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SKINNER LANDFILL

West Chester, Butler County, Ohio

Remedial Design

Groundwater Design Investigation

Volume II of III

November 9, 1995

Prepared by:

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APPENDIX VIII

SDG Narrative

NARRATIVE DISCUSSION
VOLATILES - 22368, 22384, 22390, 22406
SDG SKIN4

INTRODUCTION

This narrative covers the analysis of twenty four (24) samples in accordance with protocols based on USEPA CLP (3/90).

HOLDING TIMES

The analytical holding time for this analysis was met.

CALIBRATIONS

All required minimum RRFs and maximum %RSD initial calibration requirements have been met in accordance with the Method.

All required minimum RRFs and maximum %D continuing calibration requirements have been met in accordance with the Method.

METHOD BLANKS

The method blanks associated with these samples did not contain any target compounds at or above QC limits.

The TICs identified as "Unknown Siloxane" are most probably due to column degradation and not sample constituency.

SURROGATES (SYSTEM MONITORING COMPOUNDS)

All surrogate recoveries met QC criteria.

MATRIX SPIKES

Sample SKGW38 was utilized in the MS/MSD series.
One (1) out of ten (10) spike recoveries fell outside advisory QC limits.

Zero (0) out of five (5) RPD values fell outside advisory QC limits.

INTERNAL STANDARDS

All area responses and retention times fell within acceptable ranges.

SAMPLE COMMENTS

Analysis of sample SKGWB5 yielded target analyte concentrations which exceeded the highest calibration standard. These compounds have been qualified "E". Reanalysis was performed at a dilution. Both sets of data are included. The concentrations of these compounds should be taken from the more dilute analysis.

The TICs identified as "Unknown Siloxane" are most probably due to column degradation and not sample constituency.

No other analytical problem were encountered.

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I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Remo Gigante, Exec. VP

SDG Narrative

NARRATIVE DISCUSSION
SEMIVOLATILES - 22368, 22384,
22390, 22406

SDG NO. SKIN4

INTRODUCTION

This narrative covers the analysis of eighteen (18) samples in accordance with protocols based on USEPA CLP (3/90).

HOLDING TIMES

The extraction and analytical holding times for this analysis were met.

CALIBRATIONS

All required minimum RRFs and maximum %RSD initial calibration requirements have been met in accordance with the method.

All required minimum RRFs and maximum %D continuing calibration requirements have been met in accordance with the method.

METHOD BLANKS

No target or non-target analytes were detected in the method blanks.

SURROGATES

All samples met surrogate QC criteria.

MATRIX SPIKES

Sample SKGW38 was utilized in the MS/MSD series. Six (6) out of twenty two (22) spike recoveries fell above the advisory QC limits. All RPD values fell within QC limits.

INTERNAL STANDARDS

All area responses and retention times fell within an acceptable range.

SAMPLE COMMENTS

The concentration of bis(2-Ethylhexyl)Phthalate exceeded the highest calibration standard in sample SKGW18. Reanalysis was performed at a dilution. Both sets of data are included. The concentration of this compound should be taken from the more dilute analysis.

No other analytical problems were encountered.

NARRATIVE DISCUSSION
PESTICIDES/PCBs - 22368, 22384, 22390 + 22406
SDG No.: SKIN4

INTRODUCTION

This narrative covers the analysis of eighteen (18) aqueous samples in accordance with protocols based on EPA Method 3/90.

HOLDING TIMES

The analytical holding time for this analysis was met.

CALIBRATIONS

The initial and continuing calibrations associated with these sample analyses met all QC criteria.

METHOD BLANKS

No target compounds were detected in the method blanks associated with these analyses.

SURROGATES

Samples SKGW25 and PBLK85 have DCB recovery above advisory QC limits on one column. Samples SKGW38 and SKGWFB have DCB recovery above advisory QC limits on both columns.

All other surrogate recoveries met QC criteria.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE (MS/MSD)

Sample SKGW38 was utilized for the MS/MSD. Eight (8) out of twelve (12) spike recoveries and all RPD values were within QC limits for the MS/MSD.

SAMPLES COMMENTS

All compounds reported were confirmed by second column analysis.

No further analytical problems were encountered.

NON-CONFORMANCE SUMMARY
(Case Narrative)

Login No.: 22368, 22384, 22390, 22406

The samples were analyzed according to the required protocols.

Please Note: Due to inconsistent readings and mislabeling at the time of analysis, sample's 2238401 and 2238402 (Total & Dissolved) were reanalyzed by ICP. All the raw data is provided.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Remo Gigante, Exec. VP

Volatile Organic Data Validation Summary
Skinner Landfill Site
West Chester, Ohio
Analytical Laboratory: NYTEST Environmental, Inc.
Sample Delivery Group SKIN4

Analytical results for fourteen (14) groundwater samples with matrix QC, two (2) field duplicates, two (2) field blanks and four (4) trip blanks from the Skinner Landfill site were reviewed to evaluate the data quality. Data were assessed in accordance with the United States Environmental Protection Agency (USEPA) **National Functional Guidelines for Organic Data Review** (Draft 12/90, Revised 6/91) and the USEPA Region II document **CLP Organics Data Review and Preliminary Review** (SOP No. HW-6, Revision No. 8, January, 1992), where applicable. This validation pertains to the following samples collected by Rust Environment & Infrastructure (RUST) personnel on October 25, 26, 27 and 28, 1994.

SK-GW06	**SK-GW25**	**SK-GW07R**	**TB10/25/94**
SK-GW09	**SK-GW26**	**SK-GWB5**	**TB10/26/94**
SK-GW10	**SK-GW28**	**SK-GWFD-01**	**TB10/27/94**
SK-GW11	**SK-GW30**	**SK-GWFD-02**	**TB10/28/94**
SK-GW17	**SK-GW31**	**SK-GWFB-01**	
SK-GW18	**SK-GW38**	**SK-GWFB-02**	

The following items/criteria applicable to the samples listed above were reviewed:

- Deliverable Requirements
- Case Narrative
- Holding Times
- System Monitoring Compound (SMC) Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Blank Summary and Data
- GC/MS Instrument Performance Check
- Target Compound Identification/Quantitation
- EPA/NIH Mass Spectral Library Search for TICs
- Quantitation Reports and Mass Spectral Data
- Initial and Continuing Calibration Data
- Internal Standard Areas and Retention Times
- Field Duplicate Data

The above items were in compliance with USEPA laboratory QC criteria with the exception of the items discussed in the following text. The data have been validated according to the above procedures and qualified as described on the attached definitions list.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results

Sample SK-GW38 was submitted for MS/MSD analysis. One (1) out of ten (10) spike recoveries were outside of QC limits, although the relative percent difference (RPD) between the MS and MSD recoveries met all QC criteria. Non-compliant MS/MSD data are summarized below.

Non-Compliant MS/MSD Data

Compound	MS %R	MSD %R	RPD	QC Limits RPD	QC Limits %R
Toluene	128*	122	5	13	76-125

** Indicates values outside of QC limits.*

No data have been qualified based upon this data, however, because MS/MSD data is only advisory and other data does not indicate the need for qualification of the results. Furthermore, the toluene recovery is indicative of a potential high bias and toluene was not reported in sample SK-GW38.

Method Blank Summary and Data

Methylene chloride, a common laboratory contaminant, was detected in each of the method blanks, trip blanks and field blanks (samples SK-GWFB-01 and SK-GWFB-02) associated with this SDG. In accordance with EPA validation criteria, sample methylene chloride results less than ten (10) times the associated blank value have been reported as non-detect at the contract required quantitation limit (CRQL).

Acetone, another common laboratory contaminant, was detected in sample SK-GW18 at a concentration of 16 ug/L. Although acetone was not detected in any of the associated blanks, this result has been flagged with an "S" and is suspected to be laboratory derived and not site related.

Target Compound Identification/Quantitation

The laboratory incorrectly reported that sample SK-GW17 exhibited the compound 1,2-dichloroethane and that sample SK-GW06 exhibited bromoform, each at a concentration below the CRQL. A review of the mass spectra for these compounds reveals that they do not meet the required criteria for identification and a revised Volatile Organic Analysis Data Sheet (Form I) has been submitted for each of these samples.

EPA/NIH Mass Spectral Library Search for TICs

A number of the samples in this SDG exhibited one or more non-target compounds identified as unknown siloxanes. Siloxanes are common column degradation products and are considered to be laboratory derived and not site related. In accordance with EPA validation criteria, the unknown siloxanes reported as TICs in these samples have been rejected and the data is considered unusable.

Please note that the rejection of this data for non-target compounds does not affect the results reported for the target compounds in any of these samples.

Initial and Continuing Calibration Data

The relative response factor (RRF) for the 10, 20 and 50 ug/L standards for 1,1,2,2-tetrachloroethane in the initial calibration were each below the 0.500 minimum RRF specified in the Statement of Work (SOW). The RRF for the 10 ug/L standard was 0.411, the RRF20 was 0.389 and the RRF50 was 0.467. The average RRF for 1,1,2,2-tetrachloroethane is 0.466, which is also below the minimum RRF specified in the SOW. Each of the 1,1,2,2-tetrachloroethane sample results have been flagged with a "V" and are considered estimated. This initial calibration is fully compliant and usable, however, because the SOW allows for up to two (2) RRF to fall below the specified QC limits.

The percent relative standard deviation (%RSD) for acetone in the initial calibration is 42.4, which exceeds the USEPA technical criteria of 30.0%RSD. Each of the results reported for acetone have been flagged with a "V" and are considered estimated.

The calibration check standard on 11/01/94 contained one (1) compound whose percent difference (%D) between the average RRF from the initial calibration and the RRF for the continuing calibration exceeded the USEPA technical criteria of 25.0%D. The acetone (26.6%D) results associated with this continuing calibration standard have been flagged with a "V" and are considered estimated.

The calibration check standard on 11/02/94 also contained one (1) compound whose %D exceeded the USEPA technical criteria of 25.0%D. The chloromethane (36.5%D) results associated with this continuing calibration standard have been flagged with a "V" and are considered estimated.

The RRF for 1,1,2,2-tetrachloroethane in the continuing calibration standard analyzed on 11/03/94 was below the 0.500 minimum RRF specified in the SOW. The RRF for this continuing calibration standard was 0.455. Each of the 1,1,2,2-tetrachloroethane sample results associated with this standard have been flagged with a "V" and are considered estimated. This continuing calibration standard is fully compliant and usable, however, because the SOW allows for up to two (2) RR to fall below the specified QC limits.

Field Duplicate Data

Sample SK-GWFD-01 is a field duplicate of sample SK-GW28. With the exception of methylene chloride, which has been discussed above, no volatile organic compounds were detected in either sample SK-GW28 or its field duplicate.

Sample SK-GWFD-02 is a field duplicate of sample SK-GW10. The only volatile organic compounds detected in sample SK-GW28 were 1,1-dichloroethane and benzene, each at an estimated concentration of 5 ug/L. The compound 1,1-dichloroethane was detected in sample SK-GW10 at an estimated concentration of 8 ug/L and benzene was detected at an estimated concentration of 6 ug/L.

The RPD between the results of each of these samples and the associated field duplicate are summarized below. Although there are no QC limits for field duplicate RPD data, RUST

considers an RPD of 40 or less indicative of acceptable sampling and analytical precision. It should be noted, however, that elevated RPD values for results below the contract required quantitation limit (CRQL) are not unexpected and are generally not indicative of unacceptable sampling and analytical precision.

Compound	SK-GW10	SK-GWFD-02	RPD
1,1-Dichloroethane	5	8	46.2
Benzene	5	6	18.2

The field duplicate data presented here are considered indicative of acceptable sampling and analytical precision.

Summary

In summary, based on 528 sample data points, 40 of which were qualified as estimated, and none qualified as unusable, and since estimated data are considered valid and usable, the usability of this package is 100%.

Anthony M. Noce
Reviewed By

31 JANUARY 95
Date

Approved By

2-1-95
Date

Volatile Organic Analytical Data

Skinner Landfill Site
West Chester, Ohio

Sampling Dates: October 25, 26, 27 and 28, 1994
Remedial Design Investigation

Compound	SK-GW06	SK-GW09	SK-GW10	SK-GWFD-02	SK-GW11	SK-GW17	SK-GW18	SK-GW25
Chloromethane	10 UV	10 U	10 UV	10 UV	10 U	10 U	10 UV	10 UV
Bromomethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	10 UV	10 UV	10 UV	10 UV	10 UV	10 UV	**17 SV**	10 UV
Carbon Disulfide	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	10 U	10 U	**5 J**	**8 J**	10 U	10 U	10 U	10 U
1,2-Dichloroethene (total)	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	**3 J**	10 U	10 U	10 U	10 U	10 U	**5 J**	10 U
1,2-Dichloroethane	10 U	10 U	10 U	10 U	10 U	**2 J**	**6 J**	10 U
2-Butanone	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Tetrachloride	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane	**11**	10 U	10 U	10 U	10 U	10 U	**22**	10 U
cis-1,3-Dichloropropene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	**4 J**	10 U	10 U	10 U	10 U	10 U	**5 J**	10 U
Dibromochloromethane	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	**2 J**	10 U	10 U	10 U	10 U	10 U	**5 J**	10 U
Benzene	10 U	10 U	**5 J**	**6 J**	10 U	**100**	**3 J**	10 U
trans-1,3-Dichloropropene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromoform	**1 J**	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U
4-Methyl-2-Pentanone	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	10 UV	10 UV	10 UV	10 UV	10 UV	10 UV	10 UV	10 UV
Toluene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	10 U	10 U	10 U	10 U	**2 J**	**23**	**2 J**	10 U
Ethylbenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Styrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylene (total)	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

All results expressed in ug/L.
Standard Organic Data Qualifiers have been applied.
Sample SK-GWFD-01 is a field duplicate of sample SK-GW28.
Sample SK-GWFD-02 is a field duplicate of sample SK-GW10.
Samples SK-GWFB-01 and SK-GWFB-02 are field blanks.

Volatile Organic Analytical Data

Skinner Landfill Site
West Chester, Ohio

Sampling Dates: October 25, 26, 27 and 28, 1994
Remedial Design Investigation

Compound	SK-GW26	SK-GW28	SK-GWFD-01	SK-GW30	SK-GW31	SK-GW38	SK-GW07R	SK-GWB5
Chloromethane	10 UV	10 U	10 U	10 U	10 U	10 U	10 UV	10 UV
Bromomethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**46**
Chloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	10 UV	10 UV	10 UV	10 UV	10 UV	10 UV	10 UV	10 UV
Carbon Disulfide	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**45**
1,2-Dichloroethene (total)	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**26**
Chloroform	**4 J**	10 U	10 U	10 U	10 U	10 U	**4 J**	**120**
1,2-Dichloroethane	**5 J**	10 U	10 U	10 U	10 U	10 U	**3 J**	**260 D**
2-Butanone	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**4 J**
Carbon Tetrachloride	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane	**16**	10 U	10 U	10 U	10 U	10 U	**15**	**710 D**
cis-1,3-Dichloropropene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	**4 J**	10 U	10 U	10 U	10 U	10 U	**4 J**	**52**
Dibromochloromethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	**4 J**	10 U	10 U	10 U	10 U	10 U	**3 J**	**130**
Benzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**10**
trans-1,3-Dichloropropene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromoform	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**
1,1,2,2-Tetrachloroethane	10 UV	10 UV	10 UV	10 UV	10 UV	10 UV	10 UV	**10**
Toluene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**10**
Chlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Styrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylene (total)	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**3 J**

All results expressed in ug/L.
Standard Organic Data Qualifiers have been applied.
Sample SK-GWFD-01 is a field duplicate of sample SK-GW28.
Sample SK-GWFD-02 is a field duplicate of sample SK-GW10.
Samples SK-GWFB-01 and SK-GWFB-02 are field blanks.

Volatile Organic Analytical Data

Skinner Landfill Site
West Chester, Ohio

Sampling Dates: October 25, 26, 27 and 28, 1994
Remedial Design Investigation

Compound	SK-GWFB-01	SK-GWFB-02	TRIPBLK 10/25/94	TRIPBLK1 10/26/94	TRIPBLK2 10/27/94	TRPBLK 10/28/94
Chloromethane	10 U	10 UV	10 U	10 U	10 UV	10 UV
Bromomethane	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	**6 JB**	**4 JB**	**8 JB**	**9 JB**	**6 JB**	**6 JB**
Acetone	10 UV	10 UV	10 UV	10 UV	10 UV	10 UV
Carbon Disulfide	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethene (total)	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone	10 U	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Tetrachloride	10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene	10 U	10 U	10 U	10 U	10 U	10 U
Bromoform	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	10 UV	10 UV	10 UV	10 UV	10 UV	10 UV
Toluene	10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	10 U	10 U	10 U	10 U	10 U	10 U
Styrene	10 U	10 U	10 U	10 U	10 U	10 U
Xylene (total)	10 U	10 U	10 U	10 U	10 U	10 U

All results expressed in ug/L.
Standard Organic Data Qualifiers have been applied.
Sample SK-GWFD-01 is a field duplicate of sample SK-GW28.
Sample SK-GWFD-02 is a field duplicate of sample SK-GW10.
Samples SK-GWFB-01 and SK-GWFB-02 are field blanks.

SKINNER LANDFILL RUI
SDG: SKIN4

STANDARD OPERATING PROCEDURE
Date: January 1992
Revision: 8

	YES	NO	N/A

PART A: VOA ANALYSES

1.0 Traffic Reports and Laboratory Narrative

1.1	Are the Traffic Report Forms present for all samples?	[√]	___	___
	ACTION: If no, contact lab for replacement of missing or illegible copies.			
1.2	Do the Traffic Reports or Lab Narrative indicate any problems with sample receipt, condition of samples, analytical problems or special circumstances affecting the quality of the data?	___	[√]	___
	ACTION: If any sample analyzed as a soil, other than TCLP, contains 50%-90% water, all data should be flagged as estimated (J). If a soil sample other than TCLP contains more than 90% water, all data should be qualified as unusable (R).			
	ACTION: If samples were not iced upon receipt at the laboratory, flag all positive results "J" and all Non-Detects "UJ".			
	ACTION: If both VOA vials for a sample have air bubbles or the VOA vial analyzed had air bubbles, flag all positive results "J" and all non-detects "R".			

YES NO N/A

2.0 Holding Times

2.1 Have any VOA technical holding times, determined from date of collection to date of analysis, been exceeded? ___ [✓] ___

If unpreserved, aqueous samples maintained at 4°C which are to be analyzed for aromatic hydrocarbons must be analyzed within 7 days of collection. If preserved with HCl (pH<2) and stored at 4°C, then aqueous samples must be analyzed within 14 days of collection. If uncertain about preservation, contact sampler to determine whether or not samples were preserved.

The holding time for soils is 10 days.

Table of Holding Time Violations

Sample ID	Sample Matrix	Preserved?	Date Sampled	(See Traffic Report) Date Lab Received	Date Analyzed

ACTION: If technical holding times are exceeded, flag all positive results as estimated ("J") and sample quantitation limits as estimated ("UJ"), and document in the narrative that holding times were exceeded. If analyses were done more than 14 days beyond holding time, either on the first analysis or upon re-analysis, the reviewer must use professional judgement to determine the reliability of the data and the effects of additional storage on the sample results. At a minimum, all results must be qualified "J", but the reviewer may determine that non-detect data are unusable (R). If holding times are exceeded by more than 28 days, all non detect data are unusable (R).

	YES	NO	N/A
3.0 System Monitoring Compound (SMC) Recovery (Form II)			
3.1 Are the VOA SMC Recovery Summaries (Form II) present for each of the following matrices:			
a. Low Water	[✓]		
b. Low Soil	[ ]		✓
c. Med Soil	[ ]		✓
3.2 Are all the VOA samples listed on the appropriate System Monitoring Compound Recovery Summary for each of the following matrices:			
a. Low Water	[✓]		
b. Low Soil	[ ]		✓
c. Med Soil	[ ]		✓
ACTION: Call lab for explanation/ resubmittals. If missing deliverables are unavailable, document effect in data assessments.			
3.3 Were outliers marked correctly with an asterisk?	[ ]		✓
ACTION: Circle all outliers in red.			
3.4 Was one or more VOA system monitoring compound recovery outside of contract specifications for any sample or method blank?		[✓]	
If yes, were samples re-analyzed?	[ ]		✓
Were method blanks re-analyzed?	[ ]		✓

	YES	NO	N/A

ACTION: If recoveries are > 10% but 1 or more compounds fail to meet SOW specifications:

1. All positive results are qualified as estimated (J).
2. Flag all non-detects as estimated detection limits ("UJ") where recovery is less than the lower acceptance limit.
3. If SMC recoveries are above allowable levels, do not qualify non-detects.

If any system monitoring compound recovery is <10% :

1. Flag all positive results as estimated ("J").
2. Flag all non-detects as unusable ("R").

Professional judgement should be used to qualify data that only have method blank SMC recoveries out of specification in both original and re-analyses. Check the internal standard areas.

3.5 Are there any transcription/calculation errors between raw data and Form II? ___ [✓] ___

ACTION: If large errors exist, call lab for explanation/resubmittal, make any necessary corrections and note errors in the data assessment.

4.0 <u>Matrix Spikes (Form III)</u>

4.1 Is the Matrix Spike/Matrix Spike Duplicate Recovery Form (Form III) present? [✓] ___ ___

	YES	NO	N/A
4.2 Were matrix spikes analyzed at the required frequency for each of the following matrices:			
a. Low Water	[✓]		
b. Low Soil	[ ]		✓
c. Med Soil	[ ]		✓

ACTION: If any matrix spike data are missing, take the action specified in 3.2 above.

4.3 How many VOA spike recoveries are outside QC limits?

Water	Soils
1 out of 10	N/A out of 10

4.4 How many RPD's for matrix spike and matrix spike duplicate recoveries are outside QC limits?

Water	Soils
Ø out of 5	N/A out of 5

ACTION: No action is taken based on MS/MSD data alone. However, using informed professional judgement, the MS/MSD results may be used in conjunction with other QC criteria to determine the need for qualification of the data.

5.0 Blanks (Form IV)

	YES	NO	N/A
5.1 Is the Method Blank Summary (Form IV) present?	[✓]		
5.2 Frequency of Analysis: for the analysis of VOA TCL compounds, has a reagent/method blank been analyzed for each SDG or every 20 samples of similar matrix (low water, low soil, medium soil), whichever is more frequent?	[✓]		

	YES	NO	N/A
5.3 Has a VOA method/instrument blank been analyzed at least once every twelve hours for each concentration level and GC/MS system used?	[√]	___	___

ACTION: If any method blank data are missing, call lab for explanation/ resubmittal. If method blank data are not available, reject (R) all associated positive data. However, using professional judgement, the data reviewer may substitute field blank or trip blank data for missing method blank data.

5.4 Chromatography: review the blank raw data - chromatograms (RICs), quant reports or data system printouts and spectra. Is the chromatographic performance (baseline stability) for each instrument acceptable for VOAs?	[√]	___	___

ACTION: Use professional judgement to determine the effect on the data.

6.0 Contamination

NOTE: "Water blanks", "drill blanks", and distilled water blanks" are validated like any other sample, and are not used to qualify data. Do not confuse them with the other QC blanks discussed below.

6.1 Do any method/instrument/reagent blanks have positive results (TCL and/or TIC) for VOAs? When applied as described below, the contaminant concentration in these blanks are multiplied by the sample dilution factor and corrected for % moisture when necessary.	√	[ ]	___
6.2 Do any field/trip/rinse blanks have positive VOA results (TCL and/or TIC)?	√	[ ]	___

ACTION: Prepare a list of the samples associated with each of the contaminated blanks. (Attach a separate sheet.)

YES NO N/A

NOTE: All field blank results associated to a particular group of samples (may exceed one per case) must be used to qualify data. Trip blanks are used to qualify only those samples with which they were shipped and are not required for non-aqueous matrices. Blanks may not be qualified because of contamination in another blank. Field Blanks & Trip Blanks must be qualified for system monitoring compound, instrument performance criteria, spectral or calibration QC problems.

