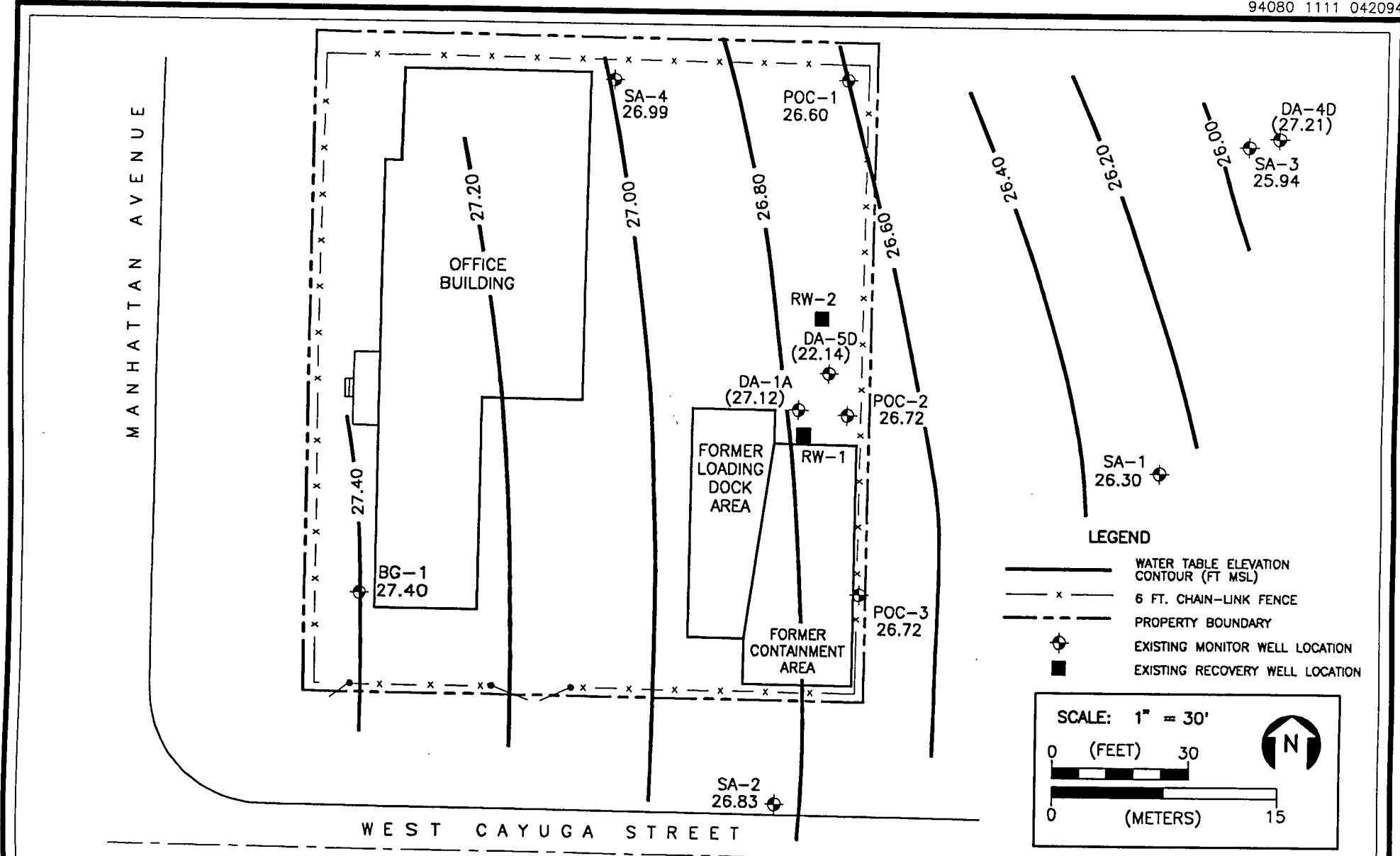
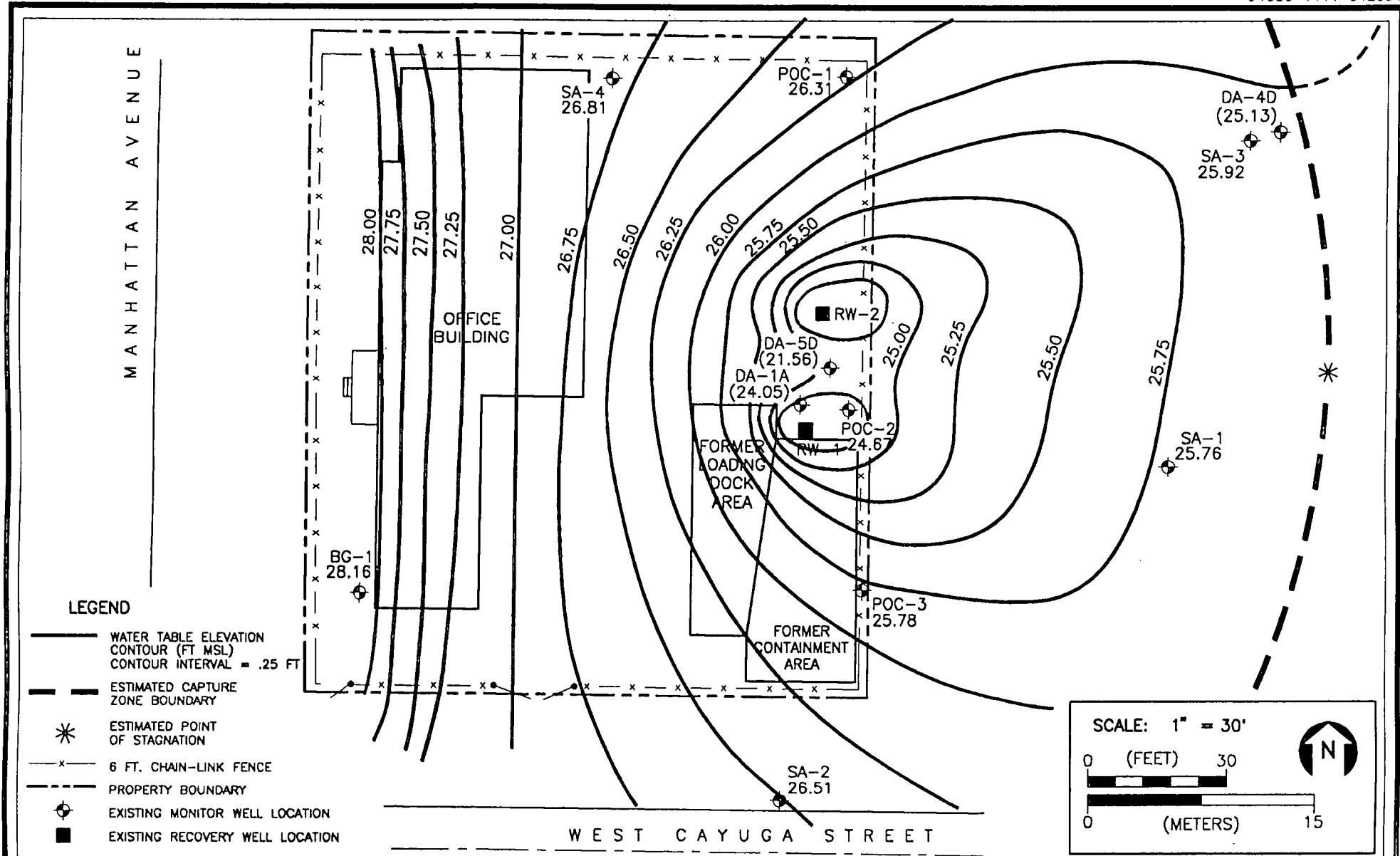


FIGURE 7.
WATER TABLE ELEVATION CONTOUR MAP, NOVEMBER 17, 1993
SAFETY-KLEEN CORPORATION
MANHATTAN AVENUE FACILITY
TAMPA, FLORIDA
Source: ECT, 1993.

**ECT**

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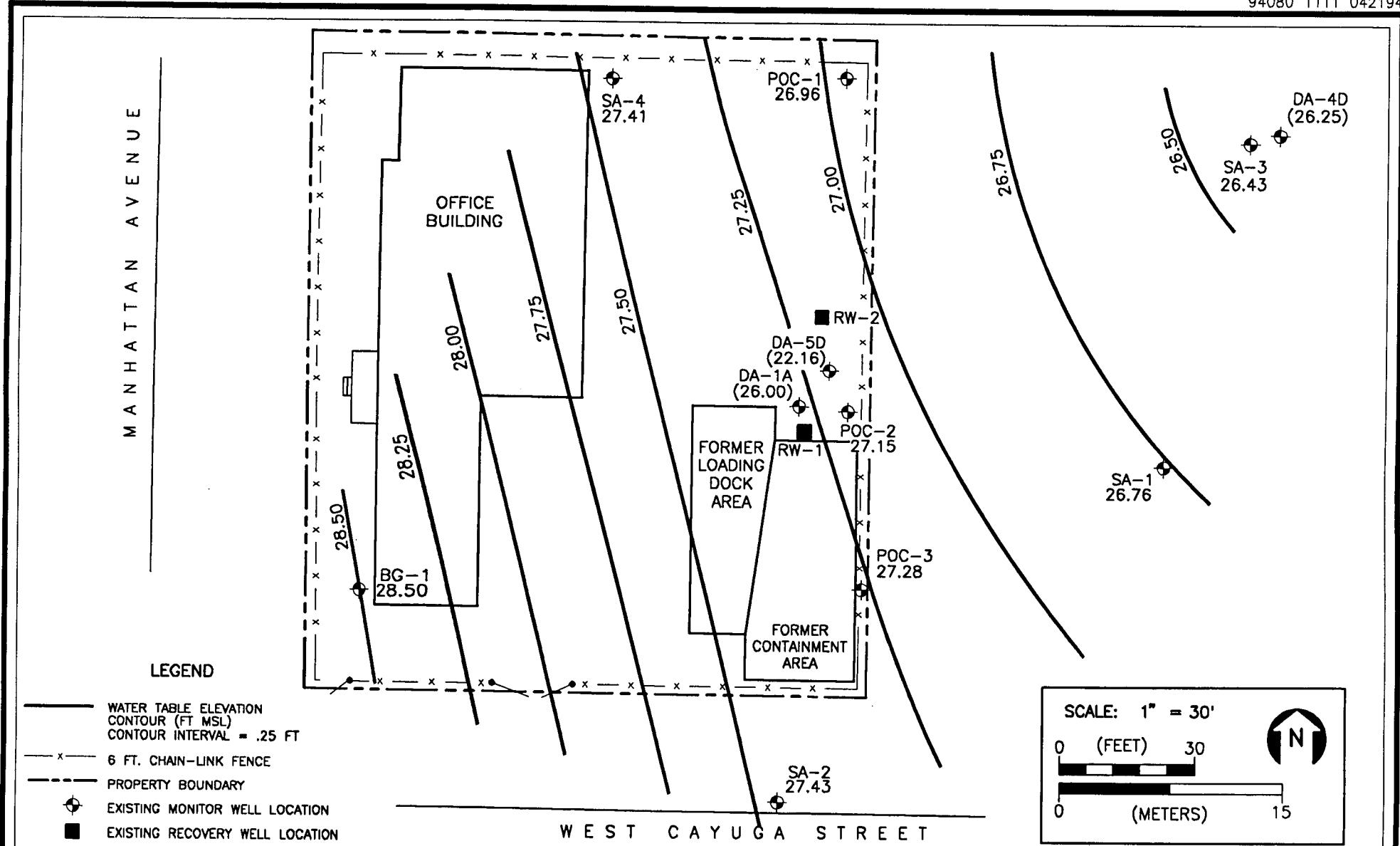


FIGURE 9.
WATER TABLE ELEVATION CONTOUR MAP, MARCH 2, 1994
PRIOR TO RESTART OF PUMPING
SAFETY-KLEEN CORPORATION, MANHATTAN AVENUE FACILITY
TAMPA, FLORIDA
Source: ECT, 1994.

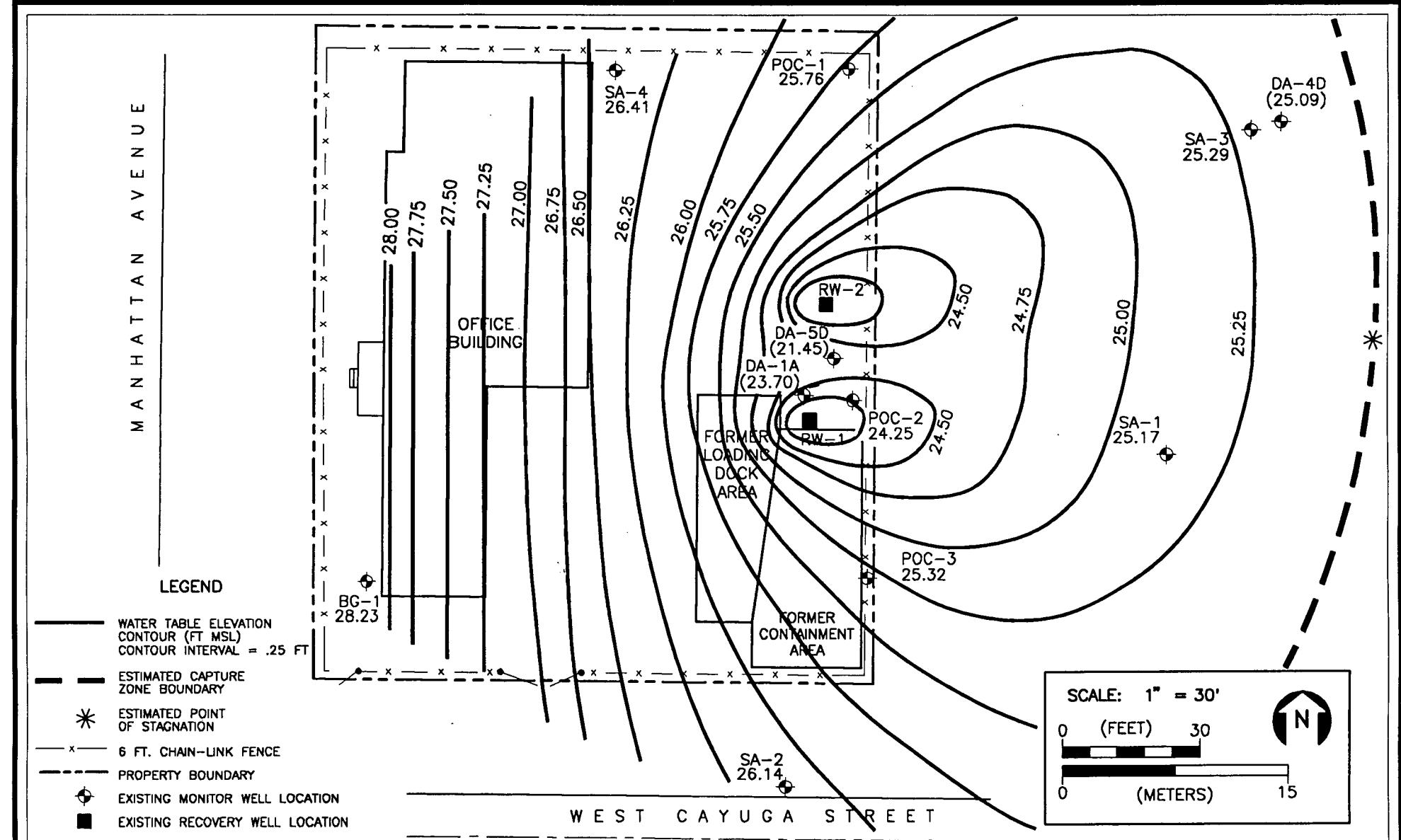


FIGURE 10.
WATER TABLE ELEVATION CONTOUR MAP, MARCH 10, 1994
EIGHT DAYS AFTER RESTART OF PUMPING
SAFETY-KLEEN CORPORATION, MANHATTAN AVENUE FACILITY
TAMPA, FLORIDA
Source: ECT, 1994.

Appendix A



Environmental Consulting & Technology, Inc.

APPENDIX A

WELL SAMPLING DATA FORMS

1ST QUARTER 1994



Environmental Consulting & Technology, Inc.

1800

WELL SAMPLING DATA FORM

Project SAFETY KLEENProject Number 94080-1111 Date: 2/22/94Well Number: BG - 1Total Depth of Well: 15.08Depth To Water: 5.37Column of Water in Well: 9.71Well Casing Diameter: 2"

VOLUME/LINEAR FT. OF PIPE		
ID (in)	Gal.	Liter
2	0.163	0.618
4	0.663	2.47
6	1.47	5.36

Volume of Water in Well: 1.69.71.163Volume of Water To Be Removed: 4.82913Method of Purging (pump, bailer, etc.): Peristaltic5826097100158273

FIELD PARAMETERS

Time

17:10 17:22 17:35 17:45 1800

pH

6.0 6.7 6.7 6.7 Sample

Conductivity

300 300 300 300

Temperature

N/A

Volume of Water Removed

0.1 1.6 3.2 4.8 1.6 polish

Color

Above

Odor

None Natural Organic/Chemical Organic/Gasoline/Diesel(Oil)/Other

Sediment / Turbidity

Above

OBSERVATIONS: _____

Signed/Sampler: Steven J Miller Date: 2-22-94Signed/Reviewer: Bob Stoltz Date: 2-23-94

ECT

Environmental Consulting & Technology, Inc.

09:30

WELL SAMPLING DATA FORM

Project SAFETY KLEENProject Number 94080-1111 Date: 2-23-94Well Number: POC-1Total Depth of Well: 15.00Depth To Water: 6.33Column of Water in Well: 8.77Well Casing Diameter: 2"

VOLUME/LINEAR FT. OF PIPE		
ID (in.)	Gal.	Liter
2	0.163	0.618
4	0.663	2.47
6	1.47	5.56

Volume of Water in Well: 1.4Volume of Water To Be Removed: 4.2

$$\begin{array}{r}
 8.77 \\
 .163 \\
 \hline
 26.31 \\
 536.30 \\
 877.00 \\
 \hline
 14295.1
 \end{array}$$

Method of Purging (pump, bailer, etc.): Ponitaltz

FIELD PARAMETERS

Time	<u>8:57</u>	<u>0915</u>	<u>0930</u>	
pH	<u>6.3</u>	<u>6.6</u>	<u>6.6</u>	<u>Sample</u>
Conductivity	<u>440</u>	<u>460</u>	<u>460</u>	
Temperature	<u>N/A</u>			
Volume of Water Removed	<u>0.1</u>	<u>1.4</u>	<u>2.8</u>	<u>4.2</u>
Color	<u>None</u>	<u>AMBER</u>		
Odor	None/Natural Organic/Chemical Organic/Gasoline/Diesel(Oil)/Other			
Sediment / Turbidity	<u>None</u>			

OBSERVATIONS: _____

Signed/Sampler: Steven J. Miller
 Signed/Reviewer: Rich Stelmon

Date: 2-23-94
 Date: 2-24-94

WELL SAMPLING DATA FORM

Project SAFETY KLEEN Project Number 94/680-1111 Date: 2-23-94Well Number: POC-2 DUPLICATEDTotal Depth of Well: 15.00Depth To Water: 6.15Column of Water in Well: 8.85Well Casing Diameter: 2"

VOLUME/LINEAR FT. OF PIPE		
ID (in)	Gal.	Liter
2	0.163	0.618
4	0.663	2.47
6	1.47	5.56

Volume of Water in Well: 1.48.85.163Volume of Water To Be Removed: 4.226.55Method of Purging (pump, bailer, etc.): Pistolitic5310088500194255194255

FIELD PARAMETERS

Time	<u>10:01</u>	<u>10:07</u>	<u>10:13</u>	<u>10:20</u>	<u>10:30</u>
pH	<u>7.3</u>	<u>7.6</u>	<u>7.6</u>	<u>7.6</u>	<u>Sample</u>
Conductivity	<u>450</u>	<u>420</u>	<u>420</u>	<u>420</u>	
Temperature	<u>N/A</u>				
Volume of Water Removed	<u>0.1</u>	<u>1.4</u>	<u>2.8</u>	<u>4.2</u>	<u>1.4 polish</u>
Color	<u>None / AMBER</u>				
Odor	<u>(S)</u> Natural Organic/Chemical Organic/Gasoline/Diesel(Oil)/Other				
Sediment / Turbidity	<u>None</u>				

OBSERVATIONS: _____

Signed/Sampler: Stephen J. MillerDate: 2-23-94Signed/Reviewer: Kirk L. OlsonDate: 2-24-94



Environmental Consulting & Technology, Inc.

11:40

WELL SAMPLING DATA FORM

Project SAFETY KLEENProject Number 94080-1111 Date: 2-23-94Well Number: PCC-3Total Depth of Well: 15.10Depth To Water: 5.24Column of Water in Well: 9.86Well Casing Diameter: 2"

VOLUME/LINEAR FT. OF PIPE		
ID (in.)	Gal.	Liter
2	0.163	0.618
4	0.663	2.47
6	1.47	5.56

Volume of Water in Well: 1.69.86
.163Volume of Water To Be Removed: 4.829.58Method of Purging (pump, bailer, etc.): Reinstall bails59.16098.600160.718

FIELD PARAMETERS

Time	<u>11:04</u>			<u>11:05</u>	<u>11:40</u>
pH	<u>6.9</u>	<u>7.0</u>	<u>7.0</u>	<u>7.0</u>	
Conductivity	<u>640</u>	<u>640</u>	<u>640</u>	<u>640</u>	
Temperature	<u>N/A</u>				↗
Volume of Water Removed	<u>0.1</u>	<u>1.6</u>	<u>3.2</u>	<u>4.8</u>	<u>1.6" pulish"</u>
Color	<u>None / Amber</u> ↗				
Odor	None/Natural Organic/Chemical Organic/Gasoline/Diesel(Oil) <u>Other</u>				
Sediment / Turbidity	<u>None</u> ↗				

OBSERVATIONS: _____

Signed/Sampler: Stephen J. Muller
Signed/Reviewer: Kelvin S. DeLoachDate: 2-23-94Date: 2-24-94

ECT

Environmental Consulting & Technology, Inc.

(1540)

WELL SAMPLING DATA FORM

Project SAFETY KLEENProject Number 94080-1111 Date: 2/22/94Well Number: SA-1Total Depth of Well: 14.00Depth To Water: 2.17Column of Water in Well: 11.83Well Casing Diameter: 2"

VOLUME/LINEAR FT. OF PIPE		
ID (in.)	Gal.	Liter
2	0.163	0.618
4	0.663	2.47
6	1.47	5.56

Volume of Water in Well: 2.0Volume of Water To Be Removed: 6.0Method of Purging (pump, bailer, etc.): Pistolite

11.83
.163

35.49
70.980
118.300

1.92829

FIELD PARAMETERS

Time

1505 1510 1515 1520 1540

pH

5.2 5.4 5.4 5.4 sampling

Conductivity

200 220 200 220

Temperature

N/A

Volume of Water Removed

0.1 2.0 4.0 6.0 +2.0 publish

Color

clear Amber

Odor

None / Natural Organic / Chemical Organic / Gasoline / Diesel (Oil) / Other

Sediment / Turbidity

None

OBSERVATIONS: _____

Signed/Sampler: Steven L. Miller Date: 2/22/94Signed/Reviewer: Rick G. Tracy Date: 2-22-94

ECT

Environmental Consulting & Technology, Inc.

1735

WELL SAMPLING DATA FORM

Project SAFETY KLEENProject Number 94080-1111 Date: 2/22/94Well Number: SA-2Total Depth of Well: 14.26Depth To Water: 3.00Column of Water in Well: 11.26Well Casing Diameter: 2"

VOLUME/LINEAR FT. OF PIPE		
ID (in.)	Gal.	Liter
2	0.163	0.618
4	0.663	2.47
6	1.47	5.36

Volume of Water in Well: 1.8Volume of Water To Be Removed: 5.4Method of Purging (pump, bailer, etc.): Peristaltic

$$\begin{array}{r}
 11.26 \\
 -1.63 \\
 \hline
 33.78 \\
 675.60 \\
 1126.00 \\
 \hline
 183538
 \end{array}$$

FIELD PARAMETERS

Time	<u>16:47</u>	<u>16:56</u>	<u>17:05</u>	<u>17:10</u>	<u>17:35</u>
pH	<u>5.8</u>	<u>5.6</u>	<u>5.6</u>	<u>5.6</u>	<u>sample</u>
Conductivity	<u>180</u>	<u>220</u>	<u>220</u>	<u>220</u>	<u>↓</u>
Temperature	<u>N/A</u>	<u> </u>	<u> </u>	<u> </u>	<u>↓</u>
Volume of Water Removed	<u>0.1</u>	<u>1.8</u>	<u>3.6</u>	<u>5.4</u>	<u>1.8 "push"</u>
Color	<u>None</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Odor	<u>None/Natural Organic/Chemical Organic/Gasoline/Diesel(Oil)/Other</u>				
Sediment / Turbidity	<u>None</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

OBSERVATIONS: _____

Signed/Sampler: Steven L MillerDate: 2-22-94Signed/Reviewer: Rick StoltzDate: 2-23-94

ECT

Environmental Consulting & Technology, Inc.

1500

WELL SAMPLING DATA FORM

Project SAFETY KLEENProject Number 94080-111 Date: 2/23/94Well Number: SA-3Total Depth of Well: 11.04Depth To Water: 1.61Column of Water in Well: 9.43Well Casing Diameter: 3"

VOLUME/LINEAR FT. OF PIPE		
ID (in.)	Gal	Liter
2	0.163	0.618
4	0.663	2.47
6	1.47	5.56

Volume of Water in Well: 1.5Volume of Water To Be Removed: 4.5Method of Purging (pump, bailer, etc.): An instaltic pumpw/soil polish

9.43
.163
3829
56580
94300
153709

FIELD PARAMETERS

Time	<u>13:53</u>	<u>14:04</u>	<u>14:10</u>	<u>14:15</u>	<u>1500</u>
pH	<u>4.7</u>	<u>5.0</u>	<u>5.0</u>	<u>5.0</u>	<u>Sample</u>
Conductivity	<u>160</u>	<u>130</u>	<u>130</u>	<u>130</u>	<u> </u>
Temperature	<u>N/A</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Volume of Water Removed	<u>0.5 gal</u>	<u>1.5</u>	<u>3.0</u>	<u>4.5</u>	<u>1.5 "soil polish"</u>
Color	<u>Clear</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Odor	<u>None/Natural Organic/Chemical Organic/Gasoline/Diesel(Oil)/Other</u>				
Sediment / Turbidity	<u>None</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

OBSERVATIONS: _____

Signed/Sampler: Steven L Miller
Signed/Reviewer: Keith MillerDate: 2-22-94Date: 2-23-94

ECT

0830

Environmental Consulting & Technology, Inc.

WELL SAMPLING DATA FORM

Project SAFETY KLEENProject Number 94080-1111 Date: 2-23-94Well Number: SA-4Total Depth of Well: 12.30Depth To Water: 3.10Column of Water in Well: 9.20Well Casing Diameter: 2"

VOLUME/LINEAR FT. OF PIPE		
ID (in.)	Gal.	Liter
2	0.163	0.618
4	0.663	2.47
6	1.47	5.56

Volume of Water in Well: 1.5Volume of Water To Be Removed: 4.5Method of Purging (pump, bailer, etc.): Pump with pump

$$\begin{array}{r}
 9.20 \\
 \times .163 \\
 \hline
 576.0 \\
 552.00 \\
 \hline
 920.00 \\
 \hline
 1499.60
 \end{array}$$

FIELD PARAMETERS

Time	<u>08:00</u>	<u>8:05</u>	<u>8:10</u>	<u>8:15</u>	<u>08:30</u>
pH	<u>4.8</u>	<u>6.3</u>	<u>6.2</u>	<u>6.2</u>	<u>Sampled</u>
Conductivity	<u>380</u>	<u>360</u>	<u>360</u>	<u>360</u>	<u> </u>
Temperature	<u>N/A</u>	<u>→</u>	<u>→</u>	<u>↓</u>	<u> </u>
Volume of Water Removed	<u>0.1</u>	<u>1.5</u>	<u>3.0</u>	<u>4.5</u>	<u>1.5" push"</u>
Color	<u>None</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Odor	<u>None/Natural Organic/Chemical Organic/Gasoline/Diesel(Oil)/Other</u>				
Sediment / Turbidity	<u>None</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

OBSERVATIONS: _____

Signed/Sampler: Steven J MillerDate: 2-23-94Signed/Reviewer: Kirk S. ShultzDate: 2-24-94

ECT

Environmental Consulting & Technology, Inc.

1320

WELL SAMPLING DATA FORM

Project SAFETY KLEENProject Number 94080-1111 Date: 2-23-94Well Number: DA-1ATotal Depth of Well: 56.00Depth To Water: 5.41Column of Water in Well: 50.59Well Casing Diameter: 2"

VOLUME/LINEAR FT. OF PIPE		
ID (in.)	Gal	Liter
2	0.163	0.618
4	0.663	2.49
6	1.47	5.56

Volume of Water in Well: 8.250.59
163Volume of Water To Be Removed: 24.615177
303540
505900
824617Method of Purging (pump, bailer, etc.): Portable pump

FIELD PARAMETERS

Time			<u>11:30</u>	<u>11:45</u>	<u>13:00</u>
pH	<u>7.0</u>	<u>9.0</u>	<u>9.0</u>	<u>9.0</u>	suspected
Conductivity	<u>300</u>	<u>300</u>	<u>300</u>	<u>300</u>	
Temperature	<u>N/A</u>				
Volume of Water Removed	<u>0.1</u>	<u>8.2</u>	<u>16.4</u>	<u>24.6</u>	<u>8.2</u> " polish "
Color	<u>None</u>				
Odor	<u>None/Natural Organic/Chemical Organic/Gasoline/Diesel(Oil)/Other</u>				
Sediment / Turbidity	<u>None</u>				

OBSERVATIONS: _____

Signed/Sampler: Steven J. Miller
 Signed/Reviewer: R. J. Silver

Date: 2-23-94
 Date: 2-24-94



Environmental Consulting & Technology, Inc.

1645

WELL SAMPLING DATA FORM

Project SAFETY KLEENProject Number 94080-111 Date: 2/1/94Well Number: DA-4DTotal Depth of Well: 38.70Depth To Water: 2.40Column of Water in Well: 36.30Well Casing Diameter: 2"

VOLUME/LINEAR FT. OF PIPE		
ID (in.)	Gal.	Liter
2	0.163	0.618
4	0.663	2.47
6	1.47	5.56

Volume of Water in Well: 5.9 - 6.0Volume of Water To Be Removed: 18.0Method of Purging (pump, bailer, etc.): FloodedBailer

36.30
163
10890
217800
363000
5.91690

FIELD PARAMETERS

Time 1545 1600 1615 1630 1645pH 5.2 8.0 8.0 8.0 _____Conductivity 200 180 170 180 _____Temperature N/A ← → _____Volume of Water Removed 0.5 6.0 10.0 18.0 _____Color Dark Brown → _____Odor None Natural Organic/Chemical Organic/Gasoline/Diesel(Oil)/OtherSediment / Turbidity Milky _____

OBSERVATIONS: _____

Signed/Sampler: Steven J. Miller Date: 2-23-94Signed/Reviewer: Ron Miller Date: 2-24-94

ECT

Environmental Consulting & Technology, Inc.

1530

WELL SAMPLING DATA FORM

Project SAFETY KLEENProject Number 94088-1111 Date: 2-23-94Well Number: DH-5DTotal Depth of Well: 64.00Depth To Water: 7.86Column of Water in Well: 56.14Well Casing Diameter: 2"

VOLUME/LINEAR FT. OF PIPE		
ID (in.)	Gal	Liter
2	0.163	0.618
4	0.663	2.47
6	1.47	5.50

Volume of Water in Well: 9.256.1416.63Volume of Water To Be Removed: 27.616.840Method of Purging (pump, bailer, etc.): Pump with the pump33.684056.14009.15080

FIELD PARAMETERS

Time	<u>12:02</u>	<u>1315</u>	<u>1400</u>	<u>1510</u>	<u>1530</u>
pH	<u>9.8</u>	<u>7.6</u>	<u>7.6</u>	<u>7.6</u>	<u>Sample</u>
Conductivity	<u>260</u>	<u>320</u>	<u>320</u>	<u>320</u>	<u> </u>
Temperature	<u>N/A</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Volume of Water Removed	<u>0.1</u>	<u>9.2</u>	<u>18.4</u>	<u>27.6</u>	<u>9" polish"</u>
Color	<u>None</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Odor	<u>None</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Sediment / Turbidity	<u>None</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

OBSERVATIONS: _____

Signed/Sampler: Steven L Miller Date: 2-23-94
 Signed/Reviewer: Kel Sherry Date: 2-24-94

Appendix B

ECT

Environmental Consulting & Technology, Inc.

APPENDIX B

FEBRUARY 1994 GROUND WATER ANALYSES



Analytical**Technologies**, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

RECEIVED
MAR 15 1994
ATI

SIGNATURE PAGE

Reviewed by:

Linda Perger
ATI Project Manager

Client: SAFETY-KLEEN EHS ADMINISTRATION
ELGIN, IL

Project Name: SAFETY KLEEN
Project Number: 94080-1111
Project Location: MANHATTAN SAFETY KLEEN
Accession Number: 402690

Project Manager: RICK STEBNISKY
Sampled By: STEVEN L. MILLER

Analysis Report

Analysis: Group of Single Wetchem

Accession:	402690
Client:	SAFETY-KLEEN EHS ADMINISTRATION
Project Number:	94080-1111
Project Name:	SAFETY KLEEN
Project Location:	MANHATTAN SAFETY KLEEN
Department:	WET CHEM

[0] Page 1
Date 11-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: Group of Single Wetchem
Matrix: GROUNDWATER
QC Level: II

Lab Id:	001	Sample Date/Time:	22-FEB-94 1500			
Client Sample Id:	022294 SA-3	Received Date:	24-FEB-94			
Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
SULFIDE, (9030)	MG/L	ND	1		SFW007	CM
TURBIDITY (180.1)	NTU	1.7	0.1		TBW005	DBH

Comments:

[0] Page 2
Date 11-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: Group of Single Wetchem
Matrix: GROUNDWATER
QC Level: II

Lab Id: 002 Sample Date/Time: 22-FEB-94 1540
Client Sample Id: 022294 SA-1 Received Date: 24-FEB-94

Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
SULFIDE, (9030)	MG/L	2	1		SFW007	CM
TURBIDITY (180.1)	NTU	2.7	0.1		TBW005	DBH

Comments:

[0] Page 3
Date 11-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: Group of Single Wetchem
Matrix: WATER
QC Level: II

Lab Id:	003	Sample Date/Time:	22-FEB-94 1630			
Client Sample Id:	022294 EQ BLK	Received Date:	24-FEB-94			
Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
SULFIDE, (9030)	MG/L	ND	1		SFW007	CM
TURBIDITY (180.1)	NTU	ND	0.1		TBW005	DBH

Comments:

[0] Page 4
Date 11-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: Group of Single Wetchem
Matrix: WATER
QC Level: II

Lab Id:	004	Sample Date/Time:	22-FEB-94 1725			
Client Sample Id:	022294 BLK	Received Date:	24-FEB-94			
Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
SULFIDE, (9030)	MG/L	ND	1		SFW007	CM
TURBIDITY (180.1)	NTU	ND	0.1		TBW005	DBH

Comments:

[0] Page 5
Date 11-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: Group of Single Wetchem
Matrix: GROUNDWATER
QC Level: II

Lab Id: 005 Sample Date/Time: 22-FEB-94 1800
Client Sample Id: 022294 BG-1 Received Date: 24-FEB-94

Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
SULFIDE, (9030)	MG/L	ND	1		SFW007	CM
TURBIDITY (180.1)	NTU	2.7	0.1		TBW005	DBH

Comments:

[0] Page 6
Date 11-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: Group of Single Wetchem
Matrix: GROUNDWATER
QC Level: II

Lab Id:	006	Sample Date/Time:	22-FEB-94 1735			
Client Sample Id:	022294 SA-2	Received Date:	24-FEB-94			
Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
SULFIDE, (9030)	MG/L	1	1		SFW007	CM
TURBIDITY (180.1)	NTU	2.7	0.1		TBW005	DBH

Comments:

[0] Page 7
Date 11-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: Group of Single Wetchem
Matrix: GROUNDWATER
QC Level: II

Lab Id:	007	Sample Date/Time:	23-FEB-94 0830			
Client Sample Id:	022394 SA-4	Received Date:	24-FEB-94			
Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
SULFIDE, (9030)	MG/L	ND	1		SFW007	CM
TURBIDITY (180.1)	NTU	2.9	0.1		TBW005	DBH

Comments:

[0] Page 8
Date 11-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: Group of Single Wetchem
Matrix: GROUNDWATER
QC Level: II

Lab Id:	008	Sample Date/Time:	23-FEB-94 0930			
Client Sample Id:	022394 POC-1	Received Date:	24-FEB-94			
Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
SULFIDE, (9030)	MG/L	2	1		SFW007	CM
TURBIDITY (180.1)	NTU	8.1	0.1		TBW005	DBH

Comments:

[0] Page 9
Date 11-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: Group of Single Wetchem
Matrix: GROUNDWATER
QC Level: II

Lab Id:	009	Sample Date/Time:	23-FEB-94 1030			
Client Sample Id:	022394 POC-2	Received Date:	24-FEB-94			
Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
SULFIDE, (9030)	MG/L	2	1		SFW007	CM
TURBIDITY (180.1)	NTU	12	0.1		TBW005	DBH

Comments:

[0] Page 10
Date 11-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: Group of Single Wetchem
Matrix: GROUNDWATER
QC Level: II

Lab Id: 010 Sample Date/Time: 23-FEB-94 1140
Client Sample Id: 022394 POC-3 Received Date: 24-FEB-94

Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
SULFIDE, (9030)	MG/L	2	1		SFW007	CM
TURBIDITY (180.1)	NTU	66	0.2	+	TBW005	DBH

Comments:

[0] Page 11
Date 11-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: Group of Single Wetchem
Matrix: GROUNDWATER
QC Level: II

Lab Id: 011 Sample Date/Time: 23-FEB-94 1320
Client Sample Id: 022394 DA-1A Received Date: 24-FEB-94

Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
SULFIDE, (9030)	MG/L	ND	1		SFW007	CM
TURBIDITY (180.1)	NTU	9.3	0.1		TBW005	DBH

Comments:

[0] Page 12
Date 11-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: Group of Single Wetchem
Matrix: GROUNDWATER
QC Level: II

Lab Id: 012 Sample Date/Time: 23-FEB-94 1530
Client Sample Id: 022394 DA-5D Received Date: 24-FEB-94

Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
SULFIDE, (9030)	MG/L	ND	1		SFW007	CM
TURBIDITY (180.1)	NTU	17	0.1		TBW005	DBH

Comments:

[0] Page 13
Date 11-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: Group of Single Wetchem
Matrix: GROUNDWATER
QC Level: II

Lab Id:	013	Sample Date/Time:	23-FEB-94	1645
Client Sample Id:	022394 DA-4D	Received Date:	24-FEB-94	
Parameters:	Units:	Results:	Rpt Lmts:	Q: Batch: Analyst:
SULFIDE, (9030)	MG/L	ND	1	SFW007 CM
TURBIDITY (180.1)	NTU	7200	20	+ TBW005 DBH

Comments:

[0] Page 14
Date 11-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: Group of Single Wetchem
Matrix: GROUNDWATER
QC Level: II

Lab Id:	014	Sample Date/Time:	22-FEB-94	N/S
Client Sample Id:	022294 DUPE	Received Date:	24-FEB-94	
Parameters:	Units:	Results:	Rpt Lmts:	Q: Batch: Analyst:
SULFIDE, (9030)	MG/L	ND	1	SFW007 CM
TURBIDITY (180.1)	NTU	13	0.1	TBW005 DBH

Comments:

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Date 11-Mar-94
"Method Report Summary"

Accession Number: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: Group of Single Wetchem

Client Sample Id:	Parameter:	Unit:	Result:
022294 SA-3	TURBIDITY (180.1)	NTU	1.7
022294 SA-1	SULFIDE, (9030)	MG/L	2
022294 BG-1	TURBIDITY (180.1)	NTU	2.7
022294 SA-2	TURBIDITY (180.1)	NTU	2.7
	SULFIDE, (9030)	MG/L	1
022394 SA-4	TURBIDITY (180.1)	NTU	2.7
022394 POC-1	TURBIDITY (180.1)	NTU	2.9
	SULFIDE, (9030)	MG/L	2
022394 POC-2	TURBIDITY (180.1)	NTU	8.1
	SULFIDE, (9030)	MG/L	2
022394 POC-3	TURBIDITY (180.1)	NTU	12
	SULFIDE, (9030)	MG/L	2
022394 DA-1A	TURBIDITY (180.1)	NTU	66
022394 DA-5D	TURBIDITY (180.1)	NTU	9.3
022394 DA-4D	TURBIDITY (180.1)	NTU	17
022294 DUPE	TURBIDITY (180.1)	NTU	7200
		NTU	13

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: Group of Single Metals

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Department: METALS

[0] Page 1
Date 11-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: Group of Single Metals
Matrix: GROUNDWATER
QC Level: II

Lab Id:	001	Sample Date/Time:	22-FEB-94 1500			
Client Sample Id:	022294 SA-3	Received Date:	24-FEB-94			
Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
ARSENIC (7060)	MG/L	ND	0.005		R7W084	JP
BARIUM (6010)	MG/L	ND	0.01		B6W070	JLH
BERYLLIUM (6010)	MG/L	ND	0.004		Y6W070	JLH
CADMIUM (6010)	MG/L	ND	0.005		C6W070	JLH
CHROMIUM (6010)	MG/L	ND	0.01		H6W070	JLH
COPPER (6010)	MG/L	ND	0.01		F6W070	JLH
NICKEL (6010)	MG/L	ND	0.02		E6W070	JLH
LEAD (7421)	MG/L	ND	0.003		P7W084	JP
VANADIUM (6010)	MG/L	ND	0.01		V6W070	JLH
ZINC (6010)	MG/L	0.13	0.02		56W083	JMP

Comments:

[0] Page 2
Date 11-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: Group of Single Metals
Matrix: GROUNDWATER
QC Level: II

Lab Id: 002 Sample Date/Time: 22-FEB-94 1540
Client Sample Id: 022294 SA-1 Received Date: 24-FEB-94

Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
ARSENIC (7060)	MG/L	ND	0.005		R7W084	JP
BARIUM (6010)	MG/L	ND	0.01		B6W070	JLH
BERYLLIUM (6010)	MG/L	ND	0.004		Y6W070	JLH
CADMIUM (6010)	MG/L	ND	0.005		C6W070	JLH
CHROMIUM (6010)	MG/L	ND	0.01		H6W070	JLH
COPPER (6010)	MG/L	ND	0.01		F6W070	JLH
NICKEL (6010)	MG/L	ND	0.02		E6W070	JLH
LEAD (7421)	MG/L	ND	0.003		P7W084	JP
VANADIUM (6010)	MG/L	ND	0.01		V6W070	JLH
ZINC (6010)	MG/L	ND	0.02		S6W070	JLH

Comments:

[0] Page 3
Date 11-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: Group of Single Metals
Matrix: WATER
QC Level: II

Lab Id:	003	Sample Date/Time:	22-FEB-94 1630			
Client Sample Id:	022294 EQ BLK	Received Date:	24-FEB-94			
Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
ARSENIC (7060)	MG/L	ND	0.005		R7W084	JP
BARIUM (6010)	MG/L	0.04	0.01		B6W070	JLH
BERYLLIUM (6010)	MG/L	ND	0.004		Y6W070	JLH
CADMIUM (6010)	MG/L	ND	0.005		C6W070	JLH
CHROMIUM (6010)	MG/L	ND	0.01		H6W070	JLH
COPPER (6010)	MG/L	ND	0.01		F6W070	JLH
NICKEL (6010)	MG/L	ND	0.02		E6W070	JLH
LEAD (7421)	MG/L	ND	0.003		P7W084	JP
VANADIUM (6010)	MG/L	ND	0.01		V6W070	JLH
ZINC (6010)	MG/L	ND	0.02		S6W083	JMP

Comments:

[0] Page 4
Date 11-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: Group of Single Metals
Matrix: WATER
QC Level: II

Lab Id: 004 Sample Date/Time: 22-FEB-94 1725
Client Sample Id: 022294 BLK Received Date: 24-FEB-94

Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
ARSENIC (7060)	MG/L	ND	0.005		R7W084	JP
BARIUM (6010)	MG/L	0.03	0.01		B6W070	JLH
BERYLLIUM (6010)	MG/L	ND	0.004		Y6W070	JLH
CADMIUM (6010)	MG/L	ND	0.005		C6W070	JLH
CHROMIUM (6010)	MG/L	ND	0.01		H6W070	JLH
COPPER (6010)	MG/L	ND	0.01		F6W083	JMP
NICKEL (6010)	MG/L	ND	0.02		E6W070	JLH
LEAD (7421)	MG/L	ND	0.003		P7W084	JP
VANADIUM (6010)	MG/L	ND	0.01		V6W070	JLH
ZINC (6010)	MG/L	ND	0.02		56W083	JMP

Comments:

[0] Page 5
Date 11-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: Group of Single Metals
Matrix: GROUNDWATER
QC Level: II

Lab Id: 005 Sample Date/Time: 22-FEB-94 1800
Client Sample Id: 022294 BG-1 Received Date: 24-FEB-94

Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
ARSENIC (7060)	MG/L	ND	0.005		R7W084	JP
BARIUM (6010)	MG/L	0.01	0.01		B6W070	JLH
BERYLLIUM (6010)	MG/L	ND	0.004		Y6W070	JLH
CADMIUM (6010)	MG/L	ND	0.005		C6W070	JLH
CHROMIUM (6010)	MG/L	ND	0.01		H6W070	JLH
COPPER (6010)	MG/L	0.01	0.01		F6W070	JLH
NICKEL (6010)	MG/L	ND	0.02		E6W070	JLH
LEAD (7421)	MG/L	ND	0.003		P7W084	JP
VANADIUM (6010)	MG/L	ND	0.01		V6W070	JLH
ZINC (6010)	MG/L	ND	0.02		56W070	JLH

Comments:

[0] Page 6
Date 11-Mar-94

Accession: 402690
 Client: SAFETY-KLEEN EHS ADMINISTRATION
 Project Number: 94080-1111
 Project Name: SAFETY KLEEN
 Project Location: MANHATTAN SAFETY KLEEN
 Test: Group of Single Metals
 Matrix: GROUNDWATER
 QC Level: II

Lab Id: 006 Sample Date/Time: 22-FEB-94 1735
 Client Sample Id: 022294 SA-2 Received Date: 24-FEB-94

Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
ARSENIC (7060)	MG/L	ND	0.005		R7W084	JP
BARIUM (6010)	MG/L	0.01	0.01		B6W070	JLH
BERYLLIUM (6010)	MG/L	ND	0.004		Y6W070	JLH
CADMIUM (6010)	MG/L	ND	0.005		C6W070	JLH
CHROMIUM (6010)	MG/L	ND	0.01		H6W070	JLH
COPPER (6010)	MG/L	ND	0.01		F6W083	JMP
NICKEL (6010)	MG/L	ND	0.02		E6W070	JLH
LEAD (7421)	MG/L	ND	0.003		P7W084	JP
VANADIUM (6010)	MG/L	ND	0.01		V6W070	JLH
ZINC (6010)	MG/L	ND	0.02		S6W083	JMP

Comments:

[0] Page 7
Date 11-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: Group of Single Metals
Matrix: GROUNDWATER
QC Level: II

Lab Id: 007 Sample Date/Time: 23-FEB-94 0830
Client Sample Id: 022394 SA-4 Received Date: 24-FEB-94

Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
ARSENIC (7060)	MG/L	ND	0.005		R7W084	JP
BARIUM (6010)	MG/L	0.02	0.01		B6W070	JLH
BERYLLIUM (6010)	MG/L	ND	0.004		Y6W070	JLH
CADMIUM (6010)	MG/L	ND	0.005		C6W070	JLH
CHROMIUM (6010)	MG/L	ND	0.01		H6W070	JLH
COPPER (6010)	MG/L	ND	0.01		F6W070	JLH
NICKEL (6010)	MG/L	ND	0.02		E6W070	JLH
LEAD (7421)	MG/L	ND	0.003		P7W084	JP
VANADIUM (6010)	MG/L	ND	0.01		V6W070	JLH
ZINC (6010)	MG/L	0.05	0.02		56W083	JMP

Comments:

[0] Page 8
Date 11-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: Group of Single Metals
Matrix: GROUNDWATER
QC Level: II

Lab Id: 008 Sample Date/Time: 23-FEB-94 0930
Client Sample Id: 022394 POC-1 Received Date: 24-FEB-94

Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
ARSENIC (7060)	MG/L	ND	0.005		R7W084	JP
BARIUM (6010)	MG/L	0.01	0.01		B6W083	JMP
BERYLLIUM (6010)	MG/L	ND	0.004		Y6W070	JLH
CADMIUM (6010)	MG/L	ND	0.005		C6W070	JLH
CHROMIUM (6010)	MG/L	ND	0.01		H6W070	JLH
COPPER (6010)	MG/L	ND	0.01		F6W070	JLH
NICKEL (6010)	MG/L	ND	0.02		E6W070	JLH
LEAD (7421)	MG/L	ND	0.003		P7W084	JP
VANADIUM (6010)	MG/L	ND	0.01		V6W070	JLH
ZINC (6010)	MG/L	ND	0.02		56W083	JMP

Comments:

[0] Page 9
Date 11-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: Group of Single Metals
Matrix: GROUNDWATER
QC Level: II

Lab Id: 009 Sample Date/Time: 23-FEB-94 1030
Client Sample Id: 022394 POC-2 Received Date: 24-FEB-94

Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
ARSENIC (7060)	MG/L	ND	0.005		R7W084	JP
BARIUM (6010)	MG/L	0.01	0.01		B6W070	JLH
BERYLLIUM (6010)	MG/L	ND	0.004		Y6W070	JLH
CADMIUM (6010)	MG/L	ND	0.005		C6W070	JLH
CHROMIUM (6010)	MG/L	ND	0.01		H6W070	JLH
COPPER (6010)	MG/L	0.01	0.01		F6W083	JMP
NICKEL (6010)	MG/L	ND	0.02		E6W070	JLH
LEAD (7421)	MG/L	ND	0.003		P7W084	JP
VANADIUM (6010)	MG/L	ND	0.01		V6W070	JLH
ZINC (6010)	MG/L	ND	0.02		56W083	JMP

Comments:

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Date 11-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: Group of Single Metals
Matrix: GROUNDWATER
QC Level: II

Lab Id: 010 Sample Date/Time: 23-FEB-94 1140
Client Sample Id: 022394 POC-3 Received Date: 24-FEB-94

Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
ARSENIC (7060)	MG/L	ND	0.005		R7W084	JP
BARIUM (6010)	MG/L	0.04	0.01		B6W070	JLH
BERYLLIUM (6010)	MG/L	ND	0.004		Y6W070	JLH
CADMIUM (6010)	MG/L	ND	0.005		C6W070	JLH
CHROMIUM (6010)	MG/L	ND	0.01		H6W070	JLH
COPPER (6010)	MG/L	ND	0.01		F6W070	JLH
NICKEL (6010)	MG/L	ND	0.02		E6W070	JLH
LEAD (7421)	MG/L	ND	0.003		P7W084	JP
VANADIUM (6010)	MG/L	ND	0.01		V6W070	JLH
ZINC (6010)	MG/L	0.03	0.02		56W083	JMP

Comments:

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Date 11-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: Group of Single Metals
Matrix: GROUNDWATER
QC Level: II

Lab Id: 011 Sample Date/Time: 23-FEB-94 1320
Client Sample Id: 022394 DA-1A Received Date: 24-FEB-94

Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
ARSENIC (7060)	MG/L	ND	0.005		R7W084	JP
BARIUM (6010)	MG/L	0.01	0.01		B6W070	JLH
BERYLLIUM (6010)	MG/L	ND	0.004		Y6W070	JLH
CADMIUM (6010)	MG/L	ND	0.005		C6W070	JLH
CHROMIUM (6010)	MG/L	ND	0.01		H6W070	JLH
COPPER (6010)	MG/L	ND	0.01		F6W070	JLH
NICKEL (6010)	MG/L	ND	0.02		E6W070	JLH
LEAD (7421)	MG/L	ND	0.003		P7W084	JP
VANADIUM (6010)	MG/L	0.02	0.01		V6W070	JLH
ZINC (6010)	MG/L	ND	0.02		56W070	JLH

Comments:

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Date 11-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: Group of Single Metals
Matrix: GROUNDWATER
QC Level: II

Lab Id: 012 Sample Date/Time: 23-FEB-94 1530
Client Sample Id: 022394 DA-5D Received Date: 24-FEB-94

Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
ARSENIC (7060)	MG/L	ND	0.005		R7W084	JP
BARIUM (6010)	MG/L	0.01	0.01		B6W070	JLH
BERYLLIUM (6010)	MG/L	ND	0.004		Y6W070	JLH
CADMIUM (6010)	MG/L	ND	0.005		C6W070	JLH
CHROMIUM (6010)	MG/L	ND	0.01		H6W070	JLH
COPPER (6010)	MG/L	ND	0.01		F6W083	JMP
NICKEL (6010)	MG/L	ND	0.02		E6W070	JLH
LEAD (7421)	MG/L	ND	0.003		P7W084	JP
VANADIUM (6010)	MG/L	ND	0.01		V6W070	JLH
ZINC (6010)	MG/L	ND	0.02		S6W083	JMP

Comments:

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Date 11-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: Group of Single Metals
Matrix: GROUNDWATER
QC Level: II

Lab Id: 013 Sample Date/Time: 23-FEB-94 1645
Client Sample Id: 022394 DA-4D Received Date: 24-FEB-94

Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
ARSENIC (7060)	MG/L	ND	0.050	*	R7W084	JP
BARIUM (6010)	MG/L	1.8	0.01		B6W083	JMP
BERYLLIUM (6010)	MG/L	0.012	0.004		Y6W070	JLH
CADMIUM (6010)	MG/L	0.024	0.005		C6W070	JLH
CHROMIUM (6010)	MG/L	0.62	0.01		H6W070	JLH
COPPER (6010)	MG/L	0.15	0.01		F6W070	JLH
NICKEL (6010)	MG/L	0.11	0.02		E6W070	JLH
LEAD (7421)	MG/L	0.14	0.03	+	P7W084	JP
VANADIUM (6010)	MG/L	1.3	0.01		V6W070	JLH
ZINC (6010)	MG/L	0.13	0.02		56W070	JLH

Comments:

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Date 11-Mar-94

Accession: 402690
 Client: SAFETY-KLEEN EHS ADMINISTRATION
 Project Number: 94080-1111
 Project Name: SAFETY KLEEN
 Project Location: MANHATTAN SAFETY KLEEN
 Test: Group of Single Metals
 Matrix: GROUNDWATER
 QC Level: II

Lab Id: 014 Sample Date/Time: 22-FEB-94 N/S
 Client Sample Id: 022294 DUPE Received Date: 24-FEB-94

Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
ARSENIC (7060)	MG/L	ND	0.005		R7W084	JP
BARIUM (6010)	MG/L	0.01	0.01		B6W070	JLH
BERYLLIUM (6010)	MG/L	ND	0.004		Y6W070	JLH
CADMIUM (6010)	MG/L	ND	0.005		C6W070	JLH
CHROMIUM (6010)	MG/L	ND	0.01		H6W070	JLH
COPPER (6010)	MG/L	ND	0.01		F6W070	JLH
NICKEL (6010)	MG/L	ND	0.02		E6W070	JLH
LEAD (7421)	MG/L	ND	0.003		P7W084	JP
VANADIUM (6010)	MG/L	ND	0.01		V6W070	JLH
ZINC (6010)	MG/L	ND	0.02		56W070	JLH

Comments:

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Date 11-Mar-94

"Method Report Summary"

Accession Number: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: Group of Single Metals

Client Sample Id:	Parameter:	Unit:	Result:
022294 SA-3	ZINC (6010)	MG/L	0.13
022294 EQ BLK	BARIUM (6010)	MG/L	0.04
022294 BLK	BARIUM (6010)	MG/L	0.03
022294 BG-1	BARIUM (6010)	MG/L	0.01
	COPPER (6010)	MG/L	0.01
022294 SA-2	BARIUM (6010)	MG/L	0.01
022394 SA-4	BARIUM (6010)	MG/L	0.02
	ZINC (6010)	MG/L	0.05
022394 POC-1	BARIUM (6010)	MG/L	0.01
022394 POC-2	BARIUM (6010)	MG/L	0.01
	COPPER (6010)	MG/L	0.01
022394 POC-3	BARIUM (6010)	MG/L	0.04
	ZINC (6010)	MG/L	0.03
022394 DA-1A	BARIUM (6010)	MG/L	0.01
	VANADIUM (6010)	MG/L	0.02
022394 DA-5D	BARIUM (6010)	MG/L	0.01
022394 DA-4D	BARIUM (6010)	MG/L	1.8
	BERYLLIUM (6010)	MG/L	0.012
	CADMIUM (6010)	MG/L	0.024
	CHROMIUM (6010)	MG/L	0.62
	COPPER (6010)	MG/L	0.15
	NICKEL (6010)	MG/L	0.11
	LEAD (7421)	MG/L	0.14
	VANADIUM (6010)	MG/L	1.3
	ZINC (6010)	MG/L	0.13
022294 DUPE	BARIUM (6010)	MG/L	0.01

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: MINERAL SPIRITS (SAFETY KLEEN) C9-C13

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Department: SEMI-VOLATILE FUELS

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Date 14-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: MINERAL SPIRITS (SAFETY KLEEN) C9-C13
Analysis Method: TCO / 8015 - SW 846, EPA UST Work Group Nov. 1990, Mod. 8015
Extraction Method: 3510/SW-846, 3rd Edition, September 1986 and Revision 1, July 1992
Matrix: GROUNDWATER
QC Level: II

Lab Id: 001 Sample Date/Time: 22-FEB-94 1500
Client Sample Id: 022294 SA-3 Received Date: 24-FEB-94

Batch: FPW038 Extraction Date: 24-FEB-94
Blank: A Dry Weight %: N/A Analysis Date: 01-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
MINERAL SPIRITS	UG/L	ND	100	
ORTHO TER PHENYL	%REC/SURR	100	50-150	
ANALYST	INITIALS	SKR		

Comments:

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Date 14-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: MINERAL SPIRITS (SAFETY KLEEN) C9-C13
Analysis Method: TCO / 8015 - SW 846, EPA UST Work Group Nov. 1990, Mod. 8015
Extraction Method: 3510/SW-846, 3rd Edition, September 1986 and Revision 1, July 1992
Matrix: GROUNDWATER
QC Level: II

Lab Id: 002 Sample Date/Time: 22-FEB-94 1540
Client Sample Id: 022294 SA-1 Received Date: 24-FEB-94

Batch: FPW038 Extraction Date: 24-FEB-94
Blank: A Dry Weight %: N/A Analysis Date: 01-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
MINERAL SPIRITS	UG/L	ND	100	
ORTHO TER PHENYL	%REC/SURR	90	50-150	
ANALYST	INITIALS	SKR		

Comments:

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Date 14-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: MINERAL SPIRITS (SAFETY KLEEN) C9-C13
Analysis Method: TCO / 8015 - SW 846, EPA UST Work Group Nov. 1990, Mod. 8015
Extraction Method: 3510/SW-846, 3rd Edition, September 1986 and Revision 1, July 1992
Matrix: WATER
QC Level: II

Lab Id: 003 Sample Date/Time: 22-FEB-94 1630
Client Sample Id: 022294 EQ BLK Received Date: 24-FEB-94

Batch: FPW038 Extraction Date: 24-FEB-94
Blank: A Dry Weight %: N/A Analysis Date: 01-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
MINERAL SPIRITS	UG/L	ND	100	
ORTHO TER PHENYL	%REC/SURR	98	50-150	
ANALYST	INITIALS	SKR		

Comments:

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Date 14-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: MINERAL SPIRITS (SAFETY KLEEN) C9-C13
Analysis Method: TCO / 8015 - SW 846, EPA UST Work Group Nov. 1990, Mod. 8015
Extraction Method: 3510/SW-846, 3rd Edition, September 1986 and Revision 1, July 1992
Matrix: WATER
QC Level: II

Lab Id: 004 Sample Date/Time: 22-FEB-94 1725
Client Sample Id: 022294 BLK Received Date: 24-FEB-94

Batch: FPW038 Extraction Date: 24-FEB-94
Blank: A Dry Weight %: N/A Analysis Date: 01-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
MINERAL SPIRITS	UG/L	ND	100	
ORTHO TER PHENYL	%REC/SURR	98	50-150	
ANALYST	INITIALS	SKR		

Comments:

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Date 14-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: MINERAL SPIRITS (SAFETY KLEEN) C9-C13
Analysis Method: TCO / 8015 - SW 846, EPA UST Work Group Nov. 1990, Mod. 8015
Extraction Method: 3510/SW-846, 3rd Edition, September 1986 and Revision 1, July 1992
Matrix: GROUNDWATER
QC Level: II

Lab Id: 005 Sample Date/Time: 22-FEB-94 1800
Client Sample Id: 022294 BG-1 Received Date: 24-FEB-94

Batch: FPW038 Extraction Date: 24-FEB-94
Blank: A Dry Weight %: N/A Analysis Date: 01-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
MINERAL SPIRITS	UG/L	ND	100	
ORTHO TER PHENYL	%REC/SURR	99	50-150	
ANALYST	INITIALS	SKR		

Comments:

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Date 14-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: MINERAL SPIRITS (SAFETY KLEEN) C9-C13
Analysis Method: TCO / 8015 - SW 846, EPA UST Work Group Nov. 1990, Mod. 8015
Extraction Method: 3510/SW-846, 3rd Edition, September 1986 and Revision 1, July 1992
Matrix: GROUNDWATER
QC Level: II

Lab Id: 006 Sample Date/Time: 22-FEB-94 1735
Client Sample Id: 022294 SA-2 Received Date: 24-FEB-94

Batch: FPW038 Extraction Date: 24-FEB-94
Blank: A Dry Weight %: N/A Analysis Date: 01-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
MINERAL SPIRITS ORTHO TER PHENYL ANALYST	UG/L %REC/SURR INITIALS	ND 88 SKR	100 50-150	

Comments:

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Date 14-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: MINERAL SPIRITS (SAFETY KLEEN) C9-C13
Analysis Method: TCO / 8015 - SW 846, EPA UST Work Group Nov. 1990, Mod. 8015
Extraction Method: 3510/SW-846, 3rd Edition, September 1986 and Revision 1, July 1992
Matrix: GROUNDWATER
QC Level: II

Lab Id: 007 Sample Date/Time: 23-FEB-94 0830
Client Sample Id: 022394 SA-4 Received Date: 24-FEB-94

Batch: FPW038 Extraction Date: 24-FEB-94
Blank: A Dry Weight %: N/A Analysis Date: 01-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
MINERAL SPIRITS ORTHO TER PHENYL ANALYST	UG/L %REC/SURR INITIALS	ND 96 SKR	100 50-150	

Comments:

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Date 14-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: MINERAL SPIRITS (SAFETY KLEEN) C9-C13
Analysis Method: TCO / 8015 - SW 846, EPA UST Work Group Nov. 1990, Mod. 8015
Extraction Method: 3510/SW-846, 3rd Edition, September 1986 and Revision 1, July 1992
Matrix: GROUNDWATER
QC Level: II

Lab Id: 008 Sample Date/Time: 23-FEB-94 0930
Client Sample Id: 022394 POC-1 Received Date: 24-FEB-94

Batch: FPW038 Extraction Date: 24-FEB-94
Blank: A Dry Weight %: N/A Analysis Date: 01-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
MINERAL SPIRITS	UG/L	ND	100	
ORTHO TER PHENYL	%REC/SURR	94	50-150	
ANALYST	INITIALS	SKR		

Comments:

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Date 14-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: MINERAL SPIRITS (SAFETY KLEEN) C9-C13
Analysis Method: TCO / 8015 - SW 846, EPA UST Work Group Nov. 1990, Mod. 8015
Extraction Method: 3510/SW-846, 3rd Edition, September 1986 and Revision 1, July 1992
Matrix: GROUNDWATER
QC Level: II

Lab Id: 009 Sample Date/Time: 23-FEB-94 1030
Client Sample Id: 022394 POC-2 Received Date: 24-FEB-94

Batch: FPW038 Extraction Date: 24-FEB-94
Blank: A Dry Weight %: N/A Analysis Date: 01-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
MINERAL SPIRITS	UG/L	830	100	
ORTHO TER PHENYL	%REC/SURR	89	50-150	
ANALYST	INITIALS	SKR		

Comments:

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Date 14-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: MINERAL SPIRITS (SAFETY KLEEN) C9-C13
Analysis Method: TCO / 8015 - SW 846, EPA UST Work Group Nov. 1990, Mod. 8015
Extraction Method: 3510/SW-846, 3rd Edition, September 1986 and Revision 1, July 1992
Matrix: GROUNDWATER
QC Level: II

Lab Id: 010 Sample Date/Time: 23-FEB-94 1140
Client Sample Id: 022394 POC-3 Received Date: 24-FEB-94

Batch: FPW038 Extraction Date: 24-FEB-94
Blank: A Dry Weight %: N/A Analysis Date: 01-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
MINERAL SPIRITS	UG/L	3200	100	
ORTHO TER PHENYL	%REC/SURR	103	50-150	
ANALYST	INITIALS	SKR		

Comments:

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Date 14-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: MINERAL SPIRITS (SAFETY KLEEN) C9-C13
Analysis Method: TCO / 8015 - SW 846, EPA UST Work Group Nov. 1990, Mod. 8015
Extraction Method: 3510/SW-846, 3rd Edition, September 1986 and Revision 1, July 1992
Matrix: GROUNDWATER
QC Level: II

Lab Id: 011 Sample Date/Time: 23-FEB-94 1320
Client Sample Id: 022394 DA-1A Received Date: 24-FEB-94

Batch: FPW038 Extraction Date: 24-FEB-94
Blank: A Dry Weight %: N/A Analysis Date: 01-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
MINERAL SPIRITS	UG/L	ND	100	
ORTHO TER PHENYL	%REC/SURR	92	50-150	
ANALYST	INITIALS	SKR		

Comments:

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Date 14-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: MINERAL SPIRITS (SAFETY KLEEN) C9-C13
Analysis Method: TCO / 8015 - SW 846, EPA UST Work Group Nov. 1990, Mod. 8015
Extraction Method: 3510/SW-846, 3rd Edition, September 1986 and Revision 1, July 1992
Matrix: GROUNDWATER
QC Level: II

Lab Id: 012 Sample Date/Time: 23-FEB-94 1530
Client Sample Id: 022394 DA-5D Received Date: 24-FEB-94

Batch: FPW038 Extraction Date: 24-FEB-94
Blank: A Dry Weight %: N/A Analysis Date: 01-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
MINERAL SPIRITS	UG/L	ND	100	
ORTHO TER PHENYL	%REC/SURR	91	50-150	
ANALYST	INITIALS	SKR		

Comments:

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Date 14-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: MINERAL SPIRITS (SAFETY KLEEN) C9-C13
Analysis Method: TCO / 8015 - SW 846, EPA UST Work Group Nov. 1990, Mod. 8015
Extraction Method: 3510/SW-846, 3rd Edition, September 1986 and Revision 1, July 1992
Matrix: GROUNDWATER
QC Level: II

Lab Id: 013 Sample Date/Time: 23-FEB-94 1645
Client Sample Id: 022394 DA-4D Received Date: 24-FEB-94
Batch: FPW038 Extraction Date: 24-FEB-94
Blank: A Dry Weight %: N/A Analysis Date: 01-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
MINERAL SPIRITS	UG/L	ND	100	
ORTHO TER PHENYL	%REC/SURR	71	50-150	
ANALYST	INITIALS	SKR		

Comments:

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Date 14-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: MINERAL SPIRITS (SAFETY KLEEN) C9-C13
Analysis Method: TCO / 8015 - SW 846, EPA UST Work Group Nov. 1990, Mod. 8015
Extraction Method: 3510/SW-846, 3rd Edition, September 1986 and Revision 1, July 1992
Matrix: GROUNDWATER
QC Level: II

Lab Id: 014 Sample Date/Time: 22-FEB-94 N/S
Client Sample Id: 022294 DUPE Received Date: 24-FEB-94

Batch: FPW038 Extraction Date: 24-FEB-94
Blank: A Dry Weight %: N/A Analysis Date: 01-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
MINERAL SPIRITS	UG/L	920	100	
ORTHO TER PHENYL	%REC/SURR	97	50-150	
ANALYST	INITIALS	SKR		

Comments:

ANALYTICAL TECHNOLOGIES, INC.

11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

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Date 14-Mar-94

"Method Report Summary"

Accession Number: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: MINERAL SPIRITS (SAFETY KLEEN) C9-C13

Client Sample Id:	Parameter:	Unit:	Result:
022394 POC-2	MINERAL SPIRITS	UG/L	830
022394 POC-3	MINERAL SPIRITS	UG/L	3200
022294 DUPE	MINERAL SPIRITS	UG/L	920

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: SAFETY CLEAN (8240)

Accession:	402690
Client:	SAFETY-KLEEN EHS ADMINISTRATION
Project Number:	94080-1111
Project Name:	SAFETY KLEEN
Project Location:	MANHATTAN SAFETY KLEEN
Department:	ORGANIC/MS

[0] Page 1
Date 14-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: SAFETY CLEAN (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: GROUNDWATER
QC Level: II

Lab Id: 001 Sample Date/Time: 22-FEB-94 1500
Client Sample Id: 022294 SA-3 Received Date: 24-FEB-94

Batch: NAW021 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 28-FEB-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/L	ND	10	
BENZENE	UG/L	ND	1	
CARBON DISULFIDE	UG/L	3	1	
CHLOROBENZENE	UG/L	ND	1	
1,1-DICHLOROETHENE	UG/L	ND	1	
ETHYL BENZENE	UG/L	ND	1	
METHYLENE CHLORIDE	UG/L	ND	3	
TETRACHLOROETHENE	UG/L	2	1	
1,1,1-TRICHLOROETHANE	UG/L	ND	5	
TOTAL XYLENES	UG/L	ND	2	
1,2-DICHLOROBENZENE	UG/L	ND	3	
1,3-DICHLOROBENZENE	UG/L	ND	3	
1,4-DICHLOROBENZENE	UG/L	ND	5	
BROMOFLUOROBENZENE	%REC/SURR	110	86-115	
1,2-DICHLOROETHANE-D4	%REC/SURR	102	76-114	
TOLUENE-D8	%REC/SURR	110	88-115	
ANALYST	INITIALS	DWB		

Comments:

[0] Page 2
Date 14-Mar-94

Accession: 402690
 Client: SAFETY-KLEEN EHS ADMINISTRATION
 Project Number: 94080-1111
 Project Name: SAFETY KLEEN
 Project Location: MANHATTAN SAFETY KLEEN
 Test: SAFETY CLEAN (8240)
 Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
 Extraction Method: N/A
 Matrix: GROUNDWATER
 QC Level: II

Lab Id:	002	Sample Date/Time:	22-FEB-94 1540
Client Sample Id:	022294 SA-1	Received Date:	24-FEB-94
Batch:	NAW021	Extraction Date:	N/A
Blank:	A	Analysis Date:	28-FEB-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/L	ND	10	
BENZENE	UG/L	ND	1	
CARBON DISULFIDE	UG/L	7	1	
CHLOROBENZENE	UG/L	ND	1	
1,1-DICHLOROETHENE	UG/L	ND	1	
ETHYL BENZENE	UG/L	ND	1	
METHYLENE CHLORIDE	UG/L	ND	3	
TETRACHLOROETHENE	UG/L	ND	1	
1,1,1-TRICHLOROETHANE	UG/L	ND	5	
TOTAL XYLENES	UG/L	ND	2	
1,2-DICHLOROBENZENE	UG/L	ND	3	
1,3-DICHLOROBENZENE	UG/L	ND	3	
1,4-DICHLOROBENZENE	UG/L	ND	5	
BROMOFLUOROBENZENE	%REC/SURR	108	86-115	
1,2-DICHLOROETHANE-D4	%REC/SURR	104	76-114	
TOLUENE-D8	%REC/SURR	112	88-115	
ANALYST	INITIALS	DWB		

Comments:

[0] Page 3
Date 14-Mar-94

Accession: 402690
 Client: SAFETY-KLEEN EHS ADMINISTRATION
 Project Number: 94080-1111
 Project Name: SAFETY KLEEN
 Project Location: MANHATTAN SAFETY KLEEN
 Test: SAFETY CLEAN (8240)
 Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
 Extraction Method: N/A
 Matrix: WATER
 QC Level: II

Lab Id:	003	Sample Date/Time:	22-FEB-94 1630
Client Sample Id:	022294 EQ BLK	Received Date:	24-FEB-94
Batch:	NAW021	Extraction Date:	N/A
Blank:	B	Analysis Date:	28-FEB-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/L	ND	10	
BENZENE	UG/L	ND	1	
CARBON DISULFIDE	UG/L	ND	1	
CHLOROBENZENE	UG/L	ND	1	
1,1-DICHLOROETHENE	UG/L	ND	1	
ETHYL BENZENE	UG/L	ND	1	
METHYLENE CHLORIDE	UG/L	ND	3	
TETRACHLOROETHENE	UG/L	ND	1	
1,1,1-TRICHLOROETHANE	UG/L	ND	5	
TOTAL XYLENES	UG/L	ND	2	
1,2-DICHLOROBENZENE	UG/L	ND	3	
1,3-DICHLOROBENZENE	UG/L	ND	3	
1,4-DICHLOROBENZENE	UG/L	ND	5	
BROMOFLUOROBENZENE	%REC/SURR	105	86-115	
1,2-DICHLOROETHANE-D4	%REC/SURR	100	76-114	
TOLUENE-D8	%REC/SURR	102	88-115	
ANALYST	INITIALS	DWB		

Comments:

[0] Page 4
Date 14-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: SAFETY CLEAN (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: WATER
QC Level: II

Lab Id: 004 Sample Date/Time: 22-FEB-94 1725
Client Sample Id: 022294 BLK Received Date: 24-FEB-94

Batch: NAW021 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 28-FEB-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/L	ND	10	
BENZENE	UG/L	ND	1	
CARBON DISULFIDE	UG/L	ND	1	
CHLOROBENZENE	UG/L	ND	1	
1,1-DICHLOROETHENE	UG/L	ND	1	
ETHYL BENZENE	UG/L	ND	1	
METHYLENE CHLORIDE	UG/L	ND	3	
TETRACHLOROETHENE	UG/L	ND	1	
1,1,1-TRICHLOROETHANE	UG/L	ND	5	
TOTAL XYLEMES	UG/L	ND	2	
1,2-DICHLOROBENZENE	UG/L	ND	3	
1,3-DICHLOROBENZENE	UG/L	ND	3	
1,4-DICHLOROBENZENE	UG/L	ND	5	
BROMOFLUOROBENZENE	%REC/SURR	104	86-115	
1,2-DICHLOROETHANE-D4	%REC/SURR	106	76-114	
TOLUENE-D8	%REC/SURR	106	88-115	
ANALYST	INITIALS	DWB		

Comments:

[0] Page 5
Date 14-Mar-94

Accession: 402690
 Client: SAFETY-KLEEN EHS ADMINISTRATION
 Project Number: 94080-1111
 Project Name: SAFETY KLEEN
 Project Location: MANHATTAN SAFETY KLEEN
 Test: SAFETY CLEAN (8240)
 Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
 Extraction Method: N/A
 Matrix: GROUNDWATER
 QC Level: II

Lab Id: 005 Sample Date/Time: 22-FEB-94 1800
 Client Sample Id: 022294 BG-1 Received Date: 24-FEB-94

Batch: NAW021 Extraction Date: N/A
 Blank: A Dry Weight %: N/A Analysis Date: 28-FEB-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/L	ND	10	
BENZENE	UG/L	ND	1	
CARBON DISULFIDE	UG/L	ND	1	
CHLOROBENZENE	UG/L	ND	1	
1, 1-DICHLOROETHENE	UG/L	ND	1	
ETHYL BENZENE	UG/L	ND	1	
METHYLENE CHLORIDE	UG/L	ND	3	
TETRACHLOROETHENE	UG/L	ND	1	
1, 1, 1-TRICHLOROETHANE	UG/L	ND	5	
TOTAL XYLENES	UG/L	ND	2	
1, 2-DICHLOROBENZENE	UG/L	ND	3	
1, 3-DICHLOROBENZENE	UG/L	ND	3	
1, 4-DICHLOROBENZENE	UG/L	ND	5	
BROMOFLUOROBENZENE	%REC/SURR	113	86-115	
1, 2-DICHLOROETHANE-D4	%REC/SURR	100	76-114	
TOLUENE-D8	%REC/SURR	108	88-115	
ANALYST	INITIALS	DWB		

Comments:

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Date 14-Mar-94

Accession: 402690
 Client: SAFETY-KLEEN EHS ADMINISTRATION
 Project Number: 94080-1111
 Project Name: SAFETY KLEEN
 Project Location: MANHATTAN SAFETY KLEEN
 Test: SAFETY CLEAN (8240)
 Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
 Extraction Method: N/A
 Matrix: GROUNDWATER
 QC Level: II

Lab Id:	006	Sample Date/Time:	22-FEB-94 1735
Client Sample Id:	022294 SA-2	Received Date:	24-FEB-94
Batch:	NAW021	Extraction Date:	N/A
Blank:	B	Analysis Date:	28-FEB-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/L	ND	10	
BENZENE	UG/L	ND	1	
CARBON DISULFIDE	UG/L	ND	1	
CHLOROBENZENE	UG/L	ND	1	
1, 1-DICHLOROETHENE	UG/L	ND	1	
ETHYL BENZENE	UG/L	ND	1	
METHYLENE CHLORIDE	UG/L	ND	3	
TETRACHLOROETHENE	UG/L	ND	1	
1, 1, 1-TRICHLOROETHANE	UG/L	ND	5	
TOTAL XYLEMES	UG/L	ND	2	
1, 2-DICHLOROBENZENE	UG/L	ND	3	
1, 3-DICHLOROBENZENE	UG/L	ND	3	
1, 4-DICHLOROBENZENE	UG/L	ND	5	
BROMOFLUOROBENZENE	%REC/SURR	113	86-115	
1, 2-DICHLOROETHANE-D4	%REC/SURR	105	76-114	
TOLUENE-D8	%REC/SURR	102	88-115	
ANALYST	INITIALS	DWB		

Comments:

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Date 14-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: SAFETY CLEAN (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: GROUNDWATER
QC Level: II

Lab Id: 007 Sample Date/Time: 23-FEB-94 0830
Client Sample Id: 022394 SA-4 Received Date: 24-FEB-94