ACTION: Follow the directions in the table below to qualify TCL results due to contamination. Use the largest value from all the associated blanks. If any blanks are grossly contaminated, all associated data should be qualified as unusable (R).

	Sample conc > CRQL but < 10x blank value	Sample conc < CRQL & <10x blank value	Sample conc > CRQL & >10x blank value
Methylene Chloride Acetone Toluene 2-Butanone	Flag sample result with a "U;	Report CRQL & qualify "U"	No qualification is needed

	Sample conc > CRQL but < 5x blank	Sample conc < CRQL & is < 5x blank value	Sample conc > CRQL value & > 5x blank value
Other Contam-inants	Flag sample result with a "U"	Report CRQL & qualify "U"	No qualification is needed

NOTE: Analytes qualified "U" for blank contamination are still considered as "hits" when qualifying for calibration criteria.

	YES	NO	N/A
ACTION: For TIC compounds, if the concentration in the sample is less than five times the concentration in the most contaminated associated blank, flag the sample data "R" (unusable).			
6.3 Are there field/rinse/equipment blanks associated with every sample?	[√]	___	___
ACTION: For low level samples, note in data assessment that there is no associated field/rinse/equipment blank. Exception: samples taken from a drinking water tap do not have associated field blanks.			
7.0 GC/MS Instrument Performance Check (Form V)			
7.1 Are the GC/MS Instrument Performance Check Forms (Form V) present for Bromofluorobenzene (BFB)?	[√]	___	___
7.2 Are the enhanced bar graph spectrum and mass/charge (m/z) listing for the BFB provided for each twelve hour shift?	[√]	___	___
7.3 Has an instrument performance compound been analyzed for every twelve hours of sample analysis per instrument?	[√]	___	___

	YES	NO	N/A

ACTION: List date, time, instrument ID, and sample analysis for which no associated GC/MS tuning data are available.

DATE	TIME	INSTRUMENT	SAMPLE NUMBERS

ACTION: If lab cannot provide missing data, reject ("R") all data generated outside an acceptable twelve hour calibration interval.

		YES	NO	N/A
7.4	Have the ion abundances been normalized to m/z 95?	[√]		
	ACTION: If mass assignment is in error, qualify all associated data as unusable (R).			
7.5	Have the ion abundance criteria been met for each instrument used?	[√]		
	ACTION: List all data which do not meet ion abundance criteria (attach a separate sheet).			
	ACTION: If ion abundance criteria are not met, the Region II TPO must be notified.			
7.6	Are there any transcription/calculation errors between mass lists and Form Vs? (Check at least two values but if errors are found, check more.)		[√]	

	YES	NO	N/A
7.7 Have the appropriate number of significant figures (two) been reported?	[✓]	___	___
ACTION: If large errors exist, call lab for explanation/resubmittal, make necessary corrections and document effect in data assessments.			
7.8 Are the spectra of the mass calibration compound acceptable?	[✓]	___	___
ACTION: Use professional judgement to determine whether associated data should be accepted, qualified, or rejected.			

8.0 Target Compound List (TCL) Analytes

8.1 Are the Organic Analysis Data Sheets (Form I VOA) present with required header information on each page, for each of the following:			
a. Samples and/or fractions as appropriate	[✓]	___	___
b. Matrix spikes and matrix spike duplicates	[✓]	___	___
c. Blanks	[✓]	___	___
8.2 Are the VOA Reconstructed Ion Chromatograms, the mass spectra for the identified compounds, and the data system printouts (Quant Reports) included in the sample package for each of the following?			
a. Samples and/or fractions as appropriate	[✓]	___	___
b. Matrix spikes and matrix spike duplicates (Mass spectra not required)	[✓]	___	___
c. Blanks	[✓]	___	___

ACTION: If any data are missing, take action specified in 3.2 above.

		YES	NO	N/A
8.3	Are the response factors shown in the Quant Report?	[✓]	___	___
8.4	Is chromatographic performance acceptable with respect to:			
	Baseline stability?	[✓]	___	___
	Resolution?	[✓]	___	___
	Peak shape?	[✓]	___	___
	Full-scale graph (attenuation)?	[✓]	___	___
	Other: _____	[ ]	___	✓

ACTION: Use professional judgement to determine the acceptability of the data.

8.5	Are the lab-generated standard mass spectra of the identified VOA compounds present for each sample?	[✓]	___	___

ACTION: If any mass spectra are missing, take action specified in 3.2 above. If lab does not generate their own standard spectra, make note in "Contract Problems/Non-compliance".

8.6	Is the RRT of each reported compound within 0.06 RRT units of the standard RRT in the continuing calibration?	[✓]	___	___
8.7	Are all ions present in the standard mass spectrum at a relative intensity greater than 10% also present in the sample mass spectrum?	[✓]	___	___

	YES	NO	N/A
8.8 Do sample and standard relative ion intensities agree within 20%?	[✓]	___	___

ACTION: Use professional judgement to determine acceptability of data. If it is determined that incorrect identifications were made, all such data should be rejected (R), flagged "N" (presumptive evidence of the presence of the compound) or changed to not detected (U) at the calculated detection limit. In order to be positively identified, the data must comply with the criteria listed in 8.6, 8.7, and 8.8.

ACTION: When sample carry-over is a possibility, professional judgement should be used to determine if instrument cross-contamination has affected any positive compound identification.

9.0 Tentatively Identified Compounds (TIC)

9.1 Are all Tentatively Identified Compound Forms (Form I Part B) present; and do listed TICs include scan number or retention time, estimated concentration and "JN" qualifier?	[✓]	___	___
9.2 Are the mass spectra for the tentatively identified compounds and associated "best match" spectra included in the sample package for each of the following:			
a. Samples and/or fractions as appropriate	[✓]	___	___
b. Blanks	[✓]	___	___

ACTION: If any TIC data are missing, take action specified in 3.2 above.

ACTION: Add "JN" qualifier if missing.

		YES	NO	N/A
9.3	Are any TCL compounds (from any fraction) listed as TIC compounds (example: 1,2-dimethylbenzene is xylene- a VOA TCL analyte - and should not be reported as a TIC)?	___	[√]	___
	ACTION: Flag with "R" any TCL compound listed as a TIC.			
9.4	Are all ions present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?	[√]	___	___
9.5	Do TIC and "best match" standard relative ion intensities agree within 20%?	[√]	___	___
	ACTION: Use professional judgement to determine acceptability of TIC identifications. If it is determined that an incorrect identification was made, change identification to "unknown" or to some less specific identification (example: "C3 substituted benzene") as appropriate.			
	Also, when a compound is not found in any blank, but is detected in a sample and is a suspected artifact of a common laboratory contaminant, the result should be qualified as unusable (R). (i.e. Common Lab Contaminants: CO_2 (M/E 44), Siloxanes (M/E 73) Hexane, Aldol Condensation Products, Solvent Preservatives, and related by products - see Functional Guidelines for more guidance).	√		

	YES	NO	N/A
10.0 Compound Quantitation and Reported Detection Limits			
10.1 Are there any transcription/calculation errors in Form I results? Check at least two positive values. Verify that the correct internal standard, quantitation ion, and RRF were used to calculate Form I result. Were any errors found?	___	[√]	___
10.2 Are the CRQLs adjusted to reflect sample dilutions and, for soils, sample moisture?	[√]	___	___

ACTION: If errors are large, call lab for explanation/resubmittal, make any necessary corrections and note errors under "Conclusions".

ACTION: When a sample is analyzed at more than one dilution, the lowest CRQLs are used (unless a QC exceedance dictates the use of the higher CRQL data from the diluted sample analysis). Replace concentrations that exceed the calibration range in the original analysis by crossing out the "E" and its associated value on the original Form I and substituting the data from the analysis of the diluted sample. Specify which Form I is to be used, then draw a red "X" across the entire page of all Form I's that should not be used, including any in the summary package.

11.0 Standards Data (GC/MS)			
11.1 Are the Reconstructed Ion Chromatograms, and data system printouts (Quant. Reports) present for initial and continuing calibration?	[√]	___	___

ACTION: If any calibration standard data are missing, take action specified in 3.2 above.

	YES	NO	N/A

12.0 GC/MS Initial Calibration (Form VI)

12.1 Are the Initial Calibration Forms (Form VI) present and complete for the volatile fraction at concentrations of 10, 20, 50, 100, 200 ug/l? Are there separate calibrations for low water/med soils and low soil samples? [✓] ___ ___

ACTION: If any calibration standard forms are missing, take action specified in 3.2 above.

12.2 Were all low level soil standards, blanks and samples analyzed by heated purge? [ ] ___ ✓

ACTION: If low level soil samples were not heated during purge, qualify positive hits "J" and non-detects "R".

12.3 Are response factors stable for VOA's over the concentration range of the calibration (%Relative Standard Deviation (%RSD) <30.0%)? [ ] ACETONE ✓ ___

ACTION: Circle all outliers in red.

NOTE: Although 11 VOA compounds have a minimum RRF and no maximum %RSD, the technical criteria are the same for all analytes.

ACTION: If %RSD > 30.0%, qualify associated positive results for that analyte "J" and non-detects using professional judgement. When RSD > 90%, flag all non-detects for that analyte R (unusable).

NOTE: Analytes previously qualified "U" for blank contamination are still considered as "hits" when qualifying for initial calibration criteria.

12.4 Are the RRFs above 0.05? [✓] ___ ___

Action: Circle all outliers in red.
Action: If any RRF are < 0.05, qualify associated non-detects (R) and flag associated positive data as estimated (J).

	YES	NO	N/A
12.5 Are there any transcription/calculation errors in the reporting of average response factors (RRF) or %RSD? (Check at least 2 values, but if errors are found, check more.)	___	[√]	___
13.0 GC/MS Continuing Calibration (Form VII)			
13.1 Are the Continuing Calibration Forms (Form VII) present and complete for the volatile fraction?	[√]	___	___
13.2 Has a continuing calibration standard been analyzed for every twelve hours of sample analysis per instrument?	[√]	___	___

ACTION: List below all sample analyses that were not within twelve hours of the previous continuing calibration analysis.

_____

_____

_____

ACTION: If any forms are missing or no continuing calibration standard has been analyzed within twelve hours of every sample analysis, call lab for explanation/resubmittal. If continuing calibration data are not available, flag all associated sample data as unusable ("R").

13.3 Do any volatile compounds have a % Difference (% D) between the initial and continuing RRF which exceeds the ± 25% criteria?	√	[ ]	___

ACTION: Circle all outliers in red.

ACTION: Qualify both positive results and non-detects for the outlier compound(s) as estimated. When % D is above 90%, reject all non-detects for that analyte (R) unusable.

	YES	NO	N/A
13.4 Do any volatile compounds have a RRF <0.05?	[ ]	[✓]	___

ACTION: Circle all outliers in red.

ACTION: If the RRF <0.05, qualify associated non-detects as unusable (R) and "J" associated positive values.

13.5 Are there any transcription/calculation errors in the reporting of average response factors (RRF) or %difference (%D) between initial and continuing RRFs? (Check at least two values but if errors are found, check more.)	___	[*]	___

ACTION: Circle errors in red.

* ERRORS IN %D CALC. - INSIGNIFICANT.

ACTION: If errors are large, call lab for explanation/resubmittal, make any necessary corrections and note errors under "Conclusions".

14.0 Internal Standard (Form VIII)

14.1 Are the internal standard areas (Form VIII) of every sample and blank within the upper and lower limits (-50% to + 100%) for each continuing calibration?	[✓]	___	___

ACTION: List all the outliers below.

Sample #	Internal Std	Area	Lower Limit	Upper Limit
___	___	___	___	___
___	___	___	___	___
___	___	___	___	___
___	___	___	___	___
___	___	___	___	___

(Attach additional sheets if necessary.)

YES NO N/A

ACTION: 1. If the internal standard area count is outside the upper or lower limit, flag with "J" all positive results quantitated with this internal standard.

2. Non-detects associated with IS area counts > 100% should not be qualified.

3. If IS area is below the lower limit (< 50%), qualify all associated non-detects (U values) "J". If extremely low area counts are reported, (< 25%) or if performance exhibits a major abrupt drop off, flag all associated non-detects as unusable ("R").

14.2 Are the retention times of the internal standards within 30 seconds of the associated calibration standard? [√] ___ ___

ACTION: Professional judgement should be used to qualify data if the retention times differ by more than 30 seconds.

15.0 Field Duplicates

15.1 Were any field duplicates submitted for VOA analysis? [√] ___ ___

ACTION: Compare the reported results for field duplicates and calculate the relative percent difference.

ACTION: Any gross variation between duplicate results must be addressed in the reviewer narrative. However, if large differences exist, identification of field duplicates should be confirmed by contacting the sampler.

Organic Data Qualifiers

U - The compound was analyzed for but not detected at or above the quantitation limit indicated.

J - The compound was analyzed for and determined to be present in the sample because the mass spectrum of the compound meets the identification criteria of the method. The concentration reported is an estimated value, less than the practical quantitation limit for the sample.

B - The compound is also found in an associated blank.

V - The reported value is considered estimated due to variance from quality control criteria

S - The reported value is suspected to be due to laboratory contamination.

R - The reported value is unusable and rejected due to variance from quality control criteria.

D - The reported value is taken from the analysis of a diluted sample.

E - The reported value exceeds the calibration range of the instrument.

N - Indicates presumptive evidence for compound identification.

A - Indicates that the compound is an aldol condensation product.

C - Compound identification has been qualitatively confirmed by GC/MS.

P - Indicates that the percent difference between the results from the two analytical columns is greater than 25%.

Semivolatile Organic Data Validation Summary
Skinner Landfill Site
West Chester, Ohio
Analytical Laboratory: NYTEST Environmental, Inc.
Sample Delivery Group SKIN4

Analytical results for fourteen (14) groundwater samples with matrix QC, two (2) field duplicates and two (2) field blanks from the Skinner Landfill site were reviewed to evaluate the data quality. Data were assessed in accordance with the United States Environmental Protection Agency (USEPA) **National Functional Guidelines for Organic Data Review** (Draft 12/90, Revised 6/91) and the USEPA Region II document **CLP Organics Data Review and Preliminary Review** (SOP No. HW-6, Revision No. 8, January, 1992), where applicable. This validation pertains to the following samples collected by Rust Environment & Infrastructure (RUST) personnel on October 25, 26, 27 and 28, 1994.

SK-GW06	**SK-GW25**	**SK-GW07R**
SK-GW09	**SK-GW26**	**SK-GWB5**
SK-GW10	**SK-GW28**	**SK-GWFD-01**
SK-GW11	**SK-GW30**	**SK-GWFD-02**
SK-GW17	**SK-GW31**	**SK-GWFB-01**
SK-GW18	**SK-GW38**	**SK-GWFB-02**

The following items/criteria applicable to the samples listed above were reviewed:

- Deliverable Requirements
- Case Narrative
- Holding Times
- System Monitoring Compound (SMC) Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Blank Summary and Data
- GC/MS Instrument Performance Check
- Target Compound Identification/Quantitation
- EPA/NIH Mass Spectral Library Search for TICs
- Quantitation Reports and Mass Spectral Data
- Initial and Continuing Calibration Data
- Internal Standard Areas and Retention Times
- Field Duplicate Data

The above items were in compliance with USEPA laboratory QC criteria with the exception of the items discussed in the following text. The data have been validated according to the above procedures and qualified as described on the attached definitions list.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Data

Sample SK-GW38 was submitted for MS/MSD analysis. Six (6) out of 22 spike recoveries were outside of QC limits, although the relative percent difference (RPD) between the MS and MSD recoveries met all QC criteria. Non-compliant MS/MSD data are summarized below.

Non-Compliant MS/MSD Data

Compound	MS %R	MSD %R	RPD	QC Limits RPD	QC Limits %R
1,4-Dichlorobenzene	90	98*	8	28	36- 97
4-Nitrophenol	103*	116*	12	50	10- 80
2,4-Dinitrotoluene	98*	102*	4	38	24- 96
Pentachlorophenol	91	107*	16	31	26-127

** Indicates values outside of QC limits.*

No data have been qualified based upon this data, however, because MS/MSD data is only advisory and other data does not indicate the need for qualification of the results. Furthermore, these noncompliant recoveries are indicative of a potential high bias and no semivolatile organic compounds were detected in sample SK-GW38.

Target Compound Identification/Quantitation

Di-n-butylphthalate, a common laboratory contaminant, was detected at a concentration below the contract required quantitation limit (CRQL) in sample SK-GW30. This result has been flagged with an "S" as suspect and is most likely laboratory derived and not site related.

EPA/NIH Mass Spectral Library Search for TICs

A number of the samples in this SDG exhibited one or more non-target compounds identified as unknown siloxanes. Siloxanes are common column degradation products and are considered to be laboratory derived and not site related. In accordance with EPA validation criteria, the unknown siloxanes reported as TICs in these samples have been rejected and the data is considered unusable.

Please note that the rejection of this data for non-target compounds does not affect the results reported for the target compounds in any of these samples.

Initial and Continuing Calibration Data

The percent relative standard deviation (%RSD) for hexachlorocyclopentadiene in the initial calibration is 79.9, which exceeds the USEPA technical criteria of 30.0%RSD. Each of the results reported for hexachlorocyclopentadiene have been flagged with a "V" and are considered estimated.

The calibration check standard on 11/30/94 contained one (1) compound whose percent difference (%D) between the average relative response factor (RRF) from the initial calibration and the RRF for the continuing calibration exceeded the maximum %D of 25.0

from the only sample associated with this continuing calibration was bis(2-ethylhexyl)phthalate which met all applicable QC criteria.

Field Duplicate Data

Sample SK-GWFD-01 is a field duplicate of sample SK-GW28. With the exception of bis(2-ethylhexyl)phthalate, no semivolatile organic compounds were detected in either sample SK-GW28 or its field duplicate.

Sample SK-GWFD-02 is a field duplicate of sample SK-GW10. The only semivolatile organic compounds detected in sample SK-GW28 were bis(2-chloroethyl)ether and bis(2-ethylhexyl)phthalate.

The RPD between the results of each of these samples and the associated field duplicates are summarized below. Although there are no QC limits for field duplicate RPD data, RUST considers an RPD of 40 or less indicative of acceptable sampling and analytical precision.

Compound	SK-GW28	SK-GWFD-01	RPD
bis(2-Ethylhexyl)phthalate	2	29	174.2

Compound	SK-GW10	SK-GWFD-02	RPD
bis(2-Chloroethyl)ether	7	7	0.0
bis(2-Ethylhexyl)phthalate	79	58	30.7

The field duplicate data presented here are generally considered indicative of acceptable sampling and analytical precision, although the bis(2-ethylhexyl)phthalate results for samples SK-GW28 and SK-GWFD-01 have each been flagged with a "V" and are considered estimated due to the elevated RPD between them.

Semivolatile Organic Analytical Data

Skinner Landfill Site
West Chester, Ohio

Sampling Dates: October 25, 26, 27 and 28, 1994
Remedial Design Investigation

Compound	SK-GW06	SK-GW09	SK-GW10	SK-GWFD-02	SK-GW11	SK-GW17	SK-GW18	SK-GW25	SK-GW26
Phenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)Ether	10 U	10 U	7 J	7 J	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,2'-oxybis(1-Chloropropane)	10 U	10 U	10 U	10 U	2 J	10 U	10 U	10 U	10 U
4-Methylphenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	10 U	10 U	10 U	10 U	10 U	10 U	1 J	10 U	10 U
2-Nitrophenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	10 U	10 U	10 UV	10 UV	10 U	10 U	10 U	10 UV	10 U
Hexachlorobutadiene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-Methylphenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	10 U	10 UV	10 U	10 U	10 UV	10 UV	10 U	10 U	10 U
Hexachlorocyclopentadiene	10 UV	10 UV	10 UV	10 UV	10 UV	10 UV	10 UV	10 UV	10 UV
2,4,6-Trichlorophenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Chloronaphthalene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Dimethylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U

Semivolatile Organic Analytical Data

Skinner Landfill Site
West Chester, Ohio

Sampling Dates: October 25, 26, 27 and 28, 1994
Remedial Design Investigation

Compound	SK-GW06	SK-GW09	SK-GW10	SK-GWFD-02	SK-GW11	SK-GW17	SK-GW18	SK-GW25	SK-GW26
Acenaphthene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	25 U	25 UV	25 UV	25 UV	25 UV	25 UV	25 U	25 UV	25 U
4-Nitrophenol	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Dibenzofuran	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol	25 U	25 UV	25 U	25 U	25 UV	25 UV	25 U	25 U	25 U
N-Nitrosodiphenylamine	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Phenanthrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	10 U	10 U	10 UV	10 UV	10 U	10 U	10 U	10 UV	10 U
3,3'-Dichlorobenzidine	10 U	10 U	10 UV	10 UV	10 U	10 U	10 U	10 UV	10 U
Benzo(a)anthracene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	**1 J**	**75**	**79 V**	**58 V**	10 U	**1 J**	**220 D**	10 U	**4 J**
Di-n-octylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

All results expressed in ug/L.
Standard Organic Data Qualifiers have been applied.
Sample SK-GWFD-01 is a field duplicate of sample SK-GW28.
Sample SK-GWFD-02 is a field duplicate of sample SK-GW10.
Samples SK-GWFB-01 and SK-GWFB-02 are field blanks.

Semivolatile Organic Analytical Data

Skinner Landfill Site
West Chester, Ohio

Sampling Dates: October 25, 26, 27 and 28, 1994
Remedial Design Investigation

Compound	SK-GW28	SK-GWFD-01	SK-GW30	SK-GW31	SK-GW38	SK-GW07R	SK-GWB5	SK-GWFB-01	SK-GWFB-02
Phenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)Ether	10 U	10 U	10 U	10 U	10 U	10 U	**41**	10 U	10 U
2-Chlorophenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	**3 J**	10 U	10 U
1,4-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U
1,2-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U
2-Methylphenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,2'-oxybis(1-Chloropropane)	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U
4-Chloroaniline	10 U	10 U	10 UV	10 U	10 U	10 U	10 UV	10 U	10 UV
Hexachlorobutadiene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-Methylphenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	10 UV	10 UV	10 U	10 UV	10 UV	10 U	10 U	10 UV	10 U
Hexachlorocyclopentadiene	10 UV	10 UV	10 UV	10 UV	10 UV	10 UV	10 UV	10 UV	10 UV
2,4,6-Trichlorophenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Chloronaphthalene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Dimethylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U

Semivolatile Organic Analytical Data

Skinner Landfill Site
West Chester, Ohio

Sampling Dates: October 25, 26, 27 and 28, 1994
Remedial Design Investigation

Compound	SK-GW28	SK-GWFD-01	SK-GW30	SK-GW31	SK-GW38	SK-GW07R	SK-GWB5	SK-GWFB-01	SK-GWFB-02
Acenaphthene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	25 UV	25 UV	25 UV	25 UV	25 UV	25 U	25 UV	25 UV	25 UV
4-Nitrophenol	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Dibenzofuran	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol	25 UV	25 UV	25 U	25 UV	25 UV	25 U	25 U	25 UV	25 U
N-Nitrosodiphenylamine	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Phenanthrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	10 U	**1 JS**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	10 U	10 UV	10 U	10 U	10 U	10 U	10 UV	10 U	10 UV
Benzo(a)anthracene	10 U	10 UV	10 U	10 U	10 U	10 U	10 UV	10 U	10 UV
Chrysene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	**2 JV**	**29 V**	10 U	10 U	10 U	**32**	**50 V**	10 U	10 U
Di-n-octylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

All results expressed in ug/L.
Standard Organic Data Qualifiers have been applied.
Sample SK-GWFD-01 is a field duplicate of sample SK-GW28.
Sample SK-GWFD-02 is a field duplicate of sample SK-GW10.
Samples SK-GWFB-01 and SK-GWFB-02 are field blanks.

SKINNER LANDFILL RDI
SDG: SKIN4

YES NO N/A

PART B: BNA ANALYSES

1.0 Traffic Reports and Laboratory Narrative

1.1 Are the Traffic Report Forms present for all samples? [√] ___ ___

ACTION: If no, contact lab for replacement of missing or illegible copies.