Batch: NAW021 Extraction Date: N/A
Blank: B Dry Weight %: N/A Analysis Date: 28-FEB-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/L	ND	10	
BENZENE	UG/L	ND	1	
CARBON DISULFIDE	UG/L	2	1	
CHLOROBENZENE	UG/L	ND	1	
1,1-DICHLOROETHENE	UG/L	ND	1	
ETHYL BENZENE	UG/L	ND	1	
METHYLENE CHLORIDE	UG/L	ND	3	
TETRACHLOROETHENE	UG/L	ND	1	
1,1,1-TRICHLOROETHANE	UG/L	ND	5	
TOTAL XYLENES	UG/L	ND	2	
1,2-DICHLOROBENZENE	UG/L	ND	3	
1,3-DICHLOROBENZENE	UG/L	ND	3	
1,4-DICHLOROBENZENE	UG/L	ND	5	
BROMOFLUOROBENZENE	%REC/SURR	108	86-115	
1,2-DICHLOROETHANE-D4	%REC/SURR	97	76-114	
TOLUENE-D8	%REC/SURR	99	88-115	
ANALYST	INITIALS	DWB		

Comments:

[0] Page 8
Date 14-Mar-94

Accession: 402690
 Client: SAFETY-KLEEN EHS ADMINISTRATION
 Project Number: 94080-1111
 Project Name: SAFETY KLEEN
 Project Location: MANHATTAN SAFETY KLEEN
 Test: SAFETY CLEAN (8240)
 Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
 Extraction Method: N/A
 Matrix: GROUNDWATER
 QC Level: II

Lab Id:	008	Sample Date/Time:	23-FEB-94 0930
Client Sample Id:	022394 POC-1	Received Date:	24-FEB-94
Batch:	NAW021	Extraction Date:	N/A
Blank:	B	Analysis Date:	01-MAR-94
Dry Weight %:	N/A		

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/L	ND	10	
BENZENE	UG/L	ND	1	
CARBON DISULFIDE	UG/L	1	1	
CHLOROBENZENE	UG/L	ND	1	
1,1-DICHLOROETHENE	UG/L	ND	1	
ETHYL BENZENE	UG/L	ND	1	
METHYLENE CHLORIDE	UG/L	ND	3	
TETRACHLOROETHENE	UG/L	ND	1	
1,1,1-TRICHLOROETHANE	UG/L	ND	5	
TOTAL XYLENES	UG/L	ND	2	
1,2-DICHLOROBENZENE	UG/L	ND	3	
1,3-DICHLOROBENZENE	UG/L	ND	3	
1,4-DICHLOROBENZENE	UG/L	ND	5	
BROMOFLUOROBENZENE	%REC/SURR	109	86-115	
1,2-DICHLOROETHANE-D4	%REC/SURR	97	76-114	
TOLUENE-D8	%REC/SURR	98	88-115	
ANALYST	INITIALS	DWB		

Comments:

[0] Page 9
Date 14-Mar-94

Accession: 402690
 Client: SAFETY-KLEEN EHS ADMINISTRATION
 Project Number: 94080-1111
 Project Name: SAFETY KLEEN
 Project Location: MANHATTAN SAFETY KLEEN
 Test: SAFETY CLEAN (8240)
 Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
 Extraction Method: N/A
 Matrix: GROUNDWATER
 QC Level: II

Lab Id: 009 Sample Date/Time: 23-FEB-94 1030
 Client Sample Id: 022394 POC-2 Received Date: 24-FEB-94
 Batch: NAW021 Extraction Date: N/A
 Blank: D Dry Weight %: N/A Analysis Date: 01-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/L	ND	10	
BENZENE	UG/L	11	1	
CARBON DISULFIDE	UG/L	4	1	
CHLOROBENZENE	UG/L	50	1	
1,1-DICHLOROETHENE	UG/L	ND	1	
ETHYL BENZENE	UG/L	14	1	
METHYLENE CHLORIDE	UG/L	ND	3	
TETRACHLOROETHENE	UG/L	ND	1	
1,1,1-TRICHLOROETHANE	UG/L	ND	5	
TOTAL XYLEMES	UG/L	27	2	
1,2-DICHLOROBENZENE	UG/L	11	3	
1,3-DICHLOROBENZENE	UG/L	8	3	
1,4-DICHLOROBENZENE	UG/L	18	5	
BROMOFLUOROBENZENE	%REC/SURR	103	86-115	
1,2-DICHLOROETHANE-D4	%REC/SURR	107	76-114	
TOLUENE-D8	%REC/SURR	98	88-115	
ANALYST	INITIALS	DWB		

Comments:

[0] Page 10
Date 14-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: SAFETY CLEAN (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: GROUNDWATER
QC Level: II

Lab Id: 010 Sample Date/Time: 23-FEB-94 1140
Client Sample Id: 022394 POC-3 Received Date: 24-FEB-94

Batch: NAW021 Extraction Date: N/A
Blank: C Dry Weight %: N/A Analysis Date: 01-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/L	ND	10	
BENZENE	UG/L	11	1	
CARBON DISULFIDE	UG/L	6	1	
CHLOROBENZENE	UG/L	64	1	
1,1-DICHLOROETHENE	UG/L	ND	1	
ETHYL BENZENE	UG/L	74	1	
METHYLENE CHLORIDE	UG/L	5	3	
TETRACHLOROETHENE	UG/L	ND	1	
1,1,1-TRICHLOROETHANE	UG/L	ND	5	
TOTAL XYLEMES	UG/L	150	2	
1,2-DICHLOROBENZENE	UG/L	15	3	
1,3-DICHLOROBENZENE	UG/L	6	3	
1,4-DICHLOROBENZENE	UG/L	18	5	
BROMOFLUOROBENZENE	%REC/SURR	107	86-115	
1,2-DICHLOROETHANE-D4	%REC/SURR	105	76-114	
TOLUENE-D8	%REC/SURR	104	88-115	
ANALYST	INITIALS	DWB		

Comments:

[0] Page 11
Date 14-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: SAFETY CLEAN (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: GROUNDWATER
QC Level: II

Lab Id: 011 Sample Date/Time: 23-FEB-94 1320
Client Sample Id: 022394 DA-1A Received Date: 24-FEB-94
Batch: NAW021 Extraction Date: N/A
Blank: C Dry Weight %: N/A Analysis Date: 01-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/L	ND	10	
BENZENE	UG/L	ND	1	
CARBON DISULFIDE	UG/L	6	1	
CHLOROBENZENE	UG/L	ND	1	
1,1-DICHLOROETHENE	UG/L	ND	1	
ETHYL BENZENE	UG/L	ND	1	
METHYLENE CHLORIDE	UG/L	ND	3	
TETRACHLOROETHENE	UG/L	ND	1	
1,1,1-TRICHLOROETHANE	UG/L	ND	5	
TOTAL XYLEMES	UG/L	ND	2	
1,2-DICHLOROBENZENE	UG/L	ND	3	
1,3-DICHLOROBENZENE	UG/L	ND	3	
1,4-DICHLOROBENZENE	UG/L	ND	5	
BROMOFLUOROBENZENE	%REC/SURR	102	86-115	
1,2-DICHLOROETHANE-D4	%REC/SURR	98	76-114	
TOLUENE-D8	%REC/SURR	112	88-115	
ANALYST	INITIALS	DWB		

Comments:

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Date 14-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: SAFETY CLEAN (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: GROUNDWATER
QC Level: II

Lab Id: 012 Sample Date/Time: 23-FEB-94 1530
Client Sample Id: 022394 DA-5D Received Date: 24-FEB-94
Batch: NAW021 Extraction Date: N/A
Blank: C Dry Weight %: N/A Analysis Date: 01-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/L	ND	10	
BENZENE	UG/L	ND	1	
CARBON DISULFIDE	UG/L	6	1	
CHLOROBENZENE	UG/L	ND	1	
1,1-DICHLOROETHENE	UG/L	ND	1	
ETHYL BENZENE	UG/L	ND	1	
METHYLENE CHLORIDE	UG/L	6	3	
TETRACHLOROETHENE	UG/L	ND	1	
1,1,1-TRICHLOROETHANE	UG/L	ND	5	
TOTAL XYLEMES	UG/L	ND	2	
1,2-DICHLOROBENZENE	UG/L	ND	3	
1,3-DICHLOROBENZENE	UG/L	ND	3	
1,4-DICHLOROBENZENE	UG/L	ND	5	
BROMOFLUOROBENZENE	%REC/SURR	107	86-115	
1,2-DICHLOROETHANE-D4	%REC/SURR	98	76-114	
TOLUENE-D8	%REC/SURR	108	88-115	
ANALYST	INITIALS	DWB		

Comments:

[0] Page 13
Date 14-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: SAFETY CLEAN (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: GROUNDWATER
QC Level: II

Lab Id: 013 Sample Date/Time: 23-FEB-94 1645
Client Sample Id: 022394 DA-4D Received Date: 24-FEB-94

Batch: NAW021 Extraction Date: N/A
Blank: C Dry Weight %: N/A Analysis Date: 01-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/L	ND	10	
BENZENE	UG/L	ND	1	
CARBON DISULFIDE	UG/L	47	1	
CHLOROBENZENE	UG/L	ND	1	
1,1-DICHLOROETHENE	UG/L	ND	1	
ETHYL BENZENE	UG/L	ND	1	
METHYLENE CHLORIDE	UG/L	7	3	
TETRACHLOROETHENE	UG/L	ND	1	
1,1,1-TRICHLOROETHANE	UG/L	ND	5	
TOTAL XYLEMES	UG/L	ND	2	
1,2-DICHLOROBENZENE	UG/L	ND	3	
1,3-DICHLOROBENZENE	UG/L	ND	3	
1,4-DICHLOROBENZENE	UG/L	ND	5	
BROMOFLUOROBENZENE	%REC/SURR	103	86-115	
1,2-DICHLOROETHANE-D4	%REC/SURR	95	76-114	
TOLUENE-D8	%REC/SURR	106	88-115	
ANALYST	INITIALS	DWB		

Comments:

[0] Page 14
Date 14-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: SAFETY CLEAN (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: GROUNDWATER
QC Level: II

Lab Id: 014 Sample Date/Time: 22-FEB-94 N/S
Client Sample Id: 022294 DUPE Received Date: 24-FEB-94

Batch: NAW021 Extraction Date: N/A
Blank: D Dry Weight %: N/A Analysis Date: 01-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/L	ND	10	
BENZENE	UG/L	10	1	
CARBON DISULFIDE	UG/L	7	1	
CHLOROBENZENE	UG/L	52	1	
1,1-DICHLOROETHENE	UG/L	ND	1	
ETHYL BENZENE	UG/L	14	1	
METHYLENE CHLORIDE	UG/L	ND	3	
TETRACHLOROETHENE	UG/L	ND	1	
1,1,1-TRICHLOROETHANE	UG/L	ND	5	
TOTAL XYLEMES	UG/L	30	2	
1,2-DICHLOROBENZENE	UG/L	13	3	
1,3-DICHLOROBENZENE	UG/L	10	3	
1,4-DICHLOROBENZENE	UG/L	22	5	
BROMOFLUOROBENZENE	%REC/SURR	112	86-115	
1,2-DICHLOROETHANE-D4	%REC/SURR	105	76-114	
TOLUENE-D8	%REC/SURR	98	88-115	
ANALYST	INITIALS	DWB		

Comments:

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Date 14-Mar-94

Accession: 402690
 Client: SAFETY-KLEEN EHS ADMINISTRATION
 Project Number: 94080-1111
 Project Name: SAFETY KLEEN
 Project Location: MANHATTAN SAFETY KLEEN
 Test: SAFETY CLEAN (8240)
 Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
 Extraction Method: N/A
 Matrix: WATER
 QC Level: II

Lab Id: 015 Sample Date/Time: N/S
 Client Sample Id: TRIP BLANK Received Date: 24-FEB-94

Batch: NAW021 Extraction Date: N/A
 Blank: C Dry Weight %: N/A Analysis Date: 01-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/L	ND	10	
BENZENE	UG/L	ND	1	
CARBON DISULFIDE	UG/L	ND	1	
CHLOROBENZENE	UG/L	ND	1	
1,1-DICHLOROETHENE	UG/L	ND	1	
ETHYL BENZENE	UG/L	ND	1	
METHYLENE CHLORIDE	UG/L	ND	3	
TETRACHLOROETHENE	UG/L	ND	1	
1,1,1-TRICHLOROETHANE	UG/L	ND	5	
TOTAL XYLENES	UG/L	ND	2	
1,2-DICHLOROBENZENE	UG/L	ND	3	
1,3-DICHLOROBENZENE	UG/L	ND	3	
1,4-DICHLOROBENZENE	UG/L	ND	5	
BROMOFLUOROBENZENE	%REC/SURR	109	86-115	
1,2-DICHLOROETHANE-D4	%REC/SURR	101	76-114	
TOLUENE-D8	%REC/SURR	111	88-115	
ANALYST	INITIALS	DWB		

Comments:

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 Date 14-Mar-94

"Method Report Summary"

Accession Number: 402690
 Client: SAFETY-KLEEN EHS ADMINISTRATION
 Project Number: 94080-1111
 Project Name: SAFETY KLEEN
 Project Location: MANHATTAN SAFETY KLEEN
 Test: SAFETY CLEAN (8240)

Client Sample Id:	Parameter:	Unit:	Result:
022294 SA-3	CARBON DISULFIDE	UG/L	3
	TETRACHLOROETHENE	UG/L	2
022294 SA-1	CARBON DISULFIDE	UG/L	7
022394 SA-4	CARBON DISULFIDE	UG/L	2
022394 POC-1	CARBON DISULFIDE	UG/L	1
022394 POC-2	BENZENE	UG/L	11
	CARBON DISULFIDE	UG/L	4
	CHLOROBENZENE	UG/L	50
	ETHYL BENZENE	UG/L	14
	TOTAL XYLEMES	UG/L	27
	1, 2-DICHLOROBENZENE	UG/L	11
	1, 3-DICHLOROBENZENE	UG/L	8
	1, 4-DICHLOROBENZENE	UG/L	18
022394 POC-3	BENZENE	UG/L	11
	CARBON DISULFIDE	UG/L	6
	CHLOROBENZENE	UG/L	64
	ETHYL BENZENE	UG/L	74
	METHYLENE CHLORIDE	UG/L	5
	TOTAL XYLEMES	UG/L	150
	1, 2-DICHLOROBENZENE	UG/L	15
	1, 3-DICHLOROBENZENE	UG/L	6
022394 DA-1A	1, 4-DICHLOROBENZENE	UG/L	18
022394 DA-5D	CARBON DISULFIDE	UG/L	6
022394 DA-4D	CARBON DISULFIDE	UG/L	6
022294 DUPE	METHYLENE CHLORIDE	UG/L	47
	BENZENE	UG/L	7
	CARBON DISULFIDE	UG/L	10
	CHLOROBENZENE	UG/L	7
	ETHYL BENZENE	UG/L	52
	TOTAL XYLEMES	UG/L	14
	1, 2-DICHLOROBENZENE	UG/L	30
	1, 3-DICHLOROBENZENE	UG/L	13
	1, 4-DICHLOROBENZENE	UG/L	10
		UG/L	22

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: SAFETY CLEAN BN/A EXTRACTABLES (8270)

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Department: ORGANIC/MS

[0] Page 1
Date 14-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: SAFETY CLEAN BN/A EXTRACTABLES (8270)
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3520 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Matrix: GROUNDWATER
QC Level: II

Lab Id: 001 Sample Date/Time: 22-FEB-94 1500
Client Sample Id: 022294 SA-3 Received Date: 24-FEB-94

Batch: ALW036 Extraction Date: 28-FEB-94
Blank: A Dry Weight %: N/A Analysis Date: 02-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
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CRESYLIC ACID (CRESOL)	UG/L	ND	10	
2,4-DIMETHYLPHENOL	UG/L	ND	10	
2-METHYLNAPHTHALENE	UG/L	ND	10	
NAPHTHALENE	UG/L	ND	10	
2-NAPHTHYLAMINE	UG/L	ND	10	
2-FLUOROPHENOL	%REC/SURR	71	21-100	
PHENOL-D6	%REC/SURR	52	10-100	
2,4,6-TRIBROMOPHENOL	%REC/SURR	47	10-123	
2-FLUOROBIPHENYL	%REC/SURR	72	43-116	
NITROBENZENE-D5	%REC/SURR	67	35-114	
TERPHENYL-D14	%REC/SURR	77	33-141	
ANALYST	INITIALS	LD		

Comments:

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Date 14-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: SAFETY CLEAN BN/A EXTRACTABLES (8270)
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3520 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Matrix: GROUNDWATER
QC Level: II

Lab Id: 002 Sample Date/Time: 22-FEB-94 1540
Client Sample Id: 022294 SA-1 Received Date: 24-FEB-94

Batch: ALW036 Extraction Date: 28-FEB-94
Blank: A Dry Weight %: N/A Analysis Date: 03-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
CRESYLIC ACID (CRESOL)	UG/L	ND	10	
2,4-DIMETHYLPHENOL	UG/L	ND	10	
2-METHYLNAPHTHALENE	UG/L	ND	10	
NAPHTHALENE	UG/L	ND	10	
2-NAPHTHYLAMINE	UG/L	ND	10	
2-FLUOROPHENOL	%REC/SURR	71	21-100	
PHENOL-D6	%REC/SURR	50	10-100	
2,4,6-TRIBROMOPHENOL	%REC/SURR	53	10-123	
2-FLUOROBIPHENYL	%REC/SURR	66	43-116	
NITROBENZENE-D5	%REC/SURR	61	35-114	
TERPHENYL-D14	%REC/SURR	69	33-141	
ANALYST	INITIALS	LD		

Comments:

[0] Page 3
Date 14-Mar-94

Accession: 402690
 Client: SAFETY-KLEEN EHS ADMINISTRATION
 Project Number: 94080-1111
 Project Name: SAFETY KLEEN
 Project Location: MANHATTAN SAFETY KLEEN
 Test: SAFETY CLEAN BN/A EXTRACTABLES (8270)
 Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
 Extraction Method: 3520 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
 Matrix: WATER
 QC Level: II

Lab Id: 003 Sample Date/Time: 22-FEB-94 1630
 Client Sample Id: 022294 EQ BLK Received Date: 24-FEB-94

Batch: ALW036 Extraction Date: 28-FEB-94
 Blank: A Dry Weight %: N/A Analysis Date: 03-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
CRESYLIC ACID (CRESOL)	UG/L	ND	10	
2,4-DIMETHYLPHENOL	UG/L	ND	10	
2-METHYLNAPHTHALENE	UG/L	ND	10	
NAPHTHALENE	UG/L	ND	10	
2-NAPHTHYLAMINE	UG/L	ND	10	
2-FLUOROPHENOL	%REC/SURR	34	21-100	
PHENOL-D6	%REC/SURR	28	10-100	
2,4,6-TRIBROMOPHENOL	%REC/SURR	37	10-123	
2-FLUOROBIPHENYL	%REC/SURR	70	43-116	
NITROBENZENE-D5	%REC/SURR	65	35-114	
TERPHENYL-D14	%REC/SURR	73	33-141	
ANALYST	INITIALS	LD		

Comments:

[0] Page 4
Date 14-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: SAFETY CLEAN BN/A EXTRACTABLES (8270)
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3520 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Matrix: WATER
QC Level: II

Lab Id: 004 Sample Date/Time: 22-FEB-94 1725
Client Sample Id: 022294 BLK Received Date: 24-FEB-94

Batch: ALW036 Extraction Date: 28-FEB-94
Blank: A Dry Weight %: N/A Analysis Date: 03-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
CRESYLIC ACID (CRESOL)	UG/L	ND	10	
2,4-DIMETHYLPHENOL	UG/L	ND	10	
2-METHYLNAPHTHALENE	UG/L	ND	10	
NAPHTHALENE	UG/L	ND	10	
2-NAPHTHYLAMINE	UG/L	ND	10	
2-FLUOROPHENOL	%REC/SURR	52	21-100	
PHENOL-D6	%REC/SURR	39	10-100	
2,4,6-TRIBROMOPHENOL	%REC/SURR	38	10-123	
2-FLUOROBIPHENYL	%REC/SURR	70	43-116	
NITROBENZENE-D5	%REC/SURR	63	35-114	
TERPHENYL-D14	%REC/SURR	82	33-141	
ANALYST	INITIALS	LD		

Comments:

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Date 14-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: SAFETY CLEAN BN/A EXTRACTABLES (8270)
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3520 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Matrix: GROUNDWATER
QC Level: II

Lab Id: 005 Sample Date/Time: 22-FEB-94 1800
Client Sample Id: 022294 BG-1 Received Date: 24-FEB-94

Batch: ALW036 Extraction Date: 28-FEB-94
Blank: A Dry Weight %: N/A Analysis Date: 03-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
CRESYLIC ACID (CRESOL)	UG/L	ND	10	
2,4-DIMETHYLPHENOL	UG/L	ND	10	
2-METHYLNAPHTHALENE	UG/L	ND	10	
NAPHTHALENE	UG/L	ND	10	
2-NAPHTHYLAMINE	UG/L	ND	10	
2-FLUOROPHENOL	%REC/SURR	64	21-100	
PHENOL-D6	%REC/SURR	48	10-100	
2,4,6-TRIBROMOPHENOL	%REC/SURR	43	10-123	
2-FLUOROBIPHENYL	%REC/SURR	73	43-116	
NITROBENZENE-D5	%REC/SURR	68	35-114	
TERPHENYL-D14	%REC/SURR	83	33-141	
ANALYST	INITIALS	LD		

Comments:

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Date 14-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: SAFETY CLEAN BN/A EXTRACTABLES (8270)
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3520 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Matrix: GROUNDWATER
QC Level: II

Lab Id: 006 Sample Date/Time: 22-FEB-94 1735
Client Sample Id: 022294 SA-2 Received Date: 24-FEB-94

Batch: ALW036 Extraction Date: 28-FEB-94
Blank: A Dry Weight %: N/A Analysis Date: 03-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
CRESYLIC ACID (CRESOL)	UG/L	ND	10	
2, 4-DIMETHYLPHENOL	UG/L	ND	10	
2-METHYLNAPHTHALENE	UG/L	ND	10	
NAPHTHALENE	UG/L	ND	10	
2-NAPHTHYLAMINE	UG/L	ND	10	
2-FLUOROPHENOL	%REC/SURR	57	21-100	
PHENOL-D6	%REC/SURR	44	10-100	
2, 4, 6-TRIBROMOPHENOL	%REC/SURR	44	10-123	
2-FLUOROBIPHENYL	%REC/SURR	61	43-116	
NITROBENZENE-D5	%REC/SURR	56	35-114	
TERPHENYL-D14	%REC/SURR	72	33-141	
ANALYST	INITIALS	LD		

Comments:

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Date 14-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: SAFETY CLEAN BN/A EXTRACTABLES (8270)
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3520 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Matrix: GROUNDWATER
QC Level: II

Lab Id: 007 Sample Date/Time: 23-FEB-94 0830
Client Sample Id: 022394 SA-4 Received Date: 24-FEB-94

Batch: ALW036 Extraction Date: 28-FEB-94
Blank: A Dry Weight %: N/A Analysis Date: 03-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
CRESYLIC ACID (CRESOL)	UG/L	ND	10	
2, 4-DIMETHYLPHENOL	UG/L	ND	10	
2-METHYLNAPHTHALENE	UG/L	ND	10	
NAPHTHALENE	UG/L	ND	10	
2-NAPHTHYLAMINE	UG/L	ND	10	
2-FLUOROPHENOL	%REC/SURR	64	21-100	
PHENOL-D6	%REC/SURR	48	10-100	
2, 4, 6-TRIBROMOPHENOL	%REC/SURR	47	10-123	
2-FLUOROBIPHENYL	%REC/SURR	79	43-116	
NITROBENZENE-D5	%REC/SURR	74	35-114	
TERPHENYL-D14	%REC/SURR	83	33-141	
ANALYST	INITIALS	LD		

Comments:

[0] Page 8
Date 14-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: SAFETY CLEAN BN/A EXTRACTABLES (8270)
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3520 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Matrix: GROUNDWATER
QC Level: II

Lab Id: 008 Sample Date/Time: 23-FEB-94 0930
Client Sample Id: 022394 POC-1 Received Date: 24-FEB-94

Batch: ALW036 Extraction Date: 28-FEB-94
Blank: A Dry Weight %: N/A Analysis Date: 03-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
CRESYLIC ACID (CRESOL)	UG/L	ND	10	
2, 4-DIMETHYLPHENOL	UG/L	ND	10	
2-METHYLNAPHTHALENE	UG/L	ND	10	
NAPHTHALENE	UG/L	ND	10	
2-NAPHTHYLAMINE	UG/L	ND	10	
2-FLUOROPHENOL	%REC/SURR	69	21-100	
PHENOL-D6	%REC/SURR	49	10-100	
2, 4, 6-TRIBROMOPHENOL	%REC/SURR	48	10-123	
2-FLUOROBIPHENYL	%REC/SURR	70	43-116	
NITROBENZENE-D5	%REC/SURR	66	35-114	
TERPHENYL-D14	%REC/SURR	73	33-141	
ANALYST	INITIALS	LD		

Comments:

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Date 14-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: SAFETY CLEAN BN/A EXTRACTABLES (8270)
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3520 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Matrix: GROUNDWATER
QC Level: II

Lab Id: 009 Sample Date/Time: 23-FEB-94 1030
Client Sample Id: 022394 POC-2 Received Date: 24-FEB-94

Batch: ALW036 Extraction Date: 28-FEB-94
Blank: A Dry Weight %: N/A Analysis Date: 03-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
CRESYLIC ACID (CRESOL)	UG/L	ND	10	
2,4-DIMETHYLPHENOL	UG/L	ND	10	
2-METHYLNAPHTHALENE	UG/L	ND	10	
NAPHTHALENE	UG/L	27	10	
2-NAPHTHYLAMINE	UG/L	ND	10	
2-FLUOROPHENOL	%REC/SURR	66	21-100	
PHENOL-D6	%REC/SURR	52	10-100	
2,4,6-TRIBROMOPHENOL	%REC/SURR	74	10-123	
2-FLUOROBIPHENYL	%REC/SURR	64	43-116	
NITROBENZENE-D5	%REC/SURR	62	35-114	
TERPHENYL-D14	%REC/SURR	72	33-141	
ANALYST	INITIALS	LD		

Comments:

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Date 14-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: SAFETY CLEAN BN/A EXTRACTABLES (8270)
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3520 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Matrix: GROUNDWATER
QC Level: II

Lab Id: 010 Sample Date/Time: 23-FEB-94 1140
Client Sample Id: 022394 POC-3 Received Date: 24-FEB-94

Batch: ALW036 Extraction Date: 28-FEB-94
Blank: A Dry Weight %: N/A Analysis Date: 03-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
CRESYLIC ACID (CRESOL)	UG/L	ND	10	
2,4-DIMETHYLPHENOL	UG/L	ND	10	
2-METHYLNAPHTHALENE	UG/L	7	10	J
NAPHTHALENE	UG/L	120	10	
2-NAPHTHYLAMINE	UG/L	ND	10	
2-FLUOROPHENOL	%REC/SURR	62	21-100	
PHENOL-D6	%REC/SURR	50	10-100	
2,4,6-TRIBROMOPHENOL	%REC/SURR	60	10-123	
2-FLUOROBIPHENYL	%REC/SURR	65	43-116	
NITROBENZENE-D5	%REC/SURR	64	35-114	
TERPHENYL-D14	%REC/SURR	70	33-141	
ANALYST	INITIALS	LD		

Comments:

[0] Page 11
Date 14-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: SAFETY CLEAN BN/A EXTRACTABLES (8270)
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3520 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Matrix: GROUNDWATER
QC Level: II

Lab Id: 011 Sample Date/Time: 23-FEB-94 1320
Client Sample Id: 022394 DA-1A Received Date: 24-FEB-94

Batch: ALW036 Extraction Date: 28-FEB-94
Blank: A Dry Weight %: N/A Analysis Date: 03-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
CRESYLIC ACID (CRESOL)	UG/L	ND	10	
2,4-DIMETHYLPHENOL	UG/L	ND	10	
2-METHYLNAPHTHALENE	UG/L	ND	10	
NAPHTHALENE	UG/L	ND	10	
2-NAPHTHYLAMINE	UG/L	ND	10	
2-FLUOROPHENOL	%REC/SURR	66	21-100	
PHENOL-D6	%REC/SURR	52	10-100	
2,4,6-TRIBROMOPHENOL	%REC/SURR	44	10-123	
2-FLUOROBIPHENYL	%REC/SURR	56	43-116	
NITROBENZENE-D5	%REC/SURR	48	35-114	
TERPHENYL-D14	%REC/SURR	71	33-141	
ANALYST	INITIALS	LD		

Comments:

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Date 14-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: SAFETY CLEAN BN/A EXTRACTABLES (8270)
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3520 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Matrix: GROUNDWATER
QC Level: II

Lab Id: 012 Sample Date/Time: 23-FEB-94 1530
Client Sample Id: 022394 DA-5D Received Date: 24-FEB-94

Batch: ALW036 Extraction Date: 28-FEB-94
Blank: A Dry Weight %: N/A Analysis Date: 03-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
CRESYLIC ACID (CRESOL)	UG/L	ND	10	
2, 4-DIMETHYLPHENOL	UG/L	ND	10	
2-METHYLNAPHTHALENE	UG/L	ND	10	
NAPHTHALENE	UG/L	ND	10	
2-NAPHTHYLAMINE	UG/L	ND	10	
2-FLUOROPHENOL	%REC/SURR	44	21-100	
PHENOL-D6	%REC/SURR	44	10-100	
2, 4, 6-TRIBROMOPHENOL	%REC/SURR	42	10-123	
2-FLUOROBIPHENYL	%REC/SURR	60	43-116	
NITROBENZENE-D5	%REC/SURR	55	35-114	
TERPHENYL-D14	%REC/SURR	70	33-141	
ANALYST	INITIALS	LD		

Comments:

[0] Page 13
Date 14-Mar-94

Accession: 402690
 Client: SAFETY-KLEEN EHS ADMINISTRATION
 Project Number: 94080-1111
 Project Name: SAFETY KLEEN
 Project Location: MANHATTAN SAFETY KLEEN
 Test: SAFETY CLEAN BN/A EXTRACTABLES (8270)
 Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
 Extraction Method: 3520 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
 Matrix: GROUNDWATER
 QC Level: II

Lab Id: 013 Sample Date/Time: 23-FEB-94 1645
 Client Sample Id: 022394 DA-4D Received Date: 24-FEB-94

Batch: ALW036 Extraction Date: 28-FEB-94
 Blank: A Dry Weight %: N/A Analysis Date: 03-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
CRESYLIC ACID (CRESOL)	UG/L	ND	10	
2,4-DIMETHYLPHENOL	UG/L	ND	10	
2-METHYLNAPHTHALENE	UG/L	ND	10	
NAPHTHALENE	UG/L	ND	10	
2-NAPHTHYLAMINE	UG/L	ND	10	
2-FLUOROPHENOL	%REC/SURR	27	21-100	
PHENOL-D6	%REC/SURR	23	10-100	
2,4,6-TRIBROMOPHENOL	%REC/SURR	39	10-123	
2-FLUOROBIPHENYL	%REC/SURR	66	43-116	
NITROBENZENE-D5	%REC/SURR	63	35-114	
TERPHENYL-D14	%REC/SURR	64	33-141	
ANALYST	INITIALS	LD		

Comments:

[0] Page 14
Date 14-Mar-94

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: SAFETY CLEAN BN/A EXTRACTABLES (8270)
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3520 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Matrix: GROUNDWATER
QC Level: II

Lab Id: 014 Sample Date/Time: 22-FEB-94 N/S
Client Sample Id: 022294 DUPE Received Date: 24-FEB-94

Batch: ALW036 Extraction Date: 28-FEB-94
Blank: A Dry Weight %: N/A Analysis Date: 03-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
CRESYLIC ACID (CRESOL)	UG/L	ND	10	
2, 4-DIMETHYLPHENOL	UG/L	ND	10	
2-METHYLNAPHTHALENE	UG/L	ND	10	
NAPHTHALENE	UG/L	18	10	
2-NAPHTHYLAMINE	UG/L	ND	10	
2-FLUOROPHENOL	%REC/SURR	61	21-100	
PHENOL-D6	%REC/SURR	46	10-100	
2, 4, 6-TRIBROMOPHENOL	%REC/SURR	65	10-123	
2-FLUOROBIPHENYL	%REC/SURR	47	43-116	
NITROBENZENE-D5	%REC/SURR	38	35-114	
TERPHENYL-D14	%REC/SURR	49	33-141	
ANALYST	INITIALS	LD		

Comments:

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Date 14-Mar-94

"Method Report Summary"

Accession Number: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Test: SAFETY CLEAN BN/A EXTRACTABLES (8270)

Client Sample Id:	Parameter:	Unit:	Result:
022394 POC-2	NAPHTHALENE	UG/L	27
022394 POC-3	2-METHYLNAPHTHALENE	UG/L	7
022294 DUPE	NAPHTHALENE	UG/L	120
	NAPHTHALENE	UG/L	18

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: Group of Single Wetchem

Accession:	402690
Client:	SAFETY-KLEEN EHS ADMINISTRATION
Project Number:	94080-1111
Project Name:	SAFETY KLEEN
Project Location:	MANHATTAN SAFETY KLEEN
Department:	WET CHEM

[0] Page 1
Date 01-Mar-94

"WetChem Quality Control Report"		
Parameter:	SULFIDE	TURBIDITY
Batch Id:	SFW007	TBW005
Blank Result:	<1	<0.1
Anal. Method:	9030	180.1
Prep. Method:	N/A	N/A
Analysis Date:	25-FEB-94	24-FEB-94
Prep. Date:	25-FEB-94	24-FEB-94

Sample Duplication

Sample Dup:	402690-13	402688-1
Rept Limit:	<1	<0.1
Sample Result:	<1	20.5
Dup Result:	<1	20.2
Sample RPD:	N/C	1
Max RPD:	1	5
Dry Weight%	N/A	N/A

Matrix Spike

Sample Spiked:	N/A	N/A
Rept Limit:	N/A	N/A
Sample Result:		
Spiked Result:		
Spike Added:		
% Recovery:		
% Rec Limits:		
Dry Weight%		

ICV

ICV Result:	19	4.1
True Result:	20	4.0
% Recovery:	95	103
% Rec Limits:	90-110	90-110

LCS

LCS Result:		
True Result:		
% Recovery:		
% Rec Limits:		

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

[0] Page 2
Date 01-Mar-94
"Quality Control Comments"

	Batch Id:	Comments:
SFW007	TIME ON: 1100	
TBW005	TIME ON: 1100	
TBW005	SAMPLES 402690 (1-14) WERE ADDED TO BATCH TBW005 ON 2/24 AT 4PM.	

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Date 01-Mar-94

----- Common Footnotes Wet Chem -----

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW ATI REPORTING LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
ND = NOT DETECTED ABOVE REPORTING LIMIT.
DISS. OR D = DISSOLVED
T & D = TOTAL AND DISSOLVED
R = REACTIVE
T = TOTAL
G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X ATI REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELOW ATI REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".
Q = THE ANALYTICAL (POST-DIGESTION) SPIKE IS REPORTED DUE TO THE MATRIX (PRE-DIGESTION) SPIKE BEING OUTSIDE ACCEPTANCE LIMITS.
= ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE.
+ = ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.
* = ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE.
@ = ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX (DILUTION PRIOR TO PREPARATION).
P = ANALYTICAL (POST-DIGESTION) SPIKE
I = DUPLICATE INJECTION
& = AUTOMATED
F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
N/C+ = NOT CALCULABLE
N/C* = NOT CALCULABLE; SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
H = SAMPLE AND/OR DUPLICATE IS BELOW 5 X ATI REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE ATI REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL".
Z = THE SAMPLE RESULT FOR THE SPIKE IS BELOW REPORTING LIMIT. HOWEVER, THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS.
NH= SAMPLE AND / OR DUPLICATE RESULT IS BELOW 5 X ATI REPORTING LIMIT AND THE RESULTS EXCEED THE ATI REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL"
SAMPLE IS NON-HOMOGENOUS.
(*) = DETECTION LIMITS RAISED DUE TO CLP METHOD NOT REQUIRING A CONCENTRATION STEP FOR CN.
(CA) = SEE CORRECTIVE ACTIONS FORM.

SW-846, 3RD EDITION, SEPTEMBER 1986 AND REVISION 1, JULY 1992.

EPA 600/4-79-020, REVISED MARCH 1983.

STANDARD METHODS, 17TH ED., 1989

NIOSH MANUAL OF ANALYTICAL METHODS, 3RD EDITION.

ANNUAL BOOK OF ASTM STANDARDS, VOLUME 11.01, 1991.

1. COLIFORM. COLIFORM PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE LOGARITHM OF COLONIES PER 100 MLS OF SAMPLE ON DUPLICATE PLATES.
2. PH. PH PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND THE DUPLICATE ANALYSIS.
3. FLASHPOINT. FLASHPOINT PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE ANALYSIS. IF FLASHPOINT IS LESS THAN 25 DEGREES CELSIUS, THE DETECTION LIMIT BECOMES THE INITIAL STARTING TEMPERATURE.

DEFINITIONS:

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION).

RPT LIMIT = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

DPH = DOLLY P. HWANG RB = REBECCA BROWN
DBH = DONALD B. HAND BF = BLANCA FACH
BB = BETTY BEAUDRY NB = NANCY L. BRASCH
JHS = JOSEPH SAUNDERS CM = CINDY MCCULLOM
NSB = NANCY S. BUTLER

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: Group of Single Metals

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Department: METALS

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Date 11-Mar-94

Sample Duplication

Sample Dup:	402690-1	402690-12	402690-12	402690-12	402690-12	402690-12
Rept Limit:	<0.005	<0.01	<0.004	<0.005	<0.01	<0.01
Sample Result:	<0.005	0.01	<0.004	<0.005	<0.01	<0.01
Dup Result:	<0.005	0.01	<0.004	<0.005	<0.01	<0.01
Sample RPD:	N/C	N/C	N/C	N/C	N/C	N/C
Max RPD:	0.005	0.01	0.004	0.005	0.01	0.01
Dry Weight%	N/A	N/A	N/A	N/A	N/A	N/A

Matrix Spike

Sample Spiked:	402690-1	402690-12	402690-12	402690-12	402690-12	402690-12
Rept Limit:	<0.005	<0.01	<0.004	<0.005	<0.01	<0.01
Sample Result:	<0.005	0.01	<0.004	<0.005	<0.01	<0.01
Spiked Result:	0.032	1.9	1.9	2.0	1.9	1.9
Spike Added:	0.040	2.0	2.0	2.0	2.0	2.0
% Recovery:	80	95	95	100	95	95
% Rec Limits:	75-125	75-125	75-125	75-125	75-125	75-125
Dry Weight%	N/A	N/A	N/A	N/A	N/A	N/A

ICV

ICV Result:	0.042	4.6	4.7	4.8	4.8	4.7
True Result:	0.040	5.0	5.0	5.0	5.0	5.0
% Recovery:	105	92	94	96	96	94
% Rec Limits:	90-110	90-110	90-110	90-110	90-110	90-110

LCS

LCS Result:	0.035	4.8	4.7	4.8	4.9	4.7
True Result:	0.040	5.0	5.0	5.0	5.0	5.0
% Recovery:	88	96	94	96	98	94
% Rec Limits:	80-120	80-120	80-120	80-120	80-120	80-120

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Date 11-Mar-94

"Metals Quality Control Report"

Parameter:	NICKEL	LEAD	VANADIUM	ZINC	ZINC	COPPER
Batch Id:	E6W070	P7W084	V6W070	56W083	56W070	F6W083
Blank Result:	<0.02	<0.003	<0.01	<0.02	<0.02	<0.01
Anal. Method:	6010	7421	6010	6010	6010	6010
Prep. Method:	3010	3020	3010	3010	3010	3010
Analysis Date:	26-FEB-94	02-MAR-94	26-FEB-94	09-MAR-94	26-FEB-94	09-MAR-94
Prep. Date:	25-FEB-94	25-FEB-94	25-FEB-94	08-MAR-94	25-FEB-94	08-MAR-94

Sample Duplication

Sample Dup:	402690-12	402690-1	402690-12	402690-1	402690-12	402690-1
Rept Limit:	<0.02	<0.003	<0.01	<0.02	<0.02	<0.01
Sample Result:	<0.02	<0.003	<0.01	0.13	<0.02	<0.01
Dup Result:	<0.02	<0.003	<0.01	0.13	<0.02	0.01
Sample RPD:	N/C	N/C	N/C	0	N/C	N/C
Max RPD:	0.02	0.003	0.01	20	0.02	0.01
Dry Weight%	N/A	N/A	N/A	N/A	N/A	N/A

Matrix Spike

Sample Spiked:	402690-12	402690-1	402690-12	402690-1	402690-12	402690-1
Rept Limit:	<0.02	<0.003	<0.01	<0.02	<0.02	<0.01
Sample Result:	<0.02	<0.003	<0.01	0.13	<0.02	<0.01
Spiked Result:	2.0	0.015	2.0	2.2	2.0	2.0
Spike Added:	2.0	0.020	2.0	2.0	2.0	2.0
% Recovery:	100	75	100	104	99	100
% Rec Limits:	75-125	75-125	75-125	75-125	75-125	75-125
Dry Weight%	N/A	N/A	N/A	N/A	N/A	N/A

ICV

ICV Result:	4.9	0.019	4.8	5.0	5.0	4.9
True Result:	5.0	0.020	5.0	5.0	5.0	5.0
% Recovery:	98	95	96	100	100	98
% Rec Limits:	90-110	90-110	90-110	90-110	90-110	90-110

LCS

LCS Result:	4.9	0.033	5.0	4.9	4.9	4.8
True Result:	5.0	0.040	5.0	5.0	5.0	5.0
% Recovery:	98	83	100	98	98	96
% Rec Limits:	80-120	80-120	80-120	80-120	80-120	80-120

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Date 11-Mar-94

Parameter:	BARIUM
Batch Id:	B6W083
Blank Result:	<0.01
Anal. Method:	6010
Prep. Method:	3010
Analysis Date:	09-MAR-94
Prep. Date:	08-MAR-94

"Metals Quality Control Report"

Sample Duplication

Sample Dup:	402690-1
Rept Limit:	<0.01

Sample Result:	<0.01
Dup Result:	<0.01
Sample RPD:	N/C
Max RPD:	0.01
Dry Weight%	N/A

Matrix Spike

Sample Spiked:	402690-1
Rept Limit:	<0.01

Sample Result:	<0.01
Spiked Result:	2.0
Spike Added:	2.0
% Recovery:	100
% Rec Limits:	75-125
Dry Weight%	N/A

ICV

ICV Result:	4.8
True Result:	5.0
% Recovery:	96
% Rec Limits:	90-110

LCS

LCS Result:	4.9
True Result:	5.0
% Recovery:	98
% Rec Limits:	80-120

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Date 11-Mar-94

"Quality Control Comments"

Batch Id: Comments:

R7W084	ANALYST: GJ
B6W070	ANALYST: JLH
Y6W070	ANALYST: JLH
C6W070	ANALYST: JLH
H6W070	ANALYST: JLH
F6W070	ANALYST: JLH
E6W070	ANALYST: JLH
P7W084	ANALYST: JP
V6W070	ANALYST: JLH
56W083	ANALYST: JMP
56W070	ANALYST: JLH
F6W083	ANALYST: JMP
B6W083	ANALYST: JMP

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Date 11-Mar-94

----- Common Footnotes Metals -----

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW ATI REPORTING LIMIT;
THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
N/D = NOT DETECTED.
DISS. OR D = DISSOLVED
T & D = TOTAL AND DISSOLVED
R = REACTIVE
T = TOTAL
G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X ATI REPORTING LIMIT AND
THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT
OR BELOW ATI REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".
Q = THE ANALYTICAL (POST-DIGESTION) SPIKE IS REPORTED DUE TO PERCENT RECOVERY
BEING OUTSIDE ACCEPTANCE LIMITS ON THE MATRIX (PRE-DIGESTION) SPIKE.
= ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE.
+ = ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.
* = ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE. (DILUTION PRIOR
TO ANALYSIS)
@ = ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX. (DILUTION PRIOR TO
DIGESTION)
P = ANALYTICAL (POST DIGESTION) SPIKE.
I = DUPLICATE INJECTION.
& = AUTOMATED
F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
N/C+ = NOT CALCULABLE
N/C* = NOT CALCULABLE; SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
H = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X ATI REPORTING LIMIT AND THE
ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE ATI REPORTING
LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL".
Z = THE SAMPLE RESULT FOR THE SPIKE IS BELOW THE REPORTING LIMIT. HOWEVER,
THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS.
NH= SAMPLE AND / OR DUPLICATE RESULT IS BELOW 5 X ATI REPORTING LIMIT
AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE ATI
REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
SAMPLE IS NON-HOMOGENEOUS.

RPD= RELATIVE PERCENT DEVIATION.

RPT LIMIT= REPORTING LIMIT BASED ON METHOD DETECTION LIMIT STUDIES.

SW-846, 3rd Edition, September 1986 and Revision 1, July 1992.

EPA 600/4-79-020, Revised March 1983.

NIOSH Manual of Analytical Methods, 3rd Edition.

JP = JAY PEREZ
GL = GENE LANDRUM
JMP = JACI M. PRICE
JLH = JAMES L. HERED

JRR = JOHN R. ROWE
JR = JOHN REED
GJ = GARY JACOBS

Quality Control Report

Analysis: MINERAL SPIRITS (SAFETY KLEEN) C9-C13

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Department: SEMI-VOLATILE FUELS

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

[0] Page 1
Date 14-Mar-94

Title: Water Blank
Batch: FPW038
Analysis Method: TCO / 8015 - SW 846, EPA UST Work Group Nov. 1990, Mod. 8015
Extraction Method: 3510/SW-846, 3rd Edition, September 1986 and Revision 1, July 1992

Blank Id: A Date Analyzed: 28-FEB-94 Date Extracted: 24-FEB-94

Parameters:	Units:	Results:	Reporting Limits:
TOTAL PETROLEUM HYDROCARBON	UG/L	ND	100
ORTHO TER PHENYL	%REC/SURR	102	50-150
ANALYST	INITIALS	SKR	

Comments:

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Date 14-Mar-94

"QC Report"

Title: Water Reagent
Batch: FPW038
Analysis Method: TCO / 8015 - SW 846, EPA UST Work Group Nov. 1990, Mod. 8015
Extraction Method: 3510/SW-846, 3rd Edition, September 1986 and Revision 1, July 1992

RS Date Analyzed: 28-FEB-94
RSD Date Analyzed: 28-FEB-94

RS Date Extracted: 24-FEB-94
RSD Date Extracted: 24-FEB-94

Parameters:	Spike Added	Sample Conc	RS Conc	RS %Rec	RSD Conc	RSD %Rec	RPD	Rec Lmts	Lmts
TOTAL PETROLEUM HYDROCARBON	800	<100	700	88	780	98	11	50	22-152

Surrogates:	106	118	50-150
ORTHO TER PHENYL			

Comments:

Notes:

N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
UG/L = PARTS PER BILLION. < = LESS THAN REPORTING LIMIT.

* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.

SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

[0] Page 3
Date 14-Mar-94

"QC Report"

Title: Water Matrix
Batch: FPW038

Analysis Method: TCO / 8015 - SW 846, EPA UST Work Group Nov. 1990, Mod. 8015
Extraction Method: 3510/SW-846, 3rd Edition, September 1986 and Revision 1, July 1992

Dry Weight %: N/A
Sample Spiked: 402652-2 MS Date Analyzed: 28-FEB-94 MS Date Extracted: 24-FEB-94
MSD Date Analyzed: 28-FEB-94 MSD Date Extracted: 24-FEB-94

Parameters:	Spike Added	Sample Conc	MS Conc	MS %Rec	MSD Conc	MSD %Rec	RPD	Rec Lmts
TOTAL PETROLEUM HYDROCARBON	800	210	1110	113	1280	134	17	31

Surrogates:								
ORTHO TER PHENYL					108		110	50-150

Comments:

Notes:

N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
UG/L = PARTS PER BILLION. < = LESS THAN REPORTING LIMIT.

* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.

SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

Common notation for Organic reporting

N/S = NOT SUBMITTED

N/A = NOT APPLICABLE

D = DILUTED OUT

UG = MICROGRAMS

UG/L = PARTS PER BILLION.

UG/KG = PARTS PER BILLION.

MG/M3 = MILLIGRAM PER CUBIC METER.

PPMV = PART PER MILLION BY VOLUME.

MG/KG = PARTS PER MILLION.

MG/L = PARTS PER MILLION.

< = LESS THAN DETECTION LIMIT.

* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS

SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

ORGANIC SOILS ARE REPORTED ON A DRYWEIGHT BASIS.

ND = NOT DETECTED ABOVE REPORTING LIMIT.

RPT LIMIT = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION)

ATI/GC/FID

ATI GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME IONIZATION DETECTOR (FID).

ATI/GC/FIX

ATI GAS CHROMATOGRAPHIC METHOD FOR ANALYSIS OF FIXED GASES EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD) AND FLAME IONIZATION DETECTOR (FID).

ATI/GC/FPD

ATI GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME PHOTOMETRIC DETECTOR (FPD) IN SULFUR-SPECIFIC MODE.

ATI/GC/PID

ATI GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH PHOTOIONIZATION DETECTOR (PID).

ATI/GC/TCD

ATI GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD).

LJT = LISA THOMASON

CD = CHRISTY DRAPER

IP = INGRID PITTMAN

RP = ROB PEREZ

SKR = SVETLANA RODKINA

DGH = DARREL HALSELL

KW = KAREN WADSWORTH

PB = PAMELA BREWTON

MV = MONIQUE VERHEYDEN

SW = STEVE WILHITE

DC = DAVID CELESTIAL

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: SAFETY CLEAN (8240)

Accession:	402690
Client:	SAFETY-KLEEN EHS ADMINISTRATION
Project Number:	94080-1111
Project Name:	SAFETY KLEEN
Project Location:	MANHATTAN SAFETY KLEEN
Department:	ORGANIC/MS

[0] Page 1
Date 14-Mar-94

"QC Report"

Title: Water Blank
 Batch: NAW021
 Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
 Extraction Method: N/A

Blank Id: A Date Analyzed: 28-FEB-94 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
ACETONE	UG/L	ND	10
ACROLEIN	UG/L	ND	100
ACRYLONITRILE	UG/L	ND	100
BENZENE	UG/L	ND	1
BROMODICHLOROMETHANE	UG/L	ND	1
BROMOFORM	UG/L	ND	2
BROMOMETHANE	UG/L	ND	1
2-BUTANONE (MEK)	UG/L	ND	3
CARBON DISULFIDE	UG/L	ND	1
CARBON TETRACHLORIDE	UG/L	ND	2
CHLOROBENZENE	UG/L	ND	1
CHLOROETHANE	UG/L	ND	1
2-CHLOROETHYLVINYL ETHER	UG/L	ND	5
CHLOROFORM	UG/L	ND	2
CHLOROMETHANE	UG/L	ND	2
CHLORODIBROMOMETHANE	UG/L	ND	5
DIBROMOMETHANE	UG/L	ND	5
DICHLORODIFLUOROMETHANE	UG/L	ND	5
1,1-DICHLOROETHANE	UG/L	ND	1
1,2-DICHLOROETHANE	UG/L	ND	2
1,1-DICHLOROETHENE	UG/L	ND	1
TOTAL 1,2-DICHLOROETHYLENE	UG/L	ND	5
1,2-DICHLOROPROPANE	UG/L	ND	2
CIS-1,3-DICHLOROPROPENE	UG/L	ND	1
TRANS-1,3-DICHLOROPROPENE	UG/L	ND	1
1,4-DICHLORO-2-BUTENE	UG/L	ND	5
ETHYL BENZENE	UG/L	ND	1
ETHYL METHACRYLATE	UG/L	ND	5
2-HEXANONE	UG/L	ND	3
IODOMETHANE	UG/L	ND	5
METHYLENE CHLORIDE	UG/L	ND	3
4-METHYL-2-PENTANONE	UG/L	ND	3
STYRENE	UG/L	ND	2
1,1,2,2-TETRACHLOROETHANE	UG/L	ND	2
TETRACHLOROETHENE	UG/L	ND	1
TOLUENE	UG/L	ND	5
1,1,1-TRICHLOROETHANE	UG/L	ND	5
1,1,2-TRICHLOROETHANE	UG/L	ND	2
TRICHLOROETHENE	UG/L	ND	1
TRICHLOROFLUOROMETHANE	UG/L	ND	1
1,2,3 TRICHLOROPROPANE	UG/L	ND	5
VINYL ACETATE	UG/L	ND	2
VINYL CHLORIDE	UG/L	ND	1
TOTAL XYLENES	UG/L	ND	2
BROMOFLUOROBENZENE	%REC/SURR	106	86-115
1,2-DICHLOROETHANE-D4	%REC/SURR	95	76-114

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

[0] Page 2
Date 14-Mar-94

Title: Water Blank "QC Report"
Batch: NAW021
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOLUENE-D8 ANALYST	%REC/SURR INITIALS	108 DWB	88-115

Comments:

[0] Page 3
Date 14-Mar-94

"QC Report"

Title: Water Blank
 Batch: NAW021
 Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
 Extraction Method: N/A

Blank Id: B Date Analyzed: 28-FEB-94 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
ACETONE	UG/L	ND	10
ACROLEIN	UG/L	ND	100
ACRYLONITRILE	UG/L	ND	100
BENZENE	UG/L	ND	1
BROMODICHLOROMETHANE	UG/L	ND	1
BROMOFORM	UG/L	ND	2
BROMOMETHANE	UG/L	ND	1
2-BUTANONE (MEK)	UG/L	ND	3
CARBON DISULFIDE	UG/L	ND	1
CARBON TETRACHLORIDE	UG/L	ND	2
CHLOROBENZENE	UG/L	ND	1
CHLOROETHANE	UG/L	ND	1
2-CHLOROETHYL VINYL ETHER	UG/L	ND	5
CHLOROFORM	UG/L	ND	2
CHLOROMETHANE	UG/L	ND	2
CHLORODIBROMOMETHANE	UG/L	ND	5
DIBROMOMETHANE	UG/L	ND	5
DICHLORODIFLUOROMETHANE	UG/L	ND	5
1,1-DICHLOROETHANE	UG/L	ND	1
1,2-DICHLOROETHANE	UG/L	ND	2
1,1-DICHLOROETHENE	UG/L	ND	1
TOTAL 1,2-DICHLOROETHYLENE	UG/L	ND	5
1,2-DICHLOROPROPANE	UG/L	ND	2
CIS-1,3-DICHLOROPROPENE	UG/L	ND	1
TRANS-1,3-DICHLOROPROPENE	UG/L	ND	1
1,4-DICHLORO-2-BUTENE	UG/L	ND	5
ETHYL BENZENE	UG/L	ND	1
ETHYL METHACRYLATE	UG/L	ND	5
2-HEXANONE	UG/L	ND	3
IODOMETHANE	UG/L	ND	5
METHYLENE CHLORIDE	UG/L	ND	3
4-METHYL-2-PENTANONE	UG/L	ND	3
STYRENE	UG/L	ND	2
1,1,2,2-TETRACHLOROETHANE	UG/L	ND	2
TETRACHLOROETHENE	UG/L	ND	1
TOLUENE	UG/L	ND	5
1,1,1-TRICHLOROETHANE	UG/L	ND	5
1,1,2-TRICHLOROETHANE	UG/L	ND	2
TRICHLOROETHENE	UG/L	ND	1
TRICHLOROFLUOROMETHANE	UG/L	ND	1
1,2,3-TRICHLOROPROPANE	UG/L	ND	5
VINYL ACETATE	UG/L	ND	2
VINYL CHLORIDE	UG/L	ND	1
TOTAL XYLENES	UG/L	ND	2
BROMOFLUOROBENZENE	%REC/SURR	111	86-115
1,2-DICHLOROETHANE-D4	%REC/SURR	100	76-114

[0] Page 4
Date 14-Mar-94.

Title: Water Blank "QC Report"
Batch: NAW021
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOLUENE-D8	%REC/SURR	100	88-115
ANALYST	INITIALS	DWB	

Comments:

[0] Page 5
Date 14-Mar-94

Title: Water Blank "QC Report"
 Batch: NAW021
 Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
 Extraction Method: N/A

Blank Id: D Date Analyzed: 01-MAR-94 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
ACETONE	UG/L	ND	10
ACROLEIN	UG/L	ND	100
ACRYLONITRILE	UG/L	ND	100
BENZENE	UG/L	ND	1
BROMODICHLOROMETHANE	UG/L	ND	1
BROMOFORM	UG/L	ND	2
BROMOMETHANE	UG/L	ND	1
2-BUTANONE (MEK)	UG/L	ND	3
CARBON DISULFIDE	UG/L	ND	1
CARBON TETRACHLORIDE	UG/L	ND	2
CHLOROBENZENE	UG/L	ND	1
CHLOROETHANE	UG/L	ND	1
2-CHLOROETHYL VINYL ETHER	UG/L	ND	5
CHLOROFORM	UG/L	ND	2
CHLOROMETHANE	UG/L	ND	2
CHLORODIBROMOMETHANE	UG/L	ND	5
DIBROMOMETHANE	UG/L	ND	5
DICHLORODIFLUOROMETHANE	UG/L	ND	5
1,1-DICHLOROETHANE	UG/L	ND	1
1,2-DICHLOROETHANE	UG/L	ND	2
1,1-DICHLOROETHENE	UG/L	ND	1
TOTAL 1,2-DICHLOROETHYLENE	UG/L	ND	5
1,2-DICHLOROPROPANE	UG/L	ND	2
CIS-1,3-DICHLOROPROPENE	UG/L	ND	1
TRANS-1,3-DICHLOROPROPENE	UG/L	ND	1
1,4-DICHLORO-2-BUTENE	UG/L	ND	5
ETHYL BENZENE	UG/L	ND	1
ETHYL METHACRYLATE	UG/L	ND	5
2-HEXANONE	UG/L	ND	3
IODOMETHANE	UG/L	ND	5
METHYLENE CHLORIDE	UG/L	ND	3
4-METHYL-2-PENTANONE	UG/L	ND	3
STYRENE	UG/L	ND	2
1,1,2,2-TETRACHLOROETHANE	UG/L	ND	2
TETRACHLOROETHENE	UG/L	ND	1
TOLUENE	UG/L	ND	5
1,1,1-TRICHLOROETHANE	UG/L	ND	5
1,1,2-TRICHLOROETHANE	UG/L	ND	2
TRICHLOROETHENE	UG/L	ND	1
TRICHLOROFUOROMETHANE	UG/L	ND	1
1,2,3 TRICHLOROPROPANE	UG/L	ND	5
VINYL ACETATE	UG/L	ND	2
VINYL CHLORIDE	UG/L	ND	1
TOTAL XYLENES	UG/L	ND	2
BROMOFLUOROBENZENE	%REC/SURR	102	86-115
1,2-DICHLOROETHANE-D4	%REC/SURR	106	76-114

[0] Page 6
Date 14-Mar-94.

Title: Water Blank "QC Report"
Batch: NAW021
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOLUENE-D8 ANALYST	%REC/SURR INITIALS	102 DWB	88-115

Comments:

[0] Page 7
Date 14-Mar-94

Title: Water Blank "QC Report"
 Batch: NAW021
 Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
 Extraction Method: N/A

Blank Id: C Date Analyzed: 01-MAR-94 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
ACETONE	UG/L	ND	10
ACROLEIN	UG/L	ND	100
ACRYLONITRILE	UG/L	ND	100
BENZENE	UG/L	ND	1
BROMODICHLOROMETHANE	UG/L	ND	1
BROMOFORM	UG/L	ND	2
BROMOMETHANE	UG/L	ND	1
2-BUTANONE (MEK)	UG/L	ND	3
CARBON DISULFIDE	UG/L	ND	1
CARBON TETRACHLORIDE	UG/L	ND	2
CHLOROBENZENE	UG/L	ND	1
CHLOROETHANE	UG/L	ND	1
2-CHLOROETHYL VINYL ETHER	UG/L	ND	5
CHLOROFORM	UG/L	ND	2
CHLOROMETHANE	UG/L	ND	2
CHLORODIBROMOMETHANE	UG/L	ND	5
DIBROMOMETHANE	UG/L	ND	5
DICHLORODIFLUOROMETHANE	UG/L	ND	5
1,1-DICHLOROETHANE	UG/L	ND	1
1,2-DICHLOROETHANE	UG/L	ND	2
1,1-DICHLOROETHENE	UG/L	ND	1
TOTAL 1,2-DICHLOROETHYLENE	UG/L	ND	5
1,2-DICHLOROPROPANE	UG/L	ND	2
CIS-1,3-DICHLOROPROPENE	UG/L	ND	1
TRANS-1,3-DICHLOROPROPENE	UG/L	ND	1
1,4-DICHLORO-2-BUTENE	UG/L	ND	5
ETHYL BENZENE	UG/L	ND	1
ETHYL METHACRYLATE	UG/L	ND	5
2-HEXANONE	UG/L	ND	3
IODOMETHANE	UG/L	ND	5
METHYLENE CHLORIDE	UG/L	ND	3
4-METHYL-2-PENTANONE	UG/L	ND	3
STYRENE	UG/L	ND	2
1,1,2,2-TETRACHLOROETHANE	UG/L	ND	2
TETRACHLOROETHENE	UG/L	ND	1
TOLUENE	UG/L	ND	5
1,1,1-TRICHLOROETHANE	UG/L	ND	5
1,1,2-TRICHLOROETHANE	UG/L	ND	2
TRICHLOROETHENE	UG/L	ND	1
TRICHLOROFUOROMETHANE	UG/L	ND	1
1,2,3 TRICHLOROPROPANE	UG/L	ND	5
VINYL ACETATE	UG/L	ND	2
VINYL CHLORIDE	UG/L	ND	1
TOTAL XYLEMES	UG/L	ND	2
BROMOFLUOROBENZENE	%REC/SURR	102	86-115
1,2-DICHLOROETHANE-D4	%REC/SURR	93	76-114

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Date 14-Mar-94

Title: Water Blank "QC Report"
Batch: NAW021
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOLUENE-D8 ANALYST	%REC/SURR INITIALS	107 DWB	88-115

Comments:

[0] Page 9
Date 14-Mar-94

"QC Report"

Title: Water Reagent
 Batch: NAW021
 Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
 Extraction Method: N/A

RS Date Analyzed: 28-FEB-94
 RSD Date Analyzed: 28-FEB-94

RS Date Extracted: N/A
 RSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	RS Conc	RS %Rec	RSD Conc	RSD %Rec	RPD	RPD Lmts	Rec Lmts
1,1-DICHLOROETHENE	50	<1	50	100	48	96	4	14	94-129
TRICHLOROETHENE	50	<1	50	100	51	102	2	14	78-117
BENZENE	50	<1	52	104	53	106	2	11	85-113
TOLUENE	50	<5	58	116	55	110	5	13	47-150
CHLOROBENZENE	50	<1	57	114	57	114	0	13	81-118

Surrogates:
 1,2-DICHLOROETHANE-D4
 TOLUENE-D8
 BROMOFLUOROBENZENE

	97	99	76-114
	110	108	88-115
	103	106	86-115

Comments:

Notes:

N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
 UG/L = PARTS PER BILLION. < = LESS THAN REPORTING LIMIT.

* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.

SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

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Date 14-Mar-94

"QC Report"

Title: Water Matrix
 Batch: NAW021
 Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
 Extraction Method: N/A

Dry Weight %:	N/A	MS Date Analyzed:	28-FEB-94	MS Date Extracted:	N/A			
Sample Spiked:	402690-1	MSD Date Analyzed:	28-FEB-94	MSD Date Extracted:	N/A			
Parameters:	Spike Added	Sample Conc	MS Conc	MS %Rec	MSD Conc	MSD %Rec	RPD	Rec Lmts
1,1-DICHLOROETHENE	50	<1	47	94	48	96	2	14 94-129
TRICHLOROETHENE	50	<1	49	98	48	96	2	14 78-117
BENZENE	50	<1	50	100	50	100	0	11 85-113
TOLUENE	50	<5	46	92	48	96	4	13 47-150
CHLOROBENZENE	50	<1	48	96	50	100	4	13 81-118
Surrogates:								
1,2-DICHLOROETHANE-D4				103		98		76-114
TOLUENE-D8				96		101		88-115
BROMOFLUOROBENZENE				103		99		86-115

Comments:

Notes:
 N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
 UG/L = PARTS PER BILLION. < = LESS THAN REPORTING LIMIT.
 * = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
 SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE
 PROGRAM AND REFERENCED METHOD.

Common notation for Organic reporting

N/S = NOT SUBMITTED
N/A = NOT APPLICABLE
D = DILUTED OUT
UG/L = PARTS PER BILLION.
UG/KG = PARTS PER BILLION.
MG/KG = PARTS PER MILLION.
MG/L = PARTS PER MILLION.
MG/M3 = MILLIGRAMS PER CUBIC METER.
NG = NANOGRAMS.
UG = MICROGRAMS.
PPBV = PARTS PER BILLION/VOLUME.
< = LESS THAN DETECTION LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS
J = THE REPORTED VALUE IS EITHER LESS THAN THE REPORTING LIMIT BUT
GREATER THAN ZERO, OR QUANTITATED AS A TIC; THEREFORE, IT IS
ESTIMATED.
JJ = REPORTED VALUE IS ESTIMATED DUE TO MATRIX INTERFERENCE.
ND = NOT DETECTED ABOVE REPORT LIMIT.
RPT LIMIT = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.
RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION)

SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE
PROGRAM AND REFERENCED METHOD.

ORGANIC SOILS ARE REPORTED ON A DRY WEIGHT BASIS.

DUE TO THE NATURE OF THE SAMPLE MATRIX, MATRIX SPIKE/MATRIX SPIKE
DUPLICATE ANALYSIS CANNOT BE PERFORMED FOR AIR ANALYSIS.

LP = LEVERNE PETERSON	RW = RITA WINGO
DWB = DAVID BOWERS	LD = LARRY DILMORE
DB = DENNIS BESON	DC = DAVID CELESTIAL
LL = LANCE LARSON	RB = RAFAEL BARRAZA

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: SAFETY CLEAN BN/A EXTRACTABLES (8270)

Accession: 402690
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94080-1111
Project Name: SAFETY KLEEN
Project Location: MANHATTAN SAFETY KLEEN
Department: ORGANIC/MS

[0] Page 1
Date 14-Mar-94

"QC Report"

Title: Water Blank

Batch: ALW036

Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.

Extraction Method: 3520 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.

Blank Id: A Date Analyzed: 02-MAR-94 Date Extracted: 28-FEB-94

Parameters:	Units:	Results:	Reporting Limits:
BENZOIC ACID	UG/L	ND	10
4-CHLORO-3-METHYLPHENOL	UG/L	ND	10
2-CHLOROPHENOL	UG/L	ND	10
2, 4-DICHLOROPHENOL	UG/L	ND	10
2, 6-DICHLOROPHENOL	UG/L	ND	10
2, 4-DIMETHYLPHENOL	UG/L	ND	10
4, 6-DINITRO-2-METHYLPHENOL	UG/L	ND	10
2, 4-DINITROPHENOL	UG/L	ND	10
2-METHYLPHENOL	UG/L	ND	10
4-METHYLPHENOL	UG/L	ND	10
2-NITROPHENOL	UG/L	ND	10
4-NITROPHENOL	UG/L	ND	10
PENTACHLOROPHENOL	UG/L	ND	10
PHENOL	UG/L	ND	10
2, 3, 4, 6-TETRACHLOROPHENOL	UG/L	ND	10
2, 4, 5-TRICHLOROPHENOL	UG/L	ND	10
2, 4, 6-TRICHLOROPHENOL	UG/L	ND	10
ACENAPHTHENE	UG/L	ND	10
ACENAPHTHYLENE	UG/L	ND	10
ACETOPHENONE	UG/L	ND	10
4-AMINOBIPHENYL	UG/L	ND	10
ANILINE	UG/L	ND	10
ANTHRACENE	UG/L	ND	10
BENZIDINE	UG/L	ND	10
BENZO (A) ANTHRACENE	UG/L	ND	10
BENZO (A) PYRENE	UG/L	ND	10
BENZO (B) FLUORANTHENE	UG/L	ND	10
BENZO (G, H, I) PERYLENE	UG/L	ND	10
BENZO (K) FLUORANTHENE	UG/L	ND	10
BENZYL ALCOHOL	UG/L	ND	10
BIS (2-CHLOROETHOXY) METHANE	UG/L	ND	10
BIS (2-CHLOROETHYL) ETHER	UG/L	ND	10
BIS (2-CHLOROISOPROPYL) ETHER	UG/L	ND	10
BIS (2-ETHYLHEXYL) PHTHALATE	UG/L	ND	10
4-BROMOPHENYL PHENYL ETHER	UG/L	ND	10
BUTYLBENZYL PHTHALATE	UG/L	ND	10
4-CHLOROANILINE	UG/L	ND	10
1-CHLORONAPHTHALENE	UG/L	ND	10
2-CHLORONAPHTHALENE	UG/L	ND	10
4-CHLOROPHENYL PHENYL ETHER	UG/L	ND	10
CHRYSENE	UG/L	ND	10
DIBENZ (A, J) ACRIDINE	UG/L	ND	10
DIBENZO (A, H) ANTHRACENE	UG/L	ND	10
DIBENZOFURAN	UG/L	ND	10
1, 2-DICHLOROBENZENE	UG/L	ND	10
1, 3-DICHLOROBENZENE	UG/L	ND	10

[0] Page 2
Date 14-Mar-94

"QC Report"

Title: Water Blank

Batch: ALW036

Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.

Extraction Method: 3520 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.

Parameters:	Units:	Results:	Reporting Limits:
1,4-DICHLOROBENZENE	UG/L	ND	10
3,3'-DICHLOROBENZIDINE	UG/L	ND	10
DIETHYLPHthalATE	UG/L	ND	10
P-DIMETHYLAMINOAZOBENZENE	UG/L	ND	10
7,12-DIMETHYLBenz(A)ANTHACENE	UG/L	ND	10
A-,A-DIMETHYLPHENETHYLAMINE	UG/L	ND	10
DIMETHYLPHthalATE	UG/L	ND	10
DI-N-BUTYLPHthalATE	UG/L	ND	10
2,4-DINITROTOLUENE	UG/L	ND	10
2,6-DINITROTOLUENE	UG/L	ND	10
DI-N-OCTYLPHthalATE	UG/L	ND	10
DIPHENYLAMINE	UG/L	ND	10
1,2-DIPHENYLHYDRAZINE	UG/L	ND	10
FLUORANTHENE	UG/L	ND	10
FLUORENE	UG/L	ND	10
HEXACHLOROBENZENE	UG/L	ND	10
HEXACHLOROBUTADIENE	UG/L	ND	10
HEXACHLOROCYCLOPENTADIENE	UG/L	ND	10
HEXACHLOROETHANE	UG/L	ND	10
INDENO (1,2,3-CD) PYRENE	UG/L	ND	10
ISOPHORONE	UG/L	ND	10
3-METHYLCHOLANTHRENE	UG/L	ND	10
2-METHYLNAPHTHALENE	UG/L	ND	10
NAPHTHALENE	UG/L	ND	10
1-NAPHTHYLAMINE	UG/L	ND	10
2-NAPHTHYLAMINE	UG/L	ND	10
2-NITROANILINE	UG/L	ND	10
3-NITROANILINE	UG/L	ND	10
4-NITROANILINE	UG/L	ND	10
NITROBENZENE	UG/L	ND	10
N-NITROSODIMETHYLAMINE	UG/L	ND	10
N-NITROSO-DI-N-BUTYLAMINE	UG/L	ND	10
N-NITROSODIPHENYLAMINE	UG/L	ND	10
N-NITROSO-DI-N-PROPYLAMINE	UG/L	ND	10
N-NITROSOPIPERIDINE	UG/L	ND	10
PENTACHLOROBENZENE	UG/L	ND	10
PENTACHLORONITROBENZENE (PCNB)	UG/L	ND	10
PHENACETIN	UG/L	ND	10
PHENANTHRENE	UG/L	ND	10
2-PICOLINE	UG/L	ND	10
PRONAMIDE	UG/L	ND	10
PYRENE	UG/L	ND	10
1,2,4,5-TETRACHLOROBENZENE	UG/L	ND	10
1,2,4 TRICHLOROBENZENE	UG/L	ND	10
2-FLUOROPHENOL	%REC/SURR	63	21-100
PHENOL-D6	%REC/SURR	47	10-100
2,4,6-TRIBROMOPHENOL	%REC/SURR	39	10-123

[0] Page 3
Date 14-Mar-94.

Title: Water Blank "QC Report"
Batch: ALW036
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3520 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.

Parameters:	Units:	Results:	Reporting Limits:
2-FLUOROBIPHENYL	%REC/SURR	71	43-116
NITROBENZENE-D5	%REC/SURR	66	35-114
TERPHENYL-D14	%REC/SURR	84	33-141
ANALYST	INITIALS	LD	

Comments:

[0] Page 4
Date 14-Mar-94

"QC Report"

Title: Water Reagent
 Batch: ALW036
 Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
 Extraction Method: 3520 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.

RS Date Analyzed: 02-MAR-94
 RSD Date Analyzed: 03-MAR-94

RS Date Extracted: 28-FEB-94
 RSD Date Extracted: 28-FEB-94

Parameters:	Spike Added	Sample Conc	RS Conc	RSD %Rec	RS Conc	RSD %Rec	RPD	Rec Lmts
PHENOL	200	<10	150	75	172	86	14	42
2-CHLOROPHENOL	200	<10	162	81	182	91	12	40
1, 4-DICHLOROBENZENE	100	<10	62	62	64	64	3	28
N-NITRO-DI-N-PROPYLAMINE	100	<10	58	58	60	60	3	38
1, 2, 4 TRICHLOROBENZENE	100	<10	62	62	58	58	7	28
4-CHLORO-3-METHYLPHENOL	200	<10	142	71	142	71	0	42
ACENAPHTHENE	100	<10	84	84	82	82	2	31
4-NITROPHENOL	200	<50	160	80	156	78	3	50
2, 4-DINITROTOLUENE	100	<10	84	84	80	80	5	38
PENTACHLOROPHENOL	200	<50	204	102	150	75	31	50
PYRENE	100	<10	92	92	98	98	6	31

Surrogates:						
NITROBENZENE-D5			83		84	35-114
2-FLUOROBIPHENYL			87		78	43-116
TERPHENYL-D14			89		95	33-141
PHENOL-D6			85		99	10-100
2-FLUOROPHENOL			85		97	21-100
2, 4, 6-TRIBROMOPHENOL			84		82	10-123

Comments:

Notes:
 N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
 UG/L = PARTS PER BILLION. < = LESS THAN REPORTING LIMIT.
 * = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
 SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

[0] Page 5
Date 14-Mar-94

Title: Water Matrix
Batch: ALW036

Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3520 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.

"QC Report"

Dry Weight %: N/A	MS Date Analyzed: 02-MAR-94	MS Date Extracted: 28-FEB-94
Sample Spiked: 402658-2	MSD Date Analyzed: 02-MAR-94	MSD Date Extracted: 28-FEB-94

Parameters:	Spike Added	Sample Conc	MS Conc	MS %Rec	MSD Conc	MSD %Rec	RPD	Rec Lmts
PHENOL	400	<10	268	67	284	71	6	42 5-112
2-CHLOROPHENOL	400	<10	292	73	312	78	7	40 23-134
1,4-DICHLOROBENZENE	200	<10	144	72	132	66	9	28 20-124
N-NITRO-DI-N-PROPYLAMINE	200	<10	128	64	124	62	3	38 18-122
1,2,4 TRICHLOROBENZENE	200	<10	144	72	132	66	9	28 44-142
4-CHLORO-3-METHYLPHENOL	400	<10	296	74	300	75	1	42 22-118
ACENAPHTHENE	200	<10	164	82	162	81	1	31 47-145
4-NITROPHENOL	400	<50	284	71	304	76	7	50 1-132
2,4-DINITROTOLUENE	200	<10	168	84	172	86	2	38 39-139
PENTACHLOROPHENOL	400	<50	380	95	416	104	9	50 14-176
PYRENE	200	<10	180	90	176	88	2	31 52-115

Surrogates:

NITROBENZENE-D5	85	86	35-114
2-FLUOROBIPHENYL	91	92	43-116
TERPHENYL-D14	88	86	33-141
PHENOL-D6	77	81	10-100
2-FLUOROPHENOL	75	76	21-100
2,4,6-TRIBROMOPHENOL	79	83	10-123

Comments:

Notes:
 N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
 UG/L = PARTS PER BILLION. < = LESS THAN REPORTING LIMIT.
 * = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
 SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE
 PROGRAM AND REFERENCED METHOD.

Common notation for Organic reporting

N/S = NOT SUBMITTED
N/A = NOT APPLICABLE
D = DILUTED OUT
UG/L = PARTS PER BILLION.
UG/KG = PARTS PER BILLION.
MG/KG = PARTS PER MILLION.
MG/L = PARTS PER MILLION.
MG/M3 = MILLIGRAMS PER CUBIC METER.
NG = NANOGRAMS.
UG = MICROGRAMS.
PPBV = PARTS PER BILLION/VOLUME.
< = LESS THAN DETECTION LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS
J = THE REPORTED VALUE IS EITHER LESS THAN THE REPORTING LIMIT BUT
GREATER THAN ZERO, OR QUANTITATED AS A TIC; THEREFORE, IT IS
ESTIMATED.
JJ = REPORTED VALUE IS ESTIMATED DUE TO MATRIX INTERFERENCE.
ND = NOT DETECTED ABOVE REPORT LIMIT.
RPT LIMIT = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.
RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION)

SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE
PROGRAM AND REFERENCED METHOD.

ORGANIC SOILS ARE REPORTED ON A DRY WEIGHT BASIS.

DUE TO THE NATURE OF THE SAMPLE MATRIX, MATRIX SPIKE/MATRIX SPIKE
DUPLICATE ANALYSIS CANNOT BE PERFORMED FOR AIR ANALYSIS.

LP = LEVERNE PETERSON	RW = RITA WINGO
DWB = DAVID BOWERS	LD = LARRY DILMORE
DB = DENNIS BESON	DC = DAVID CELESTIAL
LL = LANCE LARSON	RB = RAFAEL BARRAZA

1

TAMPA SAMPLE INSPECTION FORM

402690

Accession #: 93458-1111 SAFETY-KLEEN Date received: 2/23/94

- | | | | | | |
|---|--------------------------------------|----|---|--------------------------------------|---|
| 1. Was there a Chain of Custody? | <input checked="" type="radio"/> YES | NO | 7. Are samples correctly preserved for analysis required? | <input checked="" type="radio"/> YES | NO |
| 2. Was Chain of Custody properly relinquished? | <input checked="" type="radio"/> YES | NO | 8. Is there sufficient volume for analysis requested? | <input checked="" type="radio"/> YES | NO |
| 3. Were samples received cold? (At 4° or on ice) | <input checked="" type="radio"/> YES | NO | 9. Were samples received within holding time? | <input checked="" type="radio"/> YES | NO |
| 4. Were all containers properly labeled and identified? | <input checked="" type="radio"/> YES | NO | 10. Was there headspace greater than $\frac{1}{4}$ " in diameter in volatile bottles? | <input checked="" type="radio"/> YES | <input checked="" type="radio"/> NO N/A |
| 5. Were samples received in proper containers for analysis requested? | <input checked="" type="radio"/> YES | NO | 11. If sent, were matrix spike bottles returned? | <input checked="" type="radio"/> YES | NO <input checked="" type="radio"/> N/A |
| 6. Were all sample containers received intact? | <input checked="" type="radio"/> YES | NO | | | |

Tracking Number: _____ Shipped By: _____

Shipped By: _____

Cooler Number: _____

Out of Control Events and Inspection Comments:

Inspected By: A. M. S.