1.2 Do the Traffic Reports or Lab Narrative indicate any problems with sample receipt, condition of samples, analytical problems or special notations affecting the quality of the data? ___ [√] ___

ACTION: If any sample analyzed as a soil, other than TCLP, contains 50%-90% water, all data should be flagged as estimated ("J"). If a soil sample, other than TCLP, contains more than 90% water, all data should be qualified as unusable (R).

ACTION: If samples were not iced upon receipt at the laboratory, flag all positive results "J" and all non-detects "UJ".

2.0 Holding Times

2.1 Have any BNA technical holding times, determined from date of collection to date of extraction, been exceeded? ___ [√] ___

Continuous extraction of water samples for BNA analysis must be started within seven days of the date of collection. Soil/ sediment samples must be extracted within 7 days of collection. Extracts must be analyzed within 40 days of the date of extraction.

YES NO N/A

Table of Holding Time Violations

(See Traffic Report)

Sample	Sample Matrix	Date Sampled	Date Lab Received	Date Extracted	Date Analyzed

ACTION: If technical holding times are exceeded, flag all positive results as estimated ("J") and sample quantitation limits as estimated ("UJ"), and document in the narrative that holding times were exceeded.

If analyses were done more than 14 days beyond holding time, either on the first analysis or upon reanalysis, the reviewer must use professional judgement to determine the reliability of the data and the effects of additional storage on the sample results. At a minimum, all results should be qualified "J", but the reviewer may determine that non-detect data are unusable ("R"). If holding times are exceeded by more than 28 days, all non detect data are unusable (R).

3.0 Surrogate Recovery (Form II)

3.1 Are the BNA Surrogate Recovery Summaries (Form II) present for each of the following matrices:

a.	Low Water	[✓]	___	___
b.	Low Soil	[ ]	___	✓
c.	Med Soil	[ ]	___	✓

	YES	NO	N/A
3.2 Are all the BNA samples listed on the appropriate Surrogate Recovery Summaries for each of the following matrices:			
a. Low Water	[✓]	___	___
b. Low Soil	[ ]	___	✓
c. Low Soil	[ ]	___	✓

ACTION: Call lab for explanation/resubmittals. If missing deliverables are unavailable, document effect in data assessments.

3.3 Were outliers marked correctly with an asterisk?	[ ]	___	✓

ACTION: Circle all outliers in red.

3.4 Were two or more base-neutral <u>OR</u> acid surrogate recoveries out of specification for any sample or method blank?	[ ]	✓	___
If yes, were samples reanalyzed?	[ ]	___	✓
Were method blanks reanalyzed?	[ ]	___	✓

ACTION: If all BNA surrogate recoveries are > 10% but two within the base-neutral or acid fraction do not meet SOW specifications, <u>for the affected fraction only (i.e. base-neutral or acid compounds)</u>:

1. Flag all positive results as estimated ("J").
2. Flag all non-detects as estimated detection limits ("UJ") when recoveries are less than the lower acceptance limit.
3. If recoveries are greater than the upper acceptance limit, do not qualify non-detects.

	YES	NO	N/A

If any base-neutral or acid surrogate has a recovery of <10%:

1. Positive results for the fraction with <10% surrogate recovery are qualified with "J".

2. Non-detects for that fraction should be qualified as unusable (R) .

Professional judgement should be used to qualify data that have method blank surrogate recoveries out of specification in both original and reanalyses. Check the internal standard areas.

3.5	Are there any transcription/calculation errors between raw data and Form II?	___	[√]	___

ACTION: If large errors exist, call lab for explanation/resubmittal, make any necessary corrections and document effect in data assessments.

4.0 Matrix Spikes (Form III)

4.1	Is the Matrix Spike/Matrix Spike Duplicate Recovery Form (Form III) present?	[√]	___	___
4.2	Were matrix spikes analyzed at the required frequency for each of the following matrices:			
	a. Low Water	[√]	___	___
	b. Low Soil	[ ]	___	√
	c. Med Soil	[ ]	___	√

ACTION: If any matrix spike data are missing, take the action specified in 3.2 above.

YES NO N/A

4.3 How many BNA spike recoveries are outside QC limits?

Water	Soils
6 out of 22	N/A out of 22

4.4 How many RPD's for matrix spike and matrix spike duplicate recoveries are outside QC limits?

Water	Soils
0 out of 11	N/A out of 11

ACTION: No action is taken on MS/MSD data alone. However, using informed professional judgement, the data reviewer may use the matrix spike and matrix spike duplicate results in conjunction with other QC criteria and determine the need for some qualification of the data.

5.0 Blanks (Form IV)

5.1 Is the Method Blank Summary (Form IV) present? [✓] ___ ___

5.2 Frequency of Analysis:

Has a reagent/method blank analysis been reported per 20 samples of similar matrix, or concentration level, and for each extraction batch? [✓] ___ ___

5.3 Has a BNA method blank been analyzed for each GC/MS system used? [✓] ___ ___
(See SOW p. D - 59/SV, Section 8.7)

ACTION: If any method blank data are missing, call lab for explanation/resubmittal. If not available, use professional judgement to determine if the associated sample data should be qualified.

	YES	NO	N/A
5.4 Chromatography: review the blank raw data - chromatograms (RICs), quant reports or data system printouts and spectra.			
Is the chromatographic performance (baseline stability) for each instrument acceptable for BNAs?	[√]	___	___

ACTION: Use professional judgement to determine the effect on the data.

6.0 Contamination

Note: "Water blanks", "drill blanks" and "distilled water blanks" are validated like any other sample and are not used to qualify the data. Do not confuse them with the other QC blanks discussed below.

6.1 Do any method/instrument/reagent blanks have positive results (TCL and/or TIC) for BNAs? When applied as described below, the contaminant concentration in these blanks are multiplied by the sample dilution factor and corrected for % moisture where necessary.	___	[√]	___
6.2 Do any field/rinse/ blanks have positive BNA results (TCL and/or TIC)?	___	[√]	___

ACTION: Prepare a list of the samples associated with each of the contaminated blanks. (Attach a separate sheet.)

Note: All field blank results associated to a particular group of samples (may exceed one per case) must be used to qualify data. Blanks may not be qualified because of contamination in another blank . Field Blanks must be qualified for surrogate, spectral, instrument performance or calibration QC problems.

YES NO N/A

ACTION: Follow the directions in the table below to qualify TCL results due to contamination. Use the largest value from all the associated blanks. If gross contamination exists, all data in the associated samples should be qualified as unusable (R).

Sample conc > CRQL but < 10x blank	Sample conc <CRQL & is< 10x blank value	Sample conc > CRQL value & >10x blank
Common Phthalate Esters		
Flag sample result with a "U";	Report CRQL & qualify "U"	No qualification is needed
Sample conc > CRQL but < 5x blank	Sample conc < CRQL & is < 5x blank value	Sample conc > CRQL value & >5 blank value
Other Contaminants		
Flag sample result with a "U";	Report CRQL & qualify "U"	No qualification is needed

NOTE: Analytes qualified "U" for blank contamination are still considered as "hits" when qualifying for calibration criteria.

ACTION: For TIC compounds, if the concentration in the sample is less than five times the concentration in the most contaminated associated blank, flag the sample data "R" (unusable).

6.3 Are there field/rinse/equipment blanks associated with every sample? [√] ___ ___

ACTION: For low level samples, note in data assessment that there is no associated field/rinse/equipment blank. Exception: samples taken from a drinking water tap do not have associated field blanks.

	YES	NO	N/A

7.0 GC/MS Instrument Performance Check

7.1 Are the GC/MS Instrument Performance Check Forms (Form V) present for Decafluorotriphenylphosphine (DFTPP)? [✓] ___ ___

7.2 Are the enhanced bar graph spectrum and mass/charge (m/z) listing for the DFTPP provided for each twelve hour shift? [✓] ___ ___

7.3 Has an instrument performance check solution been analyzed for every twelve hours of sample analysis per instrument? [✓] ___ ___

ACTION: List date, time, instrument ID, and sample analyses for which no associated GC/MS tuning data are available.

DATE	TIME	INSTRUMENT	SAMPLE NUMBERS

ACTION: If lab cannot provide missing data, reject ("R") all data generated outside an acceptable twelve hour calibration interval.

ACTION: If mass assignment is in error, flag all associated sample data as unusable (R).

7.4 Have the ion abundances been normalized to m/z 198? [✓] ___ ___

	YES	NO	N/A
7.5 Have the ion abundance criteria been met for each instrument used?	[✓]	___	___

ACTION: List all data which do not meet ion abundance criteria (attach a separate sheet).

ACTION: If ion abundance criteria are not met, the Region II TPO must be notified.

7.6 Are there any transcription/calculation errors between mass lists and Form Vs? (Check at least two values but if errors are found, check more.)	___	[✓]	___
7.7 Have the appropriate number of significant figures (two) been reported?	[✓]	___	___

ACTION: If large errors exist, call lab for explanation/resubmittal, make necessary corrections and document effect in data assessments.

7.8 Are the spectra of the mass calibration compound acceptable?	[✓]	___	___

ACTION: Use professional judgement to determine whether associated data should be accepted, qualified, or rejected.

8.0 <u>Target Compound List (TCL) Analytes</u>

8.1 Are the Organic Analysis Data Sheets (Form I BNA) present with required header information on each page, for each of the following:

a. Samples and/or fractions as appropriate	[✓]	___	___
b. Matrix spikes and matrix spike duplicates	[✓]	___	___
c. Blanks	[✓]	___	___

		YES	NO	N/A
8.2	Has GPC cleanup been performed on all soil/ sediment sample extracts?	[ ]	___	✓
	ACTION: If data suggests that GPC was not performed, use professional judgement. Make note in "Contract Problems/Non-Compliance".			
8.3	Are the BNA Reconstructed Ion Chromatograms, the mass spectra for the identified compounds, and the data system printouts (Quant Reports) included in the sample package for each of the following?			
	a. Samples and/or fractions as appropriate	[✓]	___	___
	b. Matrix spikes and matrix spike duplicates (Mass spectra not required)	[✓]	___	___
	c. Blanks	[✓]	___	___
	ACTION: If any data are missing, take action specified in 3.2 above.			
8.4	Are the response factors shown in the Quant Report?	[✓]	___	___
8.5	Is chromatographic performance acceptable with respect to:			
	Baseline stability?	[✓]	___	___
	Resolution?	[✓]	___	___
	Peak shape?	[✓]	___	___
	Full-scale graph (attenuation)?	[✓]	___	___
	Other:_____	[ ]	___	✓
	ACTION: Use professional judgement to determine the acceptability of the data.			

	YES	NO	N/A
8.6 Are the lab-generated standard mass spectra of identified BNA compounds present for each sample?	[√]	___	___

ACTION: If any mass spectra are missing, take action specified in 3.2 above. If lab does not generate their own standard spectra, make note in "Contract Problems/ Non-compliance". If spectra are missing, reject all positive data.

8.7 Is the RRT of each reported compound within 0.06 RRT units of the standard RRT in the continuing calibration?	[√]	___	___
8.8 Are all ions present in the standard mass spectrum at a relative intensity greater than 10% also present in the sample mass spectrum?	[√]	___	___
8.9 Do sample and standard relative ion intensities agree within 20%?	[√]	___	___

ACTION: Use professional judgement to determine acceptability of data. If it is determined that incorrect identifications were made, all such data should be rejected (R), flagged "N" (Presumptive evidence of the presence of the compound) or changed to not detected (U) at the calculated detection limit. In order to be positively identified, the data must comply with the criteria listed in 8.7, 8.8, and 8.9.

ACTION: When sample carry-over is a possibility, professional judgement should be used to determine if instrument cross-contamination has affected any positive compound identification.

9.0 <u>Tentatively Identified Compounds (TIC)</u>

9.1 Are all Tentatively Identified Compound Forms (Form I, Part B) present; and do listed TICs include scan number or retention time, estimated concentration and "JN" qualifier?	[√]	___	___

	YES	NO	N/A
9.2 Are the mass spectra for the tentatively identified compounds and associated "best match" spectra included in the sample package for each of the following:			
a. Samples and/or fractions as appropriate	[✓]	___	___
b. Blanks	[✓]	___	___
ACTION: If any TIC data are missing, take action specified in 3.2 above.			
ACTION: Add "JN" qualifier if missing.			
9.3 Are any TCL compounds (from any fraction) listed as TIC compounds (example: 1,2-dimethylbenzene is xylene a VOA TCL - and should not be reported as a TIC)?	___	[✓]	___
ACTION: Flag with "R" any TCL compound listed as a TIC.			
9.4 Are all ions present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?	[✓]	___	___
9.5 Do TIC and "best match" standard relative ion intensities agree within 20%?	[✓]	___	___
ACTION: Use professional judgement to determine acceptability of TIC identifications. If it is determined that an incorrect identification was made, change identification to "unknown" or to some less specific identification (example: "C3 substituted benzene") as appropriate. Also, when a compound is not found in any blank, but is a suspected artifact of a common laboratory contaminant, the result should be qualified as unusable (R).			

	YES	NO	N/A

12.0 GC/MS Initial Calibration (Form VI)

12.1 Are the Initial Calibration Forms (Form VI) present and complete for the BNA fraction? [√] ___ ___

ACTION: If any calibration standard forms are missing, take action specified in 3.2 above.

12.2 Are response factors stable for BNAs over the concentration range of the calibration? (% Relative standard deviation (%RSD) < 30.0%) [ ] √ ___

ACTION: Circle all outliers in red.

NOTE: Although 20 BNA compounds have a minimum RRF and no maximum %RSD, the technical criteria are the same for all analytes.

ACTION: If the % RSD is > 30.0%, qualify positive results for that analyte "J" and non-detects using professional judgement. When RSD > 90%, flag all non-detect results for that analyte R (unusable).

NOTE: Analytes previously qualified "U" due to blank contamination are still considered as "hits" when qualifying for calibration criteria.

12.3 Are all BNA compound RRFs > 0.05? [√] ___ ___

ACTION: Circle all outliers in red.

ACTION: If any RRF < 0.05
1. "R" all non-detects.
2. "J" all positive results.

12.4 Are there any transcription/calculation errors in the reporting of average response factors (RRF) or % RSD? (Check at least two values but if errors are found, check more.) ___ [√] ___

ACTION: Circle Errors in red.

YES NO N/A

ACTION: If errors are large, call lab for explanation/resubmittal, make any necessary corrections and note errors in data assessments.

13.0 GC/MS Continuing Calibration (Form VII)

13.1 Are the Continuing Calibration Forms (Form VII) present and complete for the BNA fraction? [√] ___ ___

13.2 Has a continuing calibration standard been analyzed for every twelve hours of sample analysis per instrument? [√] ___ ___

ACTION: List below all sample analyses that were not within twelve hours of a continuing calibration analysis for each instrument used.

_____

_____

_____

ACTION: If any forms are missing or no continuing calibration standard has been analyzed within twelve hours of every sample analysis, call lab for explanation/ resubmittal. If continuing calibration data are not available, flag all associated sample data as unusable ("R").

13.3 Do any semivolatile compounds have a % Difference (% D) between the initial and continuing RRF which exceeds the + 25.0% criteria? √ [ ] ___

ACTION: Circle all outliers in red.

ACTION: Qualify both positive results and non-detects for the outlier compound(s) as estimated (J). When %D is above 90%, reject all non-detects for that analyte (R) unusable.

	YES	NO	N/A
13.4 Do any semivolatile compounds have a RRF <0.05?	___	[√]	___

ACTION: Circle all outliers in red.

ACTION: If RRF <0.05, qualify as unusable (R) associated non-detects and "J" associated positive values.

13.5 Are there any transcription/calculation errors in the reporting of average response factors (RRF) or % difference (%D) between initial and continuing RRFs? (Check at least two values but if errors are found, check more).	___	[√]	___

ACTION: Circle errors in red.

ACTION: If errors are large, call lab for explanation/resubmittal, make any necessary corrections and document effect in data assessments.

14.0 Internal Standards (Form VIII)

14.1 Are the internal standard areas (Form VIII) of every sample and blank within the upper and lower limits (-50% to + 100%) for each continuing calibration?	[√]	___	___

ACTION: List all the outliers below.

Sample #	Internal Std	Area	Lower Limit	Upper Limit
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

(Attach additional sheets if necessary.)

ACTION: 1. If the internal standard area count is outside the upper or lower limit, flag with "J" all positive results and non-detects (U values) quantitated with this internal standard.

YES NO N/A

2. Non-detects associated with IS areas > 100% should not be qualified.

3. If the IS area is below the lower limit (<50%), qualify all associated non-detects (U-values) "J". If extremely low area counts are reported (<25%) or if performance exhibits a major abrupt drop off, flag all associated non-detects as unusable (R).

14.2 Are the retention times of the internal standards within 30 seconds of the associated calibration standard? [✓] ___ ___

ACTION: Professional judgement should be used to qualify data if the retention times differ by more than 30 seconds.

15.0 Field Duplicates

15.1 Were any field duplicates submitted for BNA analysis? [✓] ___ ___

ACTION: Compare the reported results for field duplicates and calculate the relative percent difference.

ACTION: Any gross variation between field duplicate results must be addressed in the reviewer narrative. However, if large differences exist, identification of field duplicates should be confirmed by contacting the sampler.

Organic Data Qualifiers

U - The compound was analyzed for but not detected at or above the quantitation limit indicated.

J - The compound was analyzed for and determined to be present in the sample because the mass spectrum of the compound meets the identification criteria of the method. The concentration reported is an estimated value, less than the practical quantitation limit for the sample.

B - The compound is also found in an associated blank.

V - The reported value is considered estimated due to variance from quality control criteria

S - The reported value is suspected to be due to laboratory contamination.

R - The reported value is unusable and rejected due to variance from quality control criteria.

D - The reported value is taken from the analysis of a diluted sample.

E - The reported value exceeds the calibration range of the instrument.

N - Indicates presumptive evidence for compound identification.

A - Indicates that the compound is an aldol condensation product.

C - Compound identification has been qualitatively confirmed by GC/MS.

P - Indicates that the percent difference between the results from the two analytical columns is greater than 25%.

Pesticide/PCB Data Validation Summary
Skinner Landfill Site
West Chester, Ohio
Analytical Laboratory: NYTEST Environmental, Inc.
Sample Delivery Group SKIN4

Analytical results for fourteen (14) groundwater samples with matrix QC, two (2) field duplicates and two (2) field blanks from the Skinner Landfill site were reviewed to evaluate the data quality. Data were assessed in accordance with the United States Environmental Protection Agency (USEPA) **National Functional Guidelines for Organic Data Review** (Draft 12/90, Revised 6/91) and the USEPA Region II document **CLP Organics Data Review and Preliminary Review** (SOP No. HW-6, Revision No. 8, January, 1992), where applicable. This validation pertains to the following samples collected by Rust Environment & Infrastructure (RUST) personnel on October 25, 26, 27 and 28, 1994.

SK-GW06	**SK-GW25**	**SK-GW07R**
SK-GW09	**SK-GW26**	**SK-GWB5**
SK-GW10	**SK-GW28**	**SK-GWFD-01**
SK-GW11	**SK-GW30**	**SK-GWFD-02**
SK-GW17	**SK-GW31**	**SK-GWFB-01**
SK-GW18	**SK-GW38**	**SK-GWFB-02**

The above items were in compliance with USEPA QC criteria with the exception of the items discussed in the following text. The data have been validated according to the above procedures and qualified as described on the attached definitions list.

The following items/criteria applicable to the samples listed above were reviewed:

- Deliverable Requirements
- Case Narrative
- Holding Times
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Method Blank Summary and Data
- Calibration and GC Performance
- Analyte Resolution Check
- Analytical Sequence
- Cleanup Efficiency
- Pesticide/PCB Identification
- Compound Quantitation and Reported Detection Limits
- Chromatogram Quality
- Field Duplicate Data

The above items were compliant with USEPA QC criteria with the exception of the items discussed in the following text. The data have been validated according to the above procedures and qualified as described on the attached definitions list.

Surrogate Recoveries

The surrogate compounds tetrachloro-m-xylene (TCX) and decachlorobiphenyl (DCB) exhibited elevated percent recoveries for several samples, summarized below:

Sample ID	TCX DB-608	TCX HP-1701	DCB DB-608	DCB HP-1701
PBLK83	88	92	166*	114
SK-GW25	102	107	108	172*
SK-GW38	108	118	186*	166*
SK-GWFB-01	122	129	172*	155*

** Values outside of advisory QC limits (60-150%).*

No data have been qualified based upon these elevated surrogate recoveries, however, because the TCX and DCB QC limits are only advisory. Furthermore, at least one of the surrogates recovered within QC limits on each analytical column and the elevated surrogate recoveries are indicative of a potential high bias and none of the samples exhibited the presence of any pesticide/PCB target compounds.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results

Sample SK-GW38 was submitted for MS/MSD analysis. Four (4) out of 12 spike recoveries were outside of QC limits, although the relative percent difference (RPD) between the MS and MSD recoveries met all QC criteria. Non-compliant MS/MSD data are summarized below.

Non-Compliant MS/MSD Data

Compound	MS %R	MSD %R	RPD	QC Limits RPD	QC Limits %R
Endrin	134*	126*	6	21	56-121
4,4'-DDT	138*	140*	1	27	38-127

** Indicates values outside of QC limits.*

No data have been qualified based upon this data, however, because MS/MSD data is only advisory and other data does not indicate the need for qualification of the results. Furthermore, the endrin and 4,4'-DDT recoveries are indicative of a potential high bias and neither endrin nor 4,4'-DDT were reported in sample SK-GW38.

Calibration and GC Performance

The percent relative standard deviation (%RSD) for the compound delta-BHC in the initial calibration for the analytical column DB-608 was 21.2%, which exceeds the maximum %RSD of 20.0 specified in the Statement of Work (SOW). No data have been qualified based upon this non-conformance, however, because the %RSD for delta-BHC for the analytical column HP-1701 was 14.5%, which meets all applicable QC criteria. It should also be noted that the SOW allows up to two (2) target compounds to have a %RSD greater than 20.0% but less than 30.0%.

Field Duplicate Data

Sample SK-GWFD-01 is a field duplicate of sample SK-GW28 and sample SK-GWFD-02 is a field duplicate of sample SK-GW10. No pesticide/PCB target compounds were detected in either sample SK-GW10, SK-GW28 or their field duplicates. Therefore, the field duplicate data presented here are considered indicative of acceptable sampling and analytical precision.

Summary

No reasons were found during data validation to qualify any of the results reported. In summary, based on 448 sample data points, none of which were qualified as estimated, and none qualified as unusable, the usability of this package is 100%.

Anthony M. Doe	2 FEBRUARY 95
Reviewed By	Date
G. Fuhrenbach	2-2-95
Approved By	Date

Pesticide/PCB Analytical Data

Skinner Landfill Site
West Chester, Ohio

Sampling Dates: October 25, 26 and 27, 1994
Remedial Design Investigation

Compound	SK-GW06	SK-GW09	SK-GW10	SK-GWFD-02	SK-GW11	SK-GW17	SK-GW18	SK-GW25	SK-GW26
alpha-BHC	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
beta-BHC	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
delta-BHC	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
gamma-BHC (Lindane)	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Aldrin	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor epoxide	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan I	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Dieldrin	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDE	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Endrin	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Endosulfan II	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDD	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Endosulfan sulfate	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDT	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Methoxychlor	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Endrin ketone	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Endrin aldehyde	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
alpha-Chlordane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
gamma-Chlordane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Toxaphene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Aroclor-1016	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1221	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Aroclor-1232	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1242	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1248	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1254	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1260	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

All results expressed in ug/L.
Standard Organic Data Qualifiers have been applied.
Sample SK-GWFD-01 is a field duplicate of sample SK-GW28.
Sample SK-GWFD-02 is a field duplicate of sample SK-GW10.
Samples SK-GWFB-01 and SK-GWFB-02 are field blanks.