Date: 2/23/94

PROJECT SAMPLE INSPECTION FORM

Accession #: 402690Date received: 24-FEB-94

- | | | | | | |
|---|---------------------------|--------------------------|--|---------------------------|--------------------------|
| 1. Was there a Chain of Custody? | <input type="radio"/> YES | <input type="radio"/> NO | 7. Are samples correctly preserved for analysis required? | <input type="radio"/> YES | <input type="radio"/> NO |
| 2. Was Chain of Custody properly relinquished? | <input type="radio"/> YES | <input type="radio"/> NO | 8. Is there sufficient volume for analysis requested? | <input type="radio"/> YES | <input type="radio"/> NO |
| 3. Were samples received cold? (At 4° or on ice) | <input type="radio"/> YES | <input type="radio"/> NO | 9. Were samples received within holding time? | <input type="radio"/> YES | <input type="radio"/> NO |
| 4. Were all containers properly labeled and identified? | <input type="radio"/> YES | <input type="radio"/> NO | 10. Was there headspace greater than X" in diameter in volatile bottles? | <input type="radio"/> YES | <input type="radio"/> NO |
| 5. Were samples received in proper containers for analysis requested? | <input type="radio"/> YES | <input type="radio"/> NO | 11. If sent, were matrix spike bottles returned? | <input type="radio"/> YES | <input type="radio"/> NO |
| 6. Were all sample containers received intact? | <input type="radio"/> YES | <input type="radio"/> NO | | | N/A |

Tracking Number: 662 8302 712 662 8302 721 Shipped By: FED EX662 8302 703 9010554943Cooler Number: A/B

Out of Control Events and Inspection Comments:

(2)-16oz. Plastics and 1-8oz PI not labelled
believe these bottles Belong to 022394DA-51
because they were the only bottles missing
for this sample. TRIP BLANK NOT LISTED
ON C.O.C.

Inspected By: RJ Date: 2/24/94 Logged By: RJ Date: 2/24/94

CHAIN OF CUSTODY

ATILLAR B.I.P.

402690



Analytical **Technologies**, Inc.

11 EAST OLIVE ROAD

PHONE (904) 474-1001

PENSACOLA, FLORIDA 32514

PART 1 — Bottle Shipment Information

CLIENT: ECT				CLIENT PROJECT NUMBER: 93458-1111 SAFETY-KLEEN			
SAMPLE CONTAINERS SHIPPED	PRESERVATIVE		PLASTIC CONTAINERS		GLASS CONTAINERS		
	QTY.	HSG HMB HCL	ZL ACETATE NaClO UNPRESERVED NaOH	4 oz 8 oz 16 oz 32 oz 1/2 gallon 1 gallon	Whirl-pak 100-ML SPECIMEN CUP 120 ml (A) 120 ml (C)	1 liter (A) 1 liter (C) 40 ml Vial 4 oz MM 8 oz MM 16 oz MM 32 oz MM Oil Tip BOTTLE	
RELINQUISHED <i>J. Lewis</i>		TIME	DATE	RECEIVED <i>Steven J. Miller</i>	TIME	DATE	
PART 2 – Sample Information							
SAMPLE MATRIX				PARAMETERS AND PRESERVATIVES			
DW DRINKINGWATER WW WASTEWATER GW GROUNDWATER SW SURFACEWATER SO SOIL	OL OIL AR AIR SL SLUDGE	8240 8210 Metals * Turbidity Sulfide Mineral/Spir.	LAB USE ONLY				
SAMPLE I.D.	DATE	TIME	MATRIX				
000394 DA-40 7/22							
000394 DA-50 2/23	530						
000394 DA-40 3/23	1615						
TOTAL NUMBER OF BOTTLES/CONTAINERS							
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME		
<i>Steven J. Miller / ECT</i>	7/23	1737	<i>Johnna</i>	7/23	1800		
	7/23	1800	<i>Anita Gahman</i>	7/23	1800		

ECT

CLIENT L
ADDRESS 5405 Cypress Ctr. #200
CITY TAMPA
STATE FL ZIP 33609
PHONE NO. (813) 289-9338

PROJECT MANAGER (person to receive data)
PICK STERNISKY

PROJECT NUMBER

PROJECT NAME

SAMPLED BY STEVEN L. MILLER

SAMPLE SITE MANHATTAN SAFETY KLEEN

PURCHASE ORDER NUMBER

REQUEST FAX DATA BY [REDACTED] FAX

REQUEST VERBAL REQUESTS [DATE]

NEED DATA PACKAGE BY _____ (DATE)

QUALITY CONTROL REPORTING LEVELS

NONE 2

NEED EXTRA COPIES OF REPORT

TURN AROUND TIMES (check one)

STANDARD - 14 TO 21 DAYS

RUSH: (MUST BE APPROVED IN ADVANCE)

0-48 HOURS - 2 x STD PRICE

3-7 DAYS - 1.5 x STD PRICE

SPECIAL INSTRUCTIONS:

* Metals: As, Ba, Be, Cd, Cr, Cu, Fe, Hg, In, K, Li, Mn, Na, Ni, V, Zn

P.O. # 100098

Appendix C

ECT

Environmental Consulting & Technology, Inc.

APPENDIX C

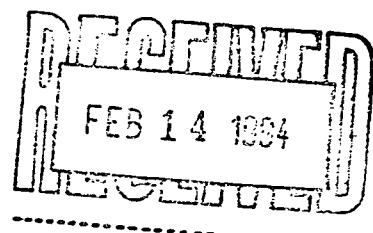
REMEDIAL SYSTEM ANALYTICAL LABORATORY REPORTS

APPENDIX C.1

Effluent Lead Analyses



Analytical**Technologies**, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001



SIGNATURE PAGE

Reviewed by:

Linda Ryan
ATI Project Manager

Client: SAFETY-KLEEN
ELGIN, IL

Project Name: SAFETY KLEEN
Project Number: 93257-1111
Project Location: SAFETY KLEEN
Accession Number: 401601

Project Manager: RICK STEBNISKY
Sampled By: STEVEN L. MILLER

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: Group of Single Metals

Accession:	401601
Client:	SAFETY-KLEEN
Project Number:	93257-1111
Project Name:	SAFETY KLEEN
Project Location:	SAFETY KLEEN
Department:	METALS

[0] Page 1
Date 09-Feb-94

Accession: 401601
Client: SAFETY-KLEEN
Project Number: 93257-1111
Project Name: SAFETY KLEEN
Project Location: SAFETY KLEEN
Test: Group of Single Metals
Matrix: GROUNDWATER
QC Level: II

Lab Id: 001 Sample Date/Time: 24-JAN-94 1650
Client Sample Id: 0124 SYS EFF Received Date: 27-JAN-94

Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
LEAD (7421)	MG/L	ND	0.003		P7W049	GJ

Comments:

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: Group of Single Metals

Accession: 401601
Client: SAFETY-KLEEN
Project Number: 93257-1111
Project Name: SAFETY KLEEN
Project Location: SAFETY KLEEN
Department: METALS

[0] Page 1
Date 09-Feb-94

"Metals Quality Control Report"

Parameter:	LEAD
Batch Id:	P7W049
Blank Result:	<0.003
Anal. Method:	7421
Prep. Method:	3020
Analysis Date:	08-FEB-94
Prep. Date:	03-FEB-94

Sample Duplication

Sample Dup:	402040-2
Rept Limit:	<0.003

Sample Result:	<0.003
Dup Result:	<0.003
Sample RPD:	N/C
Max RPD:	0.003
Dry Weight%	N/A

Matrix Spike

Sample Spiked:	402040-2
Rept Limit:	<0.003

Sample Result:	<0.003
Spiked Result:	0.023
Spike Added:	0.020
% Recovery:	115
% Rec Limits:	75-125
Dry Weight%	N/A

ICV

ICV Result:	0.040
True Result:	0.040
% Recovery:	100
% Rec Limits:	90-110

LCS

LCS Result:	0.042
True Result:	0.040
% Recovery:	105
% Rec Limits:	80-120

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

[0] Page 2
Date 09-Feb-94
"Quality Control Comments"

	Batch Id:	Comments:
P7W049	ANALYST: GJ	
P7W049	Spike Source: Plasma Chem, Lot # M3M82N1I for Lead.	
P7W049	LCS Source: Plasma Chem, Lot # M3M82N1I for Lead.	

[0] Page 3
Date 09-Feb-94

----- Common Footnotes Metals -----

N/A = NOT APPLICABLE.

N/S = NOT SUBMITTED.

N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW ATI REPORTING LIMIT;
THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.

N/D = NOT DETECTED.

DISS. OR D = DISSOLVED

T & D = TOTAL AND DISSOLVED

R = REACTIVE

T = TOTAL

G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X ATI REPORTING LIMIT AND
THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT
OR BELOW ATI REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".

Q = THE ANALYTICAL (POST-DIGESTION) SPIKE IS REPORTED DUE TO PERCENT RECOVERY
BEING OUTSIDE ACCEPTANCE LIMITS ON THE MATRIX (PRE-DIGESTION) SPIKE.

= ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE.

+ = ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.

* = ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE. (DILUTION PRIOR
TO ANALYSIS)

@ = ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX. (DILUTION PRIOR TO
DIGESTION)

P = ANALYTICAL (POST DIGESTION) SPIKE.

I = DUPLICATE INJECTION.

& = AUTOMATED

F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.

N/C+ = NOT CALCULABLE

N/C* = NOT CALCULABLE; SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.

H = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X ATI REPORTING LIMIT AND THE
ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE ATI REPORTING
LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".

A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL".

Z = THE SAMPLE RESULT FOR THE SPIKE IS BELOW THE REPORTING LIMIT. HOWEVER,
THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS.

NH= SAMPLE AND / OR DUPLICATE RESULT IS BELOW 5 X ATI REPORTING LIMIT
AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE ATI
REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
SAMPLE IS NON-HOMOGENEOUS.

RPD= RELATIVE PERCENT DEVIATION.

RPT LIMIT= REPORTING LIMIT BASED ON METHOD DETECTION LIMIT STUDIES.

SW-846, 3rd Edition, September 1986 and Revision 1, July 1992.
EPA 600/4-79-020, Revised March 1983.

NIOSH Manual of Analytical Methods, 3rd Edition.

JP = JAY PEREZ

GL = GENE LANDRUM

JMP = JACI M. PRICE

JLH = JAMES L. HERED

JRR = JOHN R. ROWE

JR = JOHN REED

GJ = GARY JACOBS

PROJECT SAMPLE INSPECTION FORM

Accession #: 401601

Date received: 1/27/94

- | | | | | | |
|---|--------------------------------------|----|--|--------------------------------------|------------------------------|
| 1. Was there a Chain of Custody? | <input checked="" type="radio"/> YES | NO | 7. Are samples correctly preserved for analysis required? | <input checked="" type="radio"/> YES | NO |
| 2. Was Chain of Custody properly relinquished? | <input checked="" type="radio"/> YES | NO | 8. Is there sufficient volume for analysis requested? | <input checked="" type="radio"/> YES | NO |
| 3. Were samples received cold? (At 4° or on ice) | <input checked="" type="radio"/> YES | NO | 9. Were samples received within holding time? | <input checked="" type="radio"/> YES | NO |
| 4. Were all containers properly labeled and identified? | <input checked="" type="radio"/> YES | NO | 10. Was there headspace greater than X" in diameter in volatile bottles? | <input checked="" type="radio"/> YES | NO N/A |
| 5. Were samples received in proper containers for analysis requested? | <input checked="" type="radio"/> YES | NO | 11. If sent, were matrix spike bottles returned? | <input checked="" type="radio"/> YES | NO <input type="radio"/> N/A |
| 6. Were all sample containers received intact? | <input checked="" type="radio"/> YES | NO | | | |

Tracking Number: 447 000 2924

Shipped By: ABX

Cooler Number: 899

Out of Control Events and Inspection Comments:

COC says three bottles back for 8010
" 8020 only 2 were received.

Inspected By: S.F. Date: 1/27/94 Logged By: S.F. Date: 1/27/94



Analytical**Technologies**, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

RECEIVED
FEB 14 1994
DISPATCHED

SIGNATURE PAGE

Reviewed by:

Linda Pagan
ATI Project Manager

Client: SAFETY-KLEEN
ELGIN, IL

Project Name: SAFETY KLEEN
Project Number: RM 431405226480
Project Location: MANHATTAN AVE.
Accession Number: 402013

Project Manager: RICK STEBNISKY
Sampled By: BEN FOSTER/ STEVE MILLER

Analysis Report

Analysis: Group of Single Metals

Accession: 402013
Client: SAFETY-KLEEN
Project Number: RM 431405226480
Project Name: SAFETY KLEEN
Project Location: MANHATTAN AVE.
Department: METALS

[0] Page 1
Date 09-Feb-94

Accession: 402013
Client: SAFETY-KLEEN
Project Number: RM 431405226480
Project Name: SAFETY KLEEN
Project Location: MANHATTAN AVE.
Test: Group of Single Metals
Matrix: WATER
QC Level: II

Lab Id:	001	Sample Date/Time:	26-JAN-94 1630			
Client Sample Id:	126 SYS EFF U	Received Date:	29-JAN-94			
Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
LEAD (239.2)	MG/L	ND	0.003		P2W045	GJ

Comments:

[0] Page 2
Date 09-Feb-94

Accession: 402013
Client: SAFETY-KLEEN
Project Number: RM 431405226480
Project Name: SAFETY KLEEN
Project Location: MANHATTAN AVE.
Test: Group of Single Metals
Matrix: GROUNDWATER
QC Level: II

Lab Id: 002 Sample Date/Time: 27-JAN-94 1755
Client Sample Id: 0127 SYS EFF U Received Date: 29-JAN-94

Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
LEAD (239.2)	MG/L	ND	0.003		P2W045	GJ

Comments:

[0] Page 3
Date 09-Feb-94

Accession: 402013
Client: SAFETY-KLEEN
Project Number: RM 431405226480
Project Name: SAFETY KLEEN
Project Location: MANHATTAN AVE.
Test: Group of Single Metals
Matrix: GROUNDWATER
QC Level: II

Lab Id: 003 Sample Date/Time: 28-JAN-94 1650
Client Sample Id: 0128 SYS EFF U Received Date: 29-JAN-94

Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
LEAD (239.2)	MG/L	ND	0.003		P2W045	GJ

Comments:

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: MINERAL SPIRITS (SAFETY KLEEN) C9-C13

Accession:	402013
Client:	SAFETY-KLEEN
Project Number:	RM 431405226480
Project Name:	SAFETY KLEEN
Project Location:	MANHATTAN AVE.
Department:	SEMI-VOLATILE FUELS

[0] Page 1
Date 10-Feb-94

Accession: 402013
Client: SAFETY-KLEEN
Project Number: RM 431405226480
Project Name: SAFETY KLEEN
Project Location: MANHATTAN AVE.
Test: MINERAL SPIRITS (SAFETY KLEEN) C9-C13
Analysis Method: TCO / 8015 - SW 846, EPA UST Work Group Nov. 1990, Mod. 8015
Extraction Method: 3510/SW-846, 3rd Edition, September 1986 and Revision 1, July 1992
Matrix: WATER
QC Level: II

Lab Id: 004 Sample Date/Time: 26-JAN-94 1620
Client Sample Id: 126 SYS INF U Received Date: 29-JAN-94

Batch: FPW017 Extraction Date: 01-FEB-94
Blank: A Dry Weight %: N/A Analysis Date: 03-FEB-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
MINERAL SPIRITS	UG/L	110	100	
ORTHO TER PHENYL	%REC/SURR	108	50-150	
ANALYST	INITIALS	SKR		

Comments:

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

[0] Page 2
Date 10-Feb-94

"Method Report Summary"

Accession Number: 402013
Client: SAFETY-KLEEN
Project Number: RM 431405226480
Project Name: SAFETY KLEEN
Project Location: MANHATTAN AVE.
Test: MINERAL SPIRITS (SAFETY KLEEN) C9-C13

Client Sample Id:	Parameter:	Unit:	Result:
126 SYS INF U	MINERAL SPIRITS	UG/L	110

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: Group of Single Metals

Accession: 402013
Client: SAFETY-KLEEN
Project Number: RM 431405226480
Project Name: SAFETY KLEEN
Project Location: MANHATTAN AVE.
Department: METALS

[0] Page 1
Date 09-Feb-94

"Metals Quality Control Report"

Parameter: LEAD
Batch Id: P2W045
Blank Result: <0.003
Anal. Method: 239.2
Prep. Method: EPA 600
Analysis Date: 03-FEB-94
Prep. Date: 02-FEB-94

Sample Duplication

Sample Dup: 402031-2
Rept Limit: <0.003

Sample Result: <0.003
Dup Result: <0.003
Sample RPD: N/C
Max RPD: 0.003
Dry Weight% N/A

Matrix Spike

Sample Spiked: 402031-2
Rept Limit: <0.003

Sample Result: <0.003
Spiked Result: 0.022
Spike Added: 0.020
% Recovery: 110
% Rec Limits: 75-125
Dry Weight% N/A

ICV

ICV Result: 0.039
True Result: 0.040
% Recovery: 98
% Rec Limits: 90-110

LCS

LCS Result: 0.040
True Result: 0.040
% Recovery: 100
% Rec Limits: 80-120

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

[0] Page 2
Date 09-Feb-94

"Quality Control Comments"

	Batch Id:	Comments:
P2W045	TIME ON:	9:05
P2W045	ANALYST:	GJ
P2W045	Spike Source:	Plasma Chem, Lot # M3M82N1I for Lead.
P2W045	LCS Source:	Plasma Chem, Lot # M3M82N1I for Lead.

[0] Page 3
Date 09-Feb-94

----- Common Footnotes Metals -----

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW ATI REPORTING LIMIT;
THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
N/D = NOT DETECTED.
DISS. OR D = DISSOLVED
T & D = TOTAL AND DISSOLVED
R = REACTIVE
T = TOTAL
G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X ATI REPORTING LIMIT AND
THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT
OR BELOW ATI REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".
Q = THE ANALYTICAL (POST-DIGESTION) SPIKE IS REPORTED DUE TO PERCENT RECOVERY
BEING OUTSIDE ACCEPTANCE LIMITS ON THE MATRIX (PRE-DIGESTION) SPIKE.
= ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE.
+ = ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.
* = ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE. (DILUTION PRIOR
TO ANALYSIS)
@ = ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX. (DILUTION PRIOR TO
DIGESTION)
P = ANALYTICAL (POST DIGESTION) SPIKE.
I = DUPLICATE INJECTION.
& = AUTOMATED
F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
N/C+ = NOT CALCULABLE
N/C* = NOT CALCULABLE; SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
H = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X ATI REPORTING LIMIT AND THE
ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE ATI REPORTING
LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL".
Z = THE SAMPLE RESULT FOR THE SPIKE IS BELOW THE REPORTING LIMIT. HOWEVER,
THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS.
NH= SAMPLE AND / OR DUPLICATE RESULT IS BELOW 5 X ATI REPORTING LIMIT
AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE ATI
REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
SAMPLE IS NON-HOMOGENEOUS.

RPD= RELATIVE PERCENT DEVIATION.

RPT LIMIT= REPORTING LIMIT BASED ON METHOD DETECTION LIMIT STUDIES.

SW-846, 3rd Edition, September 1986 and Revision 1, July 1992.

EPA 600/4-79-020, Revised March 1983.

NIOSH Manual of Analytical Methods, 3rd Edition.

JP = JAY PEREZ
GL = GENE LANDRUM
JMP = JACI M. PRICE
JLH = JAMES L. HERED

JRR = JOHN R. ROWE
JR = JOHN REED
GJ = GARY JACOBS

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: MINERAL SPIRITS (SAFETY KLEEN) C9-C13

Accession: 402013
Client: SAFETY-KLEEN
Project Number: RM 431405226480
Project Name: SAFETY KLEEN
Project Location: MANHATTAN AVE.
Department: SEMI-VOLATILE FUELS

[0] Page 1
Date 10-Feb-94

"QC Report"

Title: Water Blank

Batch: FPW017

Analysis Method: TCO / 8015 - SW 846, EPA UST Work Group Nov. 1990, Mod. 8015

Extraction Method: 3510/SW-846, 3rd Edition, September 1986 and Revision 1, July 1992

Blank Id: A Date Analyzed: 02-FEB-94 Date Extracted: 01-FEB-94

Parameters: Units: Results: Reporting Limits:

TOTAL PETROLEUM HYDROCARBON	UG/L	ND	100
ORTHO TER PHENYL	%REC/SURR	100	50-150
ANALYST	INITIALS	SKR	

Comments:

[0] Page 2
Date 10-Feb-94

"QC Report"

Title: Water Reagent
Batch: FPW017Analysis Method: TCO / 8015 - SW 846, EPA UST Work Group Nov. 1990, Mod. 8015
Extraction Method: 3510/SW-846, 3rd Edition, September 1986 and Revision 1, July 1992RS Date Analyzed: 02-Feb-94
RSD Date Analyzed: 02-Feb-94RS Date Extracted: 01-Feb-94
RSD Date Extracted: 01-Feb-94

Parameters:	Spike Added 930	Sample Conc <100	RS Conc 680	RS %Rec 73	RSD Conc 670	RSD %Rec 72	RPD 1	RPD Lmts 50	Rec Lmts 22-152
-------------	-----------------------	------------------------	-------------------	------------------	--------------------	-------------------	----------	-------------------	-----------------------

TOTAL PETROLEUM HYDROCARBON

Surrogates:		111	108	50-150
-------------	--	-----	-----	--------

ORTHO TER PHENYL

Comments:

NOT ENOUGH SAMPLE SUBMITTED TO EXTRACT
MATRIX SPIKE/MATRIX SPIKE DUPLICATE.

Notes:

N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
UG/L = PARTS PER BILLION. < = LESS THAN REPORTING LIMIT.

* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.

SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE
PROGRAM AND REFERENCED METHOD.

[0] Page 3
Date 10-Feb-94

"QC Report"

Title: Water Matrix
Batch: FPW017Analysis Method: TCO / 8015 - SW 846, EPA UST Work Group Nov. 1990, Mod. 8015
Extraction Method: 3510/SW-846, 3rd Edition, September 1986 and Revision 1, July 1992Dry Weight %:
Sample Spiked: MS Date Analyzed: MS Date Extracted:
MSD Date Analyzed: MSD Date Extracted:Parameters: Spike Sample MS MSD MSD RPD Rec
Added Conc Conc %Rec Conc %Rec RPD Lmts Lmts
TOTAL PETROLEUM HYDROCARBON 31 29-144

Surrogates: ORTHO TER PHENYL 50-150

Comments:
NOT ENOUGH SAMPLE SUBMITTED TO EXTRACT
MATRIX SPIKE/MATRIX SPIKE DUPLICATE.
SEE REAGENT SPIKE/REAGENT SPIKE DUPLICATE.Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
UG/L = PARTS PER BILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE
PROGRAM AND REFERENCED METHOD.

Common notation for Organic reporting

N/S = NOT SUBMITTED

N/A = NOT APPLICABLE

D = DILUTED OUT

UG = MICROGRAMS

UG/L = PARTS PER BILLION.

UG/KG = PARTS PER BILLION.

MG/M3 = MILLIGRAM PER CUBIC METER.

PPMV = PART PER MILLION BY VOLUME.

MG/KG = PARTS PER MILLION.

MG/L = PARTS PER MILLION.

< = LESS THAN DETECTION LIMIT.

* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS

SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

ORGANIC SOILS ARE REPORTED ON A DRYWEIGHT BASIS.

ND = NOT DETECTED ABOVE REPORTING LIMIT.

RPT LIMIT = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION)

ATI/GC/FID

ATI GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME IONIZATION DETECTOR (FID).

ATI/GC/FIX

ATI GAS CHROMATOGRAPHIC METHOD FOR ANALYSIS OF FIXED GASES EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD) AND FLAME IONIZATION DETECTOR (FID).

ATI/GC/FPD

ATI GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME PHOTOMETRIC DETECTOR (FPD) IN SULFUR-SPECIFIC MODE.

ATI/GC/PID

ATI GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH PHOTOIONIZATION DETECTOR (PID).

ATI/GC/TCD

ATI GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD).

LJT = LISA THOMASON

CD = CHRISTY DRAPER

IP = INGRID PITTMAN

RP = ROB PEREZ

SKR = SVETLANA RODKINA

DGH = DARREL HALSELL

KW = KAREN WADSWORTH

PB = PAMELA BREWTON

MV = MONIQUE VERHEYDEN

SW = STEVE WILHITE

PROJECT SAMPLE INSPECTION FORM

Accession #: 402013

Date received: 1/29/94

- | | | | | | |
|---|---|----|---|---|--|
| 1. Was there a Chain of Custody? | <input checked="" type="checkbox"/> YES | NO | 7. Are samples correctly preserved for analysis required? | <input checked="" type="checkbox"/> YES | NO |
| 2. Was Chain of Custody properly relinquished? | <input checked="" type="checkbox"/> YES | NO | 8. Is there sufficient volume for analysis requested? | <input checked="" type="checkbox"/> YES | NO |
| 3. Were samples received cold? (At 4° or on ice) | <input checked="" type="checkbox"/> YES | NO | 9. Were samples received within holding time? | <input checked="" type="checkbox"/> YES | NO |
| 4. Were all containers properly labeled and identified? | <input checked="" type="checkbox"/> YES | NO | 10. Was there headspace greater than $\frac{1}{4}$ " in diameter in volatile bottles? | <input checked="" type="checkbox"/> YES | <input checked="" type="checkbox"/> NO N/A |
| 5. Were samples received in proper containers for analysis requested? | <input checked="" type="checkbox"/> YES | NO | 11. If sent, were matrix spike bottles returned? | <input checked="" type="checkbox"/> YES | <input checked="" type="checkbox"/> NO N/A |
| 6. Were all sample containers received intact? | <input checked="" type="checkbox"/> YES | NO | | | |

Tracking Number 447 000 3123

Shipped By: ABX

Cooler Number: 193.S.603

447 000 3425

Out of Control Events and Inspection Comments:

[Large area for comments, consisting of approximately 10 blank lines.]

Entered By: SF Date: 1/29/94 Logged By: RFord Date: 29-JAN-94

CHAIN OF CUSTODY

ATI LAB. I.D. # 402013



LP94-054
Analytical Technologies, Inc.

11 EAST OLIVE ROAD

PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

PART 1 — Bottle Shipment Information

CLIENT: <u>ECT/TAMPA /SAFETY-KLEEN</u>		CLIENT PROJECT NUMBER: <u>93256-111</u>																	
SAMPLE CONTAINERS SHIPPED	PRESERVATIVE	PLASTIC CONTAINERS																	
		4 oz.	8 oz.	16 oz.	32 oz.	½ gallon	1 gallon	Whirl-pak	100-ML SPECIMEN CUP	120 ml (A)	120 ml (C)	1 liter (A)	1 liter (C)	40 ml Vial	4 oz. vial	8 oz. vial	16 oz. vial	32 oz. vial	Di Trip Blank
QTY. <u>0011</u> <u>3</u> <u>3</u>	H ₂ SO ₄ HNO ₃ HCl Zn ACETATE MgSO ₄ UNPRESERVED NaOH																		
RELINQUISHED <u>J. Miller</u>		TIME <u>1730</u>	DATE <u>1/19/94</u>	RECEIVED <u>B. Foster</u>	TIME <u>1-26-94</u>	DATE <u>3:30</u>													

PART 2 — Sample Information

SAMPLE MATRIX				PARAMETERS AND PRESERVATIVES																	
DW DRINKINGWATER	OL OIL	AR AIR	SL SLUDGE																		
WW WASTEWATER																					
GW GROUNDWATER																					
SW SURFACEWATER																					
SO SOIL																					
SAMPLE I.D.	DATE	TIME	MATRIX	8012 (30142600) Pb Mercury 2015																TOTAL	LAB USE ONLY
126 SYS INF U	1-26-94	4:20	WATER	2	1	1														4	
126 SYS INTERCA/NH	1-26-94	4:25		1	2	1														3	
126 SYS EFF U	1-26-94	4:30		1	2	1														3	
0127 SYS INF U	1-27	1745	GW	2	1															3	
0127 SYS INTERCA/NH		1750		1	2	1														3	
0127 SYS EFF U		1755		1	2	1														3	
RELINQUISHED BY:				TOTAL NUMBER OF BOTTLES/CONTAINERS										<u>19</u>							
<u>J. Miller</u>				DATE	TIME	RECEIVED BY:													DATE	TIME	
<u>Steven J. Miller / ECT</u>				1-27-94	10:30	<u>Steve J. Miller / ECT</u>													1-27-94	10:30	
				1-27	09150	<u>Miller 2007</u>													1-27-94	10:00	

CLIENT ECT
ADDRESS 5405 CYPRESS CENTER DR.
CITY TAMPA
STATE FLORIDA ZIP 37609
PHONE NO. (813) 289-9328
PROJECT MANAGER (person to receive data)
RICK STERNKI

PROJECT NUMBER
PROJECT NAME SAFETY KLEEN
SAMPLED BY Rev Foster
SAMPLE SITE MANHATTAN AVE.
PURCHASE ORDER NUMBER 93256-1111

REQUEST FAX DATA BY _____ (FAX #)

REQUEST VERBAL RESULTS BY _____ (DATE)

NEED DATA PACKAGE BY _____ (DATE)

QUALITY CONTROL REPORTING LEVEL (circle one)

NONE 1 2 3 4

NEED _____ EXTRA COPIES OF REPORT

TURN AROUND TIMES (check one)

STANDARD - 14 TO 21 DAYS



RUSH: (MUST BE APPROVED IN ADVANCE)



0-48 HOURS - 2 x STD PRICE



3-7 DAYS - 1.5 x STD PRICE



TCLP - 1 WEEK RUSH - 1.5 x STD PRICE



SPECIAL INSTRUCTIONS:

Hold 126 SYS INF U, 126 SYS INTERCA/NH
Analyze only Pb from SYS EFF U,

APPENDIX C.2

Phase 3 Laboratory Reports:

- Eight RCRA Metals**
- Volatile Organics**

February and March, 1994



Analytical**Technologies**, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

SIGNATURE PAGE

Reviewed by:

Linda Moran
ATI Project Manager

Client: SAFETY-KLEEN EHS ADMINISTRATION
ELGIN, IL

Project Name: SAFETY KLEEN
Project Number: 93257-1111
Project Location: SAFETY KLEEN MANHATTAN
Accession Number: 402728

Project Manager: RICK STEBINSKY
Sampled By: STEVE MILLER

Analysis Report

Analysis: RCRA METALS

Accession:	402728
Client:	SAFETY-KLEEN
Project Number:	94-080-1111
Project Name:	SAFETY KLEEN
Project Location:	SAFETY KLEEN MANHATTAN
Department:	METALS

[0] Page 1
Date 07-Mar-94

Accession: 402728
Client: SAFETY-KLEEN
Project Number: 94-080-1111
Project Name: SAFETY KLEEN
Project Location: SAFETY KLEEN MANHATTAN
Test: RCRA METALS
Matrix: GROUNDWATER
QC Level: II

Lab Id: 001 Sample Date/Time: 24-FEB-94 1055
Client Sample Id: 0224 SYS INTERCARBON Received Date: 25-FEB-94

Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
SILVER (6010)	MG/L	ND	0.01		A6W072	JMP
ARSENIC (7060)	MG/L	ND	0.005		R7W087	GJ
BARIUM (6010)	MG/L	ND	0.01		B6W072	JMP
CADMIUM (6010)	MG/L	ND	0.005		C6W072	JMP
CHROMIUM (6010)	MG/L	ND	0.01		H6W072	JMP
MERCURY (7470)	MG/L	ND	0.0002		M7W028	JP
LEAD (7421)	MG/L	ND	0.003		P7W087	GL
SELENIUM (7740)	MG/L	ND	0.005		S7W087	GJ

Comments:

[0] Page 2
Date 07-Mar-94

Accession: 402728
Client: SAFETY-KLEEN
Project Number: 94-080-1111
Project Name: SAFETY KLEEN
Project Location: SAFETY KLEEN MANHATTAN
Test: RCRA METALS
Matrix: GROUNDWATER
QC Level: II

Lab Id: 002 Sample Date/Time: 24-FEB-94 1050
Client Sample Id: 0224 SYS INF Received Date: 25-FEB-94

Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
SILVER (6010)	MG/L	ND	0.01		A6W072	JMP
ARSENIC (7060)	MG/L	ND	0.005		R7W087	GJ
BARIUM (6010)	MG/L	0.01	0.01		B6W072	JMP
CADMIUM (6010)	MG/L	ND	0.005		C6W072	JMP
CHROMIUM (6010)	MG/L	ND	0.01		H6W072	JMP
MERCURY (7470)	MG/L	ND	0.0002		M7W028	JP
LEAD (7421)	MG/L	ND	0.003		P7W087	GL
SELENIUM (7740)	MG/L	ND	0.005		S7W087	GJ

Comments:

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

[0] Page 3
Date 07-Mar-94

"Method Report Summary"

Accession Number: 402728
Client: SAFETY-KLEEN
Project Number: 94-080-1111
Project Name: SAFETY KLEEN
Project Location: SAFETY KLEEN MANHATTAN
Test: RCRA METALS

Client Sample Id:	Parameter:	Unit:	Result:
0224 SYS INF	BARIUM (6010)	MG/L	0.01

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: VOLATILES (8010-8020)

Accession:	402728
Client:	SAFETY-KLEEN
Project Number:	94-080-1111
Project Name:	SAFETY KLEEN
Project Location:	SAFETY KLEEN MANHATTAN
Department:	GC/VOA

[0] Page 1
Date 07-Mar-94

Accession: 402728
 Client: SAFETY-KLEEN
 Project Number: 94-080-1111
 Project Name: SAFETY KLEEN
 Project Location: SAFETY KLEEN MANHATTAN
 Test: VOLATILES (8010-8020)
 Analysis Method: 8010/8020 / SW 846, 3rd Edition, September 1986 and Rev. 1, July 1992
 Extraction Method: N/A
 Matrix: GROUNDWATER
 QC Level: II

Lab Id: 001 Sample Date/Time: 24-FEB-94 1055
 Client Sample Id: 0224 SYS INTERCARBON Received Date: 25-FEB-94

Batch: KIW035 Extraction Date: N/A
 Blank: B Dry Weight %: N/A Analysis Date: 04-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/L	ND	1	
BROMODICHLOROMETHANE	UG/L	ND	1	
BROMOFORM	UG/L	ND	2	
BROMOMETHANE	UG/L	ND	2	
CARBON TETRACHLORIDE	UG/L	ND	1	
CHLOROBENZENE	UG/L	ND	1	
CHLOROETHANE	UG/L	ND	5	
2-CHLOROETHYL VINYL ETHER	UG/L	ND	5	
CHLOROFORM	UG/L	ND	2	
CHLOROMETHANE	UG/L	ND	5	
DIBROMOCHLOROMETHANE	UG/L	ND	5	
1,2-DICHLOROBENZENE	UG/L	ND	2	
1,3-DICHLOROBENZENE	UG/L	ND	2	
1,4-DICHLOROBENZENE	UG/L	ND	2	
DICHLORODIFLUOROMETHANE	UG/L	ND	5	
1,1-DICHLOROETHANE	UG/L	ND	1	
1,2-DICHLOROETHANE	UG/L	ND	1	
1,1-DICHLOROETHENE	UG/L	ND	1	
1,2-DICHLOROETHENE (TOTAL)	UG/L	ND	1	
1,2-DICHLOROPROPANE	UG/L	ND	1	
CIS-1,3-DICHLOROPROPENE	UG/L	ND	1	
TRANS-1,3-DICHLOROPROPENE	UG/L	ND	1	
ETHYLBENZENE	UG/L	ND	1	
METHYLENE CHLORIDE	UG/L	ND	5	
METHYL T-BUTYL ETHER	UG/L	ND	5	
1,1,2-TETRACHLOROETHANE	UG/L	ND	1	
TETRACHLOROETHENE	UG/L	ND	3	
TOLUENE	UG/L	ND	5	
1,1,1-TRICHLOROETHANE	UG/L	ND	1	
1,1,2-TRICHLOROETHANE	UG/L	ND	2	
TRICHLOROETHENE	UG/L	ND	1	
TRICHLOROFLUOROMETHANE	UG/L	ND	1	
VINYL CHLORIDE	UG/L	ND	1	
XYLENES (TOTAL)	UG/L	ND	2	
BENZYL CHLORIDE	UG/L**	ND	5	
BIS(2-CHLOROETHOXY)METHANE	UG/L**	ND	50	
BIS(2-CHLOROISOPROPYL)ETHER	UG/L**	ND	50	
BROMOBENZENE	UG/L**	ND	3	
CHLOROACETALDEHYDE	UG/L**	ND	50	
CHLOROMETHYLMETHYL ETHER	UG/L**	ND	50	

[0] Page 2
Date 07-Mar-94

Accession: 402728
Client: SAFETY-KLEEN
Project Number: 94-080-1111
Project Name: SAFETY KLEEN
Project Location: SAFETY KLEEN MANHATTAN
Test: VOLATILES (8010-8020)
Analysis Method: 8010/8020 / SW 846, 3rd Edition, September 1986 and Rev. 1, July 1992
Extraction Method: N/A
Matrix: GROUNDWATER
QC Level: II

Lab Id: 001 Sample Date/Time: 24-FEB-94 1055
Client Sample Id: 0224 SYS INTERCARBON Received Date: 25-FEB-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
2-CHLOROTOLUENE	UG/L**	ND	1	
DIBROMOMETHANE	UG/L**	ND	5	
1,1,1,2 TETRACHLOROETHANE	UG/L**	ND	1	
1,2,3 TRICHLOROPROPANE	UG/L**	ND	5	
1-CHLOROHEXANE	UG/L**	ND	5	
BROMOFLUOROBENZENE (PID)	%REC/SURR	116	70-130	
BROMOFLUOROBENZENE (ELCD)	%REC/SURR	92	70-130	
ANALYST	INITIALS	JP		

Comments:

[0] Page 3
Date 07-Mar-94

Accession: 402728
 Client: SAFETY-KLEEN
 Project Number: 94-080-1111
 Project Name: SAFETY KLEEN
 Project Location: SAFETY KLEEN MANHATTAN
 Test: VOLATILES (8010-8020)
 Analysis Method: 8010/8020 / SW 846, 3rd Edition, September 1986 and Rev. 1, July 1992
 Extraction Method: N/A
 Matrix: GROUNDWATER
 QC Level: II

Lab Id: 002 Sample Date/Time: 24-FEB-94 1050
 Client Sample Id: 0224 SYS INF Received Date: 25-FEB-94

Batch: KIW035 Extraction Date: N/A
 Blank: A Dry Weight %: N/A Analysis Date: 04-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/L	2	1	
BROMODICHLOROMETHANE	UG/L	ND	1	
BROMOFORM	UG/L	ND	2	
BROMOMETHANE	UG/L	ND	2	
CARBON TETRACHLORIDE	UG/L	ND	1	
CHLOROBENZENE	UG/L	ND	1	
CHLOROETHANE	UG/L	ND	5	
2-CHLOROETHYLVINYLETHER	UG/L	ND	5	
CHLOROFORM	UG/L	ND	2	
CHLOROMETHANE	UG/L	ND	5	
DIBROMOCHLOROMETHANE	UG/L	ND	5	
1,2-DICHLOROBENZENE	UG/L	ND	2	
1,3-DICHLOROBENZENE	UG/L	ND	2	
1,4-DICHLOROBENZENE	UG/L	ND	2	
DICHLORODIFLUOROMETHANE	UG/L	ND	5	
1,1-DICHLOROETHANE	UG/L	ND	1	
1,2-DICHLOROETHANE	UG/L	ND	1	
1,1-DICHLOROETHENE	UG/L	ND	1	
1,2-DICHLOROETHENE (TOTAL)	UG/L	ND	1	
1,2-DICHLOROPROPANE	UG/L	ND	1	
CIS-1,3-DICHLOROPROPENE	UG/L	ND	1	
TRANS-1,3-DICHLOROPROPENE	UG/L	ND	1	
ETHYLBENZENE	UG/L	4	1	
METHYLENE CHLORIDE	UG/L	ND	5	
METHYL T-BUTYL ETHER	UG/L	ND	5	
1,1,2,2-TETRACHLOROETHANE	UG/L	ND	1	
TETRACHLOROETHENE	UG/L	ND	3	
TOLUENE	UG/L	ND	5	
1,1,1-TRICHLOROETHANE	UG/L	ND	1	
1,1,2-TRICHLOROETHANE	UG/L	ND	2	
TRICHLOROETHENE	UG/L	ND	1	
TRICHLOROFLUOROMETHANE	UG/L	ND	1	
VINYL CHLORIDE	UG/L	ND	1	
XYLENES (TOTAL)	UG/L	ND	2	
BENZYL CHLORIDE	UG/L**	ND	5	
BIS(2-CHLOROETHOXY)METHANE	UG/L**	ND	50	
BIS(2-CHLOROISOPROPYL)ETHER	UG/L**	ND	50	
BROMOBENZENE	UG/L**	ND	3	
CHLOROACETALDEHYDE	UG/L**	ND	50	
CHLOROMETHYLMETHYL ETHER	UG/L**	ND	50	

[0] Page 4
Date 07-Mar-94

Accession: 402728
Client: SAFETY-KLEEN
Project Number: 94-080-1111
Project Name: SAFETY KLEEN
Project Location: SAFETY KLEEN MANHATTAN
Test: VOLATILES (8010-8020)
Analysis Method: 8010/8020 / SW 846, 3rd Edition, September 1986 and Rev. 1, July 1992
Extraction Method: N/A
Matrix: GROUNDWATER
QC Level: II

Lab Id: 002 Sample Date/Time: 24-FEB-94 1050
Client Sample Id: 0224 SYS INF Received Date: 25-FEB-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
2-CHLOROTOLUENE	UG/L**	ND	1	
DIBROMOMETHANE	UG/L**	ND	5	
1,1,1,2 TETRACHLOROETHANE	UG/L**	ND	1	
1,2,3 TRICHLOROPROPANE	UG/L**	ND	5	
1-CHLOROHEXANE	UG/L**	ND	5	
BROMOFLUOROBENZENE (PID)	%REC/SURR	121	70-130	
BROMOFLUOROBENZENE (ELCD)	%REC/SURR	73	70-130	
ANALYST	INITIALS	KKS		

Comments:

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Date 07-Mar-94

Accession: 402728
 Client: SAFETY-KLEEN
 Project Number: 94-080-1111
 Project Name: SAFETY KLEEN
 Project Location: SAFETY KLEEN MANHATTAN
 Test: VOLATILES (8010-8020)
 Analysis Method: 8010/8020 / SW 846, 3rd Edition, September 1986 and Rev. 1, July 1992
 Extraction Method: N/A
 Matrix: WATER
 QC Level: II

Lab Id: 003 Sample Date/Time: N/S
 Client Sample Id: TRIP BLANK Received Date: 25-FEB-94

Batch: KIW035 Extraction Date: N/A
 Blank: B Dry Weight %: N/A Analysis Date: 05-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/L	ND	1	
BROMODICHLOROMETHANE	UG/L	ND	1	
BROMOFORM	UG/L	ND	2	
BROMOMETHANE	UG/L	ND	2	
CARBON TETRACHLORIDE	UG/L	ND	1	
CHLOROBENZENE	UG/L	ND	1	
CHLOROETHANE	UG/L	ND	5	
2-CHLOROETHYL VINYLETHER	UG/L	ND	5	
CHLOROFORM	UG/L	ND	2	
CHLOROMETHANE	UG/L	ND	5	
DIBROMOCHLOROMETHANE	UG/L	ND	5	
1,2-DICHLOROBENZENE	UG/L	ND	2	
1,3-DICHLOROBENZENE	UG/L	ND	2	
1,4-DICHLOROBENZENE	UG/L	ND	2	
DICHLORODIFLUOROMETHANE	UG/L	ND	5	
1,1-DICHLOROETHANE	UG/L	ND	1	
1,2-DICHLOROETHANE	UG/L	ND	1	
1,1-DICHLOROETHENE	UG/L	ND	1	
1,2-DICHLOROETHENE (TOTAL)	UG/L	ND	1	
1,2-DICHLOROPROPANE	UG/L	ND	1	
CIS-1,3-DICHLOROPROPENE	UG/L	ND	1	
TRANS-1,3-DICHLOROPROPENE	UG/L	ND	1	
ETHYLBENZENE	UG/L	ND	1	
METHYLENE CHLORIDE	UG/L	ND	5	
METHYL T-BUTYL ETHER	UG/L	ND	5	
1,1,2,2-TETRACHLOROETHANE	UG/L	ND	1	
TETRACHLOROETHENE	UG/L	ND	3	
TOLUENE	UG/L	ND	5	
1,1,1-TRICHLOROETHANE	UG/L	ND	1	
1,1,2-TRICHLOROETHANE	UG/L	ND	2	
TRICHLOROETHENE	UG/L	ND	1	
TRICHLOROFLUOROMETHANE	UG/L	ND	2	
VINYL CHLORIDE	UG/L	ND	1	
XYLENES (TOTAL)	UG/L	ND	2	
BENZYL CHLORIDE	UG/L**	ND	5	
BIS(2-CHLOROETHOXY)METHANE	UG/L**	ND	50	
BIS(2-CHLOROISOPROPYL)ETHER	UG/L**	ND	50	
BROMOBENZENE	UG/L**	ND	3	
CHLOROACETALDEHYDE	UG/L**	ND	50	
CHLOROMETHYLMETHYL ETHER	UG/L**	ND	50	

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Date 07-Mar-94

Accession: 402728
Client: SAFETY-KLEEN
Project Number: 94-080-1111
Project Name: SAFETY KLEEN
Project Location: SAFETY KLEEN MANHATTAN
Test: VOLATILES (8010-8020)
Analysis Method: 8010/8020 / SW 846, 3rd Edition, September 1986 and Rev. 1, July 1992
Extraction Method: N/A
Matrix: WATER
QC Level: II

Lab Id: 003 Sample Date/Time: N/S
Client Sample Id: TRIP BLANK Received Date: 25-FEB-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
2-CHLOROTOLUENE	UG/L**	ND	1	
DIBROMOMETHANE	UG/L**	ND	5	
1,1,1,2 TETRACHLOROETHANE	UG/L**	ND	1	
1,2,3 TRICHLOROPROPANE	UG/L**	ND	5	
1-CHLOROHEXANE	UG/L**	ND	5	
BROMOFLUOROBENZENE (PID)	%REC/SURR	124	70-130	
BROMOFLUOROBENZENE (ELCD)	%REC/SURR	94	70-130	
ANALYST	INITIALS	KKS		

Comments:

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Date 07-Mar-94

"Method Report Summary"

Accession Number: 402728
Client: SAFETY-KLEEN
Project Number: 94-080-1111
Project Name: SAFETY KLEEN
Project Location: SAFETY KLEEN MANHATTAN
Test: VOLATILES (8010-8020)

Client Sample Id:	Parameter:	Unit:	Result:
0224 SYS INF	BENZENE ETHYLBENZENE	UG/L UG/L	2 4

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: RCRA METALS

Accession:	402728
Client:	SAFETY-KLEEN
Project Number:	94-080-1111
Project Name:	SAFETY KLEEN
Project Location:	SAFETY KLEEN MANHATTAN
Department:	METALS

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Date 07-Mar-94

"Metals Quality Control Report"					
Parameter:	SILVER	ARSENIC	BARIUM	CADMIUM	CHROMIUM
Batch Id:	A6W072	R7W087	B6W072	C6W072	H6W072
Blank Result:	<0.01	<0.005	<0.01	<0.005	<0.01
Anal. Method:	6010	7060	6010	6010	7470
Prep. Method:	3010	3020	3010	3010	7470
Analysis Date:	28-FEB-94	03-MAR-94	28-FEB-94	28-FEB-94	03-MAR-94
Prep. Date:	26-FEB-94	28-FEB-94	26-FEB-94	26-FEB-94	03-MAR-94

Sample Duplication

Sample Dup:	402729-2	402728-1	402729-2	402729-2	402729-2	403047-1
Rept Limit:	<0.01	<0.005	<0.01	<0.005	<0.01	<0.0002
Sample Result:	<0.01	<0.005	0.04	<0.005	<0.01	<0.0002
Dup Result:	<0.01	<0.005	0.04	<0.005	<0.01	<0.0002
Sample RPD:	N/C	N/C	0G	N/C	N/C	N/C
Max RPD:	0.01	0.005	0.01	0.005	0.01	0.0002
Dry Weight%	N/A	N/A	N/A	N/A	N/A	N/A

Matrix Spike

Sample Spiked:	402729-2	402728-1	402729-2	402729-2	402729-2	403047-1
Rept Limit:	<0.01	<0.005	<0.01	<0.005	<0.01	<0.0002
Sample Result:	<0.01	<0.005	0.04	<0.005	<0.01	<0.0002
Spiked Result:	2.1	0.042	2.0	2.0	2.0	0.0049
Spike Added:	2.0	0.040	2.0	2.0	2.0	0.0050
% Recovery:	105	105	98	100	100	98
% Rec Limits:	75-125	75-125	75-125	75-125	75-125	75-125
Dry Weight%	N/A	N/A	N/A	N/A	N/A	N/A

ICV

ICV Result:	4.8	0.041	4.8	4.9	4.8	0.0041
True Result:	5.0	0.040	5.0	5.0	5.0	0.0040
% Recovery:	96	103	96	98	96	103
% Rec Limits:	90-110	90-110	90-110	90-110	90-110	80-120

LCS

LCS Result:	3.2	0.042	5.1	4.8	5.1	0.0050
True Result:	5.0	0.040	5.0	5.0	5.0	0.0050
% Recovery:	64	105	102	96	102	100
% Rec Limits:	27-116	80-120	80-120	80-120	80-120	80-120

[0] Page 2
Date 07-Mar-94**"Metals Quality Control Report"**

Parameter:	LEAD	SELENIUM
Batch Id:	P7W087	S7W087
Blank Result:	<0.003	<0.005
Anal. Method:	7421	7740
Prep. Method:	3020	3020
Analysis Date:	07-MAR-94	02-MAR-94
Prep. Date:	28-FEB-94	28-FEB-94

Sample Duplication

Sample Dup:	402728-1	402728-1
Rept Limit:	<0.003	<0.005
Sample Result:	<0.003	<0.005
Dup Result:	<0.003	<0.005
Sample RPD:	N/C	N/C
Max RPD:	0.003	0.005
Dry Weight%	N/A	N/A

Matrix Spike

Sample Spiked:	402728-1	402728-1
Rept Limit:	<0.003	<0.005
Sample Result:	<0.003	<0.005
Spiked Result:	0.021	0.010
Spike Added:	0.020	0.010
% Recovery:	105	100
% Rec Limits:	75-125	75-125
Dry Weight%	N/A	N/A

ICV

ICV Result:	0.019	0.020
True Result:	0.020	0.020
% Recovery:	95	100
% Rec Limits:	90-110	90-110

LCS

LCS Result:	0.042	0.040
True Result:	0.040	0.040
% Recovery:	105	100
% Rec Limits:	80-120	80-120

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Date 07-Mar-94

"Quality Control Comments"

	Batch Id:	Comments:
A6W072	ANALYST: JMP	
R7W087	ANALYST: GJ	
B6W072	ANALYST: JMP	
C6W072	ANALYST: JMP	
H6W072	ANALYST: JMP	
M7W028	ANALYST: JP	
P7W087	ANALYST: GL	
S7W087	ANALYST: GJ	

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Date 07-Mar-94

----- Common Footnotes Metals -----

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW ATI REPORTING LIMIT;
THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
N/D = NOT DETECTED.
DISS. OR D = DISSOLVED
T & D = TOTAL AND DISSOLVED
R = REACTIVE
T = TOTAL
G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X ATI REPORTING LIMIT AND
THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT
OR BELOW ATI REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".
Q = THE ANALYTICAL (POST-DIGESTION) SPIKE IS REPORTED DUE TO PERCENT RECOVERY
BEING OUTSIDE ACCEPTANCE LIMITS ON THE MATRIX (PRE-DIGESTION) SPIKE.
= ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE.
+ = ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.
* = ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE. (DILUTION PRIOR
TO ANALYSIS)
@ = ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX. (DILUTION PRIOR TO
DIGESTION)
P = ANALYTICAL (POST DIGESTION) SPIKE.
I = DUPLICATE INJECTION.
& = AUTOMATED
F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
N/C+ = NOT CALCULABLE
N/C* = NOT CALCULABLE; SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
H = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X ATI REPORTING LIMIT AND THE
ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE ATI REPORTING
LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL".
Z = THE SAMPLE RESULT FOR THE SPIKE IS BELOW THE REPORTING LIMIT. HOWEVER,
THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS.
NH= SAMPLE AND / OR DUPLICATE RESULT IS BELOW 5 X ATI REPORTING LIMIT
AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE ATI
REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
SAMPLE IS NON-HOMOGENEOUS.

RPD= RELATIVE PERCENT DEVIATION.

RPT LIMIT= REPORTING LIMIT BASED ON METHOD DETECTION LIMIT STUDIES.

SW-846, 3rd Edition, September 1986 and Revision 1, July 1992.
EPA 600/4-79-020, Revised March 1983.

NIOSH Manual of Analytical Methods, 3rd Edition.

JP = JAY PEREZ
GL = GENE LANDRUM
JMP = JACI M. PRICE
JLH = JAMES L. HERED

JRR = JOHN R. ROWE
JR = JOHN REED
GJ = GARY JACOBS

Quality Control Report

Analysis: VOLATILES (8010-8020)

Accession: 402728
Client: SAFETY-KLEEN
Project Number: 94-080-1111
Project Name: SAFETY KLEEN
Project Location: SAFETY KLEEN MANHATTAN
Department: GC/VOA

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Date 07-Mar-94

"QC Report"

Title: Water Blank
 Batch: KIW035
 Analysis Method: 8010/8020 / SW 846, 3rd Edition, September 1986 and Rev. 1, July 1992
 Extraction Method: N/A

Blank Id: B Date Analyzed: 04-MAR-94 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
BENZENE	UG/L	ND	1
BROMODICHLOROMETHANE	UG/L	ND	1
BROMOFORM	UG/L	ND	2
BROMOMETHANE	UG/L	ND	2
CARBON TETRACHLORIDE	UG/L	ND	1
CHLOROBENZENE	UG/L	ND	1
CHLOROETHANE	UG/L	ND	5
2-CHLOROETHYL VINYLETHER	UG/L	ND	5
CHLOROFORM	UG/L	ND	2
CHLOROMETHANE	UG/L	ND	5
DIBROMOCHLOROMETHANE	UG/L	ND	5
1,2-DICHLOROBENZENE	UG/L	ND	2
1,3-DICHLOROBENZENE	UG/L	ND	2
1,4-DICHLOROBENZENE	UG/L	ND	2
DICHLORODIFLUOROMETHANE	UG/L	ND	5
1,1-DICHLOROETHANE	UG/L	ND	1
1,2-DICHLOROETHANE	UG/L	ND	1
1,1-DICHLOROETHENE	UG/L	ND	1
1,2-DICHLOROETHENE (TOTAL)	UG/L	ND	1
1,2-DICHLOROPROPANE	UG/L	ND	1
CIS-1,3-DICHLOROPROPENE	UG/L	ND	1
TRANS-1,3-DICHLOROPROPENE	UG/L	ND	1
ETHYLBENZENE	UG/L	ND	1
METHYLENE CHLORIDE	UG/L	ND	5
METHYL T-BUTYL ETHER	UG/L	ND	5
1,1,2,2-TETRACHLOROETHANE	UG/L	ND	1
TETRACHLOROETHENE	UG/L	ND	3
TOLUENE	UG/L	ND	5
1,1,1-TRICHLOROETHANE	UG/L	ND	1
1,1,2-TRICHLOROETHANE	UG/L	ND	2
TRICHLOROETHENE	UG/L	ND	1
TRICHLOROFLUOROMETHANE	UG/L	ND	2
VINYL CHLORIDE	UG/L	ND	1
XYLENES (TOTAL)	UG/L	ND	2
BENZYL CHLORIDE	UG/L**	ND	5
BIS(2-CHLOROETHOXY)METHANE	UG/L**	ND	50
BIS(2-CHLOROISOPROPYL)ETHER	UG/L**	ND	50
BROMOBENZENE	UG/L**	ND	3
CHLOROACETALDEHYDE	UG/L**	ND	50
CHLOROMETHYLMETHYL ETHER	UG/L**	ND	50
2-CHLORTOLUENE	UG/L**	ND	1
DIBROMOMETHANE	UG/L**	ND	5
1,1,1,2-TETRACHLOROETHANE	UG/L**	ND	1
1,2,3-TRICHLOROPROPANE	UG/L**	ND	5
1-CHLOROHEXANE	UG/L**	ND	5
BROMOFLUOROBENZENE (PID)	%REC/SURR	115	70-130

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

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Date 07-Mar-94

Title: Water Blank "QC Report".
Batch: KIW035
Analysis Method: 8010/8020 / SW 846, 3rd Edition, September 1986 and Rev. 1, July 1992
Extraction Method: N/A

Parameters:	Units:	Results:	Reporting Limits:
BROMOFLUOROBENZENE (ELCD)	%REC/SURR	96	70-130
ANALYST	INITIALS	JP	

Comments:

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Date 07-Mar-94

"QC Report"

Title: Water Blank
 Batch: KIW035
 Analysis Method: 8010/8020 / SW 846, 3rd Edition, September 1986 and Rev. 1, July 1992
 Extraction Method: N/A

Blank Id: A Date Analyzed: 03-MAR-94 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
BENZENE	UG/L	ND	1
BROMODICHLOROMETHANE	UG/L	ND	1
BROMOFORM	UG/L	ND	2
BROMOMETHANE	UG/L	ND	2
CARBON TETRACHLORIDE	UG/L	ND	1
CHLOROBENZENE	UG/L	ND	1
CHLOROETHANE	UG/L	ND	5
2-CHLOROETHYL VINYL ETHER	UG/L	ND	5
CHLOROFORM	UG/L	ND	2
CHLOROMETHANE	UG/L	ND	5
DIBROMOCHLOROMETHANE	UG/L	ND	5
1,2-DICHLOROBENZENE	UG/L	ND	2
1,3-DICHLOROBENZENE	UG/L	ND	2
1,4-DICHLOROBENZENE	UG/L	ND	2
DICHLORODIFLUOROMETHANE	UG/L	ND	5
1,1-DICHLOROETHANE	UG/L	ND	1
1,2-DICHLOROETHANE	UG/L	ND	1
1,1-DICHLOROETHENE	UG/L	ND	1
1,2-DICHLOROETHENE (TOTAL)	UG/L	ND	1
1,2-DICHLOROPROPANE	UG/L	ND	1
CIS-1,3-DICHLOROPROPENE	UG/L	ND	1
TRANS-1,3-DICHLOROPROPENE	UG/L	ND	1
ETHYLBENZENE	UG/L	ND	1
METHYLENE CHLORIDE	UG/L	ND	5
METHYL T-BUTYL ETHER	UG/L	ND	5
1,1,2,2-TETRACHLOROETHANE	UG/L	ND	1
TETRACHLOROETHENE	UG/L	ND	3
TOLUENE	UG/L	ND	5
1,1,1-TRICHLOROETHANE	UG/L	ND	1
1,1,2-TRICHLOROETHANE	UG/L	ND	2
TRICHLOROETHENE	UG/L	ND	1
TRICHLOROFLUOROMETHANE	UG/L	ND	2
VINYL CHLORIDE	UG/L	ND	1
XYLENES (TOTAL)	UG/L	ND	2
BENZYL CHLORIDE	UG/L**	ND	5
BIS(2-CHLOROETHOXY)METHANE	UG/L**	ND	50
BIS(2-CHLOROISOPROPYL)ETHER	UG/L**	ND	50
BROMOBENZENE	UG/L**	ND	3
CHLOROACETALDEHYDE	UG/L**	ND	50
CHLOROMETHYLMETHYL ETHER	UG/L**	ND	50
2-CHLOROTOLUENE	UG/L**	ND	1
DIBROMOMETHANE	UG/L**	ND	5
1,1,1,2-TETRACHLOROETHANE	UG/L**	ND	1
1,2,3-TRICHLOROPROPANE	UG/L**	ND	5
1-CHLOROHEXANE	UG/L**	ND	5
BROMOFLUOROBENZENE (PID)	%REC/SURR	129	70-130

[0] Page 4
Date 07-Mar-94

Title: Water Blank "QC Report"
Batch: KIW035
Analysis Method: 8010/8020 / SW 846, 3rd Edition, September 1986 and Rev. 1, July 1992
Extraction Method: N/A

Parameters:	Units:	Results:	Reporting Limits:
BROMOFLUOROBENZENE (ELCD) ANALYST	%REC/SURR INITIALS	92 KKS	70-130

Comments:

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Date 07-Mar-94

"QC Report"

Title: Water Reagent
 Batch: KIW035
 Analysis Method: 8010/8020 / SW 846, 3rd Edition, September 1986 and Rev. 1, July 1992
 Extraction Method: N/A

RS Date Analyzed: 02-MAR-94
 RSD Date Analyzed: 03-MAR-94

RS Date Extracted: N/A
 RSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	RS Conc	RS %Rec	RSD Conc	RSD %Rec	RPD	Lmts	Rec Lmts
1,1-DICHLOROETHENE	50	<1	49	98	50	100	2	8	78-122
TRICHLOROETHENE	50	<1	55	110	55	110	0	20	73-125
BENZENE	50	<1	53	106	54	108	2	11	82-120
TOLUENE	50	<5	53	106	56	112	6	14	77-125
CHLOROBENZENE	50	<1	55	110	56	112	2	13	86-128

Surrogates:

BROMOFLUOROBENZENE (PID)	102	109	70-130
BROMOFLUOROBENZENE (ELCD)	100	101	70-130

Comments:

Notes:

N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
 UG/L = PARTS PER BILLION. < = LESS THAN REPORTING LIMIT.

* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.

SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

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Date 07-Mar-94

"QC Report"

Title: Water Matrix
 Batch: KIW035
 Analysis Method: 8010/8020 / SW 846, 3rd Edition, September 1986 and Rev. 1, July 1992
 Extraction Method: N/A

Dry Weight %:	N/A	MS Date Analyzed:	04-MAR-94	MS Date Extracted:	N/A			
Sample Spiked:	402728-1	MSD Date Analyzed:	04-MAR-94	MSD Date Extracted:	N/A			
Parameters:	Spike Added	Sample Conc	MS Conc	MS %Rec	MSD Conc	MSD %Rec	RPD	Rec Lmts
1,1-DICHLOROETHENE	50	<1	50	100	49	98	2	8 78-122
TRICHLOROETHENE	50	<1	46	92	48	96	4	20 73-125
BENZENE	50	<1	50	100	46	92	8	11 82-120
TOLUENE	50	<5	49	98	43	86	13	14 77-125
CHLOROBENZENE	50	<1	49	98	43	86	13	13 86-128
Surrogates:								
BROMOFLUOROBENZENE (PID)				92		90		70-130
BROMOFLUOROBENZENE (ELCD)				99		117		70-130

Comments:

SPIKING COMPOUND LOT #01-VW19-01 PURCHASED FROM ULTRA SCIENTIFIC
 INTERNAL STANDARD LOT #01-VW21-01 PURCHASED FROM ACCUSTANDARD

Notes:

N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
 UG/L = PARTS PER BILLION. < = LESS THAN REPORTING LIMIT.
 * = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
 SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE
 PROGRAM AND REFERENCED METHOD.

[0] Page 7
Date 07-Mar-94

Common notation for Organic reporting

N/S = NOT SUBMITTED

N/A = NOT APPLICABLE

D = DILUTED OUT

UG/L = PARTS PER BILLION.

UG/KG = PARTS PER BILLION.

MG/KG = PARTS PER MILLION.

MG/L = PARTS PER MILLION.

< = LESS THAN DETECTION LIMIT.

* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS

SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

ORGANIC SOILS ARE REPORTED ON A DRY WEIGHT BASIS.

** COMPOUNDS FLAGGED IN METHOD ARE NOT WITHIN THE FIVE POINT CURVE. THEY ARE SEARCHED FOR QUALITATIVELY.

ND = NOT DETECTED ABOVE REPORTING LIMIT.

SR-SHELLEY REAMSMA

MLP-MELISSA POPE

TSH-TRICIA HOLSTON

LKD-LEIGH DUVALL

MM-MIKE MCKENZIE

KWS-KENDALL SMITH

KKS-KIMBERLY SMITH

GF-GREG FOOTE

NC-NICOLE CALL

JP-JOSEPH POPE

JA-JENNIFER ALEXANDER

HB-HEATHER BIANCALANA

F PENNY A. MALOUIN

I MARIE CLAUDIA WALTON

SL SHARON BRADDOCK

PROJECT SAMPLE INSPECTION FORM

Accession #: 402728

Date received: 25-FEB-94

- | | | | | | |
|---|--------------------------------------|----|--|--------------------------------------|--------|
| 1. Was there a Chain of Custody? | <input checked="" type="radio"/> YES | NO | 7. Are samples correctly preserved for analysis required? | <input checked="" type="radio"/> YES | NO |
| 2. Was Chain of Custody properly relinquished? | <input checked="" type="radio"/> YES | NO | 8. Is there sufficient volume for analysis requested? | <input checked="" type="radio"/> YES | NO |
| 3. Were samples received cold? (At 4° or on ice) | <input checked="" type="radio"/> YES | NO | 9. Were samples received within holding time? | <input checked="" type="radio"/> YES | NO |
| 4. Were all containers properly labeled and identified? | <input checked="" type="radio"/> YES | NO | 10. Was there headspace greater than X" in diameter in volatile bottles? | <input checked="" type="radio"/> YES | NO N/A |
| 5. Were samples received in proper containers for analysis requested? | <input checked="" type="radio"/> YES | NO | 11. If sent, were matrix spike bottles returned? | <input checked="" type="radio"/> YES | NO N/A |
| 6. Were all sample containers received intact? | <input checked="" type="radio"/> YES | NO | | | |

Tracking Number: 9010554954

Shipped By: REDEX

Cooler Number: N/S

Out of Control Events and Inspection Comments:

TRIP BLANK NOT LISTED IN CO.C., BUT
IT WAS SENT ALONG
RUN TRIP BLANK PER STEVE MILLER LP
2/25/94

PER STEVE MILLER CHANGE PB TO 8 RCRA METALS

HOLD:SYS EFF

ANALYZE: SYS INF : SYS INTERCARBON.

LP
2/25/94

Inspected By: af Date: 2/25/94 Logged By: af Date: 2/25/94

TAMPA SAMPLE INSPECTION FORM

EN 94-008

Accession #: SAFETY-KLEEN 94-080-1111

Date received: 2/24/94

- | | | | | | | | |
|----|--|--------------------------------------|----|-----|---|---|-----|
| 1. | Was there a Chain of Custody? | <input checked="" type="radio"/> YES | NO | 7. | Are samples correctly preserved for analysis required? | <input checked="" type="radio"/> YES | NO |
| 2. | Was Chain of Custody properly relinquished? | <input checked="" type="radio"/> YES | NO | 8. | Is there sufficient volume for analysis requested? | <input checked="" type="radio"/> YES | NO |
| 3. | Were samples received cold? (At 4° or on ice) | <input checked="" type="radio"/> YES | NO | 9. | Were samples received within holding time? | <input checked="" type="radio"/> YES | NO |
| 4. | Were all containers properly labeled and identified? | <input checked="" type="radio"/> YES | NO | 10. | Was there headspace greater than $\frac{1}{4}$ " in diameter in volatile bottles? | YES <input checked="" type="radio"/> NO | N/A |
| 5. | Were samples received in proper containers for analysis requested? | <input checked="" type="radio"/> YES | NO | 11. | If sent, were matrix spike bottles returned? | YES <input checked="" type="radio"/> NO | N/A |
| 6. | Were all sample containers received intact? | <input checked="" type="radio"/> YES | NO | | | | |

Tracking Number: _____ Shipped By: _____

Shipped By:

Cooler Number: _____

Out of Control Events and Inspection Comments:

Inspected By: C.Y.

Date: 2/24/94



Analytical**Technologies**, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

SIGNATURE PAGE

Reviewed by:



ATI Project Manager

Client: SAFETY-KLEEN EHS ADMINISTRATION
ELGIN, IL

Project Name: SAFETY KLEEN
Project Number: 94118-1111
Project Location: SAFETY KLEEN MANHATTAN
Accession Number: 403437

Project Manager: STEVE MILLER
Sampled By: STEVE MILLER

Analysis Report

Analysis: RCRA METALS

Accession:	403437
Client:	SAFETY-KLEEN EHS ADMINISTRATION
Project Number:	94118-1111
Project Name:	SAFETY KLEEN
Project Location:	SAFETY KLEEN MANHATTAN
Department:	METALS

[0] Page 1
Date 28-Mar-94

Accession: 403437
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94118-1111
Project Name: SAFETY KLEEN
Project Location: SAFETY KLEEN MANHATTAN
Test: RCRA METALS
Matrix: GROUNDWATER
QC Level: II

Lab Id: 001 Sample Date/Time: 16-MAR-94 1335
Client Sample Id: 031694 SYS INF Received Date: 17-MAR-94

Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
SILVER (6010)	MG/L	ND	0.01		A6W095	JMP
ARSENIC (7060)	MG/L	ND	0.005		R7W109	GL
BARIUM (6010)	MG/L	ND	0.01		B6W095	JMP
CADMIUM (6010)	MG/L	ND	0.005		C6W095	JMP
CHROMIUM (6010)	MG/L	ND	0.01		H6W095	JMP
MERCURY (7470)	MG/L	ND	0.0002		M7W037	JP
LEAD (7421)	MG/L	ND	0.003		P7W109	GJ
SELENIUM (7740)	MG/L	ND	0.005		S7W109	GJ

Comments:

[0] Page 2
Date 28-Mar-94

Accession: 403437
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94118-1111
Project Name: SAFETY KLEEN
Project Location: SAFETY KLEEN MANHATTAN
Test: RCRA METALS
Matrix: GROUNDWATER
QC Level: II

Lab Id: 002 Sample Date/Time: 16-MAR-94 1340
Client Sample Id: 031694 SYS INTERCARBON Received Date: 17-MAR-94

Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
SILVER (6010)	MG/L	ND	0.01		A6W095	JMP
ARSENIC (7060)	MG/L	ND	0.005		R7W109	GL
BARIUM (6010)	MG/L	ND	0.01		B6W095	JMP
CADMIUM (6010)	MG/L	ND	0.005		C6W095	JMP
CHROMIUM (6010)	MG/L	ND	0.01		H6W095	JMP
MERCURY (7470)	MG/L	ND	0.0002		M7W037	JP
LEAD (7421)	MG/L	ND	0.003		P7W109	GJ
SELENIUM (7740)	MG/L	ND	0.005		S7W109	GJ

Comments:

Analysis Report

Analysis: VOLATILES (8010-8020)

Accession:	403437
Client:	SAFETY-KLEEN EHS ADMINISTRATION
Project Number:	94118-1111
Project Name:	SAFETY KLEEN
Project Location:	SAFETY KLEEN MANHATTAN
Department:	GC/VOA

[0] Page 1
Date 01-Apr-94

Accession: 403437
 Client: SAFETY-KLEEN EHS ADMINISTRATION
 Project Number: 94118-1111
 Project Name: SAFETY KLEEN
 Project Location: SAFETY KLEEN MANHATTAN
 Test: VOLATILES (8010-8020)
 Analysis Method: 8010/8020 / SW 846, 3rd Edition, September 1986 and Rev. 1, July 1992
 Extraction Method: N/A
 Matrix: GROUNDWATER
 QC Level: II

Lab Id: 001 Sample Date/Time: 16-MAR-94 1335
 Client Sample Id: 031694 SYS INF Received Date: 17-MAR-94
 Batch: PHW045 Extraction Date: N/A
 Blank: B Dry Weight %: N/A Analysis Date: 26-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/L	1	1	
BROMODICHLOROMETHANE	UG/L	ND	1	
BROMOFORM	UG/L	ND	2	
BROMOMETHANE	UG/L	ND	2	
CARBON TETRACHLORIDE	UG/L	ND	1	
CHLOROBENZENE	UG/L	5	1	
CHLOROETHANE	UG/L	ND	5	
2-CHLOROETHYL VINYLETHER	UG/L	ND	5	
CHLOROFORM	UG/L	ND	2	
CHLOROMETHANE	UG/L	ND	5	
DIBROMOCHLOROMETHANE	UG/L	ND	5	
1,2-DICHLOROBENZENE	UG/L	ND	2	
1,3-DICHLOROBENZENE	UG/L	ND	2	
1,4-DICHLOROBENZENE	UG/L	ND	2	
DICHLORODIFLUOROMETHANE	UG/L	ND	5	
1,1-DICHLOROETHANE	UG/L	ND	1	
1,2-DICHLOROETHANE	UG/L	ND	1	
1,1-DICHLOROETHENE	UG/L	ND	1	
1,2-DICHLOROETHENE (TOTAL)	UG/L	ND	1	
1,2-DICHLOROPROPANE	UG/L	ND	1	
CIS-1,3-DICHLOROPROPENE	UG/L	ND	1	
TRANS-1,3-DICHLOROPROPENE	UG/L	ND	1	
ETHYLBENZENE	UG/L	3	1	
METHYLENE CHLORIDE	UG/L	ND	5	
METHYL T-BUTYL ETHER	UG/L	ND	5	
1,1,2,2-TETRACHLOROETHANE	UG/L	ND	1	
TETRACHLOROETHENE	UG/L	ND	3	
TOLUENE	UG/L	ND	5	
1,1,1-TRICHLOROETHANE	UG/L	ND	1	
1,1,2-TRICHLOROETHANE	UG/L	ND	2	
TRICHLOROETHENE	UG/L	ND	1	
TRICHLOROFLUOROMETHANE	UG/L	ND	2	
VINYL CHLORIDE	UG/L	ND	1	
XYLENES (TOTAL)	UG/L	ND	2	
BENZYL CHLORIDE	UG/L**	ND	5	
BIS(2-CHLOROETHOXY)METHANE	UG/L**	ND	50	
BIS(2-CHLOROISOPROPYL)ETHER	UG/L**	ND	50	
BROMOBENZENE	UG/L**	ND	3	
CHLOROACETALDEHYDE	UG/L**	ND	50	
CHLOROMETHYLMETHYL ETHER	UG/L**	ND	50	

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Date 01-Apr-94

Accession: 403437
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94118-1111
Project Name: SAFETY KLEEN
Project Location: SAFETY KLEEN MANHATTAN
Test: VOLATILES (8010-8020)
Analysis Method: 8010/8020 / SW 846, 3rd Edition, September 1986 and Rev. 1, July 1992
Extraction Method: N/A
Matrix: GROUNDWATER
QC Level: II

Lab Id: 001 Sample Date/Time: 16-MAR-94 1335
Client Sample Id: 031694 SYS INF Received Date: 17-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
2-CHLOROTOLUENE	UG/L**	ND	1	
DIBROMOMETHANE	UG/L**	ND	5	
1,1,1,2 TETRACHLOROETHANE	UG/L**	ND	1	
1,2,3 TRICHLOROPROPANE	UG/L**	ND	5	
1-CHLOROHEXANE	UG/L**	ND	5	
BROMOFLUOROBENZENE (PID)	%REC/SURR	103	70-130	
BROMOFLUOROBENZENE (ELCD)	%REC/SURR	96	70-130	
ANALYST	INITIALS	GF		

Comments:

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Date 01-Apr-94

Accession: 403437 Date 01-Apr-94
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94118-1111
Project Name: SAFETY KLEEN
Project Location: SAFETY KLEEN MANHATTAN
Test: VOLATILES (8010-8020)
Analysis Method: 8010/8020 / SW 846, 3rd Edition, September 1986 and Rev. 1, July 1992
Extraction Method: N/A
Matrix: GROUNDWATER
QC Level: II

Lab Id: 002 Sample Date/Time: 16-MAR-94 1340
Client Sample Id: 031694 SYS INTERCARBON Received Date: 17-MAR-94

Batch: PHW045 Extraction Date: N/A
Blank: C Dry Weight %: N/A Analysis Date: 27-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/L	ND	1	
BROMODICHLOROMETHANE	UG/L	ND	1	
BROMOFORM	UG/L	ND	2	
BROMOMETHANE	UG/L	ND	2	
CARBON TETRACHLORIDE	UG/L	ND	1	
CHLOROBENZENE	UG/L	ND	1	
CHLOROETHANE	UG/L	ND	5	
2-CHLOROETHYL VINYLETHER	UG/L	ND	5	
CHLOROFORM	UG/L	ND	2	
CHLOROMETHANE	UG/L	ND	5	
DIBROMOCHLOROMETHANE	UG/L	ND	5	
1,2-DICHLOROBENZENE	UG/L	ND	2	
1,3-DICHLOROBENZENE	UG/L	ND	2	
1,4-DICHLOROBENZENE	UG/L	ND	2	
DICHLORODIFLUOROMETHANE	UG/L	ND	5	
1,1-DICHLOROETHANE	UG/L	ND	1	
1,2-DICHLOROETHANE	UG/L	ND	1	
1,1-DICHLOROETHENE	UG/L	ND	1	
1,2-DICHLOROETHENE (TOTAL)	UG/L	ND	1	
1,2-DICHLOROPROPANE	UG/L	ND	1	
CIS-1,3-DICHLOROPROPENE	UG/L	ND	1	
TRANS-1,3-DICHLOROPROPENE	UG/L	ND	1	
ETHYLBENZENE	UG/L	ND	1	
METHYLENE CHLORIDE	UG/L	ND	5	
METHYL T-BUTYL ETHER	UG/L	ND	5	
1,1,2,2-TETRACHLOROETHANE	UG/L	ND	1	
TETRACHLOROETHENE	UG/L	ND	3	
TOLUENE	UG/L	ND	5	
1,1,1-TRICHLOROETHANE	UG/L	ND	1	
1,1,2-TRICHLOROETHANE	UG/L	ND	2	
TRICHLOROETHENE	UG/L	ND	1	
TRICHLOROFLUOROMETHANE	UG/L	ND	2	
VINYL CHLORIDE	UG/L	ND	1	
XYLENES (TOTAL)	UG/L	ND	2	
BENZYL CHLORIDE	UG/L**	ND	5	
BIS(2-CHLOROETHOXY)METHANE	UG/L**	ND	50	
BIS(2-CHLOROISOPROPYL)ETHER	UG/L**	ND	50	
BROMOBENZENE	UG/L**	ND	3	
CHLOROACETALDEHYDE	UG/L**	ND	50	
CHLOROMETHYLMETHYL ETHER	UG/L**	ND	50	

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Date 01-Apr-94.