Pesticide/PCB Analytical Data

Skinner Landfill Site
West Chester, Ohio

Sampling Dates: October 25, 26 and 27, 1994
Remedial Design Investigation

Compound	SK-GW28	SK-GWFD-01	SK-GW30	SK-GW31	SK-GW38	SK-GW07R	SK-GWB5	SK-GWFB-01	SK-GWFB-02
alpha-BHC	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
beta-BHC	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
delta-BHC	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
gamma-BHC (Lindane)	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Aldrin	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor epoxide	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan I	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Dieldrin	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDE	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Endrin	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Endosulfan II	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDD	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Endosulfan sulfate	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDT	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Methoxychlor	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Endrin ketone	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Endrin aldehyde	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
alpha-Chlordane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
gamma-Chlordane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Toxaphene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Aroclor-1016	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1221	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Aroclor-1232	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1242	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1248	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1254	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1260	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

All results expressed in ug/L.
Standard Organic Data Qualifiers have been applied.
Sample SK-GWFD-01 is a field duplicate of sample SK-GW28.
Sample SK-GWFD-02 is a field duplicate of sample SK-GW10.
Samples SK-GWFB-01 and SK-GWFB-02 are field blanks.

SKINNER LANDFILL RDI
SDG: SKIN4

YES NO N/A

PART C: PESTICIDE/PCB ANALYSIS

1.0 Traffic Reports and Laboratory Narrative

1.1 Are Traffic Report Forms present for all samples? [✓] ___ ___

ACTION: If no, contact lab for replacement of missing or illegible copies.

1.2 Do the Traffic Reports or SDG Narrative indicate any problems with sample receipt, condition of the samples, analytical problems or special circumstances affecting the quality of the data? ___ [✓] ___

ACTION: If any sample analyzed as a soil, other than TCLP, contains 50%-90% water, all data should be qualified as estimated (J). If a soil sample, other than TCLP, contains more than 90% water, all data should be qualified as unusable (R).

ACTION: If samples were not iced upon receipt at the laboratory, flag all positive results "J" and all non-detects "UJ".

2.0 Holding Times

2.1 Have any PEST/PCB technical holding times, determined from date of collection to date of extraction, been exceeded? ___ [✓] ___

Water and soil samples for PEST/PCB analysis must be extracted within 7 days of the date of collection. Extracts must be analyzed within 40 days of the date extraction.

	YES	NO	N/A

ACTION: If technical holding times are exceeded, flag all positive results as estimated (J) and sample quantitation limits (UJ) and document in the narrative that holding times were exceeded. If analyses were done more than 14 days beyond holding time, either on the first analysis or upon re-analysis, the reviewer must use professional judgement to determine the reliability of the data and the effects of additional storage on the sample results. At a minimum, all the data should at least be qualified "J", but the reviewer may determine that non-detects are unusable (R).

3.0 Surrogate Recovery (Form II)

		YES	NO	N/A
3.1	Are the PEST/PCB Surrogate Recovery Summaries (Form II) present for each of the following matrices?			
	a. Low Water	[✓]		
	b. Soil	[ ]		✓
3.2	Are all the PEST/PCB samples listed on the appropriate Surrogate Recovery Summary for each of the following matrices?			
	a. Low Water	[✓]		
	b. Soil	[ ]		✓

ACTION: Call lab for explanation/resubmittals. If missing deliverables are unavailable, document effect in data assessments.

		YES	NO	N/A
3.3	Were outliers marked correctly with an asterisk?	[✓]		

ACTION: Circle all outliers in red.

		YES	NO	N/A
3.4	Were surrogate recoveries of TCX or DCB outside of the contract specification for any sample or blank? (60-150%)	✓	[ ]	

	YES	NO	N/A
ACTION: No qualification is done if surrogates are diluted out. If recovery for both surrogates is below the contract limit, but above 10%, flag all results for that sample 'J". If recovery is < 10% for either surrogate, qualify positive results 'J" and flag non-detects "R". If recovery is above the contract advisory limits for both surrogates qualify positive values "J".			
3.5 Were surrogate retention times (RT) within the windows established during the initial 3-point analysis of Individual Standard Mixture A?	[√]	___	___
ACTION: If the RT limits are not met, the analysis may be qualified unusable (R) for that sample on the basis of professional judgement.			
3.6 Are there any transcription/calculation errors between raw data and Form II?	___	[√]	___
ACTION: If large errors exist, call lab for explanation/resubmittal. Make any necessary corrections and document effect in data assessments.			
4.0 Matrix Spikes (Form III)			
4.1 Is the Matrix Spike/Matrix Spike Duplicate Recovery Form (Form III) present?	[√]	___	___
4.2 Were matrix spikes analyzed at the required frequency for each of the following matrices? (1 MS/MSD must be performed for every 20 samples of similar matrix or concentration level)			
a. Low Water	[√]	___	___
b. Soil	[ ]	___	√
ACTION: If any matrix spike data are missing, take the action specified in 3.2 above.			

YES NO N/A

4.3 How many PEST/PCB spike recoveries are outside QC limits?

Water	Soil
4 out of 12	N/A out of 12

4.4 How many RPD's for matrix spike and matrix spike duplicate recoveries are outside QC limits?

Water	Soil
0 out of 6	N/A out of 6

ACTION: No action is taken on MS/MSD data alone. However, using informed professional judgement, the data reviewer may use the matrix spike and matrix spike duplicate results in conjunction with other QC criteria and determine the need for some qualification of the data.

5.0 Blanks (Form IV)

5.1 Is the Method Blank Summary (Form IV) present? [✓] ___ ___

5.2 Frequency of Analysis: For the analysis of Pesticide/PCB TCL compounds, has a reagent/ method blank been analyzed for each SDG or every 20 samples of similar matrix or concentration or each extraction batch, whichever is more frequent? [✓] ___ ___

ACTION: If any blank data are missing, take the action specified above in 3.2. If blank data is not available, reject (R) all associated positive data. However, using professional judgement, the data reviewer may substitute field blank data for missing method blank data.

5.3 Has a PEST/PCB instrument blank been analyzed at the beginning of every 12 hr. period following the initial calibration sequence? (minimum contract requirement)

YES NO N/A

ACTION: If any blank data are missing, call lab for explanation/resubmittals. If missing deliverables are unavailable, document the effect in data assessments.

5.4 Chromatography: review the blank raw data - chromatograms, quant reports or data system printouts.

Is the chromatographic performance (baseline stability) for each instrument acceptable for PEST/PCBs? [✓] ___ ___

ACTION: Use professional judgement to determine the effect on the data.

6.0 Contamination

NOTE: "Water blanks", "distilled water blanks" and "drilling water blanks" are validated like any other sample and are not used to qualify the data. Do not confuse them with the other QC blanks discussed below.

6.1 Do any method/instrument/reagent/cleanup blanks have positive results for PEST/PCBs? When applied as described below, the contaminant concentration in these blanks are multiplied by the sample Dilution Factor and corrected for % moisture when necessary. ___ [✓] ___

6.2 Do any field/rinse blanks have positive PEST/PCB results? ___ [✓] ___

ACTION: Prepare a list of the samples associated with each of the contaminated blanks. (Attach a separate sheet)

NOTE: All field blank results associated to a particular group of samples (may exceed one per case or one per day) may be used to qualify data. Blanks may not be qualified because of contamination in another blank. Field blanks must be qualified for surrogate, or calibration QC problems.

YES NO N/A

ACTION: Follow the directions in the table below to qualify TCL results due to contamination. Use the largest value from all the associated blanks.

Sample conc > CRQL but < 5x blank	Sample conc < CRQL & is < 5x blank value	Sample conc > CRQL & > 5x blank value
Flag sample result with a "U";	Report CRQL & qualify "U"	No qualification is needed

NOTE: If gross blank contamination exists, all data in the associated samples should be qualified as unusable (R).

6.3 Are there field/rinse/equipment blanks associated with every sample? [✓] ___ ___

ACTION: For low level samples, note in data assessment that there is no associated field/rinse/equipment blank. Exception: samples taken from a drinking water tap do not have associated field blanks.

7.0 Calibration and GC Performance

7.1 Are the following Gas Chromatograms and Data Systems Printouts for both columns present for all samples, blanks, MS/MSD?

a. peak resolution check [✓] ___ ___

b. performance evaluation mixtures [✓] ___ ___

c. aroclor 1016/1260 [✓] ___ ___

d. aroclors 1221✓, 1232✓, 1242✓, 1248✓, 1254✓ [✓] ___ ___

e. toxaphene [✓] ___ ___

f. low points individual mixtures A & B [✓] ___ ___

g. med points individual mixtures A & B [✓] ___ ___

h. high points individual mixtures A & B [✓] ___ ___

	YES	NO	N/A
i. instrument blanks	[✓]	___	___

ACTION: If no, take action specified in 3.2 above.

7.2 Are Forms VI - PEST 1-4 present and complete for each column and each analytical sequence? [✓] ___ ___

ACTION: If no, take action specified in 3.2 above.

7.3 Are there any transcription/calculation errors between raw data and Forms VI? ___ [✓] ___

ACTION: If large errors exist, call lab for explanation/resubmittal, make necessary corrections and document effect in data assessments.

7.4 Do all standard retention times, including each pesticide in each level of Individual Mixtures A & B, fall within the windows established during the initial calibration analytical sequence? (For Initial Calibration Standards, Form VI - PEST - 1). [✓] ___ ___

ACTION: If no, all samples in the entire analytical sequence are potentially affected. Check to see if the chromatograms contain peaks within an expanded window surrounding the expected retention times. If no peaks are found and the surrogates are visible, non-detects are valid. If peaks are present and cannot be identified through pattern recognition or using a revised RT window, qualify all positive results and non-detects as unusable (R).
For aroclors, RT may be outside the RT window, but the aroclor may still be identified from the individual pattern.

7.5 Are the linearity criteria for the initial analyses of Individual Standards A & B within limits for both columns? (% RSD must be < 20.0% for all analytes except for the 2 surrogates, which must not exceed 30.0 % RSD). See Form VI PEST - 2. [ ] [✓] ___

DB-608
DELTA-DHL

	YES	NO	N/A

ACTION: If no, qualify all associated positive results generated during the entire analytical sequence "J" and all non-detects "UJ". When RSD >90%, flag all non-detect results for that analyte R (unusable).

7.6 Is the resolution between any two adjacent peaks in the Resolution Check Mixture > 60.0% for both columns? (Form VI-PEST - 4)	[√]	___	___

ACTION: If no, positive results for compounds that were not adequately resolved should be qualified "J". Use professional judgement to determine if non-detects which elute in areas affected by co-eluting peaks should be qualified "N" as presumptive evidence of presence or unusable (R).

7.7 Is Form VII - Pest-1 present and complete for each Performance Evaluation Mixture analyzed during the analytical sequence for both columns?	[√]	___	___

ACTION: If no, take action as specified in 3.2 above.

7.8 Has the individual % breakdown exceeded 20.0% on either column.	___	[√]	___
- for 4,4' - DDT?	___	[√]	___
- for endrin?	___	[√]	___
Has the combined % breakdown for 4,4'- DDT/ Endrin exceeded 30.0% on either column? (required in all instances)	___	[√]	___

ACTION: 1. If any % breakdown has failed the QC criteria in either PEM in steps 2 and 17 in the initial calibration sequence (p. D-38/Pest SOW 3/90), qualify all sample analyses in the entire analytical sequence as described below.

YES NO N/A

2. If any % breakdown has failed the QC criteria in a PEM Verification calibration, review data beginning with the samples which followed the last in-control standard until the next acceptable PEM & qualify the data as described below.

a. 4,4'-DDT Breakdown: If 4,4'-DDT breakdown is greater than 20.%:

   i. Qualify all positive results for DDT with 'J". If DDT was not detected, but DDD and DDE are positive, then qualify the quantitation limit for DDT as unusable (R).

   ii. Qualify positive results for DDD and/or DDE as presumptively present at an approximated quantity (NJ).

b. Endrin Breakdown: If endrin breakdown is greater than 20.0%:

   i. Qualify all positive results for endrin with "J". If endrin was not detected, but endrin aldehyde and endrin ketone are positive, then qualify the quantitation limit for endrin as unusable (R).

   ii. Qualify positive results for endrin ketone and endrin aldehyde as presumptively present at an approximated quantity (NJ).

c. Combined Breakdown: If the combined 4,4'-DDT and endrin breakdown is greater than 30.0%:

   i. Qualify all positive results for DDT and endrin with "J". If endrin was not detected, but endrin aldehyde and endrin ketone are positive, then qualify the quantitation limit for endrin as unusable (R). If DDT was not detected, but DDD and DDE are positive, then qualify the quantitation limit for DDT as unusable (R).

	YES	NO	N/A

ii. Qualify positive results for endrin ketone and endrin aldehyde as presumptively present at an approximated quantity (NJ). Qualify positive results for DDD and/or DDE as presumptively present at an approximated quantity (NJ).

7.9 Are the relative percent difference (RPD) values for all PEM analytes <25.0%? (Form VII-PEST-1) [√] ___ ___

ACTION: If no, qualify all associated positive results generated during the analytical sequence "J" and sample quantitation limits "UJ".

NOTE: If the failing PEM is part of the initial calibration. all samples are potentially affected. If the offending standard is a verification calibration, the associated samples are those which followed the last in-control standard until the next passing standard.

7.10 Have all samples been injected within a 12 hr. period beginning with the injection of an Instrument Blank? [√] ___ ___

ACTION: If no, use professional judgement to determine the severity of the effect on the data and qualify accordingly.

7.11 Is Form VII - Pest-2 present and complete for each INDA and INDB Verification Calibration analyzed? [√] ___ ___

ACTION: If no, take action specified in 3.2 above.

7.12 Are there any transcription/calculation errors between raw data and Form VII - Pest-2? ___ [√] ___

ACTION: If large errors exists, call lab for explanation/resubmittal, make any necessary corrections and document effect in data assessments. under "Conclusions".

YES NO N/A

7.13 Do all standard retention times for each INDA and INDB Verification Calibration fall within the windows established by the initial calibration sequence? [√] ___ ___

ACTION: If no, beginning with the samples which followed the last in-control standard, check to see if the chromatograms contain peaks within an expanded window surrounding the expected retention times. If no peaks are found and the surrogates are visible, non-detects are valid. If peaks are present and cannot be identified through pattern recognition or using a revised RT window, qualify all positive results and non-detects as unusable (R).

7.14 Are RPD values for all verification calibration standard compounds < 25.0%? [√] ___ ___

ACTION: If the RPD is >25.0% for the compound being quantitated, qualify all associated positive results "J" and non-detects "UJ". The "associated samples" are those which followed the last in-control standard up to the next passing standard containing the analyte which failed the criteria. If the RPD is >90%, flag all non-detects for that analyte R (unusable).

8.0 Analytical Sequence Check (Form VIII-PEST)

8.1 Is Form VIII present and complete for each column and each period of analyses? [√] ___ ___

ACTION: If no, take action specified in 3.2 above.

8.2 Was the proper analytical sequence followed for each initial calibration and subsequent analyses? (see CLP SOW p. D-39 & D-41/PEST) [√] ___ ___

ACTION: If no, use professional judgement to determine the severity of the effect on the data and qualify it accordingly. Generally, the effect is negligible unless the sequence was grossly altered or the calibration was also out of limits.

	YES	NO	N/A
9.0 Cleanup Efficiency Verification (Form IX)			
9.1 Is Form IX - Pest-1 present and complete for each lot of Florisil Cartridges used? (Florisil Cleanup is required for all Pest/PCB extracts.)	[✓]	___	___
ACTION: If no, take action specified in 3.2 above. If data suggests that florisil cleanup was not performed, make note in "Contract Problems/Non-Compliance".			
9.2 Are all samples listed on the Pesticide Florisil Cartridge Check Form?	[✓]	___	___
ACTION: If no, take action specified in 3.2 above.			
9.3 If GPC Cleanup was performed, (mandatory for all soil sample extracts) is Form IX - Pest-2 present?	[ ]	___	✓
ACTION: If no, take action specified in 3.2 above.			
ACTION: If GPC was not performed when required, make note in" Contract Problems/Non-Compliance" section of data assessment.			
9.4 Are percent recoveries (% R) of the pesticide and surrogate compounds used to check the efficiency of the cleanup procedures within QC limits:			
80-120% for florisil cartridge check?	[✓]	___	___
80-110% for GPC calibration?	[ ]	___	✓
Qualify only the analyte(s) which fail the recovery criteria as follows:			
ACTION: If % R are < 80%, qualify positive results "J" and quantitation limits "UJ". Non-detects should be qualified "R" if zero %R was obtained for pesticide compounds. Use professional judgement to qualify positive results if recoveries are greater than the upper limit.			

	YES	NO	N/A

NOTE: Sample data should be evaluated for potential interferences if recovery of 2,4,5-trichlorophenol was > 5% in the Florisil Cartridge Performance Check analysis. Make note in Contract Problems/ Non-Compliance section of reviewer narrative.

NOTE: The raw data of the GPC Calibration Check analysis is evaluated for pattern similarity with previously run Aroclor standards.

10.0 Pesticide/PCB Identification

	YES	NO	N/A
10.1 Is Form X complete for every sample in which a pesticide or PCB was detected?	[√]	___	___
ACTION: If no, take action specified in 3.2 above.			
10.2 Are there any transcription/calculation errors between raw data and Forms 6E, 6G, 7E, 7D, 8D, 9A, B, 10A.	___	[√]	___
ACTION: If large errors exist, call lab for explanation/resubmittal, make necessary corrections and note error under "Conclusions".			
10.3 Are retention times (RT) of sample compounds within the established RT windows for both analyses?	[√]	___	___
Was GC/MS confirmation provided when required (when compound concentration is > 10 ug/ml in final extract)?	[ ]	___	√
Action: Use professional judgement to qualify positive results which were not confirmed by GC/MS. Qualify as unusable (R) all positive results which were not confirmed by second GC column analysis. Also qualify as unusable (R) all positive results not meeting RT window unless associated standard compounds are similarly biased. (see Functional Guidelines) The reviewer should use professional judgement to assign an appropriate quantitation limit.			

	YES	NO	N/A
10.4 Is the percent difference (% D) calculated for the positive sample results on the two GC columns < 25.0%?	[√]	___	___

ACTION: If the reviewer finds neither column shows interference for the positive hits, the data should be flagged as follows:

% Difference	Qualifier
25-50 %	J
50-90 %	JN
> 90 %	R

NOTE: The lower of the two values is reported on Form I. If using professional judgement, the reviewer determines that the higher result was more acceptable, the reviewer should replace the value and indicate the reason for the change in the data assessment.

10.5 Check chromatograms for false negatives, especially the multiple peak compounds toxaphene and PCBs. Were there any false negatives?	___	[√]	___

ACTION: Use professional judgement to decide if the compound should be reported. If the appropriate PCB standards were not analyzed, qualify the data unusable (R).

11.0 Compound Quantitation and Reported Detection Limits

11.1 Are there any transcription/calculation errors in Form I results? Check at least two positive values. Were any errors found?	___	[√]	___

NOTE: Single-peak pesticide results can be checked for rough agreement between quantitative results obtained on the two GC columns. The reviewer should use professional judgement to decide whethera much larger concentration obtained on one column versus the other indicates the presence of an interfering compound. If an interfering compound is indicated, the lower of the two values should be reported and qualified as presumptively present at an approximated quantity (NJ). This necessitates a determination of an estimated concentration on the confirmation column. The narrative should indicate that the presence of interferences has interfered with the evaluation of the second column confirmation.

	YES	NO	N/A
11.2 Are the CRQLs adjusted to reflect sample dilutions and, for soils, % moisture?	[ ]		✓

ACTION: If errors are large, call lab for explanation/resubmittal, make any necessary corrections and document effect in data assessments.

ACTION: When a sample is analyzed at more than one dilution, the lowest CRQLs are used (unless a QC exceedance dictates the use of the higher CRQL data from the diluted sample analysis). Replace concentrations that exceed the calibration range in the original analysis by crossing out the "E" value on the original Form I and substituting it with data from the analysis of diluted sample. Specify which Form I is to be used, then draw a red "X" across the entire page of all Form I's that should not be used, including any in the summary package.

ACTION: Quantitation limits affected by large, off-scale peaks should be qualified as unusable (R). If the interference is on-scale, the reviewer can provide an approximated quantitation limit (UJ) for each affected compound.

12.0 Chromatogram Quality

	YES	NO	N/A
12.1 Were baselines stable?	[✓]		
12.2 Were any electropositive displacement (negative peaks) or unusual peaks seen?		[✓]	

ACTION: Address comments under System Performance of data assessment.

	YES	NO	N/A
13.0 Field Duplicates			
13.1 Were any field duplicates submitted for PEST/PCB analysis?	[✓]	___	___

ACTION: Compare the reported results for field duplicates and calculate the relative percent difference.

ACTION: Any gross variation between field duplicate results must be addressed in the reviewer narrative. However, if large differences exist, identification of field duplicates should be confirmed by contacting the sampler.

Organic Data Qualifiers

U - The compound was analyzed for but not detected at or above the quantitation limit indicated.

J - The compound was analyzed for and determined to be present in the sample because the mass spectrum of the compound meets the identification criteria of the method. The concentration reported is an estimated value, less than the practical quantitation limit for the sample.

B - The compound is also found in an associated blank.

V - The reported value is considered estimated due to variance from quality control criteria

S - The reported value is suspected to be due to laboratory contamination.

R - The reported value is unusable and rejected due to variance from quality control criteria.

D - The reported value is taken from the analysis of a diluted sample.

E - The reported value exceeds the calibration range of the instrument.

N - Indicates presumptive evidence for compound identification.

A - Indicates that the compound is an aldol condensation product.

C - Compound identification has been qualitatively confirmed by GC/MS.

P - Indicates that the percent difference between the results from the two analytical columns is greater than 25%.

Inorganic Data Validation Summary
Skinner Landfill Site RDI
West Chester, Ohio
Analytical Laboratory: NYTEST Environmental, Inc.
Sample Delivery Group SKIN4

Inorganic metal analytical results for fourteen (14) total matrix groundwater samples, twelve of which were also analyzed for field filtered (dissolved) metals, with matrix QC, two (2) field duplicates and two (2) field blanks from the Skinner Landfill site were reviewed to evaluate the data quality. Data were assessed in accordance with the United States Environmental Protection Agency (USEPA) United States Environmental Protection Agency (USEPA) **Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analysis** (October 1987 Revision) and the USEPA Region II **Checklist for Evaluation of Metals Data for the Contract Laboratory Program, Appendix A.1**, where applicable. This validation pertains to the following samples collected by Rust Environment & Infrastructure (RUST) personnel on October 25, 26, 27 and 28, 1994.

SKFD02	**SKGWB5**	**SKGWFB**	**SKGW06**	**SKGW09**
SKGW10	**SKGW11**	**SKGW17**	**SKGW18**	**SKGW25**
SKGW26	**SKGW28**	**SKGW30**	**SKGW31**	**SKGW38**
SKGW38D	**SKGW38S**	**SKGW7R**	**SKGB02**	**DKFB02**
DKFD02	**DKGWB5**	**DKGWFB**	**DKGW09**	**DKGW10**
DKGW11	**DKGW17**	**DKGW18**	**DKGW25**	**DKGW26**
DKGW28	**DKGW30**	**DKGW31**	**DKGW38**	**DKGW38D**
DKGW38S	**DWFD01**	**GWFD01**		

The following items/criteria applicable to the samples listed above were reviewed:

- Deliverable Requirements
- Case Narrative
- Holding Times and Sample Preparation
- Initial and Continuing Calibration Data
- CRDL Standards for AA and ICP
- Instrument and Preparation Blank Summary and Data
- ICP Interference Check Sample
- Spiked Sample Recovery Data
- Laboratory Duplicate Data
- Laboratory Control Samples (LCS)
- ICP Serial Dilution Data
- Graphite Furnace Atomic Absorption (GFAA) QC Analysis
- Method of Standard Addition (MSA) Results
- Verification of Instrument Parameters
- Field Duplicate Data

The above items were in compliance with USEPA QC criteria with the exception of the items discussed in the following text. The data have been validated according to the above procedures and qualified as described on the attached definitions list.

Deliverable Requirements

The samples designated with the prefix DK or DW by the laboratory were the samples that were field filtered and submitted for dissolved analyses

It was noted during review of the cyanide data that on one or more occasions more than ten samples were analyzed between CCV/CCB pairs. The laboratory apparently did not consider the prep blank or laboratory control sample to count towards the ten sample limit between CCV/CCB pairs. No data have been qualified based upon this nonconformance, however, because the quality of the cyanide results was not affected. The nature of this nonconformance has been discussed with laboratory personnel so that it will not be repeated in the future.

CRDL Standard for AA and ICP

A CRDL standard must exhibit a percent recovery between 80 and 120 to be considered within QC limits. Two final CRDL standards for ICP exhibited a low percent recoveries for cadmium (64.8% and 78.0%). The associated cadmium results have been flagged with a "V" and are considered estimated with a potential low bias.

Laboratory Duplicate Samples

Sample DKGW38 and its laboratory duplicate DKGW38D exhibited sodium and manganese concentrations that were less than five times the Contract Required Detection Limit (CRDL). The difference between the primary sample (DKGW38) and the duplicate sample sodium and manganese results was greater than the CRDL. Therefore, in accordance with USEPA valildation guidelines the sodium and manganese results in sample DKGW38 are considered estimated and have been flagged with a "V".

ICP Serial Dilution Data

The ICP Serial Dilution analysis performed on samples DKGW30, SKGW28 and SKGW38 exhibited values for a number of analytes that were outside the QC limit (difference of ten percent or less). The DKGW30 iron, SKGW28 potassium and sodium and the SKGW38 iron and manganese results were greater than ten (10) times the instrument detection limit (IDL) and the percent difference for the serial dilution analysis exceeded the QC limit. In accordance with EPA data validation criteria, the associated sample results have been flagged with a "V" and are considered estimated.

Field Duplicate Analysis

Field duplicate samples were collected for samples SKGW28, SKGW10, DKGW28 and DKGW10. Table 1 summarizes the relative percent difference (RPD) between the primary sample results and the field duplicate sample results. Although the USEPA **Functional Guidelines for Evaluating Inorganics Analyses** has no established QC limits for field duplicate RPD data, RUST considers RPD values of 40% or less an indication of acceptable sampling and analytical precision.

The SKGW28/SKGWFD01 aluminum and iron, and the SKGW10/SKFD02 chromium and copper RPD values exceeded 40 percent. Therefore, the SKGW28 aluminum and iron values and the SKGW10 chromium and copper values are considered estimated and have been flagged with a "V".

It should be noted that elevated RPD values for results between the IDL and the CRDL are not unexpected and are not necessarily indicative of poor sampling and/or analytical precision. The SKGW28/SKGWFD01 lead, SKGW10/SKFD02 zinc and the DKGW10/DKFD02 copper, iron and manganese results are not considered to be indicative of poor sampling or analytical precision.

Summary

In summary, based on 589 sample data points, 37 of which were qualified as estimated, and none qualified as unusable, and since estimated data are considered valid and usable, the usability of this package is 100%.

Ed Fahrenkopf — 1-10-95

Reviewed By — Date

Anthony M. Nace — 10 JANUARY 95

Approved By — Date

Table 1
Field Duplicate Relative Percent Difference Data
Skinner Landfill RDI, October 1994

Analyte	SKGW-28	SKGWFD01	RPD
Aluminum	714	1450	-68.02
Barium	93.9	95.4	-1.58
Calcium	42500	42500	0.00
Iron	855	1410	-49.01
Lead	0	3	-200.00
Magnesium	18700	18900	-1.06
Manganese	36.6	45.4	-21.46
Potassium	17300	17300	0.00
Sodium	428000	422000	1.41

Analyte	SKGW-10	SKFD-02	RPD
Aluminum	855	741	14.29
Barium	125	110	12.77
Calcium	243000	239000	1.66
Chromium	8.8	5.4	47.89
Copper	12.8	7.8	48.54
Iron	2860	2140	28.80
Lead	5.4	3.9	32.26
Magnesium	91200	89900	1.44
Manganese	591	562	5.03
Potassium	54900	54100	1.47
Sodium	159000	157000	1.27
Zinc	8	0	200.00

Analyte	DKGW28	DWFD01	RPD
Barium	93.9	87.8	6.71
Calcium	42600	41300	3.10
Magnesium	19100	18700	2.12
Manganese	23.4	28.7	-20.35
Potassium	17700	17300	2.29
Sodium	421000	413000	1.92

Analyte	DKGW10	DKFD02	RPD
Barium	79.1	83.3	-5.17
Calcium	238000	239000	-0.42
Copper	6.8	0	200.00
Iron	0	28.2	-200.00
Lead	4.3	0	200.00
Magnesium	89400	90800	-1.55
Manganese	495	496	-0.20
Potassium	53300	52700	1.13
Sodium	156000	157000	-0.64

Inorganic Analytical Data

Skinner Landfill Site
West Chester, Ohio

Sampling Dates: October 25, 26 and 27, 1994
Remedial Design Investigation

Compound	SKGW06	SKGW7R	SKGW09	DKGW09	SKGW10	DKGW10	SKGW11	DKGW11	SKGW17	DKGW17	SKGW18	DKGW18
Aluminum	NR	NR	335	57 U	855	57 U	57 U	57 U	57 U	57 U	57 U	57 U
Antimony	NR	NR	38 U	38 U	38 U	38 U	38 U	38 U	38 U	38 U	38 U	38 U
Arsenic	NR	NR	5 U	5 U	5 U	5 U	5 U	5 U	20	20.4	9.9 B	11.1
Barium	NR	NR	884	881	125 B	79.1 B	90.4 B	94.6 B	210	215	176 B	176 B
Beryllium	NR	NR	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Cadmium	NR	NR	2 UV	2 UV	2 UV	2 UV	2 UV	2 UV	2 UV	2 UV	2 UV	2 UV
Calcium	NR	NR	88400	88400	243000	238000	251000	255000	116000	115000	182000	185000
Chromium	NR	NR	5 UV	5 U	8.8 B	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Cobalt	NR	NR	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Copper	NR	NR	5 UV	5 U	12.8 B	6.8 B	5 U	5 U	5 U	5 U	5 U	5 U
Iron	NR	NR	2390	1590	2860	16 U	472	478	12000	12000	1130	160
Lead	NR	NR	3 U	3 U	5.4	4.3	3 U	3 U	3 U	3 U	3 U	3 U
Magnesium	NR	NR	39500	39300	91200	89400	81700	80800	38600	37700	48600	48600
Manganese	NR	NR	35.4	22.8	591	495	4430	4540	922	916	646	648
Mercury	NR	NR	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	NR	NR	26 U	26 U	26 U	26 U	33.8 B	26 U	26 U	26 U	26 U	26 U
Potassium	NR	NR	3870 B	4460 B	54900	53300	39200	39700	35000	34400	35700	37800
Selenium	NR	NR	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Silver	NR	NR	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Sodium	NR	NR	54100	54000	159000	156000	178000	182000	64200	62800	90100	89300
Thallium	NR	NR	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vanadium	NR	NR	17 U	17 U	17 U	17 U	17 U	17 U	17 U	17 U	17 U	17 U
Zinc	NR	NR	5 U	5 U	8 B	5 U	5 U	5 U	5 U	5 U	7.2 B	5 U
Cyanide	10 U	10 U	10 U	NR	10	NR	10 U	NR	10 U	NR	10 U	NR

All results expressed in ug/L.
Standard Inorganic Data Qualifiers have been applied.

Inorganic Analytical Data

Skinner Landfill Site
West Chester, Ohio

Sampling Dates: October 25, 26 and 27, 1994
Remedial Design Investigation

Compound	SKGW25	DKGW25	SKGW26	DKGW26	SKGW28	DKGW28	SKGW30	DKGW30	SKGW31	DKGW31	SKGW38	DKGW38
Aluminum	1020	57 U	106 B	57 U	714 V	57 U	97 B	57 U	1540	57 U	57 U	57 U
Antimony	38 U	38 U	38 U	38 U	38 U	38 U	38 U	38 U	38 U	38 U	38 U	38 U
Arsenic	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Barium	106 B	100 B	366	331	93.9 B	93.9 B	332	336	572	534	771	719
Beryllium	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Cadmium	2 UV	2 UV	2 UV	2 UV	2 UV	2 UV	2 UV	2 UV	2 UV	2 UV	2 UV	2 UV
Calcium	130000	133000	74700	78000	42500	42600	63300	63700	114000	106000	74000	77000
Chromium	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Cobalt	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Copper	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iron	1710	99.2 B	203	16 U	855 V	16 U	360	437 V	2810	100	1580 V	1490
Lead	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3.3	3 U	3 U	3 U
Magnesium	37200	38100	38300	40100	18700	19100	29200	29400	43600	41500	38700	39800
Manganese	200	166	621	504	36.6	23.4	55.5	56.5	309	241	66.5 V	90.4 V
Mercury	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	26 U	26 U	26 U	26 U	26 U	26 U	26 U	26 U	26 U	26 U	26 U	26 U
Potassium	5510	5740	17300	16900	17300 V	17700	11900	12500	5940	5250	7940	9980
Selenium	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Silver	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Sodium	45600	46700	171000	160000	428000 V	421000	136000	136000	53100	50700	155000	207000 V
Thallium	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vanadium	17 U	17 U	17 U	17 U	17 U	17 U	17 U	17 U	17 U	17 U	17 U	17 U
Zinc	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Cyanide	10 U	NR	10 U	NR	10 U	NR	10 U	NR	10 U	NR	10 U	NR

All results expressed in ug/L.
Standard Inorganic Data Qualifiers have been

DKGW31
57 U
38 U

Inorganic Analytical Data

Skinner Landfill Site
West Chester, Ohio

Sampling Dates: October 25, 26 and 27, 1994
Remedial Design Investigation

Compound	GWFD01	DWFD01	SKGWB5	DKGWB5	SKGWFB	DKGWFB	SKFB02	DKFB02	SKFD02	DKFD02
Aluminum	1450	57 U	190 B	57 U	57 U	57 U	57 U	57 U	741	57 U
Antimony	38 U	38 U	38 U	38 U	38 U	38 U	38 U	38 U	38 U	38 U
Arsenic	5 U	5 U	14.9	14.2	5 U	5 U	5 U	5 U	5 U	5 U
Barium	95.4 B	87.8 B	55.1 B	52.3 B	11 U	11 U	11 U	11 U	110 B	83.3 B
Beryllium	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Cadmium	2 UV	2 UV	2 UV	2 UV	2 UV	2 UV	2 UV	2 UV	2 UV	2 UV
Calcium	42500	41300	234000	252000	5750	5780	1390 U	1390 U	239000	239000
Chromium	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5.4 B	5 U
Cobalt	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Copper	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	7.8 B	5 U
Iron	1410	16 U	9780	7150	16 U	16 U	16 U	16 U	2140	28.2 B
Lead	3	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3.9	3 U
Magnesium	18900	18700	50400	54500	1550 U	1550 U	1550 U	1550 U	89900	90800
Manganese	45.4	28.7	659	641	2 U	2 U	2 U	2 U	562	496
Mercury	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	26 U	26 U	26 U	26 U	26 U	26 U	26 U	26 U	26 U	26 U
Potassium	17300	17300	5740	5740	840 U	840 U	840 U	840 U	54100	52700
Selenium	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Silver	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Sodium	422000	413000	43600	45700	2650 B	2640 B	1050 B	808 B	157000	157000
Thallium	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vanadium	17 U	17 U	17 U	17 U	17 U	17 U	17 U	17 U	17 U	17 U
Zinc	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Cyanide	10 U	NR	10 U	NR	10 U	NR	10 U	NR	10	NR

All results expressed in ug/L.
Standard Inorganic Data Qualifiers have been applied.

	YES	NO	N/A
.1 Contract Compliance Screening Report (CCS) - Present?	[ ]		✓
ACTION: If no, contact RSCC.			
.2 Record of Communication (from RSCC) - Present?	[ ]		✓
ACTION: If no, request from RSCC.			
.3 Trip Report - Present and complete?	[ ]		✓
ACTION: If no, contact RSCC for trip report.			
Sample Traffic Report - Present?	[✓]		
Legible?	[✓]		
ACTION: If no, request from Regional Sample Control Center (RSCC).			
.5 Cover Page - Present?	[✓]		
Is cover page properly filled in and signed by the lab manager or the manager's designee?	[✓]		
ACTION: If no, prepare Telephone Record Log, and contact laboratory.			
Do numbers of samples correspond to numbers on Record of Communication?	[✓]		
Do sample numbers on cover page agree with sample numbers on:			
(a) Traffic Report Sheet?	[✓]		
(b) Form I's?	[ ]		
ACTION: If no for any of the above, contact RSCC for clarification.			

		Yes	No	N/A
1.6	**Form I to IX**			
1.6.1	Are all the Form I through Form IX labeled with:			
	Laboratory name?	✓		
	Case/SAS number?	✓		
	EPA sample No.?			✓
	SDG No.?	✓		
	Contract No.?			✓
	Correct units?	✓		
	Matrix?	✓		

ACTION: If no for any of the above, note under Contract Problem/Non-Compliance section of the "Data Assessment Narrative".

1.6.2	Do any computation/transcription errors exceed 10% of reported values on Forms I-IX for:			
	(NOTE: Check all forms against raw data.)			
	(a) all analytes analyzed by ICP?	✓		
	(b) all analytes analyzed by GFAA?	✓		
	(c) all analytes analyzed by AA Flame?	✓		
	(d) Mercury?	✓		
	(e) Cyanide?	SDF ✗		

ACTION: If yes, prepare Telephone Log, contact laboratory for corrected data and correct errors with red pencil and initial.

Title: Evaluation of Metals Data for the Contract Laboratory Program
Appendix A.1: Data Assessment - Contract Compliance (Total Review)

Date: Jan. 1992
Number: HW-2
Revision: 11

		YES	NO	N/A
A.7	Raw Data			
A.7.1	Digestion Log* for flame AA/ICP (Form XIII) present?	✓		
	Digestion Log for furnace AA Form XIII present?	✓		
	Distillation Log for mercury Form XIII present?	✓		
	Distillation Log for cyanides Form XIII present?	✓		
	Are pH values (pH<2 for all metals, pH>12 for cyanide) present?	✓		
	*Weights, dilutions and volumes used to obtain values.			
	Percent solids calculation present for soils/sediments?			✓
	Are p[illegible]ation dates present on sample preparation logs [illegible] sheets?	✓		
A.7.2	Meas[illegible]nt read out record present? ICP	✓		
	Flame AA			✓
	Furnace AA	✓		
	Mercury	✓		
	Cyanides	✓		
A.7.3	Are all raw data to support all sample analyses and QC operations present?	✓		
	Legible?	✓		
	Properly Labeled?	✓		

ACTION: If no for any of the above questions in sections A.1.7.1 through A.1.7.3, write Telephone Record Log and contact laboratory for resubmittals.

Compliance (Total Review)

		YES	NO	N/A
1.8	**Holding Times** - (aqueous and soil samples)			
	(Examine sample traffic reports and digestion/distillation logs.)			
	Mercury analysis (28 days). . . . . exceeded?	___	[✓]	___
	Cyanide distillation (14 days). . . . . exceeded?	___	[✓]	___
	Other Metals analysis (6 months). . . . exceeded?	___	[✓]	___
	NOTE: Prepare a list of all samples and analytes for which holding times have been exceeded. Specify the number of days from date of collection to the date of preparation (from raw data). Attach to checklist.			
	ACTION: If yes, reject (red-line) values less than Instrument Detection Limit (IDL) and flag as estimated (J) the values above IDL even though sample(s) was preserved properly.			
1.8.2	Is pH of aqueous samples for: Metals Analysis >2?	___	[✓]	___
	Cyanides Analysis <12?	___	[✓]	___
	Action: If yes, flag the associated metals and cyanides data as estimated.			
1.9	**Form I (Final Data)**			
1.9.1	Are all Form I's present and complete?	[✓]	___	___
	ACTION: If no, prepare telephone record log and contact laboratory for submittal.			
1.9.2	Are correct units (ug/l for waters and mg/kg for soils) indicated on Form I's?	[✓]	___	___
	Are soil sample results for each parameter corrected for percent solids?	[___]	___	✓
	Are all "less than IDL" values properly coded with "U"?	[✓]	___	___

		YES	NO	N/A
	Are the correct concentration qualifiers used with final data?	✓		
	ACTION: If no for any of the above, prepare Telephone Record Log, and contact laboratory for corrected data.			
1.9.3	Are EPA sample # s and corresponding laboratory sample ID # s the same as on the Cover Page, Form I's and in the raw data?			✓
	Was a brief physical description of samples given on Form I's?	✓		
	Was the dilution of any sample diluted beyond the requirements of the contract noted on Form I or Form XIV?		✓	
	ACTION: If no for any of the above, note under Contract-Problem/Non-Compliance of the "Data Assessment Narrative".			
1.10	**Calibration**			
1.10.1	Is record of at least 2 point calibration present for ICP analysis?	✓		
	Is record of 5 point calibration present for Hg analysis?	✓		
	Is record of 4 point calibration present for:			
	Flame AA?			✓
	Furnace AA?	✓		
	Cyanides?	✓		
	Is one calibration standard at the CRDL level for all AA (except Hg) and cyanides analyses?	✓		

ACTION: If no for any of the above, write in the Contract Problem/Non-Compliance section of the "Data Assessment Narrative".

		YES	NO	N/A
.1.10.2	Is correlation coefficient less than 0.995 for:			
	Mercury Analysis?	___	[✓]	___
	Cyanide Analysis?	___	[✓]	___
	Atomic Absorption Analysis?	___	[✓]	___

ACTION: If yes, flag the associated data as estimated.

NOTE: The data validator shall calculate the correlation coefficient using concentrations of the standards and the corresponding instrument response (e.g. absorbance, peak area, peak height, etc.).

.1.10.3	In the instance where less than 4 standards are measured in absorbance (or peak area, peak height,etc.) mode, are the remaining standards analyzed in concentration mode immediately after calibration within ±10% of the true values?	[___]	___	[✓]

ACTION: If no, flag the associated data as estimated if standards are not within ±10% of true values. Do not flag the data as estimated in linear range indicated by good recovery of standard(s).

.1.11 Form II A (Initial and Continuing Calibration Verification)-

.1.11.1	Present and complete for every metal and cyanide?	[✓]	___	___
	Present and complete for AA and ICP when both are used for the same analyte?	[✓]	___	___

ACTION: If no for any of the above, prepare Telephone Record Log and contact laboratory.

.1.11.2	Circle on each Form IIA all percent recoveries that are outside the contract windows. Are all calibration standards (initial and continuing) within control limits:			
	Metals- 90-110%R?	[✓]	___	___
	Hg - 80-120%R?	[___]	___	___
	Cyanides- 85-115%R?	[✓]	___	___

	YES	NO	N/A
ACTION: Flag as estimated (J) all positive data (not flagged with a "U") analyzed between a calibration standard with %R between 75-89% (65-79% for Hg; 70-84% for CN) or 111-125% (121-135% for Hg; 116-130% for CN) recovery and nearest good calibration standard. Qualify results <IDL as estimated (UJ) if the ICV or CCV %R is 75-89% (CN, 70-84% ; HG, 65-79%). Reject (red-line) as unacceptable data if recovery of the ICV or CCV is outside the range 75-125% (CN, 70-130%; Hg, 65-135%). Qualify five samples on either side of verification standard out of control limits.			
1.11.3 Was continuing calibration performed every 10 samples or every 2 hours?	✓		
Was ICV for cyanides distilled?	✓		

ACTION: If no for any of the above, write in the Contract-Problem/Non-Compliance section of the "Data Assessment Narrative".

1.12 Form II B (CRDL Standards for AA and ICP) -

	YES	NO	N/A
1.12.1 Was a CRDL standard (CRA) analyzed after initial calibration for all AA metals (except Hg)?	✓		
Was a mid-range calib. verification standard distilled and analyzed for cyanide analysis?	✓		
Was a 2xCRDL (or 2xIDL when IDL>CRDL) analyzed (CRI) for each ICP run? (Note: CRI for AL,Ba,Ca,Fe,Mg,Na,or K is not required.)	✓		

ACTION: If no for any of the above, flag as estimated all data falling within the affected ranges. The affected ranges are:
AA Analysis - **True Value ± CRDL
ICP Analysis - **True Value ± 2CRDL
CN Analysis - **True Value ± 0.5 x True Value.

**True value of CRA, CRI or mid-range standard. Substitute IDL for CRDL when IDL > CRDL. Impute the concentration of the missing mid-range standard from the calibration range.

		YES	NO	N/A
.1.12.2	Was CRI analyzed after ICV/ICB and before the final CCV/CCB, and twice every eight hours of ICP run?	[✓]	___	___

ACTION: If no, write in Contract Problem/Non-Compliance Section of the "Data Assessment Narrative".

.1.12.3 Circle on each Form IIB all the percent recoveries that are outside the acceptance windows.

Are CRA and CRI standards within control limits:

Cd Final 64.8
Cd Final 78.0

Metals	80 - 120%R?	[___]	[✓]	___

Is mid-range standard within control limits:

Cyanide	80 - 120%R?	[✓]	___	___

ACTION: Flag as estimated all sample results within the affected range if the recovery of the standard is between 50-79%; flag only positive data within the affected range if the recovery is between 121-150%; reject all data within the affected range if the recovery is less than 50%; reject only positive data within the affected range if the recovery is greater than 150%. Qualify 50% of the samples on either side of CRI standard outside the control limits.

Note: Flag or reject the final results only when sample raw data are within the affected ranges and the CRDL standards are outside the acceptance windows.

.1.13 Form III (Initial and Continuing Calibration Blanks)

		YES	NO	N/A
.1.13.1	Present and complete?	[✓]	___	___
	For both AA and ICP when both are used for the same analyte?	[✓]	___	___
	Was an initial calibration blank analyzed?	[✓]	___	___
	Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (which ever is more frequent)?	[✓]	___	___

		YES	NO	N/A
	ACTION: If no, prepare Telephone Record Log, contact laboratory and write in the Contract-Problems/ Non-Compliance section of the "Data Assessment Narrative".			
1.13.2	Circle on each Form III all calibration blank values that are above CRDL (or 2 x IDL when IDL > CRDL).			
	Are all calibration blanks (when IDL<CRDL) less than or equal to the Contract Required Detection Limits (CRDLs)?	✓		
	Are all calibration blanks less than two times Instrument Detection Limit (when IDL>CRDL)?			✓
	ACTION: If no for any of the above, flag as estimated (J) positive sample results when raw sample value is less than or equal to calibration blank value analyzed between calibration blank with value over CRDL (or 2xIDL) and nearest good calibration blank. Flag five samples on either side of the calibration blank outside the control limits.			
1.14	FORM III (Preparation Blank) - (Note: The preparation blank for mercury is the same as the calibration blank.)			
1.14.1	Was one prep. blank analyzed for:			
	each Sample Delivery Group (SDG)?	✓		
	each batch of digested samples?	✓		
	each matrix type?	✓		
	both AA and ICP when both are used for the same analyte?	✓		
	ACTION: If no for any of the above, flag as estimated (J) all the associated positive data <10 x IDLs for which prep. blank was not analyzed.			
	NOTE: If only one blank was analyzed for more than 20 samples, then first 20 samples analyzed do not have to be flagged as estimated (J).			