Accession: 403437
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94118-1111
Project Name: SAFETY KLEEN
Project Location: SAFETY KLEEN MANHATTAN
Test: VOLATILES (8010-8020)
Analysis Method: 8010/8020 / SW 846, 3rd Edition, September 1986 and Rev. 1, July 1992
Extraction Method: N/A
Matrix: GROUNDWATER
QC Level: II

Lab Id: 002 Sample Date/Time: 16-MAR-94 1340
Client Sample Id: 031694 SYS INTERCARBON Received Date: 17-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
2-CHLOROTOLUENE	UG/L**	ND	1	
DIBROMOMETHANE	UG/L**	ND	5	
1,1,1,2 TETRACHLOROETHANE	UG/L**	ND	1	
1,2,3 TRICHLOROPROPANE	UG/L**	ND	5	
1-CHLOROHEXANE	UG/L**	ND	5	
BROMOFLUOROBENZENE (PID)	%REC/SURR	106	70-130	
BROMOFLUOROBENZENE (ELCD)	%REC/SURR	73	70-130	
ANALYST	INITIALS	GF		

Comments:

[0] Page 5
Date 01-Apr-94

Accession: 403437
 Client: SAFETY-KLEEN EHS ADMINISTRATION
 Project Number: 94118-1111
 Project Name: SAFETY KLEEN
 Project Location: SAFETY KLEEN MANHATTAN
 Test: VOLATILES (8010-8020)
 Analysis Method: 8010/8020 / SW 846, 3rd Edition, September 1986 and Rev. 1, July 1992
 Extraction Method: N/A
 Matrix: WATER
 QC Level: II

Lab Id:	003	Sample Date/Time:	N/S
Client Sample Id:	TRIP BLANK	Received Date:	17-MAR-94
Batch:	PHW048	Extraction Date:	N/A
Blank:	A	Analysis Date:	30-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/L	ND	1	
BROMODICHLOROMETHANE	UG/L	ND	1	
BROMOFORM	UG/L	ND	2	
BROMOMETHANE	UG/L	ND	2	
CARBON TETRACHLORIDE	UG/L	ND	1	
CHLOROBENZENE	UG/L	ND	1	
CHLOROETHANE	UG/L	ND	5	
2-CHLOROETHYL VINYLETHER	UG/L	ND	5	
CHLOROFORM	UG/L	ND	2	
CHLOROMETHANE	UG/L	ND	5	
DIBROMOCHLOROMETHANE	UG/L	ND	5	
1,2-DICHLOROBENZENE	UG/L	ND	2	
1,3-DICHLOROBENZENE	UG/L	ND	2	
1,4-DICHLOROBENZENE	UG/L	ND	2	
DICHLORODIFLUOROMETHANE	UG/L	ND	5	
1,1-DICHLOROETHANE	UG/L	ND	1	
1,2-DICHLOROETHANE	UG/L	ND	1	
1,1-DICHLOROETHENE	UG/L	ND	1	
1,2-DICHLOROETHENE (TOTAL)	UG/L	ND	1	
1,2-DICHLOROPROpane	UG/L	ND	1	
CIS-1,3-DICHLOROPROPENE	UG/L	ND	1	
TRANS-1,3-DICHLOROPROPENE	UG/L	ND	1	
ETHYLBENZENE	UG/L	ND	1	
METHYLENE CHLORIDE	UG/L	ND	5	
METHYL T-BUTYL ETHER	UG/L	ND	5	
1,1,2,2-TETRACHLOROETHANE	UG/L	ND	1	
TETRACHLOROETHENE	UG/L	ND	3	
TOLUENE	UG/L	ND	5	
1,1,1-TRICHLOROETHANE	UG/L	ND	1	
1,1,2-TRICHLOROETHANE	UG/L	ND	2	
TRICHLOROETHENE	UG/L	ND	1	
TRICHLOROFLUOROMETHANE	UG/L	ND	2	
VINYL CHLORIDE	UG/L	ND	1	
XYLENES (TOTAL)	UG/L	ND	2	
BENZYL CHLORIDE	UG/L**	ND	5	
BIS(2-CHLOROETHOXY)METHANE	UG/L**	ND	50	
BIS(2-CHLOROISOPROPYL)ETHER	UG/L**	ND	50	
BROMOBENZENE	UG/L**	ND	3	
CHLOROACETALDEHYDE	UG/L**	ND	50	
CHLOROMETHYLMETHYL ETHER	UG/L**	ND	50	

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Date 01-Apr-94

Accession: 403437
 Client: SAFETY-KLEEN EHS ADMINISTRATION
 Project Number: 94118-1111
 Project Name: SAFETY KLEEN
 Project Location: SAFETY KLEEN MANHATTAN
 Test: VOLATILES (8010-8020)
 Analysis Method: 8010/8020 / SW 846, 3rd Edition, September 1986 and Rev. 1, July 1992
 Extraction Method: N/A
 Matrix: WATER
 QC Level: II

Lab Id:	003	Sample Date/Time:	N/S
Client Sample Id:	TRIP BLANK	Received Date:	17-MAR-94
Parameter:	Units:	Results:	Rpt Lmts: Q:
2-CHLOROTOLUENE	UG/L**	ND	1
DIBROMOMETHANE	UG/L**	ND	5
1,1,1,2 TETRACHLOROETHANE	UG/L**	ND	1
1,2,3 TRICHLOROPROPANE	UG/L**	ND	5
1-CHLOROHEXANE	UG/L**	ND	5
BROMOFLUOROBENZENE (PID)	%REC/SURR	122	70-130
BROMOFLUOROBENZENE (ELCD)	%REC/SURR	123	70-130
ANALYST	INITIALS	GF	

Comments:

[0] Page 7
Date 01-Apr-94

"Method Report Summary"

Accession Number: 403437
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94118-1111
Project Name: SAFETY KLEEN
Project Location: SAFETY KLEEN MANHATTAN
Test: VOLATILES (8010-8020)

Client Sample Id:	Parameter:	Unit:	Result:
031694 SYS INF	BENZENE	UG/L	1
	CHLOROBENZENE	UG/L	5
	ETHYLBENZENE	UG/L	3

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: RCRA METALS

Accession: 403437
Client: SAFETY-KLEEN EHS ADMINISTRATION
Project Number: 94118-1111
Project Name: SAFETY KLEEN
Project Location: SAFETY KLEEN MANHATTAN
Department: METALS

[0] Page 1
Date 28-Mar-94

"Metals Quality Control Report"					
Parameter:	SILVER	ARSENIC	BARIUM	CADMIUM	CHROMIUM
Batch Id:	A6W095	R7W109	B6W095	C6W095	H6W095
Blank Result:	<0.01	<0.005	<0.01	<0.005	<0.01
Anal. Method:	6010	7060	6010	6010	6010
Prep. Method:	3010	3020	3010	3010	3010
Analysis Date:	21-MAR-94	24-MAR-94	21-MAR-94	21-MAR-94	21-MAR-94
Prep. Date:	19-MAR-94	21-MAR-94	19-MAR-94	19-MAR-94	19-MAR-94

Sample Duplication

Sample Dup:	403461-4	403437-2	403461-4	403461-4	403461-4	403437-1
Rept Limit:	<0.01	<0.005	<0.01	<0.005	<0.01	<0.0002
Sample Result:	<0.01	<0.005	0.02	<0.005	<0.01	<0.0002
Dup Result:	<0.01	<0.005	0.02	<0.005	<0.01	<0.0002
Sample RPD:	N/C	N/C	0G	N/C	N/C	N/C
Max RPD:	0.01	0.005	0.01	0.005	0.01	0.0002
Dry Weight%	N/A	N/A	N/A	N/A	N/A	N/A

Matrix Spike

Sample Spiked:	403461-4	403437-2	403461-4	403461-4	403461-4	403437-1
Rept Limit:	<0.01	<0.005	<0.01	<0.005	<0.01	<0.0002
Sample Result:	<0.01	<0.005	0.02	<0.005	<0.01	<0.0002
Spiked Result:	1.9	0.044	1.9	2.0	2.0	0.0047
Spike Added:	2.0	0.040	2.0	2.0	2.0	0.0050
% Recovery:	95	110	94	100	100	94
% Rec Limits:	75-125	75-125	75-125	75-125	75-125	75-125
Dry Weight%	N/A	N/A	N/A	N/A	N/A	N/A

ICV

ICV Result:	4.7	0.042	4.8	4.8	5.0	0.0038
True Result:	5.0	0.040	5.0	5.0	5.0	0.0040
% Recovery:	94	105	96	96	100	95
% Rec Limits:	90-110	90-110	90-110	90-110	90-110	80-120

LCS

LCS Result:	1.96	0.042	1.95	2.0	2.04	0.0044
True Result:	2.0	0.040	2.0	2.0	2.0	0.0050
% Recovery:	98	105	98	100	102	88
% Rec Limits:	80-120	80-120	80-120	80-120	80-120	80-120

[0] Page 2
Date 28-Mar-94

"Metals Quality Control Report"		
Parameter:	LEAD	SELENIUM
Batch Id:	P7W109	S7W109
Blank Result:	<0.003	<0.005
Anal. Method:	7421	7740
Prep. Method:	3020	3020
Analysis Date:	23-MAR-94	24-MAR-94
Prep. Date:	21-MAR-94	21-MAR-94

Sample Duplication

Sample Dup:	403437-2	403437-2
Rept Limit:	<0.003	<0.005
Sample Result:	<0.003	<0.005
Dup Result:	<0.003	<0.005
Sample RPD:	N/C	N/C
Max RPD:	0.003	0.005
Dry Weight%	N/A	N/A

Matrix Spike

Sample Spiked:	403437-2	403437-2
Rept Limit:	<0.003	<0.005
Sample Result:	<0.003	<0.005
Spiked Result:	0.022	0.010
Spike Added:	0.020	0.010
% Recovery:	110	100
% Rec Limits:	75-125	75-125
Dry Weight%	N/A	N/A

ICV

ICV Result:	0.020	0.019
True Result:	0.020	0.020
% Recovery:	100	95
% Rec Limits:	90-110	90-110

LCS

LCS Result:	0.021	0.009
True Result:	0.020	0.010
% Recovery:	105	90
% Rec Limits:	80-120	80-120

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Date 28-Mar-94

"Quality Control Comments"

	Batch Id:	Comments:
A6W095	ANALYST: JMP	
A6W095	TIME ON: 14:31	
R7W109	ANALYST: GL	
B6W095	ANALYST: JMP	
B6W095	TIME ON: 14:31	
C6W095	ANALYST: JMP	
C6W095	TIME ON: 14:31	
H6W095	ANALYST: JMP	
H6W095	TIME ON: 14:31	
M7W037	ANALYST: JP	
M7W037	TIME ON: 13:32	
P7W109	ANALYST: GJ	
S7W109	ANALYST: GL	

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Date 28-Mar-94

----- Common Footnotes Metals -----

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW ATI REPORTING LIMIT;
THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
N/D = NOT DETECTED.
DISS. OR D = DISSOLVED
T & D = TOTAL AND DISSOLVED
R = REACTIVE
T = TOTAL
G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X ATI REPORTING LIMIT AND
THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT
OR BELOW ATI REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".
Q = THE ANALYTICAL (POST-DIGESTION) SPIKE IS REPORTED DUE TO PERCENT RECOVERY
BEING OUTSIDE ACCEPTANCE LIMITS ON THE MATRIX (PRE-DIGESTION) SPIKE.
= ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE.
+ = ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.
* = ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE. (DILUTION PRIOR
TO ANALYSIS)
@ = ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX. (DILUTION PRIOR TO
DIGESTION)
P = ANALYTICAL (POST DIGESTION) SPIKE.
I = DUPLICATE INJECTION.
& = AUTOMATED
F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
N/C+ = NOT CALCULABLE
N/C* = NOT CALCULABLE; SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
H = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X ATI REPORTING LIMIT AND THE
ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE ATI REPORTING
LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL".
Z = THE SAMPLE RESULT FOR THE SPIKE IS BELOW THE REPORTING LIMIT. HOWEVER,
THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS.
NH= SAMPLE AND / OR DUPLICATE RESULT IS BELOW 5 X ATI REPORTING LIMIT
AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE ATI
REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
SAMPLE IS NON-HOMOGENEOUS.

RPD= RELATIVE PERCENT DEVIATION.

RPT LIMIT= REPORTING LIMIT BASED ON METHOD DETECTION LIMIT STUDIES.

SW-846, 3rd Edition, September 1986 and Revision 1, July 1992.

EPA 600/4-79-020, Revised March 1983.

NIOSH Manual of Analytical Methods, 3rd Edition.

JP = JAY PEREZ
GL = GENE LANDRUM
JMP = JACI M. PRICE
JLH = JAMES L. HERED

JRR = JOHN R. ROWE
JR = JOHN REED
GJ = GARY JACOBS

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: VOLATILES (8010-8020)

Accession:	403437
Client:	SAFETY-KLEEN EHS ADMINISTRATION
Project Number:	94118-1111
Project Name:	SAFETY KLEEN
Project Location:	SAFETY KLEEN MANHATTAN
Department:	GC/VOA

[0] Page 1
Date 01-Apr-94

"QC Report"

Title: Water Blank
 Batch: PHW045
 Analysis Method: 8010/8020 / SW 846, 3rd Edition, September 1986 and Rev. 1, July 1992
 Extraction Method: N/A

Blank Id: B Date Analyzed: 26-MAR-94 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
BENZENE	UG/L	ND	1
BROMODICHLOROMETHANE	UG/L	ND	1
BROMOFORM	UG/L	ND	2
BROMOMETHANE	UG/L	ND	2
CARBON TETRACHLORIDE	UG/L	ND	1
CHLOROBENZENE	UG/L	ND	1
CHLOROETHANE	UG/L	ND	5
2-CHLOROETHYL VINYLETHER	UG/L	ND	5
CHLOROFORM	UG/L	ND	2
CHLOROMETHANE	UG/L	ND	5
DIBROMOCHLOROMETHANE	UG/L	ND	5
1,2-DICHLOROBENZENE	UG/L	ND	2
1,3-DICHLOROBENZENE	UG/L	ND	2
1,4-DICHLOROBENZENE	UG/L	ND	2
DICHLORODIFLUOROMETHANE	UG/L	ND	5
1,1-DICHLOROETHANE	UG/L	ND	1
1,2-DICHLOROETHANE	UG/L	ND	1
1,1-DICHLOROETHENE	UG/L	ND	1
1,2-DICHLOROETHENE (TOTAL)	UG/L	ND	1
1,2-DICHLOROPROPANE	UG/L	ND	1
CIS-1,3-DICHLOROPROPENE	UG/L	ND	1
TRANS-1,3-DICHLOROPROPENE	UG/L	ND	1
ETHYLBENZENE	UG/L	ND	1
METHYLENE CHLORIDE	UG/L	ND	5
METHYL T-BUTYL ETHER	UG/L	ND	5
1,1,2,2-TETRACHLOROETHANE	UG/L	ND	1
TETRACHLOROETHENE	UG/L	ND	3
TOLUENE	UG/L	ND	5
1,1,1-TRICHLOROETHANE	UG/L	ND	1
1,1,2-TRICHLOROETHANE	UG/L	ND	2
TRICHLOROETHENE	UG/L	ND	1
TRICHLOROFLUOROMETHANE	UG/L	ND	2
VINYL CHLORIDE	UG/L	ND	1
XYLENES (TOTAL)	UG/L	ND	2
BENZYL CHLORIDE	UG/L**	ND	5
BIS(2-CHLOROETHOXY)METHANE	UG/L**	ND	50
BIS(2-CHLOROISOPROPYL)ETHER	UG/L**	ND	50
BROMOBENZENE	UG/L**	ND	3
CHLOROACETALDEHYDE	UG/L**	ND	50
CHLOROMETHYLMETHYL ETHER	UG/L**	ND	50
2-CHLOROTOLUENE	UG/L**	ND	1
DIBROMOMETHANE	UG/L**	ND	5
1,1,1,2 TETRACHLOROETHANE	UG/L**	ND	1
1,2,3 TRICHLOROPROPANE	UG/L**	ND	5
1-CHLOROHEXANE	UG/L**	ND	5
BROMOFLUOROBENZENE (PID)	%REC/SURR	98	70-130

[0] Page 2
Date 01-Apr-94

Title: Water Blank "QC Report"
Batch: PHW045
Analysis Method: 8010/8020 / SW 846, 3rd Edition, September 1986 and Rev. 1, July 1992
Extraction Method: N/A

Parameters:	Units:	Results:	Reporting Limits:
BROMOFLUOROBENZENE (ELCD)	%REC/SURR	108	70-130
ANALYST	INITIALS	MM	

Comments:

[0] Page 3
Date 01-Apr-94

"QC Report"

Title: Water Blank
 Batch: PHW045
 Analysis Method: 8010/8020 / SW 846, 3rd Edition, September 1986 and Rev. 1, July 1992
 Extraction Method: N/A

Blank Id: C Date Analyzed: 27-MAR-94 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
BENZENE	UG/L	ND	1
BROMODICHLOROMETHANE	UG/L	ND	1
BROMOFORM	UG/L	ND	2
BROMOMETHANE	UG/L	ND	2
CARBON TETRACHLORIDE	UG/L	ND	1
CHLOROBENZENE	UG/L	ND	1
CHLOROETHANE	UG/L	ND	5
2-CHLOROETHYL VINYLETHER	UG/L	ND	5
CHLOROFORM	UG/L	ND	2
CHLOROMETHANE	UG/L	ND	5
DIBROMOCHLOROMETHANE	UG/L	ND	5
1,2-DICHLOROBENZENE	UG/L	ND	2
1,3-DICHLOROBENZENE	UG/L	ND	2
1,4-DICHLOROBENZENE	UG/L	ND	2
DICHLORODIFLUOROMETHANE	UG/L	ND	5
1,1-DICHLOROETHANE	UG/L	ND	1
1,2-DICHLOROETHANE	UG/L	ND	1
1,1-DICHLOROETHENE	UG/L	ND	1
1,2-DICHLOROETHENE (TOTAL)	UG/L	ND	1
1,2-DICHLOROPROPANE	UG/L	ND	1
CIS-1,3-DICHLOROPROPENE	UG/L	ND	1
TRANS-1,3-DICHLOROPROPENE	UG/L	ND	1
ETHYLBENZENE	UG/L	ND	1
METHYLENE CHLORIDE	UG/L	ND	5
METHYL T-BUTYL ETHER	UG/L	ND	5
1,1,2,2-TETRACHLOROETHANE	UG/L	ND	1
TETRACHLOROETHENE	UG/L	ND	3
TOLUENE	UG/L	ND	5
1,1,1-TRICHLOROETHANE	UG/L	ND	1
1,1,2-TRICHLOROETHANE	UG/L	ND	2
TRICHLOROETHENE	UG/L	ND	1
TRICHLOROFLUOROMETHANE	UG/L	ND	2
VINYL CHLORIDE	UG/L	ND	1
XYLENES (TOTAL)	UG/L	ND	2
BENZYL CHLORIDE	UG/L**	ND	5
BIS(2-CHLOROETHOXY)METHANE	UG/L**	ND	50
BIS(2-CHLOROISOPROPYL)ETHER	UG/L**	ND	50
BROMOBENZENE	UG/L**	ND	3
CHLOROACETALDEHYDE	UG/L**	ND	50
CHLOROMETHYLMETHYL ETHER	UG/L**	ND	50
2-CHLOROTOLUENE	UG/L**	ND	1
DIBROMOMETHANE	UG/L**	ND	5
1,1,1,2 TETRACHLOROETHANE	UG/L**	ND	1
1,2,3 TRICHLOROPROPANE	UG/L**	ND	5
1-CHLOROHEXANE	UG/L**	ND	5
BROMOFLUOROBENZENE (PID)	%REC/SURR	99	70-130

[0] Page 4
Date 01-Apr-94

Title: Water Blank "QC Report"
Batch: PHW045
Analysis Method: 8010/8020 / SW 846, 3rd Edition, September 1986 and Rev. 1, July 1992
Extraction Method: N/A

Parameters:	Units:	Results:	Reporting Limits:
BROMOFLUOROBENZENE (ELCD)	%REC/SURR	120	70-130
ANALYST	INITIALS	MM	

Comments:

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Date 01-Apr-94

"QC Report"

Title: Water Blank
 Batch: PHW048
 Analysis Method: 8010/8020 / SW 846, 3rd Edition, September 1986 and Rev. 1, July 1992
 Extraction Method: N/A

Blank Id: A Date Analyzed: 30-MAR-94 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
BENZENE	UG/L	ND	1
BROMODICHLOROMETHANE	UG/L	ND	1
BROMOFORM	UG/L	ND	2
BROMOMETHANE	UG/L	ND	2
CARBON TETRACHLORIDE	UG/L	ND	1
CHLOROBENZENE	UG/L	ND	1
CHLOROETHANE	UG/L	ND	5
2-CHLOROETHYL VINYLETHER	UG/L	ND	5
CHLOROFORM	UG/L	ND	2
CHLOROMETHANE	UG/L	ND	5
DIBROMOCHLOROMETHANE	UG/L	ND	5
1,2-DICHLOROBENZENE	UG/L	ND	2
1,3-DICHLOROBENZENE	UG/L	ND	2
1,4-DICHLOROBENZENE	UG/L	ND	2
DICHLORODIFLUOROMETHANE	UG/L	ND	5
1,1-DICHLOROETHANE	UG/L	ND	1
1,2-DICHLOROETHANE	UG/L	ND	1
1,1-DICHLOROETHENE	UG/L	ND	1
1,2-DICHLOROETHENE (TOTAL)	UG/L	ND	1
1,2-DICHLOROPROPANE	UG/L	ND	1
CIS-1,3-DICHLOROPROPENE	UG/L	ND	1
TRANS-1,3-DICHLOROPROPENE	UG/L	ND	1
ETHYLBENZENE	UG/L	ND	1
METHYLENE CHLORIDE	UG/L	ND	5
METHYL T-BUTYL ETHER	UG/L	ND	5
1,1,2,2-TETRACHLOROETHANE	UG/L	ND	1
TETRACHLOROETHENE	UG/L	ND	3
TOLUENE	UG/L	ND	5
1,1,1-TRICHLOROETHANE	UG/L	ND	1
1,1,2-TRICHLOROETHANE	UG/L	ND	2
TRICHLOROETHENE	UG/L	ND	1
TRICHLOROFLUOROMETHANE	UG/L	ND	2
VINYL CHLORIDE	UG/L	ND	1
XYLENES (TOTAL)	UG/L	ND	2
BENZYL CHLORIDE	UG/L**	ND	5
BIS(2-CHLOROETHOXY)METHANE	UG/L**	ND	50
BIS(2-CHLOROISOPROPYL)ETHER	UG/L**	ND	50
BROMOBENZENE	UG/L**	ND	3
CHLOROACETALDEHYDE	UG/L**	ND	50
CHLOROMETHYLMETHYL ETHER	UG/L**	ND	50
2-CHLOROTOLUENE	UG/L**	ND	1
DIBROMOMETHANE	UG/L**	ND	5
1,1,1,2-TETRACHLOROETHANE	UG/L**	ND	1
1,2,3-TRICHLOROPROPANE	UG/L**	ND	5
1-CHLOROHEXANE	UG/L**	ND	5
BROMOFLUOROBENZENE (PID)	%REC/SURR	106	70-130

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Date 01-Apr-94

Title: Water Blank "QC Report"
Batch: PHW048
Analysis Method: 8010/8020 / SW 846, 3rd Edition, September 1986 and Rev. 1, July 1992
Extraction Method: N/A

Parameters:	Units:	Results:	Reporting Limits:
BROMOFLUOROBENZENE (ELCD)	%REC/SURR INITIALS	125 GF	70-130
ANALYST			

Comments:

[0] Page 7
Date 01-Apr-94

"QC Report"

Title: Water Reagent
 Batch: PHW045
 Analysis Method: 8010/8020 / SW 846, 3rd Edition, September 1986 and Rev. 1, July 1992
 Extraction Method: N/A

RS Date Analyzed: 25-MAR-94 RS Date Extracted: N/A
 RSD Date Analyzed: 25-MAR-94 RSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	RS Conc	RS %Rec	RSD Conc	RSD %Rec	RPD	Rec Lmts	Rec Lmts
1,1-DICHLOROETHENE	50	<1	51	102	48	96	6	8	78-122
TRICHLOROETHENE	50	<1	56	112	48	96	15	20	73-125
BENZENE	50	<1	52	104	52	104	0	11	82-120
TOLUENE	50	<5	52	104	52	104	0	14	77-125
CHLOROBENZENE	50	<1	52	104	52	104	0	13	86-128

Surrogates:
 BROMOFLUOROBENZENE (PID) 103 99 70-130
 BROMOFLUOROBENZENE (ELCD) 101 96 70-130

Comments:

Notes:

N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
 UG/L = PARTS PER BILLION. < = LESS THAN REPORTING LIMIT.

* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.

SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

[0] Page 8
Date 01-Apr-94

"QC Report"

Title: Water Reagent
 Batch: PHW048
 Analysis Method: 8010/8020 / SW 846, 3rd Edition, September 1986 and Rev. 1, July 1992
 Extraction Method: N/A

RS Date Analyzed: 30-MAR-94
 RSD Date Analyzed: 30-MAR-94

RS Date Extracted: N/A
 RSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	RS Conc	RS %Rec	RSD Conc	RSD %Rec	RPD	Rec Lmts	Lmts
1,1-DICHLOROETHENE	50	<1	46	92	45	90	2	8	78-122
TRICHLOROETHENE	50	<1	43	86	47	94	9	20	73-125
BENZENE	50	<1	60	120	56	112	7	11	82-120
TOLUENE	50	<5	60	120	59	118	2	14	77-125
CHLOROBENZENE	50	<1	59	118	56	112	5	13	86-128

Surrogates:

BROMOFLUOROBENZENE (PID)	119	117	70-130
BROMOFLUOROBENZENE (ELCD)	94	96	70-130

Comments:

Notes:

N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
 UG/L = PARTS PER BILLION. < = LESS THAN REPORTING LIMIT.

* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.

SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

[0] Page 9
Date 01-Apr-94

"QC Report"

Title: Water Matrix
 Batch: PHW045
 Analysis Method: 8010/8020 / SW 846, 3rd Edition, September 1986 and Rev. 1, July 1992
 Extraction Method: N/A

Dry Weight %: N/A	MS Date Analyzed: 26-MAR-94	MS Date Extracted: N/A		
Sample Spiked: 403414-2	MSD Date Analyzed: 26-MAR-94	MSD Date Extracted: N/A		
Parameters:	Spike Sample MS MS MSD MSD RPD Rec			
1,1-DICHLOROETHENE	Added Conc Conc %Rec Conc %Rec RPD Lmts			
TRICHLOROETHENE	50 <1 56 112 58 116 4 8 78-122			
BENZENE	50 <1 54 108 59 118 9 20 73-125			
TOLUENE	50 <1 52 104 49 98 6 11 82-120			
CHLOROBENZENE	50 <5 52 104 49 98 6 14 77-125			
	50 <1 52 104 50 100 4 13 86-128			
Surrogates:				
BROMOFLUOROBENZENE (PID)		103	101	70-130
BROMOFLUOROBENZENE (ELCD)		88	119	70-130

Comments:

SPIKING COMPOUND LOT #01-VW26-01 PURCHASED FROM ULTRA SCIENTIFIC
 INTERNAL STANDARD LOT #01-VW27-01 PURCHASED FROM ACCUSTANDARD

Notes:

N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
 UG/L = PARTS PER BILLION. < = LESS THAN REPORTING LIMIT.
 * = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
 SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE
 PROGRAM AND REFERENCED METHOD.

[0] Page 10
Date 01-Apr-94

Title: Water Matrix
Batch: PHW048
Analysis Method: 8010/8020 / SW 846, 3rd Edition, September 1986 and Rev. 1, July 1992
Extraction Method: N/A

"QC Report"

Dry Weight %: N/A
Sample Spiked: 403561-1

MS Date Analyzed: 31-MAR-94 MSD Date Analyzed: 31-MAR-94 MS Date Extracted: N/A MSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	MS Conc	MS %Rec	MSD Conc	MSD %Rec	RPD	Rec Lmts
1,1-DICHLOROETHENE	50	<1	57	114	55	110	4	8 78-122
TRICHLOROETHENE	50	<1	52	104	55	110	6	20 73-125
BENZENE	50	<1	52	104	51	102	2	11 82-120
TOLUENE	50	<5	50	100	50	100	0	14 77-125
CHLOROBENZENE	50	<1	50	100	49	98	2	13 86-128

Surrogates:

BROMOFLUOROBENZENE (PID)	96	96	70-130
BROMOFLUOROBENZENE (ELCD)	94	106	70-130

Comments:

SPIKING COMPOUND LOT #01-VW26-01 PURCHASED FROM ULTRA SCIENTIFIC
INTERNAL STANDARD LOT #01-VW27-01 PURCHASED FROM ACCUSTANDARD

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
UG/L = PARTS PER BILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE
PROGRAM AND REFERENCED METHOD.

[0] Page 11
Date 01-Apr-94

Common notation for Organic reporting

N/S = NOT SUBMITTED

N/A = NOT APPLICABLE

D = DILUTED OUT

UG/L = PARTS PER BILLION.

UG/KG = PARTS PER BILLION.

MG/KG = PARTS PER MILLION.

MG/L = PARTS PER MILLION.

< = LESS THAN DETECTION LIMIT.

* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS

SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

ORGANIC SOILS ARE REPORTED ON A DRY WEIGHT BASIS.

** COMPOUNDS FLAGGED IN METHOD ARE NOT WITHIN THE FIVE POINT CURVE. THEY ARE SEARCHED FOR QUALITATIVELY.

ND = NOT DETECTED ABOVE REPORTING LIMIT.

SR-SHELLEY REAMSMA

MLP-MELISSA POPE

TSH-TRICIA HOLSTON

LKD-LEIGH DUVALL

MM-MIKE MCKENZIE

KWS-KENDALL SMITH

KKS-KIMBERLY SMITH

GF-GREG FOOTE

NC-NICOLE CALL

JP-JOSEPH POPE

JA-JENNIFER ALEXANDER

HB-HEATHER BIANCALANA

F PEGGY A. MALOUIN

M MARIE CLAUDIA WALTON

SB-SHARON BRADDOCK

PROJECT SAMPLE INSPECTION FORM

Accession #: 403437

Date received: 17-MAR-94

- | | | | | | |
|---|--------------------------------------|----|--|--------------------------------------|---------------------------|
| 1. Was there a Chain of Custody? | <input checked="" type="radio"/> YES | NO | 7. Are samples correctly preserved for analysis required? | <input checked="" type="radio"/> YES | NO |
| 2. Was Chain of Custody properly relinquished? | <input checked="" type="radio"/> YES | NO | 8. Is there sufficient volume for analysis requested? | <input checked="" type="radio"/> YES | NO |
| 3. Were samples received cold? (At 4° or on ice) | <input checked="" type="radio"/> YES | NO | 9. Were samples received within holding time? | <input checked="" type="radio"/> YES | NO |
| 4. Were all containers properly labeled and identified? | <input checked="" type="radio"/> YES | NO | 10. Was there headspace greater than ¼" in diameter in volatile bottles? | <input checked="" type="radio"/> YES | <input type="radio"/> NO |
| 5. Were samples received in proper containers for analysis requested? | <input checked="" type="radio"/> YES | NO | 11. If sent, were matrix spike bottles returned? | <input checked="" type="radio"/> YES | NO |
| 6. Were all sample containers received intact? | <input checked="" type="radio"/> YES | NO | | | <input type="radio"/> N/A |

Tracking Number: 9010555034 Shipped By: FEDEX

Cooler Number: N/S

Out of Control Events and Inspection Comments:

TRIP BLANK NOT LISTED ON C.O.C.

Inspected By: af Date: 3/17/94 Logged By: af Date: 3/17/94

403437

TAMPA SAMPLE INSPECTION FORM

Accession #: 9418-1111 Sparx Klein

Date received: 31.3.94

- | | | | | | | | |
|----|--|---|----|-----|--|---|----------|
| 1. | Was there a Chain of Custody? | <input checked="" type="checkbox"/> YES | NO | 7. | Are samples correctly preserved for analysis required? | <input checked="" type="checkbox"/> YES | NO |
| 2. | Was Chain of Custody properly relinquished? | <input checked="" type="checkbox"/> YES | NO | 8. | Is there sufficient volume for analysis requested? | <input checked="" type="checkbox"/> YES | NO |
| 3. | Were samples received cold? (At 4° or on ice) | <input checked="" type="checkbox"/> YES | NO | 9. | Were samples received within holding time? | <input checked="" type="checkbox"/> YES | NO |
| 4. | Were all containers properly labeled and identified? | <input checked="" type="checkbox"/> YES | NO | 10. | Was there headspace greater than 1/4" in diameter in volatile bottles? | YES | (NO) N/A |
| 5. | Were samples received in proper containers for analysis requested? | <input checked="" type="checkbox"/> YES | NO | 11. | If sent, were matrix spike bottles returned? | YES | NO (N/A) |
| 6. | Were all sample containers received intact? | <input checked="" type="checkbox"/> YES | NO | | | | |

Tracking Number: LP 94-259

Shipped By:

Cooler Number:

Out of Control Events and Inspection Comments:

Inspected By: [Signature]

Date: 3/16/92

CHAIN OF CUSTODY

ATI LAB. I.D. # 4113437





Analytical **Technologies**, Inc.

11 EAST OLIVE ROAD

PHONE (904) 474-1001

PENSACOLA, FLORIDA 32512

LP.94-259

PART 1 — Bottle Shipment Information

PART 2 — Sample Information

SAMPLE MATRIX

DW DRINKINGWATER
WW WASTEWATER
GW GROUNDWATER
SW SURFACEWATER
SO SOIL

OL OIL
AR AIR
SL SLUDGE

PARAMETERS AND PRESERVATIVES

RELINQUISHED BY

DISMISSED BY:	DATE	TIME	RECEIVED BY:	CONTAINERS	DATE	TIME
R. MODIER	3/7	1600	Steve Miller		3/16	1601
Stew Miller	3/16	1447	Jim Gross		3/16	1500
Jim Gross	3/16	1530				

APPENDIX C.3

Soil Vapor Influent and Effluent Analyses

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

3712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B4-30425

Received: 16 MAR 94

Mr. Rick Stebnisky
Environmental Consulting & Technology
5405 Cypress Center Dr., Suite 200
Tampa, FL 33609

Project: 94118-1111/Safety Kleen
Sampled By: Client

REPORT OF RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION , AIR SAMPLES	DATE SAMPLED	
30425-1	031694 VES INF	03-16-94	
30425-2	031694 VES EFF	03-16-94	
PARAMETER		30425-1	30425-2
Volatiles			
Benzene, mg/m ³		<2.0	<2.0
Toluene, mg/m ³		<2.0	<2.0
Ethylbenzene, mg/m ³		<2.0	<2.0
m&p-Xylene, mg/m ³		<2.0	<2.0
o-Xylene, mg/m ³		<2.0	<2.0
Methyl-Tert-Butyl-Ether (MTBE), mg/m ³		<2.0	<2.0
Total Hydrocarbons, mg/m ³		2100	<2.0

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B4-30425

Received: 16 MAR 94

Mr. Rick Stebnisky
Environmental Consulting & Technology
5405 Cypress Center Dr., Suite 200
Tampa, FL 33609

Project: 94118-1111/Safety Kleen
Sampled By: Client

REPORT OF RESULTS

Page 2

LOG NO SAMPLE DESCRIPTION , QC REPORT FOR AIR SAMPLES

30425-3 Lab Blank
30425-4 Accuracy (% Recovery)
30425-5 Precision (% RPD)
30425-6 Date Analyzed

PARAMETER	30425-3	30425-4	30425-5	30425-6
Volatiles				
Benzene, mg/m ³	<2.0	99 %	0 %	03.18.94
Toluene, mg/m ³	<2.0	96 %	9.4 %	03.18.94
Ethylbenzene, mg/m ³	<2.0	92 %	5.4 %	03.18.94
m&p-Xylene, mg/m ³	<2.0	78 %	2.6 %	03.18.94
o-Xylene, mg/m ³	<2.0	85 %	9.4 %	03.18.94
Methyl-Tert-Butyl-Ether (MTBE), mg/m ³	<2.0	---	---	03.18.94
Total Hydrocarbons, mg/m ³	<2.0	---	---	03.18.94

Method: EPA 600/4-77-027B
HRS Certification #'s: 87412, E87355

Kathy Sheffield
Kathy Sheffield

SL SAVANNAH LABORATORIES
ENVIRONMENTAL SERVICES, INC.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

- 5102 LaRoche Avenue, Savannah, GA 31404
- 2846 Industrial Plaza Drive, Tallahassee, FL 32301
- 414 Southwest 12th Avenue, Deerfield Beach, FL 33442
- 900 Lakeside Drive, Mobile, AL 36693
- 6712 Benjamin Road, Suite 100, Tampa, FL 33634

Phone: (912) 354-7858
Fax (912) 352-0165
ax (904) 878-9504
Phone: (304) 421-7400
Fax (305) 421-2584
Phone: (205) 666-6633
Fax (205) 666-6696
Phone: (813) 885-7427
Fax (813) 885-7049

Tax (912) 352-0165
ax (904) 878-9504
Phone: (305) 421-2584
Fax (205) 666-6696
Phone: (813) 885-7049

I.O. NUMBER	PROJECT NUMBER	PROJECT NAME	MATRIX TYPE										PAGE	OF					
CLIENT NAME		TELEPHONE/FAX NO.		REQUIRED ANALYSES															
CLIENT ADDRESS		CITY, STATE, ZIP CODE												<input checked="" type="checkbox"/> STANDARD TAT <input type="checkbox"/> EXPEDITED TAT *					
AMPLER(S) NAME(S)		CLIENT PROJECT MANAGER												REPORT DUE DATE					
Steve Miller		84118-111 RICK STERNISKY												* SUBJECT TO RUSH FEES					
SAMPLING		SAMPLE IDENTIFICATION		NUMBER OF CONTAINERS SUBMITTED															
3/16	1355	031694 DES INF		X	1	1	1												
↓	1350	031694 DES EFF		X	1	1	1												
LINQUISHED BY: (SIGNATURE)		RECEIVED BY: (SIGNATURE)		DATE		TIME		RELINQUISHED BY: (SIGNATURE)		DATE		TIME		RECEIVED BY: (SIGNATURE)		DATE		TIME	
EMPTY BOTTLES		Steve Miller		3/2/94		1020		Steve Miller		3/7		1600		Steve Miller		3/16		1451	
RECEIVED BY: (SIGNATURE)		RELINQUISHED BY: (SIGNATURE)		DATE		TIME		RECEIVED BY: (SIGNATURE)		DATE		TIME		RELINQUISHED BY: (SIGNATURE)		DATE		TIME	
M. Lewis				3/16/94		1451													
FOR SAVANNAH LABORATORY USE ONLY																			
RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE		TIME		CUSTODY INTACT		CUSTODY SEAL NO.		LABORATORY REMARKS									
John W. Miller		3/16/94		1500		<input checked="" type="checkbox"/> YES		<input type="checkbox"/> NO		B-30425									

ORIGINAL

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B4-30303

Received: 24 FEB 94

Mr. Rick Stebnisky
Environmental Consulting & Technology
5405 Cypress Center Dr., Suite 200
Tampa, FL 33609

Project: 94080-1111/Safety Kleen
Sampled By: Client

REPORT OF RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION , AIR SAMPLES	DATE SAMPLED
30303-1	022494 VES EFF	02-24-94
30303-2	022494 VES INF	02-24-94
PARAMETER		30303-1 30303-2
Volatiles		
Benzene, mg/m ³		<2.0 <2.0
Toluene, mg/m ³		<2.0 <2.0
Ethylbenzene, mg/m ³		<2.0 <2.0
m&p-Xylene, mg/m ³		<2.0 <2.0
o-Xylene, mg/m ³		<2.0 <2.0
Methyl-Tert-Butyl-Ether (MTBE), mg/m ³		<2.0 <2.0
Total Hydrocarbons, mg/m ³		<2.0 1800

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B4-30303

Received: 24 FEB 94

Mr. Rick Stebnisky
Environmental Consulting & Technology
5405 Cypress Center Dr., Suite 200
Tampa, FL 33609

Project: 94080-1111/Safety Kleen
Sampled By: Client

REPORT OF RESULTS

Page 2

LOG NO SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES

30303-3 Lab Blank
30303-4 Accuracy (% Recovery)
30303-5 Precision (% RPD)
30303-6 Date Analyzed