		YES	NO	N/A
A.1.14.2	Is concentration of prep. blank value greater than the CRDL when IDL is less than or equal to CRDL?		✓	
	If yes, is the concentration of the sample with the least concentrated analyte less than 10 times the prep.blank?			✓
	ACTION: If yes, reject (red-line) all associated data greater than CRDL concentration but less than ten times the prep. blank value.			
A.1.14.3	Is concentration of prep. blank value (Form III) less than two times IDL, when IDL is greater than CRDL?	✓		
	ACTION: If no, reject (red-line) all positive sample results when sample raw data are less than 10 times the prep. blank value.			
A.1.14.4	Is concentration of prep. blank below the negative CRDL?		✓	
	ACTION: If yes, reject (red-line) all associated sample results less than 10xCRDL.			
A.1.15	Form IV (ICP Interference Check Sample)			
A.1.15.1	Present and complete?	✓		
	(NOTE: Not required for furnace AA, flame AA, mercury, cyanide and Ca, Mg, K and Na.)			
	Was ICS analyzed at beginning and end of run (or at least twice every 8 hours)?	✓		
	ACTION: If no, flag as estimated (J) all the samples for which AL, Ca, Fe, or Mg is higher than in ICS.			
A.1.15.2	Circle all values on each Form IV that are more than ± 20% of true or established mean value.			
	Are all Interference Check Sample results inside the control limits (± 20%)?	✓		
	If no, is concentration of Al, Ca, Fe, or Mg lower than the respective concentration in ICS?			✓

		YES	NO	N/A
	ACTION: If no, flag as estimated (J) those positive results for which ICS recovery is between 121-150%; flag all sample results as estimated if ICS recovery falls within 50-79%; reject (red-line) those sample results for which ICS recovery is less than 50%; if ICS recovery is above 150%, reject positive results only (not flagged with a "U").			
1.16	Form V A (Spiked Sample Recovery - Pre-Digestion/Pre-Distillation)- (Note: Not required for Ca, Mg, K, and Na (both matrices), Al, and Fe (soil only.)			
1.16.1	Present and complete for: each SDG?	[✓]	___	___
	each matrix type?	[✓]	___	___
	each conc. range (i.e. low, med., high)?	[✓]	___	___
	For both AA and ICP when both are used for the same analyte?	[✓]	___	___
	ACTION: If no for any of the above, flag as estimated (J) all the positive data less than four times the spiking levels specified in SOW for which spiked sample was not analyzed.			
	NOTE: If one spiked sample was analyzed for more than 20 samples, then first 20 samples analyzed do not have to be flagged as estimated (J).			
1.16.2	Was field blank used for spiked sample?	___	[✓]	___
	ACTION: If yes, flag all positive data less than 4 x spike added as estimated (J) for which field blank was used as spiked sample.			
1.16.3	Circle on each Form VA all spike recoveries that are outside control limits (75% to 125%).			
	Are all recoveries within control limits?	[✓]	___	___
	If no, is sample concentration greater than or equal to four times spike concentration?	[___]	___	✓

	YES	NO	N/A
ACTION: If yes, disregard spike recoveries for analytes whose concentrations are greater than or equal to four times spike added. If no, circle those analytes on Form V for which sample concentration is less than four times the spike concentration.			
Are results outside the control limits (75-125%) flagged with "N" on Form I's and Form VA?	[ ]	___	✓
ACTION: If no, write in the Contract - Problem/Non - Compliance section of "Data Assessment Narrative".			
1.16.4 **Aqueous**			
Are any spike recoveries:			
(a) less than 30%?	___	[ ]	✓
(b) between 30-74%?	___	[ ]	✓
(c) between 126-150%?	___	[ ]	✓
(d) greater than 150%?	___	[ ]	✓
ACTION: If less than 30%, reject all associated aqueous data; if between 30-74%, flag all associated aqueous data as estimated (J); if between 126-150%, flag as estimated (J) all associated aqueous data not flagged with a "U"; if greater than 150%, reject (red-line) all associated aqueous data not flagged with a "U".			
1.16.5 **Soil/Sediment**			
Are any spike recoveries:			
(a) less than 10%?	___	[ ]	✓
(b) between 10-74%?	___	[ ]	✓
(c) between 126-200%?	___	[ ]	✓
(d) greater than 200%?	___	[ ]	✓

		YES	NO	N/A
	ACTION: If less than 10%, reject all associated data; if between 10-74%, flag all associated data as estimated; if between 126-200%, flag as estimated all associated data was not flagged with a "U"; if greater than 200%, reject all associated data not flagged with a "U".			
A.1.17	Form VI (Lab Duplicates)			
A.1.17.1	Present and complete for: each SDG?	[✓]	___	___
	each matrix type?	[✓]	___	___
	each concentration range (i.e. low, med., high)?	[✓]	___	___
	both AA and ICP when both are used for the same analyte?	[✓]	___	___
	ACTION: If no for any the above, flag as estimated (J) all the data ≥CRDL* for which duplicate sample was not analyzed. **Note:** 1. If one duplicate sample was analyzed for more than 20 samples, then first 20 samples do not have to be flagged as estimated. 2. If percent solids for soil sample and its duplicate differ by more than 1%, prepare a Form VI for each duplicate pair, report concentrations in ug/L on wet weight basis and calculate RPD or Difference for each analyte.			
A.1.17.2	Was field blank used for duplicate analysis?	___	[✓]	___
	ACTION: If yes, flag all data ≥CRDL* as estimated (J) for which field blank was used as duplicate.			
A.1.17.3	Are all values within control limits (RPD 20% or difference ≤ ±CRDL)?	[ ]	[✓]	___
	If no, are all results outside the control limits flagged with an * on Form I's and VI?	[✓]	___	___
	ACTION: If no, write in the Contract - Problems/Non-Compliance section of "Data Assessment Narrative".			

Sodium 22.9%
Manganese 29.8%
DKGW38D

* Substitute IDL for CRDL when IDL > CRDL.

	YES	NO	N/A

NOTE: 1. RPD is not calculable for an analyte of the sample - duplicate pair when both values are less than IDL.
2. If the result of lab duplicate analyzed by GFAA is rejectable due to coefficient of correlation of MSA, analytical spike recovery, or duplicate injections criteria, do not apply precision criteria to metals analyzed by GFAA.

1.17.4 Aqueous

Circle on each Form VI all values that are:

RPD > 50%, or
Difference > CRDL*

Is any RPD greater than 50% where sample and duplicate are both greater than or equal to 5 times *CRDL?	___	[✓]	___
Is any difference** between sample and duplicate greater than *CRDL where sample and/or duplicate is less than 5 times *CRDL?	✓	[___]	___

ACTION: If yes, flag the associated data as estimated. manganese & sodium Below IDL estimated

1.17.5 Soil/Sediment

Circle on each Form VI all values that are:

RPD > 100%, or

Difference > 2 x CRDL*

Is any RPD (where sample and duplicate are both greater than or equal to 5 times *CRDL) :

> 100%?	___	[___]	✓

Is any **difference between sample and duplicate (where sample and/or duplicate is less than 5x*CRDL) :

> 2x*CRDL?	___	[___]	✓

* Substitute IDL for CRDL when IDL > CRDL.
** Use absolute values of sample and duplicate to calculate the difference.

		YES	NO	N/A
	ACTION: If yes, flag the associated data as estimated.			
..18	**Field Duplicates**			
..18.1	Were field duplicates analyzed?	[✓]	___	___

ACTION: If yes, prepare a Form VI for each aqueous field duplicate pair. Prepare a Form VI for each soil duplicate pair, if percent solids for sample and its duplicate differ by more than 1%; report concentrations of soils in ug/l on wet weight basis and calculate RPDs or Difference for each analyte.

NOTE: 1. Do not calculate RPD when both values are less than IDL.
2. Flag all associated data only for field duplicate pair.

Aluminum
SKGW-28 & SKGWFD01 RPD
714 1450 -68.02
most likely due to seal load
Filt Dup data ok
SKGW-28 SKGWFD01 RPD
855 741 14.29

1.18.2 **Aqueous**

Circle all values on self prepared Form VI for field duplicates that are:

RPD > 50%, or
Difference > CRDL*

Is any RPD greater than 50% where sample and duplicate are both greater than or equal to 5 times *CRDL?	___	[___]	___
Is any **difference between sample and duplicate greater than *CRDL where sample and/or duplicate is less than 5 times *CRDL?	✓	[___]	___

ACTION: If yes, flag the associated data as estimated.

See text

* Substitute IDL for CRDL when IDL > CRDL.
** Use absolute values of sample and duplicate to calculate the difference.

		YES	NO	N/A
1.18.3	**Soil/Sediment**			
	Circle all values on self prepared Form VI for field duplicates that are:			
	RPD >100%, or			
	Difference > 2 x CRDL*			
	Is any RPD (where sample and duplicate are both greater than 5 times *CRDL) : >100%?	___	[___]	✓
	Is any **difference between sample and duplicate (where sample and/or duplicate is less than 5x *CRDL): >2x *CRDL?	___	[___]	✓
	ACTION: If yes, flag the associated data as estimated.			
1.19	**Form VII (Laboratory Control Sample)** (Note: LCS - not required for aqueous Hg and cyanide analyses.)			
1.19.1	Was one LCS prepared and analyzed for:			
	each SDG?	[✓]	___	___
	each batch samples digested/distilled?	[✓]	___	___
	both AA and ICP when both are used for the same analyte?	[✓]	___	___

ACTION: If no for any of the above, prepare Telephone Record Log and contact laboratory for submittal of results of LCS. Flag as estimated (J) all the data for which LCS was not analyzed.

NOTE: If only one LCS was analyzed for more than 20 samples, then first 20 samples close to LCS do not have to be flagged as estimated.

* Substitute IDL for CRDL when IDL > CRDL.
** Use absolute values of sample and duplicate to calculate the difference.

		YES	NO	N/A
1.19.2	**Aqueous LCS**			
	Circle on each Form VII the LCS percent recoveries outside control limits (80 - 120%) except for aqueous Ag and Sb.			
	Is any LCS recovery: less than 50%?	___	[✓]	___
	between 50% and 79%?	___	[✓]	___
	between 121% and 150%?	___	[✓]	___
	greater than 150%?	___	[✓]	___

ACTION: Less than 50%, reject (red-line) all data; between 50% and 79%, flag all associated data as estimated (J); between 121% and 150%, flag all positive (not flagged with a "U") results as estimated; greater than 150%, reject all positive results.

1.19.3	**Solid LCS**			
	NOTE: 1. If "Found" value of LCS is rejectable due to duplicate injections or analytical spike recovery criteria, regardless of LCS recovery, flag the associated data as estimated (J). 2. If IDL of an analyte is equal to or greater than true value of LCS, disregard the "Action" below even though LCS is out of control limits.			
	Is LCS "Found" value higher than the control limits on Form VII?	___	[___]	✓
	ACTION: If yes, qualify all associated positive data as estimated.			
	Is LCS "Found" value lower than the Control limits on Form VII?	___	[___]	✓
	ACTION: If yes, qualify all associated data as estimated.			

		YES	NO	N/A
1.20	**Form IX (ICP Serial Dilution)** -			
	NOTE: Serial dilution analysis is required only for initial concentrations equal to or greater than 10 x IDL.			
1.20.1	Was Serial Dilution analysis performed for:			
	each SDG?	[✓]	___	___
	each matrix type?	[✓]	___	___
	each concentration range (i.e. low, med.)?	[✓]	___	___
	ACTION: If no for any of the above, flag as estimated all the positive data ≥ 10xIDLs or ≥ CRDL when 10xIDL ≤ CRDL for which Serial Dilution Analysis was not performed.			
1.20.2	Was field blank(s) used for Serial Dilution Analysis?	___	[✓]	___
	ACTION: If yes, flag all associated data ≥ 10 x IDL as estimated (J). If 10xIDL ≤ CRDL, flag all data ≥ CRDL.			
1.20.3	Are results outside control limit flagged with an "E" on Form I's and Form IX when initial concentration on Form IX is equal to 50 times IDL or greater.	[✓]	___	___
	ACTION: If no, write in the Contract-Problem/Non-Compliance section of the "Data Assessment Narrative".			
1.20.4	Circle on each Form IX all percent difference that are outside the control limits for initial concentrations equal to or greater than 10 x IDLs only.			
	Are any % difference values:			
	> 10%?	✓	[✓]	___
	≥ 100%?	___	[✓]	___

DKGW30
Iron 20.7

SKGW38
Iron 20.3
Manganese 39.5

~~Ad~~ SKGW28L
Potassium 29.9
Sodium 98.3

	YES	NO	N/A
ACTION: Flag as estimated (J) all the associated sample data ≥ 10xIDLs (or ≥ CRDL when 10xIDL ≤ CRDL) for which percent difference is greater than 10% but less than 100%. Reject (red-line) all the associated sample results equal to or greater than 10xIDLs (or ≥ CRDL when 10xIDL ≤ CRDL) for which PD is greater than or equal to 100%.			
Note: Flag or reject on Form I's only the sample results whose associated raw data are ≥ 10xIDL (or ≥ CRDL when 10xIDL ≤ CRDL)			
1.21 **Furnace Atomic Absorption (AA) QC Analysis**			
1.21.1 Are duplicate injections present in furnace raw data (except during full Method of Standard Addition) for each sample analyzed by GFAA?	✓		
ACTION: If no, reject the data on Form I's for which duplicate injections were not performed.			
1.21.2 Do the duplicate injection readings agree within 20% Relative Standard Deviation (RSD) or Coefficient of Variation (CV) for concentration greater than CRDL?	✓		
Was a dilution analyzed for sample with analytical spike recovery less than 40%?			✓
ACTION: If no for any of the above, flag all the associated data as estimated.			
1.21.3 Is *analytical spike recovery outside the control limits (85-115%) for any sample?	✓		
ACTION: If yes, flag the affected sample results if the recovery is between 10-84%; if the recovery is between 115-200%, flag the associated positive sample results as estimated; reject the associated sample results if the recovery is less than 10%; reject positive sample results if the recovery is greater than 200%.			

SKGWB5 As 83% MSA performed

DKGWB5 As 79.1% MSA performed

*Analytical spike is not required on the pre-digestion spiked sample.

		YES	NO	N/A
	NOTE: Reject or flag the data only when the affected sample(s) was not subsequently analyzed by Method of Standard Addition.			
1.22	Form VIII (Method of Standard Addition Results)			
1.22.1	Present?	[✓]	___	___
	If no, is any Form I result coded with "S" or a "+"?	___	[✓]	___
	ACTION: If yes, write request on Telephone Record Log and contact laboratory for submittal of Form VIII.			
1.22.2	Is coefficient of correlation for MSA less than 0.990 for any sample?	___	[✓]	___
	ACTION: If yes, reject (red-line) the affected data.			
1.22.3	Was *MSA required for any sample but not performed?	___	[✓]	___
	Is coefficient of correlation for MSA less than 0.995?	___	[✓]	___
	Are MSA calculations outside the linear range of the calibration curve generated at the beginning of the analytical run?	___	[✓]	___
	ACTION: If yes for any of the above, flag all the associated data as estimated (J).			
1.22.4	Was proper quantitation procedure followed correctly as outlined in the SOW on page E-23?	[✓]	___	___
	ACTION: If no, note exception under Contract Problem/ Non-Compliance section of the "Data Assessment Narrative", and prepare a separate list.			

* MSA is not required on LCS and prep. blank.

tle: Evaluation of Metals Data for the Contract Laboratory Program
Appendix A.1: Data Assessment - Contract Compliance (Total Review)

Date: Jan. 1992
Number: HW-2
Revision: 11

		YES	NO	N/A
.23	Dissolved/Total or Inorganic/Total Analytes -			
1.23.1	Were any analyses performed for dissolved as well as total analytes on the same sample(s).	✓	[ ]	
	Were any analyses performed for inorganic as well as total (organic + inorganic) analytes on the same sample(s)?		[✓]	

NOTE: 1. If yes, prepare a list comparing differences between all dissolved (or inorganic) and total analytes. Compute the differences as a percent of the total analyte only when dissolved concentration is greater than CRDL as well as total concentration.
2. Apply the following questions only if inorganic (or dissolved) results are (i) above CRDL, and (ii) greater than total constituents.
3. At least one preparation blank, ICS, and LCS should be analyzed in each analytical run.

Total SK6W2P	Diss SK6W2P	
42,500	42,600	Ca
18,700	19,100	Mg
17,300	17,700	K

all OK

1.23.2	Is the concentration of any dissolved (or inorganic) analyte greater than its total concentration by more than 10%?		[✓]	
1.23.3	Is the concentration of any dissolved (or inorganic) analyte greater than its total concentration by more than 50%?		[✓]	

ACTION: If more than 10%, flag both dissolved (or inorganic) and total values as estimated (J); if more than 50%, reject (red-line) the data for both values.

1.24	Form I (Field Blank) -			
	(Note: Designate "Field Blank" as such on Form I.)			
1.24.1	Circle all field blank values on Form I that are greater than CRDL, (or 2 x IDL when IDL > CRDL).			
	Is field blank concentration less than CRDL (or 2 x IDL when IDL > CRDL) for all parameters of associated aqueous and soil samples?	[✓]		

	YES	NO	N/A
If no, was field blank value already rejected due to other QC criteria?	[ ]		✓

ACTION: If no, reject (except field blank results) all associated positive sample data less than or equal to five times the field blank value. Reject on Form I's the soil sample results that when converted to ug/L on wet basis are less than or equal to five times the field blank value in ug/L.

.1.25 Form X, XI, XII (Verification of Instrumental Parameters).

.1.25.1 Is verification report present for:

Instrument Detection Limits (quarterly)?	[✓]		
ICP Interelement Correction Factors (annually)?	[✓]		
ICP Linear Ranges (quarterly)?	[✓]		

ACTION: If no, contact TPO of the lab.

.1.25.2 Form X (Instrument Detection Limits) - (Note: IDL is not required for Cyanide.)

.1.25.2.1 Are IDLs present for: all the analytes?	[✓]		
all the instruments used?	[✓]		
For both AA and ICP when both are used for the same analyte?	[✓]		

ACTION: If no for any of the above, prepare Telephone Record Log and contact laboratory.

.1.25.2.2 Is IDL greater than CRDL for any analyte?		[✓]	
If yes, is the concentration on Form I of the sample analyzed on the instrument whose IDL exceeds CRDL, greater than 5 x IDL.	[ ]		✓

	YES	NO	N/A
Action : If no, flag as estimated all values less than five times IDL of the instrument whose IDL exceeds CRDL.			
1.25.3 **Form XI (Linear Ranges)**			
1.25.3.1 Was any sample result higher than high linear range of ICP.	___	[✓]	___
Was any sample result higher than the highest calibration standard for non-ICP parameters?	___	[✓]	___
If yes for any of the above, was the sample diluted to obtain the result on Form I?	[___]	___	✓

ACTION: If no, flag the result reported on Form I as estimated(J).

1.26 **Percent Solids of Sediments**

1.26.1 Are percent solids in sediment(s): < 50%?	___	[___]	✓
< 10%?	___	[___]	✓

ACTION: If yes, qualify as estimated all the results of a sample that has per cent solids between 10%-50% (i.e. moisture content between 50%-90%). Reject all the results of a sample that has per cent solids less than 10% (i.e. moisture content greater than 90%).

NOTE: Reject or flag(J) only the sample results that were not previously rejected or flaged due to other QC criteria.

Inorganic Data Qualifiers

U - Indicates analyte result less than the instrument detection limit (IDL) indicated.

B - Indicates analyte result between the IDL and the contract required detection limit (CRDL).

V - The reported value is considered estimated due to variance from quality control criteria

R - The reported value is unusable and rejected due to variance from quality control criteria.

W - Indicates GFAA analytical spike was out of 85-115 percent control limit, while sample absorbance was less than 50% of spike absorbance.

S - The reported value was determined by the method of standard additions (MSA).

+ - Indicates that the correlation coefficient for MSA is less than 0.995.

M - Indicates that GFAA duplicate injection precision criteria was not met.

E - The reported value is considered estimated due to matrix interference.

N - Indicates that the spiked sample recovery was not within control limits.

* - Indicates that the laboratory duplicate analysis was not within control limits.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGWB5

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2239002

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0076.D

Level: (low/med) LOW Date Received: 10/28/94

% Moisture: not dec. _____ Date Analyzed: 11/02/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND			Q	
74-87-3	Chloromethane		10	U	
74-83-9	Bromomethane		10	U	
75-01-4	Vinyl Chloride		46		
75-00-3	Chloroethane		10	U	
75-09-2	Methylene Chloride	10	~~4~~	~~JB~~	U
67-64-1	Acetone		10	U	
75-15-0	Carbon Disulfide		10	U	
75-35-4	1,1-Dichloroethene		10	U	
75-34-3	1,1-Dichloroethane		45		
540-59-0	1,2-Dichloroethene (total)		26		
67-66-3	Chloroform		120		
107-06-2	1,2-Dichloroethane	260	~~220~~	~~E~~	D
78-93-3	2-Butanone		10	U	
71-55-6	1,1,1-Trichloroethane		4	J	
56-23-5	Carbon Tetrachloride		10	U	
75-27-4	Bromodichloromethane		10	U	
78-87-5	1,2-Dichloropropane	710	~~580~~	~~E~~	D
10061-01-5	cis-1,3-Dichloropropene		10	U	
79-01-6	Trichloroethene		52		
124-48-1	Dibromochloromethane		10	U	
79-00-5	1,1,2-Trichloroethane		130		
71-43-2	Benzene		10		
10061-02-6	trans-1,3-Dichloropropene		10	U	
75-25-2	Bromoform		10	U	
108-10-1	4-Methyl-2-Pentanone		10	U	
591-78-6	2-Hexanone		10	U	
127-18-4	Tetrachloroethene		2	J	
79-34-5	1,1,2,2-Tetrachloroethane		10		
108-88-3	Toluene		10		
108-90-7	Chlorobenzene		10	U	
100-41-4	Ethylbenzene		10	U	
100-42-5	Styrene		10	U	
1330-20-7	Xylene (total)		3	J	

THE 1,2-DICHLOROETHANE AND 1,2-DICHLOROPROPANE RESULTS HAVE BEEN REPORTED FROM THE ANALYSIS OF SKGWB5DL. WMM 28 JAN 95

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SKGWB5

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2239002

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0076.D

Level: (low/med) LOW Date Received: 10/28/94

% Moisture: not dec. _____ Date Analyzed: 11/02/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN HYDROCARBON	19.920	30	J
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW06

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2240604

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0073.D

Level: (low/med) LOW Date Received: 10/29/94

% Moisture: not dec. _____ Date Analyzed: 11/02/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10 ~~4~~	~~JB~~ U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	3	J
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	2	J
78-87-5	1,2-Dichloropropane	11	
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	4	J
124-48-1	Dibromochloromethane	3	J
79-00-5	1,1,2-Trichloroethane	2	J
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	1	J
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

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28 JAN 95

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SKGW06

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2240604

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0073.D

Level: (low/med) LOW Date Received: 10/29/94

% Moisture: not dec. _____ Date Analyzed: 11/02/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: ~~3~~ Ø

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	~~UNKNOWN SILOXANE~~	~~12.954~~	~~11~~	~~JB~~	R
2.	~~UNKNOWN SILOXANE~~	~~18.103~~	~~40~~	~~J~~	R
3.	~~UNKNOWN SILOXANE~~	~~22.269~~	~~13~~	~~J~~	R
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28 JAN 95

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW7R

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2240603

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0072.D

Level: (low/med) LOW Date Received: 10/29/94

% Moisture: not dec. _____ Date Analyzed: 11/02/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10 ~~2~~	~~J~~ U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	4	J
107-06-2	1,2-Dichloroethane	3	J
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	15	
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	4	J
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	3	J
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

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23 JAN95

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SKGW7R

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2240603

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0072.D

Level: (low/med) LOW Date Received: 10/29/94

% Moisture: not dec. _____ Date Analyzed: 11/02/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: ~~3~~ Ø

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	~~UNKNOWN SILOXANE~~	~~12.945~~	~~37~~	~~J~~ R
2.	~~UNKNOWN SILOXANE~~	~~18.095~~	~~65~~	~~J~~ R
3.	~~UNKNOWN SILOXANE~~	~~22.251~~	~~36~~	~~J~~ R
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28 JAN 95

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW09

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2236802

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0025.D

Level: (low/med) LOW Date Received: 10/26/94

% Moisture: not dec. _____ Date Analyzed: 10/31/94✓

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0✓

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10 ~~6~~	~~JB~~ U
67-64-1	Acetone	10	U ✓
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U ✓
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

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28 JAN 95

000063

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SKGW09

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2236802

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0025.D

Level: (low/med) LOW Date Received: 10/26/94

% Moisture: not dec. _____ Date Analyzed: 10/31/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	~~UNKNOWN SILOXANE~~	~~12.933~~	~~23~~	~~J~~ R
2.	~~UNKNOWN SILOXANE~~	~~18.063~~	~~34~~	~~J~~ R
3.	~~UNKNOWN SILOXANE~~	~~22.228~~	~~16~~	~~J~~ R
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28 JAN95

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW10

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2239005

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0079.D

Level: (low/med) LOW Date Received: 10/28/94

% Moisture: not dec. _____ Date Analyzed: 11/02/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10 ~~4~~	~~B~~ U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	5	J
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	5	J
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

CLM
28JAN95

FORM I VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SKGW10

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2239005

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0079.D

Level: (low/med) LOW Date Received: 10/28/94

% Moisture: not dec. _____ Date Analyzed: 11/02/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1 ✓

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.642	8	J
2.				
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28 JAN95

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW11

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238403

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0032.D

Level: (low/med) LOW Date Received: 10/27/94

% Moisture: not dec. _____ Date Analyzed: 10/31/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10 ~~4~~	~~B~~ U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	2	J
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

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FORM I VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SKGW11

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238403

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0032.D

Level: (low/med) LOW Date Received: 10/27/94

% Moisture: not dec. _____ Date Analyzed: 10/31/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1. ~~60-27-7~~	~~UNKNOWN~~ ~~ETHER~~ UNKNOWN	4.632	140	J	~~N~~ amn 28 Ja
2. 108-20-3	~~UNKNOWN~~ DIISOPROPYL ETHER	6.281	64	J	N —
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28JAN95

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW17

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2236801

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0024.D

Level: (low/med) LOW Date Received: 10/26/94

% Moisture: not dec. _____ Date Analyzed: 10/31/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10 ~~6~~	~~JB~~ U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10 ~~2~~	~~J~~ U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	100	
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	23	
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

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27 JAN95

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SKGW17

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2236801

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0024.D

Level: (low/med) LOW Date Received: 10/26/94

% Moisture: not dec. _____ Date Analyzed: 10/31/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1. 593-70-4	~~UNKNOWN~~ METHANE, CHLOROFLUORO-	3.659	6	J	N
2. ~~75~~	~~UNKNOWN~~ UNKNOWN	3.678	5	J	
3. 75-43-4	~~UNKNOWN~~ METHANE, DICHLOROFLUORO-	4.208	8	J	N
4. ~~50-27-7~~	~~UNKNOWN ETHER~~ UNKNOWN	4.623	95	J	~~N~~
5. 108-20-3	~~UNKNOWN~~ DIISOPROPYL ETHER	6.253	17	J	N
6.					
7.					
8.					
9.					
10.					
11.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW18

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2240602

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0071.D

Level: (low/med) LOW Date Received: 10/29/94

% Moisture: not dec. _____ Date Analyzed: 11/02/94 ✓

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0 ✓

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
74-87-3	Chloromethane	10	U	✓
74-83-9	Bromomethane	10	U	
75-01-4	Vinyl Chloride	10	U	
75-00-3	Chloroethane	10	U	
75-09-2	Methylene Chloride	10 ~~4~~	~~JB~~	U
67-64-1	Acetone	17 ~~16~~		SV
75-15-0	Carbon Disulfide	10	U	
75-35-4	1,1-Dichloroethene	10	U	
75-34-3	1,1-Dichloroethane	10	U	
540-59-0	1,2-Dichloroethene (total)	10	U	
67-66-3	Chloroform	5	J	
107-06-2	1,2-Dichloroethane	6	J	
78-93-3	2-Butanone	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
56-23-5	Carbon Tetrachloride	10	U	
75-27-4	Bromodichloromethane	10	U	
78-87-5	1,2-Dichloropropane	22		
10061-01-5	cis-1,3-Dichloropropene	10	U	
79-01-6	Trichloroethene	5	J	
124-48-1	Dibromochloromethane	10	U	
79-00-5	1,1,2-Trichloroethane	5	J	
71-43-2	Benzene	3 ~~2~~	J	
10061-02-6	trans-1,3-Dichloropropene	10	U	
75-25-2	Bromoform	1	J	
108-10-1	4-Methyl-2-Pentanone	10	U	
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	10	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	✓
108-88-3	Toluene	10	U	
108-90-7	Chlorobenzene	2	J	
100-41-4	Ethylbenzene	10	U	
100-42-5	Styrene	10	U	
1330-20-7	Xylene (total)	10	U	

CMM 28JAN95

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SKGW18

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2240602

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0071.D

Level: (low/med) LOW Date Received: 10/29/94

% Moisture: not dec. _____ Date Analyzed: 11/02/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: ~~3~~ Ø

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	~~UNKNOWN SILOXANE~~	~~12.946~~	~~18~~	~~J~~	R
2.	~~UNKNOWN SILOXANE~~	~~18.057~~	~~52~~	~~J~~	R
3.	~~UNKNOWN SILOXANE~~	~~22.223~~	~~25~~	~~J~~	R
4.					
5.					
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7.					
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9.					
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28 JAN95

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW25

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2239001

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0075.D

Level: (low/med) LOW Date Received: 10/28/94

% Moisture: not dec. _____ Date Analyzed: 11/02/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	16 ~~4~~	~~JB~~ U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

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000122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SKGW25

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2239001

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0075.D

Level: (low/med) LOW Date Received: 10/28/94

% Moisture: not dec. _____ Date Analyzed: 11/02/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0✓

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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000123

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW26

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2240601

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0070.D

Level: (low/med) LOW Date Received: 10/29/94

% Moisture: not dec. _____ Date Analyzed: 11/02/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10 ~~3~~	~~JB~~ U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	4	J
107-06-2	1,2-Dichloroethane	5	J
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	16	
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	4	J
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	4	J
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

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28 JAN 95

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SKGW26

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2240601

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0070.D

Level: (low/med) LOW Date Received: 10/29/94

% Moisture: not dec. _____ Date Analyzed: 11/02/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: ~~3~~ Ø

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	~~UNKNOWN SILOXANE~~	~~12.936~~	~~11~~	~~J~~	R
2.	~~UNKNOWN SILOXANE~~	~~18.076~~	~~22~~	~~J~~	R
3.	~~UNKNOWN SILOXANE~~	~~22.232~~	~~7~~	~~J~~	R
4.					
5.					
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28 JAN 95

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW28

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238401

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0030.D

Level: (low/med) LOW Date Received: 10/27/94

% Moisture: not dec. _____ Date Analyzed: 10/31/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10 ~~6~~	~~JB~~ U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

Gmn
28 JAN 95

FORM I VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SKGW28

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238401

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0030.D

Level: (low/med) LOW Date Received: 10/27/94

% Moisture: not dec. _____ Date Analyzed: 10/31/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: ~~3~~ Ø

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	~~UNKNOWN SILOXANE~~	~~12.933~~	~~14~~	~~J~~ R
2.	~~UNKNOWN SILOXANE~~	~~18.063~~	~~28~~	~~J~~ R
3.	~~UNKNOWN SILOXANE~~	~~22.238~~	~~7~~	~~J~~ R
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW30

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238406

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0035.D

Level: (low/med) LOW Date Received: 10/27/94

% Moisture: not dec. _____ Date Analyzed: 10/31/94 ✓

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0 ✓

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10 ~~6~~	~~JB~~ U
67-64-1	Acetone	10	U ✓
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U ✓
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

Qmn 28JAN95

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SKGW30

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238406

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0035.D

Level: (low/med) LOW Date Received: 10/27/94

% Moisture: not dec. _____ Date Analyzed: 10/31/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: ~~3~~ Ø

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	~~UNKNOWN SILOXANE~~	~~12.933~~	~~11~~	~~JB~~ R
2.	~~UNKNOWN SILOXANE~~	~~18.062~~	~~31~~	~~J~~ R
3.	~~UNKNOWN SILOXANE~~	~~22.237~~	~~8~~	~~J~~ R
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28 JAN95

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

SKGW31

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238405

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0042.D

Level: (low/med) LOW Date Received: 10/27/94

% Moisture: not dec. _____ Date Analyzed: 11/01/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10 ~~4~~	~~JB~~ U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

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28 JAN95

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SKGW31

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238405

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0042.D

Level: (low/med) LOW Date Received: 10/27/94

% Moisture: not dec. _____ Date Analyzed: 11/01/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: ~~1~~ Ø

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	~~UNKNOWN SILOXANE~~	~~13.011~~	~~9~~	~~J~~ R
2.				
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28JAN95

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FORM I VOA-TIC

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW38

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2236803

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0026.D

Level: (low/med) LOW Date Received: 10/26/94

% Moisture: not dec. _____ Date Analyzed: 10/31/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10 ~~6~~	~~JB~~ U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SKGW38

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2236803

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0026.D

Level: (low/med) LOW Date Received: 10/26/94

% Moisture: not dec. _____ Date Analyzed: 10/31/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: ~~3~~ 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	~~UNKNOWN SILOXANE~~	~~12.933~~	~~[illegible]~~	~~[illegible]~~ R
2.	~~UNKNOWN SILOXANE~~	~~18.063~~	~~[illegible]~~	~~[illegible]~~ R
3.	~~UNKNOWN SILOXANE~~	~~22.229~~	~~[illegible]~~	~~[illegible]~~ R
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GWFD01
(= SKGW28)

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238402

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0031.D

Level: (low/med) LOW Date Received: 10/27/94

% Moisture: not dec. _____ Date Analyzed: 10/31/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10 ~~4~~	~~JB~~ U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

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28 JAN95

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GWFD01

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238402

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0031.D

Level: (low/med) LOW Date Received: 10/27/94

% Moisture: not dec. _____ Date Analyzed: 10/31/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 2 ~~0~~

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	~~UNKNOWN SILOXANE~~	~~12.933~~	~~9~~	~~JB~~ R.
2.	~~UNKNOWN SILOXANE~~	~~18.082~~	~~17~~	~~J~~ R
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKFD02
(=5K-GW10)

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2239004

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0078.D

Level: (low/med) LOW Date Received: 10/28/94

% Moisture: not dec. _____ Date Analyzed: 11/02/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10 ~~4~~	~~JB~~ U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	8	J
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	6	J
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

Cmn 28 JAN95

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SKFD02

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2239004

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0078.D

Level: (low/med) LOW Date Received: 10/28/94

% Moisture: not dec. _____ Date Analyzed: 11/02/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1/

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.642	7	J
2.				
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28 JAN 95

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGWFB

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238404

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0033.D

Level: (low/med) LOW Date Received: 10/27/94

% Moisture: not dec. _____ Date Analyzed: 10/31/94 ✓

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0 ✓

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	6	JB
67-64-1	Acetone	10	U ✓
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U ✓
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

Qmn
28 JAN 95

000224

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SKGWFB

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238404

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0033.D

Level: (low/med) LOW Date Received: 10/27/94

% Moisture: not dec. _____ Date Analyzed: 10/31/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN SILOXANE	12.943	11	JB
2.	UNKNOWN SILOXANE	18.082	31	J
3.	UNKNOWN SILOXANE	22.247	6	J
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COLUMN DEGRADATION ✓

Qmn
28 JAN95

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKFB02

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2239003

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0077.D

Level: (low/med) LOW Date Received: 10/28/94

% Moisture: not dec. _____ Date Analyzed: 11/02/94 ✓

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0 ✓

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U ✓
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	H ~~10~~ 4	~~JB~~ U JB
67-64-1	Acetone	10	U ✓
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U ✓
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

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28 JAN95
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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SKFB02

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2239003

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0077.D

Level: (low/med) LOW Date Received: 10/28/94

% Moisture: not dec. _____ Date Analyzed: 11/02/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: ~~3~~ Ø

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	~~UNKNOWN SILOXANE~~	~~12.981~~	~~28~~	~~J~~	R
2.	~~UNKNOWN SILOXANE~~	~~18.112~~	~~149~~	~~J~~	R
3.	~~UNKNOWN SILOXANE~~	~~22.268~~	~~32~~	~~J~~	R
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIPBLK

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2236806

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0029.D

Level: (low/med) LOW Date Received: 10/26/94

% Moisture: not dec. _____ Date Analyzed: 10/31/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	8	JB
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

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000234

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIPBLK

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2236806

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0029.D

Level: (low/med) LOW Date Received: 10/26/94

% Moisture: not dec. _____ Date Analyzed: 10/31/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN SILOXANE	12.914	19	JB
2.	UNKNOWN SILOXANE	18.073	93	J
3.	UNKNOWN SILOXANE	22.229	20	J
4.				
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COLUMN DEGRADATION ✓

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28 JAN 95

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRPBLK

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2240605

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0074.D

Level: (low/med) LOW Date Received: 10/29/94

% Moisture: not dec. _____ Date Analyzed: 11/02/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	6	JB
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

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FORM I VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRPBLK

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2240605

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0074.D

Level: (low/med) LOW Date Received: 10/29/94

% Moisture: not dec. _____ Date Analyzed: 11/02/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN SILOXANE	12.981	5	JB
2.	UNKNOWN SILOXANE	18.120	49	J
3.	UNKNOWN SILOXANE	22.276	13	J
4.				
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COLUMN DEGRADATION

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FORM I VOA-TIC 3/90

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIPBLK1

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238407

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0036.D

Level: (low/med) LOW Date Received: 10/27/94

% Moisture: not dec. _____ Date Analyzed: 10/31/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	9	JB
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

Amn
28 JAN 95

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIPBLK1

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238407

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0036.D

Level: (low/med) LOW Date Received: 10/27/94

% Moisture: not dec. _____ Date Analyzed: 10/31/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN SILOXANE	12.952	8	JB
2.	UNKNOWN SILOXANE	18.072	43	J
3.	UNKNOWN SILOXANE	22.247	6	J
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COLUMN DEGRADATION ✓

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28 JAN 95

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FORM I VOA-TIC 3/90

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIPBLK2

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2239006

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0080.D

Level: (low/med) LOW Date Received: 10/28/94

% Moisture: not dec. _____ Date Analyzed: 11/02/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	6	JB
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

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23 JAN 95

FORM I VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIPBLK2

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2239006

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0080.D

Level: (low/med) LOW Date Received: 10/28/94

% Moisture: not dec. _____ Date Analyzed: 11/02/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN SILOXANE	12.963	12	JB
2.	UNKNOWN SILOXANE	18.103	34	J
3.	UNKNOWN SILOXANE	22.268	12	J
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COLUMN DEGRADATION ✓

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FORM I VOA-TIC 3/90

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGWB5DL

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2239002

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0104D

Level: (low/med) LOW Date Received: 10/28/94

% Moisture: not dec. _____ Date Analyzed: 11/03/94

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 10.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	100	U
74-83-9	Bromomethane	100	U
75-01-4	Vinyl Chloride	100	U
75-00-3	Chloroethane	100	U
75-09-2	Methylene Chloride	120	BD
67-64-1	Acetone	100	U
75-15-0	Carbon Disulfide	100	U
75-35-4	1,1-Dichloroethene	100	U
75-34-3	1,1-Dichloroethane	50	JD
540-59-0	1,2-Dichloroethene (total)	19	JD
67-66-3	Chloroform	150	D
107-06-2	1,2-Dichloroethane ✓✓	260	D
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	100	U
56-23-5	Carbon Tetrachloride	100	U
75-27-4	Bromodichloromethane	100	U
78-87-5	1,2-Dichloropropane ✓✓	710	D
10061-01-5	cis-1,3-Dichloropropene	100	U
79-01-6	Trichloroethene	65	JD
124-48-1	Dibromochloromethane	100	U
79-00-5	1,1,2-Trichloroethane	180	D
71-43-2	Benzene	13	JD
10061-02-6	trans-1,3-Dichloropropene	100	U
75-25-2	Bromoform	100	U
108-10-1	4-Methyl-2-Pentanone	100	U
591-78-6	2-Hexanone	100	U
127-18-4	Tetrachloroethene	100	U
79-34-5	1,1,2,2-Tetrachloroethane	16	JD
108-88-3	Toluene	100	U
108-90-7	Chlorobenzene	100	U
100-41-4	Ethylbenzene	100	U
100-42-5	Styrene	100	U
1330-20-7	Xylene (total)	100	U

THE 1,2-DICHLOROETHANE AND 1,2-DICHLOROPROPANE RESULTS HAVE BEEN TRANSFERRED TO THE FORM I FOR THE ORIGINAL (UNDILUTED) ANALYSIS OF THIS SAMPLE GMM 28 JAN 95

000213

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SKGWB5DL

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2239002

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N0104.D

Level: (low/med) LOW Date Received: 10/28/94

% Moisture: not dec. _____ Date Analyzed: 11/03/94

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 10.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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AMM 28 JAN 95

000214

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGWB5

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2239002

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1654.D

Level: (low/med) LOW Date Received: 10/28/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/31/94

Concentrated Extract Volume: 1000(UL) Date Analyzed: 12/01/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	41	
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	3	J
106-46-7	1,4-Dichlorobenzene	2	J
95-50-1	1,2-Dichlorobenzene	1	J
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	2	J
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

GMM
31 JAN95

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGWB5

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2239002

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1654.D

Level: (low/med) LOW Date Received: 10/28/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/31/94

Concentrated Extract Volume: 1000(UL) Date Analyzed: 12/01/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
51-28-5	2,4-Dinitrophenol	25	U	✓
100-02-7	4-Nitrophenol	25	U	
132-64-9	Dibenzofuran	10	U	
121-14-2	2,4-Dinitrotoluene	10	U	
84-66-2	Diethylphthalate	10	U	
7005-72-3	4-Chlorophenyl-phenylether	10	U	
86-73-7	Fluorene	10	U	
100-01-6	4-Nitroaniline	25	U	
534-52-1	4,6-Dinitro-2-methylphenol	25	U	
86-30-6	N-Nitrosodiphenylamine (1)	10	U	
101-55-3	4-Bromophenyl-phenylether	10	U	
118-74-1	Hexachlorobenzene	10	U	
87-86-5	Pentachlorophenol	25	U	
85-01-8	Phenanthrene	10	U	
120-12-7	Anthracene	10	U	
86-74-8	Carbazole	10	U	
84-74-2	Di-n-butylphthalate	10	U	
206-44-0	Fluoranthene	10	U	
129-00-0	Pyrene	10	U	
85-68-7	Butylbenzylphthalate	10	U	
91-94-1	3,3'-Dichlorobenzidine	10	U	✓
56-55-3	Benzo(a)anthracene	10	U	✓
218-01-9	Chrysene	10	U	
117-81-7	bis(2-Ethylhexyl)phthalate	50		✓
117-84-0	Di-n-octylphthalate	10	U	
205-99-2	Benzo(b)fluoranthene	10	U	
207-08-9	Benzo(k)fluoranthene	10	U	
50-32-8	Benzo(a)pyrene	10	U	
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	
53-70-3	Dibenz(a,h)anthracene	10	U	
191-24-2	Benzo(g,h,i)perylene	10	U	

(1) - Cannot be separated from Diphenylamine

AMN
31JAN95

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SKGWB5

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2239002

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1654.D

Level: (low/med) LOW Date Received: 10/28/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/31/94

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/01/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 20 ✓

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.630	24	J
2.	UNKNOWN	3.856	4	J
3.	UNKNOWN	5.404	22	J
4.	UNKNOWN	5.561	22	J
5.	UNKNOWN	8.900	4	J
6.	UNKNOWN	10.779	50	J
7.	UNKNOWN	11.057	7	J
8.	UNKNOWN	11.179	12	J
9.	UNKNOWN	11.266	10	J
10.	UNKNOWN	11.510	20	J
11.	UNKNOWN	11.875	16	J
12.	UNKNOWN	13.458	4	J
13.	UNKNOWN AROMATIC	14.067	4	J
14.	UNKNOWN	14.310	3	J
15.	UNKNOWN	18.607	5	J
16.	UNKNOWN	19.250	280	J
17.	UNKNOWN	19.894	4	J
18.	UNKNOWN	21.720	6	J
19.	UNKNOWN	35.497	26	J
20.	UNKNOWN	36.192	5	J
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Amn
31 JAN 95

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW06

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2240604

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1692.D

Level: (low/med) LOW Date Received: 10/29/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/02/94

Concentrated Extract Volume: 1000(UL) Date Analyzed: 12/02/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

Qmn
31JAN95

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW06

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2240604

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1692.D

Level: (low/med) LOW Date Received: 10/29/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/02/94

Concentrated Extract Volume: 1000(UL) Date Analyzed: 12/02/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

Amn
31JAN95

FORM I SV-2 3/90

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SKGW06

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2240604

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1692.D

Level: (low/med) LOW Date Received: 10/29/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/02/94

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/02/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 2 ✓

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.753	2	J
2.	UNKNOWN	19.095	2	J
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CMN
31 JAN 95

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW7R

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2240603

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1691.D

Level: (low/med) LOW Date Received: 10/29/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/02/94 ✓

Concentrated Extract Volume: 1000(UL) Date Analyzed: 12/02/94 ✓

Injection Volume: 2.0(uL) Dilution Factor: 1.0 ✓

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U ✓
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

GMN
31 JAN 95

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW7R

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2240603

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1691.D

Level: (low/med) LOW Date Received: 10/29/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/02/94

Concentrated Extract Volume: 1000(UL) Date Analyzed: 12/02/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	32	
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

Amn
31 JAN95

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SKGW7R

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2240603

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1691.D

Level: (low/med) LOW Date Received: 10/29/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/02/94

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/02/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 1 ✓

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	19.096	54	J
2.				
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FORM I SV-TIC

amn
31 JAN 95

3/90

0000260

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW09

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2236802

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1617.D

Level: (low/med) LOW Date Received: 10/26/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/31/94

Concentrated Extract Volume: 1000(UL) Date Analyzed: 11/30/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U ✓
77-47-4	Hexachlorocyclopentadiene	10	U ✓
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

GMM
31 JAN 95

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW09

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2236802

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1617.D

Level: (low/med) LOW Date Received: 10/26/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/31/94

Concentrated Extract Volume: 1000(UL) Date Analyzed: 11/30/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	75	
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

CMN
31 JAN 95

FORM I SV-2

3/90

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SKGW09

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2236802

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1617.D

Level: (low/med) LOW Date Received: 10/26/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/31/94

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/30/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 1 ✓

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	19.269	4	J
2.				
3.				
4.				
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FORM I SV-TIC

amn
31 JAN 95

3/90

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW10

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2239005

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1657.D

Level: (low/med) LOW Date Received: 10/28/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/31/94 ✓

Concentrated Extract Volume: 1000(UL) Date Analyzed: 12/01/94 ✓

Injection Volume: 2.0(uL) Dilution Factor: 1.0 ✓

GPC Cleanup: (Y/N) N pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether ✓	7	J
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U ✓
87-68-3	Hexachlorobutadiene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U ✓
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

amn
31 JAN 95

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW10

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2239005

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1657.D

Level: (low/med) LOW Date Received: 10/28/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/31/94

Concentrated Extract Volume: 1000(UL) Date Analyzed: 12/01/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	79	
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

amn
31 JAN95

FORM I SV-2

3/90

0000082

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SKGW10

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2239005

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1657.D

Level: (low/med) LOW Date Received: 10/28/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/31/94

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/01/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

Number TICs found: ~~20~~ 18

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	~~UNKNOWN SILOXANE~~	~~3.995~~	~~10~~	~~J~~ R
2.	UNKNOWN	4.064	5	J
3.	UNKNOWN	5.612	3	J
4.	UNKNOWN	5.734	3	J
5.	UNKNOWN	5.838	3	J
6.	~~UNKNOWN SILOXANE~~	~~6.273~~	~~3~~	~~J~~ R
7.	UNKNOWN	7.074	4	J
8.	UNKNOWN	10.605	4	J
9.	UNKNOWN	10.779	10	J
10.	UNKNOWN	11.022	6	J
11.	UNKNOWN	11.283	9	J
12.	UNKNOWN	11.527	9	J
13.	UNKNOWN AROMATIC	18.154	3	J
14.	UNKNOWN	18.641	48	J
15.	UNKNOWN	19.267	280	J
16.	UNKNOWN	19.563	8	J
17.	UNKNOWN	19.963	12	J
18.	UNKNOWN	20.937	4	J
19.	UNKNOWN	21.772	7	J
20.	UNKNOWN	22.798	8	J
21.				
22.				
23.				
24.				
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GMM
31JAN95

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW11

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238403

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1624.D

Level: (low/med) LOW Date Received: 10/27/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/31/94

Concentrated Extract Volume: 1000(UL) Date Analyzed: 11/30/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	2	J
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U ✓
77-47-4	Hexachlorocyclopentadiene	10	U ✓
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