PARAMETER	30303-3	30303-4	30303-5	30303-6
Volatiles				
Benzene, mg/m ³	<2.0	91 %	6.6 %	02.25.94
Toluene, mg/m ³	<2.0	124 %	2.4 %	02.25.94
Ethylbenzene, mg/m ³	<2.0	104 %	2.9 %	02.25.94
m&p-Xylene, mg/m ³	<2.0	113 %	0 %	02.25.94
o-Xylene, mg/m ³	<2.0	91 %	1.1 %	02.25.94
Methyl-Tert-Butyl-Ether (MTBE), mg/m ³	<2.0	---	---	02.25.94
Total Hydrocarbons, mg/m ³	<2.0	---	---	02.25.94

Method: EPA 600/4-77-027B

HRS Certification #'s:84385,87279,E84282,E87052

Kathy Sheffield
Kathy Sheffield

Final Page Of Report

Laboratory locations in Savannah, GA • Tallahassee, FL • Mobile, AL • Deerfield Beach, FL • Tampa, FL

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

- 5102 LaRoche Avenue, Savannah, GA 31404
- 2846 Industrial Plaza Drive, Tallahassee, FL 32301
- 414 Southwest 12th Avenue, Deerfield Beach, FL 33442
- 900 Lakeside Drive, Mobile, AL 36693
- 6712 Benjamin Road, Suite 100, Tampa, FL 33634

Phone: (912) 354
Phone: (904) 878-354
Phone: (305) 421-7400
Phone: (205) 666-6633
Phone: (813) 885-7427

DO NUMBER	PROJECT NUMBER	PROJECT NAME	REQUIRED ANALYSES										PAGE	O				
CLIENT NAME	94080-111	Safety Kleen																
CLIENT ADDRESS	TELEPHONE/FAX NO.																	
CLIENT(S) NAME(S)		CLIENT PROJECT MANAGER																
STEVEN L. MILLER		RICK STEENISKY																
SAMPLING		SAMPLE IDENTIFICATION		AQUEOUS MATRIX	NONAQUEOUS MATRIX	OIL MATRIX	AIR MATRIX	BTEX	MTBE	TTC								
DATE	TIME	NUMBER OF CONTAINERS SUBMITTED													REPORT DUE DATE			
1/24	1040	000494 UES EFF													X 1 1 1			
1/24	1042	000494 UES INF													X 1 1 1			
																* SUBJECT TO RUSH FEES		
LINQUISHED BY: (SIGNATURE) <i>Empty Bottles</i>			DATE	TIME	RECEIVED BY: (SIGNATURE) <i>Steve L Miller</i>			DATE	TIME	RELINQUISHED BY: (SIGNATURE) <i>Steve L Miller</i>			DATE	TIME				
DETERED BY: (SIGNATURE) <i>Hushleison</i>			DATE	TIME	RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED BY: (SIGNATURE)			DATE	TIME				
FOR SAVANNAH LABORATORY USE ONLY																LABORATORY REMARKS		
RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>J. M. Jones</i>			DATE	TIME	CUSTODY INTACT		CUSTODY SEAL NO.		S/L LOG NO.									
			2/24/94	1200	<input checked="" type="checkbox"/> YES		<input type="checkbox"/> NO		B430303									

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

3712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B4-30256

Received: 16 FEB 94

Mr. Rick Stebnisky
Environmental Consulting & Technology
5405 Cypress Center Dr., Suite 200
Tampa, FL 33609

Project: 93257-1111/Safety Kleen
Sampled By: Client

REPORT OF RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION , AIR SAMPLES	DATE SAMPLED	
PARAMETER		30256-1	30256-2
30256-1	021694 VES EFF	02-16-94	
30256-2	021694 VES INF	02-16-94	
Volatile Organics (EPA 18)			
Benzene, mg/m ³		<2.0	<2.0
Toluene, mg/m ³		<2.0	<2.0
Ethylbenzene, mg/m ³		<2.0	<2.0
m&p-Xylene, mg/m ³		<2.0	<2.0
o-Xylene, mg/m ³		<2.0	<2.0
Methyl-Tert-Butyl-Ether (MTBE), mg/m ³		<2.0	<2.0
Hydrocarbons, mg/m ³		<2.0	1900

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B4-30256

Received: 16 FEB 94

Mr. Rick Stebnisky
Environmental Consulting & Technology
5405 Cypress Center Dr., Suite 200
Tampa, FL 33609

Project: 93257-1111/Safety Kleen
Sampled By: Client

REPORT OF RESULTS

Page 2

LOG NO SAMPLE DESCRIPTION , QC REPORT FOR AIR SAMPLES

30256-3 Lab Blank
30256-4 Accuracy (% Recovery)
30256-5 Precision (% RPD)
30256-6 Date Analyzed

PARAMETER	30256-3	30256-4	30256-5	30256-6
Volatile Organics (EPA 18)				
Benzene, mg/m ³	<2.0	121 %	17 %	02.17.94
Toluene, mg/m ³	<2.0	120 %	13 %	02.17.94
Ethylbenzene, mg/m ³	<2.0	112 %	17 %	02.17.94
m&p-Xylene, mg/m ³	<2.0	93 %	15 %	02.17.94
o-Xylene, mg/m ³	<2.0	110 %	10 %	02.17.94
Methyl-Tert-Butyl-Ether (MTBE), mg/m ³	<2.0	---	---	02.17.94
Hydrocarbons, mg/m ³	<2.0	---	---	02.17.94

Method: EPA 600/4-77-027B

HRS Certification #'s:84385,87279,E84282,E87052

Kathy Sheffield
Kathy Sheffield

Final Page Of Report

Laboratory locations in Savannah, GA • Tallahassee, FL • Mobile, AL • Deerfield Beach, FL • Tampa, FL



SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

- | | | |
|---|-----------------------|--------------------|
| <input type="checkbox"/> 5102 LaRoche Avenue, Savannah, GA 31404 | Phone: (912) 354-7858 | Fax (912) 352-0165 |
| <input type="checkbox"/> 2846 Industrial Plaza Drive, Tallahassee, FL 32301 | Phone: (904) 878-3994 | Fax (904) 878-9504 |
| <input type="checkbox"/> 414 Southwest 12th Avenue, Deerfield Beach, FL 33442 | Phone: (305) 421-7400 | Fax (305) 421-2584 |
| <input type="checkbox"/> 900 Lakeside Drive, Mobile, AL 36693 | Phone: (205) 666-6633 | Fax (205) 666-6696 |
| <input type="checkbox"/> 6712 Benjamin Road, Suite 100, Tampa, FL 33634 | Phone: (813) 885-7427 | Fax (813) 885-7049 |

P.O. NUMBER	PROJECT NUMBER	PROJECT NAME	REQUIRED ANALYSES										PAGE	OF	
	93257-1111	SAFETY KLEEN													
CLIENT NAME	ECT	TELEPHONE/FAX NO.											<input type="checkbox"/>	STANDARD TAT	
CLIENT ADDRESS	CITY, STATE, ZIP CODE												<input type="checkbox"/>	EXPEDITED TAT *	
SAMPLER(S) NAME(S)	CLIENT PROJECT MANAGER												REPORT DUE DATE		
STEVEN L. MILLER	RICK STEBNISKY														
SAMPLING	SAMPLE IDENTIFICATION												* SUBJECT TO RUSH FEES		
DATE	TIME	NUMBER OF CONTAINERS SUBMITTED													
2/16	1340	031694 VES EFF		X	1	1	1								
2/16	1342	031694 VES INF		X	1	1	1								
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME				
B. M. EMTX BOTTLES		2/15/94	1345	Steven L. Miller		2/15	1345	Steven L. Miller		2/16	14:20				
RECEIVED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME				
B. M. EMTX BOTTLES		2-16-94	1420												
FOR SAVANNAH LABORATORY USE ONLY												LABORATORY REMARKS			
RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	S.L. LOG NO.									
B. M. EMTX BOTTLES		2-16-94	1420	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	B430256									

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B4-30204

Received: 09 FEB 94

Mr. Rick Stebnisky
Environmental Consulting & Technology
5405 Cypress Center Dr., Suite 200
Tampa, FL 33609

Project: 93257-1111/Safety Kleen
Sampled By: Client

REPORT OF RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION , AIR SAMPLES	DATE SAMPLED	
30204-1	020994 VES INF	02-09-94	
30204-2	020994 VES EFF	02-09-94	
PARAMETER		30204-1	30204-2
Volatile Organics (EPA 18)			
Benzene, mg/m ³		<2.0	<2.0
Toluene, mg/m ³		<2.0	<2.0
Ethylbenzene, mg/m ³		<2.0	<2.0
m&p-Xylene, mg/m ³		<2.0	<2.0
o-Xylene, mg/m ³		<2.0	<2.0
Methyl-Tert-Butyl-Ether (MTBE), mg/m ³		<2.0	<2.0
Hydrocarbons, mg/m ³		2800	<2.0

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

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LOG NO: B4-30204

Received: 09 FEB 94

Mr. Rick Stebnisky
Environmental Consulting & Technology
5405 Cypress Center Dr., Suite 200
Tampa, FL 33609

Project: 93257-1111/Safety Kleen
Sampled By: Client

REPORT OF RESULTS

Page 2

LOG NO SAMPLE DESCRIPTION , QC REPORT FOR AIR SAMPLES

30204-3 Lab Blank
30204-4 Accuracy (% Recovery)
30204-5 Precision (% RPD)
30204-6 Date Analyzed

PARAMETER	30204-3	30204-4	30204-5	30204-6
Volatile Organics (EPA 18)				
Benzene, mg/m ³	<2.0	146 %	17 %	02.11.94
Toluene, mg/m ³	<2.0	143 %	17 %	02.11.94
Ethylbenzene, mg/m ³	<2.0	123 %	6.8 %	02.11.94
m&p-Xylene, mg/m ³	<2.0	119 %	14 %	02.11.94
o-Xylene, mg/m ³	<2.0	138 %	10 %	02.11.94
Methyl-Tert-Butyl-Ether (MTBE), mg/m ³	<2.0	---	---	02.11.94
Hydrocarbons, mg/m ³	<2.0	---	---	02.11.94

Method: EPA 600/4-77-027B

HRS Certification #'s:84385,87279,E84282,E87052


Kathy Sheffield

Final Page Of Report

Laboratory locations in Savannah, GA • Tallahassee, FL • Mobile, AL • Deerfield Beach, FL • Tampa, FL



SAVANNAH LABORATORIES

ENVIRONMENTAL SERVICES, INC.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

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 - 900 Lakeside Drive, Mobile, AL 36693
 - 6712 Benjamin Road, Suite 100, Tampa, FL 33634

Phone: (912) 354-7851
Phone: (904) 878-3994
2 Phone: (305) 421-7400
Phone: (205) 666-6633
Phone: (813) 885-7421

fax (912) 352-0165
.x (904) 878-9504
Fax (305) 421-2584
Fax (205) 666-6696
Fax (813) 895-7049

ORIGINAL

UNQUISHED BY: (SIGNATURE) 3. EMPT BOTTLES	DATE 1/31/94	TIME 1300	RECEIVED BY: (SIGNATURE) Steve Miller/ECT	DATE 2/2/94	TIME 0900	RELINQUISHED BY: (SIGNATURE) Steve Miller/ECT	DATE 2/9	TIME 1336
REMOVED BY: (SIGNATURE) This file is	DATE 2/9/94	TIME 1336	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
FOR SAVANNAH LABORATORY USE ONLY					LABORATORY REMARKS per Steve Miller 2-9-94, v&s			
RECEIVED FOR LABORATORY BY: (SIGNATURE) Delynn Miller	DATE 2-9-94	TIME 1435	CUSTODY INTACT <input checked="" type="checkbox"/> YES	CUSTODY SEAL NO.	S.I. LOG NO. B430204			

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

3712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B4-30149

Received: 28 JAN 94

Mr. Rick Stebnisky
Environmental Consulting & Technology
5405 Cypress Center Dr., Suite 200
Tampa, FL 33609

Project: 93257-1111/Safety Kleen
Sampled By: Client

REPORT OF RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION , AIR SAMPLES	DATE SAMPLED
30149-1	0128 VES INF	01-28-94
30149-2	0128 VES EFF	01-28-94
PARAMETER		30149-1 30149-2
Volatile Organics (EPA 18)		
Benzene, mg/m ³	<2.0	<2.0
Toluene, mg/m ³	<2.0	<2.0
Ethylbenzene, mg/m ³	<2.0	<2.0
m&p-Xylene, mg/m ³	<2.0	<2.0
o-Xylene, mg/m ³	<2.0	<2.0
Methyl Tert Butyl Ether (MTBE), mg/m ³	<2.0	<2.0
Hydrocarbons, mg/m ³	2200	9.9

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

5712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B4-30149

Received: 28 JAN 94

Mr. Rick Stebnisky
Environmental Consulting & Technology
5405 Cypress Center Dr., Suite 200
Tampa, FL 33609

Project: 93257-1111/Safety Kleen
Sampled By: Client

REPORT OF RESULTS

Page 2

LOG NO SAMPLE DESCRIPTION , QC REPORT FOR AIR SAMPLES

30149-3 Lab Blank
30149-4 Accuracy (% Recovery)
30149-5 Precision (% RPD)
30149-6 Date Analyzed

PARAMETER	30149-3	30149-4	30149-5	30149-6
Volatile Organics (EPA 18)				
Benzene, mg/m ³	<0.20	84 %	1.2 %	01.31.94
Toluene, mg/m ³	<0.20	83 %	1.2 %	01.31.94
Ethylbenzene, mg/m ³	<0.20	98 %	2.0 %	01.31.94
m&p-Xylene, mg/m ³	<0.20	113 %	2.7 %	01.31.94
o-Xylene, mg/m ³	<0.20	90 %	2.2 %	01.31.94
Methyl Tert Butyl Ether (MTBE), mg/m ³	<0.20	---	---	01.31.94
Hydrocarbons, mg/m ³	<0.20	---	---	01.31.94

Method: EPA 600/4-77-027B
HRS Certification #'s:84385,87279,E84282,E87052

Kathy Sheffield
Kathy Sheffield

Final Page Of Report

Laboratory locations in Savannah, GA • Tallahassee, FL • Mobile, AL • Deerfield Beach, FL • Tampa, FL

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

- 5102 LaRoche Avenue, Savannah, GA 31404
- 2846 Industrial Plaza Drive, Tallahassee, FL 32301
- 414 Southwest 12th Avenue, Deerfield Beach, FL 33442
- 900 Lakeside Drive, Mobile, AL 36693
- 6712 Benjamin Road, Suite 100, Tampa, FL 33634

- Phone: (912) 354-7858
Fax (912) 352-0165
- Phone: (904) 878-3994
Fax (904) 878-9504
- Phone: (305) 421-7400
Fax (305) 421-2584
- Phone: (205) 666-6633
Fax (205) 666-6696
- Phone: (813) 885-7427
Fax (813) 885-7049

DO NUMBER	PROJECT NUMBER	PROJECT NAME	MATRIX TYPE	REQUIRED ANALYSES										PAGE	OF	
	93257-1111	SAFETY KLEEN												1	1	
CLIENT NAME		TELEPHONE/FAX NO.											<input checked="" type="checkbox"/> STANDARD TAT <input type="checkbox"/> EXPEDITED TAT *			
ECT																
CLIENT ADDRESS		CITY, STATE, ZIP CODE														
AMPLER(S) NAME(S)		CLIENT PROJECT MANAGER											REPORT DUE DATE _____			
STEVE MILLER		RICK STEBNISKY											* SUBJECT TO RUSH FEES			
SAMPLING	SAMPLE IDENTIFICATION											NUMBER OF CONTAINERS SUBMITTED				
DATE	TIME	0128 15:00		0128 VES INF	<input checked="" type="checkbox"/>	1										
DATE	TIME	0128 15:01		0128 VES EFF	<input checked="" type="checkbox"/>	1										
ELINQUISHER BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)	1-28 1415		DATE	TIME	RELINQUISHED BY: (SIGNATURE)	1-28 15:30		DATE	TIME			
EMPTY BOTTLES				Steven L Miller					Steven L Miller							
RECEIVED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED BY: (SIGNATURE)			DATE	TIME			
<i>Holly C. Miller</i>		1-28-94	15:20													
FOR SAVANNAH LABORATORY USE ONLY														LABORATORY REMARKS		
RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	S.L. LOG NO.	Run BTEX / MTBE and total hydrocarbons only, per Rick Stebnisky									
<i>Dale C. Miller</i>		1-28-94	15:30	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	13430149										

Appendix D



Environmental Consulting & Technology, Inc.

APPENDIX D

OPERATION AND MAINTENANCE INSPECTION LOGS

OPERATION AND MAINTENANCE DATA SHEET

Safety Kleen Facility
4701 North Manhattan Avenue

Date: 01-27-94
Time Arrive Site: 11:45 17:00
Time Depart Site: 1400 18:45

STATUS UPON ARRIVAL

GTWS

Meter Reading: 71669 gal
System: On N/A Off ✓

Flow Rate: N/A Cause: Flow rates not adjusted

Solids Filter 1 Pressure: N/A

Solids Filter 2 Pressure: N/A

Air Compressor Pressure Setting At: 100-150 psi

Line Pressure At: 70-80 psi Corrective Action:

RW-1 Regulator At: 55 psi

RW-2 Regulator At: 55 psi

*System Sampled: Yes No

VES

On ✓ Off _____

Vacuum Pressure: Cause:

Blower: N/A " Hg

VEL 1: " H₂O

VEL 2: " H₂O

VEL 3: " H₂O Corrective Action:

VEL 4: " H₂O

OVA Reading: unfil - fil = total

Influent N/A → 6500 - 4500 = 2000

Effluent N/A → 100 - 80 = 20

*System Sampled: Yes No

STATUS UPON DEPARTURE

✓ Same as Arrival

The following adjustments were made:

Adjusted flow rate

MAINTENANCE

GTWS

Air Compressor*

Yes

No

Tank Drained:

Yes

No

Oil Changed:

Yes

No

Air Filter Cleaned:

Yes

No

Belts Okay:

Yes

No

Inspect Ground Water Pumps:

Yes

No

→ OKay

Solids Filters

#1 Changed:

Yes

No

#2 Changed:

Yes

No

VES

Blower*

Yes

No

Oil Changed:

Yes

No

Greased End Unit:

Yes

No

Greased Motor:

Yes

No

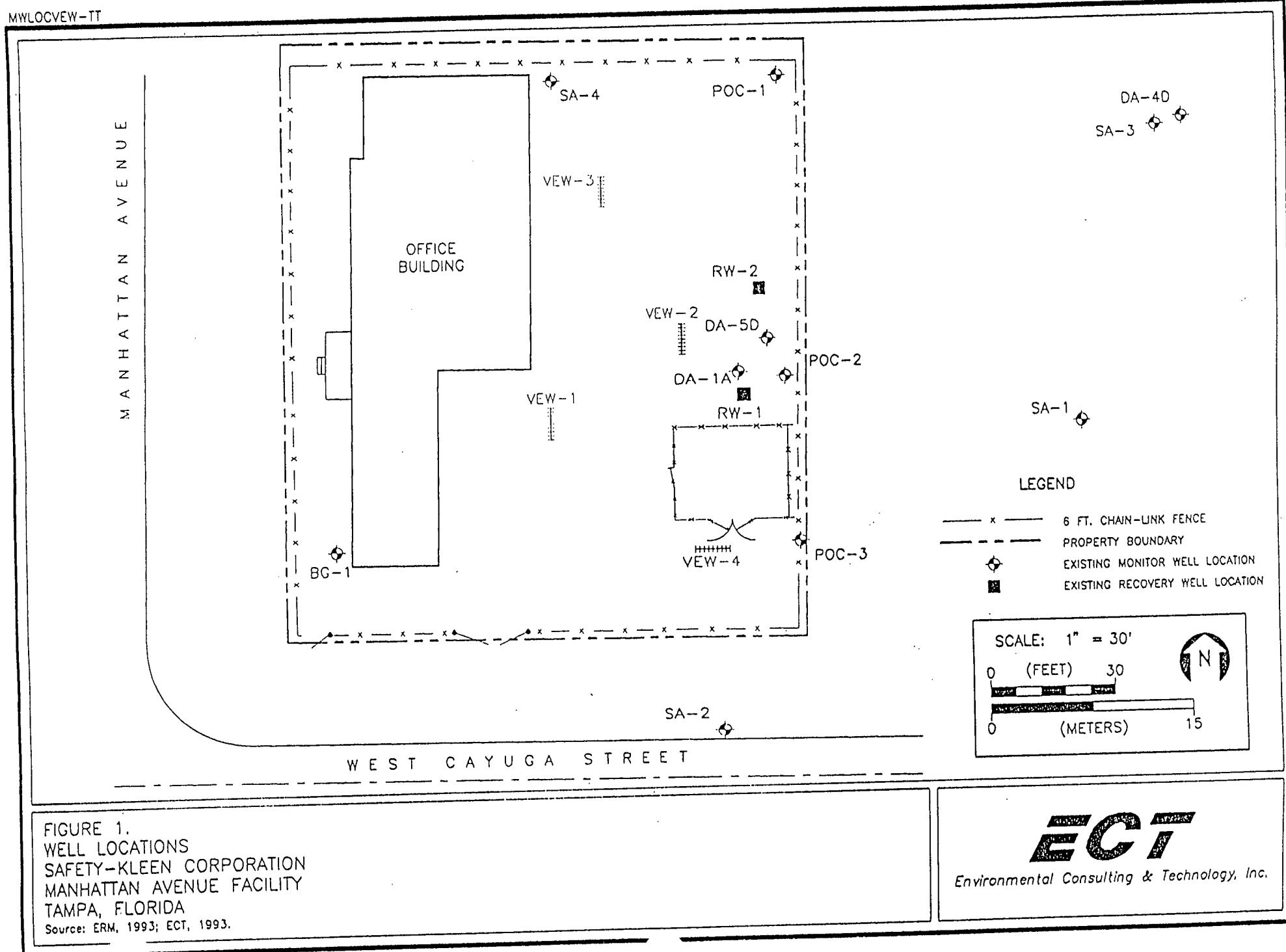
Belts Okay:

Yes

No

*See maintenance/sampling documents in onsite file container for more detail.

MWLOCVIEW-TT



OPERATION AND MAINTENANCE DATA SHEET

Safety Kleen Facility
4701 North Manhattan Avenue

Date: WED 2-09-94Time Arrive Site: 0845Time Depart Site: 1330

STATUS UPON ARRIVAL

GTWS

Meter Reading: 51699 gal
System: On _____

Off Flow Rate: 10 GPM

Cause:

Turned off at last visit because of filters clogging - no spares.

Solids Filter 1 Pressure: _____

Solids Filter 2 Pressure: 12Air Compressor Pressure Setting At: 100-140 psiLine Pressure At: 75-80 psiCorrective Action: New filters / and housing - for 90% efficiency filtersRW-1 Regulator At: 45-50 psiRW-2 Regulator At: 45-50 psi*System Sampled: Yes No

VES

On

Off _____

Vacuum Pressure:

Cause: _____

Blower: — " HgVEL 1: 2-8 "_{H₂O} PSIVEL 2: ~1 "_{H₂O} PSIVEL 3: 0,2 "_{H₂O} PSIVEL 4: ~4-8 "_{H₂O} PSI

Corrective Action: _____

OVA Reading: unfil - fil = total

Influent N/A - _____ = _____Effluent N/A - _____ = _____*System Sampled: Yes No

STATUS UPON DEPARTURE



Same as Arrival

The following adjustments were made:

New filter housing and filters

MAINTENANCE

GTWS

Air Compressor*

Tank Drained: Oil Changed: Air Filter Cleaned: Belts Okay: Inspect Ground Water Pumps:

Solids Filters

#1 Changed: #2 Changed:

VES

Blower*

Yes Oil Changed: Yes Greased End Unit: Yes Greased Motor: Yes Belts Okay: Yes

*See maintenance/sampling documents in onsite file container for more detail.

MWLOCVIEW-TT

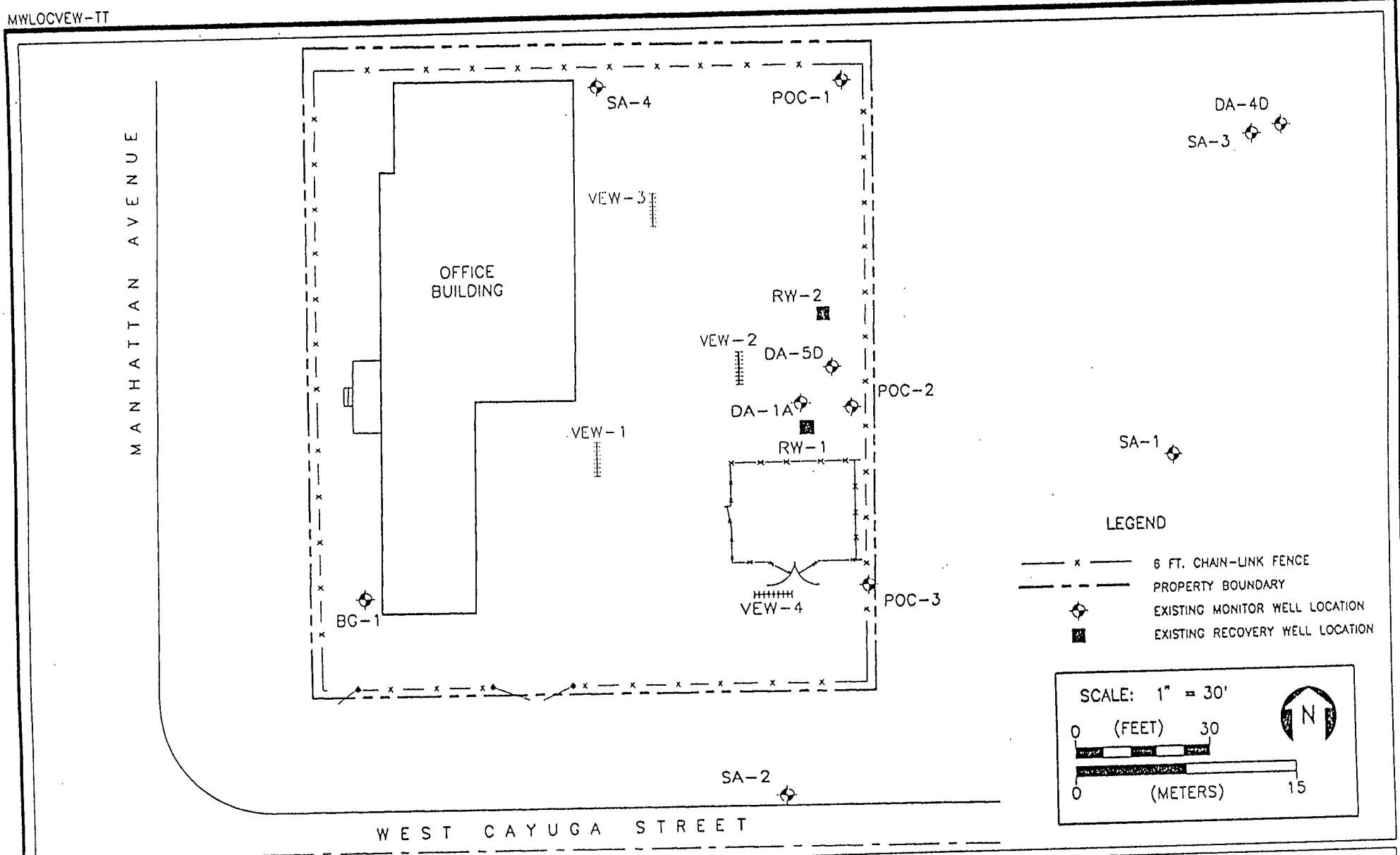


FIGURE 1.
WELL LOCATIONS
SAFETY-KLEEN CORPORATION
MANHATTAN AVENUE FACILITY
TAMPA, FLORIDA
Source: ERM, 1993; ECT, 1993.

ECT
Environmental Consulting & Technology, Inc.

OPERATION AND MAINTENANCE DATA SHEET

Safety Kleen Facility
4701 North Manhattan Avenue

Date: 3-01-94 TUES
Time Arrive Site: 0715
Time Depart Site: 0745

STATUS UPON ARRIVAL

GTWS

Meter Reading : 230 333 gal
System: On Off _____

NOTE:

Flow Rate: 7.5 GPM Cause: _____

Solids Filter 1 Pressure: N/A (NOT INSTALLED YET)

Solids Filter 2 Pressure: 78 PSI

Air Compressor Pressure Setting At: 100-140 psi

Line Pressure At: 75-80 psi Corrective Action: _____

RW-1 Regulator At: 150-55 # psi NOT CHECKED

RW-2 Regulator At: 150-55 # psi NOT CHECKED

*System Sampled: Yes No

Some overflow in transfer tank. Cut off probe extension needs to be longer to make switch operational. Will install later this week.

VES

On Off _____

Cause: _____

Vacuum Pressure: _____

Blower: N/A " Hg

VEL 1: _____ " H₂O

VEL 2: _____ " H₂O

VEL 3: _____ " H₂O

VEL 4: _____ " H₂O

Corrective Action: _____

OVA Reading: unfil - fil = total

Influent _____ - _____ = _____
Effluent _____ - _____ = _____

*System Sampled: Yes No

STATUS UPON DEPARTURE



Same as Arrival

The following adjustments were made:

Changed solids filter #2. Used a 50μm porosity filter cartridge.

MAINTENANCE

GTWS

Air Compressor*

Tank Drained: Yes No

Oil Changed: Yes No

Air Filter Cleaned: Yes No

Belts Okay: Yes No

Inspect Ground Water Pumps: Yes No

Solids Filters

#1 Changed: Yes No

#2 Changed: Yes No

Yes
Yes
Yes
Yes
Yes

No
No
No
No
No

VES

Blower*

Oil Changed: Yes No
Greased End Unit: Yes No
Greased Motor: Yes No
Belts Okay: Yes No

*See maintenance/sampling documents in onsite file container for more detail.

50μm used for replacement

MWLOCVEW-TT

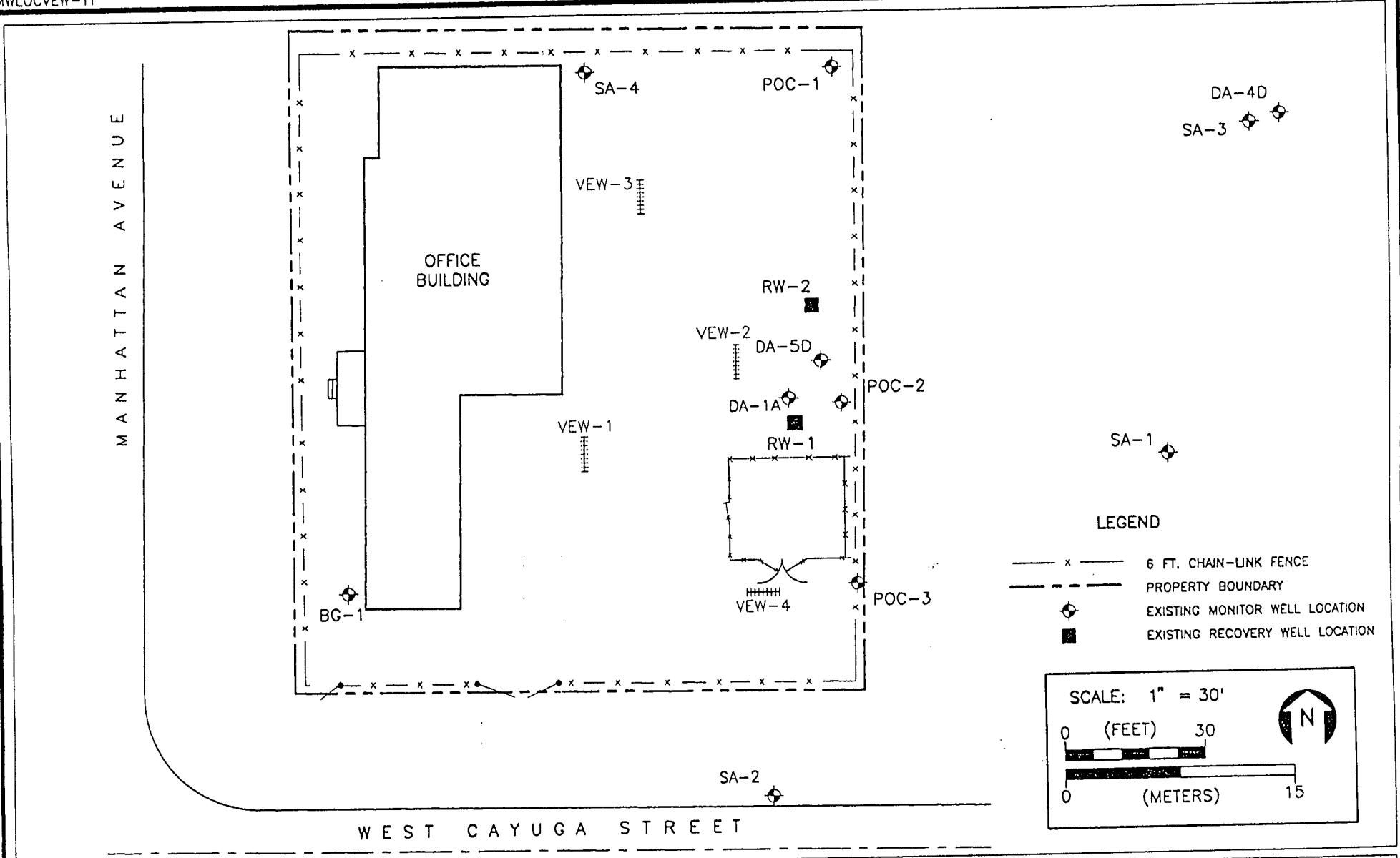


FIGURE 1.
WELL LOCATIONS
SAFETY-KLEEN CORPORATION
MANHATTAN AVENUE FACILITY
TAMPA, FLORIDA
Source: ERM, 1993; ECT, 1993.

OPERATION AND MAINTENANCE DATA SHEET

Safety Kleen Facility
4701 North Manhattan Avenue

Date: WED 3-16-94
Time Arrive Site: 1230
Time Depart Site: 1430

STATUS UPON ARRIVAL

GTWS

Meter Reading : 344335 gal

System: On Off _____

Flow Rate: ~8-10 Cause: _____

Solids Filter 1 Pressure: _____

Solids Filter 2 Pressure: 26 _____

Air Compressor Pressure Setting At: 100~150 psi

Line Pressure At: 75-80 psi

Corrective Action: _____

RW-1 Regulator At: 45-50 psi

RW-2 Regulator At: 45-50 psi

*System Sampled: Yes No

VES

On Off _____

Cause: _____

Vacuum Pressure: _____

Blower: ~8 " Hg

VEL 1: N/A " H₂O

VEL 2: _____ " H₂O

VEL 3: _____ " H₂O

VEL 4: N/A " H₂O

Corrective Action: _____

OVA Reading: unfil - fil = total

Influent

Effluent

N/A →

*System Sampled: Yes No

STATUS UPON DEPARTURE

Same as Arrival

The following adjustments were made:

MAINTENANCE

GTWS

Air Compressor*

Tank Drained: Yes No

Oil Changed: Yes No

Air Filter Cleaned: Yes No

Belts Okay: Yes No

Inspect Ground Water Pumps: Yes No

Solids Filters

#1 Changed: Yes No

#2 Changed: Yes No

VES

Blower*

Oil Changed: Yes No

Greased End Unit: Yes No

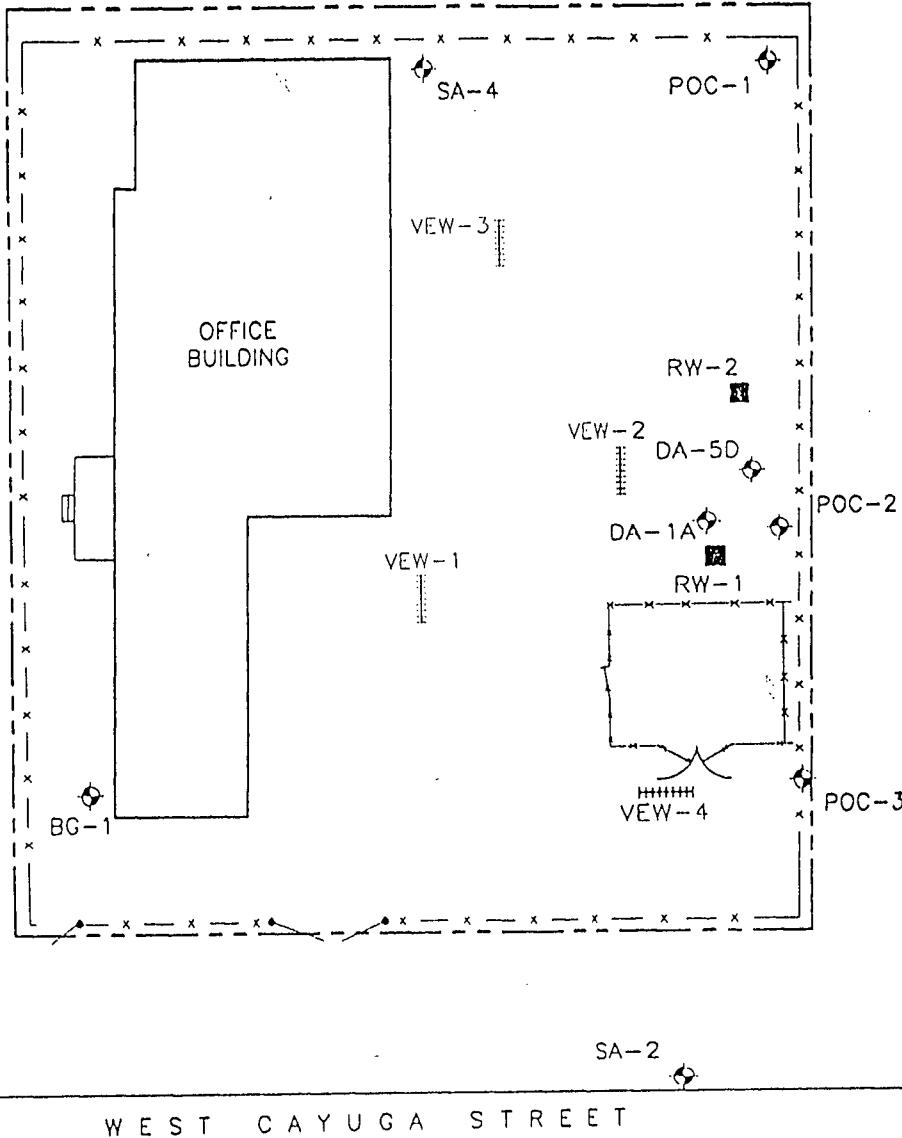
Greased Motor: Yes No

Belts Okay: Yes No

*See maintenance/sampling documents in onsite file container for more detail.

MWLOCVIEW-TT

MANHATTAN AVENUE



LEGEND

- x — 6 FT. CHAIN-LINK FENCE
- - - PROPERTY BOUNDARY
- ◆ EXISTING MONITOR WELL LOCATION
- EXISTING RECOVERY WELL LOCATION

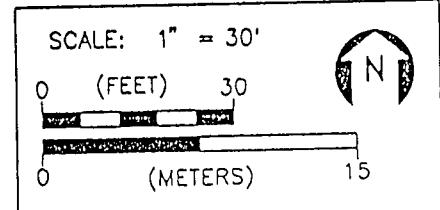


FIGURE 1.
 WELL LOCATIONS
 SAFETY-KLEEN CORPORATION
 MANHATTAN AVENUE FACILITY
 TAMPA, FLORIDA
 Source: ERM, 1993; ECT, 1993.

ECT

Environmental Consulting & Technology, Inc.