GMM
31JAN95

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW11

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238403

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1624.D

Level: (low/med) LOW Date Received: 10/27/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/31/94

Concentrated Extract Volume: 1000(UL) Date Analyzed: 11/30/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

AMN
31JAN95

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SKGW11

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238403

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1624.D

Level: (low/med) LOW Date Received: 10/27/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/31/94

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/30/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5.0

Number TICs found: ~~20~~ 19

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.681	21	J
2.	~~UNKNOWN SILOXANE~~	~~4.029~~	~~9~~	~~J~~ R
3.	UNKNOWN	7.891	8	J
4.	UNKNOWN	8.952	6	J
5.	UNKNOWN	9.369	19	J
6.	UNKNOWN	10.848	7	J
7.	UNKNOWN	11.074	7	J
8.	UNKNOWN	11.300	5	J
9.	UNKNOWN	12.952	8	J
10.	UNKNOWN	13.231	6	J
11.	UNKNOWN	15.666	7	J
12.	UNKNOWN	15.840	6	J
13.	UNKNOWN	16.327	9	J
14.	UNKNOWN	16.692	7	J
15.	UNKNOWN	17.823	5	J
16.	UNKNOWN	19.301	5	J
17.	UNKNOWN	19.701	11	J
18.	UNKNOWN	21.876	5	J
19.	UNKNOWN	22.867	9	J
20.	UNKNOWN	24.189	14	J
21.				
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GMM
31JAN95

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW17

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2236801

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1616.D

Level: (low/med) LOW Date Received: 10/26/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/31/94 ✓

Concentrated Extract Volume: 1000(UL) Date Analyzed: 11/30/94 ✓

Injection Volume: 2.0(uL) Dilution Factor: 1.0 ✓

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U ✓
77-47-4	Hexachlorocyclopentadiene	10	U ✓
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

GMN
31 JAN 95

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW17

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2236801

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1616.D

Level: (low/med) LOW Date Received: 10/26/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/31/94

Concentrated Extract Volume: 1000(UL) Date Analyzed: 11/30/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

Amn
31JAN95

FORM I SV-2 3/90

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SKGW17

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2236801

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1616.D

Level: (low/med) LOW Date Received: 10/26/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/31/94

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/30/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 20 ✓

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.752	24	J
2.	UNKNOWN	6.813	15	J
3.	UNKNOWN	8.414	71	J
4.	UNKNOWN	10.518	9	J
5.	UNKNOWN	10.832	14	J
6.	UNKNOWN	10.884	20	J
7.	UNKNOWN	10.936	13	J
8.	UNKNOWN	11.092	38	J
9.	UNKNOWN HYDROCARBON	11.127	26	J
10.	UNKNOWN	11.423	16	J
11.	UNKNOWN	11.666	10	J
12.	UNKNOWN	15.058	9	J
13.	UNKNOWN	15.111	10	J
14.	UNKNOWN	15.911	10	J
15.	UNKNOWN	17.424	13	J
16.	UNKNOWN	17.581	21	J
17.	UNKNOWN	17.720	13	J
18.	UNKNOWN	19.216	12	J
19.	UNKNOWN	20.224	11	J
20.	UNKNOWN	20.311	10	J
21.				
22.				
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Cimm
31JAN95

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW18

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2240602

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1690.D

Level: (low/med) LOW Date Received: 10/29/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/02/94 ✓

Concentrated Extract Volume: 1000(UL) Date Analyzed: 12/02/94 ✓

Injection Volume: 2.0(uL) Dilution Factor: 1.0 ✓

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	1	J
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U ✓
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

Cmn
31JAN95

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW18

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2240602

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1690.D

Level: (low/med) LOW Date Received: 10/29/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/02/94

Concentrated Extract Volume: 1000(UL) Date Analyzed: 12/02/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	220 ~~140~~	~~E~~ D
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

BIS(2-ETHYLHEXYL) PHTHALATE RESULT REPORTED HAS BEEN TRANSFERRED FROM THE FORM I FOR SK-GW18 DL

(1) - Cannot be separated from Diphenylamine

Amn
31 JAN 95

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SKGW18

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2240602

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1690.D

Level: (low/med) LOW Date Received: 10/29/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/02/94

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/02/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: ~~18~~ 17

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.615	4	J
2.	~~UNKNOWN SILOXANE~~	~~3.962~~	~~2~~	~~J~~ R
3.	UNKNOWN	6.833	4	J
4.	UNKNOWN	8.224	2	J
5.	UNKNOWN	9.964	3	J
6.	UNKNOWN	10.729	5	J
7.	UNKNOWN	10.886	2	J
8.	UNKNOWN	13.095	3	J
9.	UNKNOWN	15.530	5	J
10.	UNKNOWN	15.704	10	J
11.	UNKNOWN	16.191	3	J
12.	UNKNOWN	19.131	4	J
13.	UNKNOWN	20.870	2	J
14.	UNKNOWN	22.818	14	J
15.	UNKNOWN	25.358	4	J
16.	UNKNOWN	26.140	2	J
17.	UNKNOWN	28.262	18	J
18.	UNKNOWN	34.977	6	J
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QMM
31 JAN95

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW25

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2239001

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1653.D

Level: (low/med) LOW Date Received: 10/28/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/31/94

Concentrated Extract Volume: 1000(UL) Date Analyzed: 12/01/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

GMN 31 JAN95

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW25

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2239001

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1653.D

Level: (low/med) LOW Date Received: 10/28/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/31/94

Concentrated Extract Volume: 1000(UL) Date Analyzed: 12/01/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

GMN
31 JAN 95

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SKGW25

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2239001

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1653.D

Level: (low/med) LOW Date Received: 10/28/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/31/94

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/01/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

Number TICs found: 6 ✓

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	10.325	26	J
2.	UNKNOWN	18.588	2	J
3.	UNKNOWN	19.162	41	J
4.	UNKNOWN	21.684	14	J
5.	UNKNOWN	21.840	4	J
6.	UNKNOWN	37.583	16	J
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GMM
31JAN95

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW26

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2240601

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1687.D

Level: (low/med) LOW Date Received: 10/29/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/02/94

Concentrated Extract Volume: 1000(UL) Date Analyzed: 12/02/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

31 JAN 95

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW26

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2240601

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1687.D

Level: (low/med) LOW Date Received: 10/29/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/02/94

Concentrated Extract Volume: 1000(UL) Date Analyzed: 12/02/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	4	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

CMM
31JAN95

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SKGW26

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2240601

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1687.D

Level: (low/med) LOW Date Received: 10/29/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/02/94

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/02/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 1 ✓

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	22.868	20	J
2.				
3.				
4.				
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31 JAN 95

FORM I SV-TIC 3/90

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW28

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238401

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1622.D

Level: (low/med) LOW Date Received: 10/27/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/31/94

Concentrated Extract Volume: 1000(UL) Date Analyzed: 11/30/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

Cmn 31 JAN95

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW28

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238401

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1622.D

Level: (low/med) LOW Date Received: 10/27/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/31/94

Concentrated Extract Volume: 1000(UL) Date Analyzed: 11/30/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

QMM
31JAN95

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SKGW28

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238401

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1622.D

Level: (low/med) LOW Date Received: 10/27/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/31/94

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/30/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 1✓

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.125	3	J
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GMN
31 JAN95

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW30

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238406

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1652.D

Level: (low/med) LOW Date Received: 10/27/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/31/94 ✓

Concentrated Extract Volume: 1000(UL) Date Analyzed: 12/01/94 ✓

Injection Volume: 2.0(uL) Dilution Factor: 1.0 ✓

GPC Cleanup: (Y/N) N pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U ✓
87-68-3	Hexachlorobutadiene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U ✓
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

JMM 31 JAN 95

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW30

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238406

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1652.D

Level: (low/med) LOW Date Received: 10/27/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/31/94

Concentrated Extract Volume: 1000(UL) Date Analyzed: 12/01/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
51-28-5	2,4-Dinitrophenol	25	U	
100-02-7	4-Nitrophenol	25	U	
132-64-9	Dibenzofuran	10	U	
121-14-2	2,4-Dinitrotoluene	10	U	
84-66-2	Diethylphthalate	10	U	
7005-72-3	4-Chlorophenyl-phenylether	10	U	
86-73-7	Fluorene	10	U	
100-01-6	4-Nitroaniline	25	U	
534-52-1	4,6-Dinitro-2-methylphenol	25	U	
86-30-6	N-Nitrosodiphenylamine (1)	10	U	
101-55-3	4-Bromophenyl-phenylether	10	U	
118-74-1	Hexachlorobenzene	10	U	
87-86-5	Pentachlorophenol	25	U	
85-01-8	Phenanthrene	10	U	
120-12-7	Anthracene	10	U	
86-74-8	Carbazole	10	U	
84-74-2	Di-n-butylphthalate	1	J	J
206-44-0	Fluoranthene	10	U	
129-00-0	Pyrene	10	U	
85-68-7	Butylbenzylphthalate	10	U	
91-94-1	3,3'-Dichlorobenzidine	10	U	
56-55-3	Benzo(a)anthracene	10	U	
218-01-9	Chrysene	10	U	
117-81-7	bis(2-Ethylhexyl)phthalate	10	U	
117-84-0	Di-n-octylphthalate	10	U	
205-99-2	Benzo(b)fluoranthene	10	U	
207-08-9	Benzo(k)fluoranthene	10	U	
50-32-8	Benzo(a)pyrene	10	U	
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	
53-70-3	Dibenz(a,h)anthracene	10	U	
191-24-2	Benzo(g,h,i)perylene	10	U	

(1) - Cannot be separated from Diphenylamine

CMM 31 JAN95

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SKGW30

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238406

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1652.D

Level: (low/med) LOW Date Received: 10/27/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/31/94

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/01/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

Number TICs found: 10 ✓

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	10.329	25	J
2.	UNKNOWN	21.706	27	J
3.	UNKNOWN	21.862	8	J
4.	UNKNOWN	27.881	3	J
5.	UNKNOWN	30.977	13	J
6.	UNKNOWN	33.708	3	J
7.	UNKNOWN	34.003	25	J
8.	UNKNOWN	37.465	8	J
9.	UNKNOWN	37.656	4	J
10.	UNKNOWN	37.882	16	J
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31 JAN 95

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW31

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238405

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1626.D

Level: (low/med) LOW Date Received: 10/27/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/31/94 ✓

Concentrated Extract Volume: 1000(UL) Date Analyzed: 11/30/94 ✓

Injection Volume: 2.0(uL) Dilution Factor: 1.0 ✓

GPC Cleanup: (Y/N) N pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U ✓
77-47-4	Hexachlorocyclopentadiene	10	U ✓
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

GMM
31 JAN 95

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW31

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238405

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1626.D

Level: (low/med) LOW Date Received: 10/27/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/31/94

Concentrated Extract Volume: 1000(UL) Date Analyzed: 11/30/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
51-28-5	2,4-Dinitrophenol	25	U	V
100-02-7	4-Nitrophenol	25	U	
132-64-9	Dibenzofuran	10	U	
121-14-2	2,4-Dinitrotoluene	10	U	
84-66-2	Diethylphthalate	10	U	
7005-72-3	4-Chlorophenyl-phenylether	10	U	
86-73-7	Fluorene	10	U	
100-01-6	4-Nitroaniline	25	U	
534-52-1	4,6-Dinitro-2-methylphenol	25	U	V
86-30-6	N-Nitrosodiphenylamine (1)	10	U	
101-55-3	4-Bromophenyl-phenylether	10	U	
118-74-1	Hexachlorobenzene	10	U	
87-86-5	Pentachlorophenol	25	U	
85-01-8	Phenanthrene	10	U	
120-12-7	Anthracene	10	U	
86-74-8	Carbazole	10	U	
84-74-2	Di-n-butylphthalate	10	U	
206-44-0	Fluoranthene	10	U	
129-00-0	Pyrene	10	U	
85-68-7	Butylbenzylphthalate	10	U	
91-94-1	3,3'-Dichlorobenzidine	10	U	
56-55-3	Benzo(a)anthracene	10	U	
218-01-9	Chrysene	10	U	
117-81-7	bis(2-Ethylhexyl)phthalate	10	U	
117-84-0	Di-n-octylphthalate	10	U	
205-99-2	Benzo(b)fluoranthene	10	U	
207-08-9	Benzo(k)fluoranthene	10	U	
50-32-8	Benzo(a)pyrene	10	U	
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	
53-70-3	Dibenz(a,h)anthracene	10	U	
191-24-2	Benzo(g,h,i)perylene	10	U	

(1) - Cannot be separated from Diphenylamine

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31JAN95

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SKGW31

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238405

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1626.D

Level: (low/med) LOW Date Received: 10/27/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/31/94

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/30/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

Number TICs found: 2✓

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	21.756	17	J
2.	UNKNOWN	21.912	6	J
3.				
4.				
5.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW38

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2236803

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1618.D

Level: (low/med) LOW Date Received: 10/26/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/31/94 ✓

Concentrated Extract Volume: 1000(UL) Date Analyzed: 11/30/94 ✓

Injection Volume: 2.0(uL) Dilution Factor: 1.0 ✓

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U ✓
77-47-4	Hexachlorocyclopentadiene	10	U ✓
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

CMM
31 JAN95

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW38

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2236803

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1618.D

Level: (low/med) LOW Date Received: 10/26/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/31/94

Concentrated Extract Volume: 1000(UL) Date Analyzed: 11/30/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
51-28-5	2,4-Dinitrophenol	25	U	✓
100-02-7	4-Nitrophenol	25	U	
132-64-9	Dibenzofuran	10	U	
121-14-2	2,4-Dinitrotoluene	10	U	
84-66-2	Diethylphthalate	10	U	
7005-72-3	4-Chlorophenyl-phenylether	10	U	
86-73-7	Fluorene	10	U	
100-01-6	4-Nitroaniline	25	U	
534-52-1	4,6-Dinitro-2-methylphenol	25	U	✓
86-30-6	N-Nitrosodiphenylamine (1)	10	U	
101-55-3	4-Bromophenyl-phenylether	10	U	
118-74-1	Hexachlorobenzene	10	U	
87-86-5	Pentachlorophenol	25	U	
85-01-8	Phenanthrene	10	U	
120-12-7	Anthracene	10	U	
86-74-8	Carbazole	10	U	
84-74-2	Di-n-butylphthalate	10	U	
206-44-0	Fluoranthene	10	U	
129-00-0	Pyrene	10	U	
85-68-7	Butylbenzylphthalate	10	U	
91-94-1	3,3'-Dichlorobenzidine	10	U	
56-55-3	Benzo(a)anthracene	10	U	
218-01-9	Chrysene	10	U	
117-81-7	bis(2-Ethylhexyl)phthalate	10	U	
117-84-0	Di-n-octylphthalate	10	U	
205-99-2	Benzo(b)fluoranthene	10	U	
207-08-9	Benzo(k)fluoranthene	10	U	
50-32-8	Benzo(a)pyrene	10	U	
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	
53-70-3	Dibenz(a,h)anthracene	10	U	
191-24-2	Benzo(g,h,i)perylene	10	U	

(1) - Cannot be separated from Diphenylamine

CMM
31JAN95

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SKGW38

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2236803

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1618.D

Level: (low/med) LOW Date Received: 10/26/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/31/94

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/30/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.613	170	J
2.				
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Amn
31JAN95

FORM I SV-TIC 3/90

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GWFD01

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238402

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1623.D

Level: (low/med) LOW Date Received: 10/27/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/31/94 ✓

Concentrated Extract Volume: 1000(UL) Date Analyzed: 11/30/94 ✓

Injection Volume: 2.0(uL) Dilution Factor: 1.0 ✓

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U ✓
77-47-4	Hexachlorocyclopentadiene	10	U ✓
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

limn
31 JAN 95

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GWFD01

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238402

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1623.D

Level: (low/med) LOW Date Received: 10/27/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/31/94

Concentrated Extract Volume: 1000(UL) Date Analyzed: 11/30/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	29	
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

AMN
31 JAN 95

FORM I SV-2 3/90

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GWFD01

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238402

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1623.D

Level: (low/med) LOW Date Received: 10/27/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/31/94

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/30/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 1 ✓

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.125	2	J
2.				
3.				
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Amn
31 JAN 95

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKFD02

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2239004

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1656.D

Level: (low/med) LOW Date Received: 10/28/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/31/94 ✓

Concentrated Extract Volume: 1000(UL) Date Analyzed: 12/01/94 ✓

Injection Volume: 2.0(uL) Dilution Factor: 1.0 ✓

GPC Cleanup: (Y/N) N pH: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	7	J
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U ✓
87-68-3	Hexachlorobutadiene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U ✓
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

GMM
31 JAN95

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKFD02

Lab. Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2239004

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1656.D

Level: (low/med) LOW Date Received: 10/28/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/31/94

Concentrated Extract Volume: 1000(UL) Date Analyzed: 12/01/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	58	
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

Cmm
31JAN95

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SKFD02

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2239004

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1656.D

Level: (low/med) LOW Date Received: 10/28/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/31/94

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/01/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5.0

Number TICs found: ~~19~~ 18

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	~~UNKNOWN SILOXANE~~	~~3.995~~	~~7~~	~~J~~ R
2.	UNKNOWN	4.064	5	J
3.	UNKNOWN	5.612	2	J
4.	UNKNOWN	7.074	3	J
5.	UNKNOWN	10.604	4	J
6.	UNKNOWN	10.778	9	J
7.	UNKNOWN	11.022	4	J
8.	UNKNOWN	11.265	6	J
9.	UNKNOWN	11.509	8	J
10.	UNKNOWN	13.353	2	J
11.	UNKNOWN AROMATIC	18.154	4	J
12.	UNKNOWN	18.641	50	J
13.	UNKNOWN	19.058	3	J
14.	UNKNOWN	19.267	290	J
15.	UNKNOWN	19.545	12	J
16.	UNKNOWN AROMATIC	19.945	13	J
17.	UNKNOWN	20.937	2	J
18.	UNKNOWN	21.754	7	J
19.	UNKNOWN	22.781	7	J
20.				
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Amn
31 JAN 95

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGWFB

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238404

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1625.D

Level: (low/med) LOW Date Received: 10/27/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/31/94

Concentrated Extract Volume: 1000(UL) Date Analyzed: 11/30/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

GMN
31 JAN95

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGWFB

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238404

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1625.D

Level: (low/med) LOW Date Received: 10/27/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/31/94

Concentrated Extract Volume: 1000(UL) Date Analyzed: 11/30/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

Amn
31 JAN95

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SKGWFB

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238404

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1625.D

Level: (low/med) LOW Date Received: 10/27/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/31/94

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/30/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 0 ✓

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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FORM I SV-TIC

Gmn
31 JAN95

3/90

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKFB02

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2239003

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1655.D

Level: (low/med) LOW Date Received: 10/28/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/31/94 ✓

Concentrated Extract Volume: 1000(UL) Date Analyzed: 12/01/94 ✓

Injection Volume: 2.0(uL) Dilution Factor: 1.0 ✓

GPC Cleanup: (Y/N) N pH: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U ✓
87-68-3	Hexachlorobutadiene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U ✓
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

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31 JAN 95

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKFB02

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2239003

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1655.D

Level: (low/med) LOW Date Received: 10/28/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/31/94

Concentrated Extract Volume: 1000(UL) Date Analyzed: 12/01/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

CMM
31JAN95

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SKFB02

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2239003

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1655.D

Level: (low/med) LOW Date Received: 10/28/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/31/94

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/01/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5.0

Number TICs found: 0✓

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
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11.				
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30.				

FORM I SV-TIC 31 JAN 95 3/90

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW18DL

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2240602

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1714.D

Level: (low/med) LOW Date Received: 10/29/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/02/94

Concentrated Extract Volume: 1000(UL) Date Analyzed: 12/03/94

Injection Volume: 2.0(uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	40	U
111-44-4	bis(2-Chloroethyl)Ether	40	U
95-57-8	2-Chlorophenol	40	U
541-73-1	1,3-Dichlorobenzene	40	U
106-46-7	1,4-Dichlorobenzene	40	U
95-50-1	1,2-Dichlorobenzene	40	U
95-48-7	2-Methylphenol	40	U
108-60-1	2,2'-oxybis(1-Chloropropane)	40	U
106-44-5	4-Methylphenol	40	U
621-64-7	N-Nitroso-di-n-propylamine	40	U
67-72-1	Hexachloroethane	40	U
98-95-3	Nitrobenzene	40	U
78-59-1	Isophorone	40	U
88-75-5	2-Nitrophenol	40	U
105-67-9	2,4-Dimethylphenol	40	U
120-83-2	2,4-Dichlorophenol	40	U
120-82-1	1,2,4-Trichlorobenzene	40	U
91-20-3	Naphthalene	40	U
106-47-8	4-Chloroaniline	40	U
87-68-3	Hexachlorobutadiene	40	U
111-91-1	bis(2-Chloroethoxy)methane	40	U
59-50-7	4-Chloro-3-Methylphenol	40	U
91-57-6	2-Methylnaphthalene	40	U
77-47-4	Hexachlorocyclopentadiene	40	U
88-06-2	2,4,6-Trichlorophenol	40	U
95-95-4	2,4,5-Trichlorophenol	100	U
91-58-7	2-Chloronaphthalene	40	U
88-74-4	2-Nitroaniline	100	U
131-11-3	Dimethylphthalate	40	U
208-96-8	Acenaphthylene	40	U
606-20-2	2,6-Dinitrotoluene	40	U
99-09-2	3-Nitroaniline	100	U
83-32-9	Acenaphthene	40	U

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1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SKGW18DL

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2240602

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1714.D

Level: (low/med) LOW Date Received: 10/29/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/02/94

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/03/94

Injection Volume: 2.0(uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	15.668	11	JD
2.		UNKNOWN	22.817	12	JD
3.		UNKNOWN	28.471	17	JD
4.		UNKNOWN	35.080	30	JD
5.					
6.					
7.					
8.					
9.					
10.					
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31 JAN 95

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW18DL

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2240602

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R1714.D

Level: (low/med) LOW Date Received: 10/29/94

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/02/94

Concentrated Extract Volume: 1000(UL) Date Analyzed: 12/03/94

Injection Volume: 2.0(uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	100	U
100-02-7	4-Nitrophenol	100	U
132-64-9	Dibenzofuran	40	U
121-14-2	2,4-Dinitrotoluene	40	U
84-66-2	Diethylphthalate	40	U
7005-72-3	4-Chlorophenyl-phenylether	40	U
86-73-7	Fluorene	40	U
100-01-6	4-Nitroaniline	100	U
534-52-1	4,6-Dinitro-2-methylphenol	100	U
86-30-6	N-Nitrosodiphenylamine (1)	40	U
101-55-3	4-Bromophenyl-phenylether	40	U
118-74-1	Hexachlorobenzene	40	U
87-86-5	Pentachlorophenol	100	U
85-01-8	Phenanthrene	40	U
120-12-7	Anthracene	40	U
86-74-8	Carbazole	40	U
84-74-2	Di-n-butylphthalate	40	U
206-44-0	Fluoranthene	40	U
129-00-0	Pyrene	40	U
85-68-7	Butylbenzylphthalate	40	U
91-94-1	3,3'-Dichlorobenzidine	40	U
56-55-3	Benzo(a)anthracene	40	U
218-01-9	Chrysene	40	U
117-81-7	bis(2-Ethylhexyl)phthalate	220	D
117-84-0	Di-n-octylphthalate	40	U
205-99-2	Benzo(b)fluoranthene	40	U
207-08-9	Benzo(k)fluoranthene	40	U
50-32-8	Benzo(a)pyrene	40	U
193-39-5	Indeno(1,2,3-cd)pyrene	40	U
53-70-3	Dibenz(a,h)anthracene	40	U
191-24-2	Benzo(g,h,i)perylene	40	U

BIS(2-ETHYLHEXYL)PHTHALATE RESULT HAS BEEN TRANSFERED TO THE FORM I FOR THE ORIGINAL (UNDILUTED) ANALYSIS OF SAMPLE SK-GW18

(1) - Cannot be separated from Diphenylamine

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31JAN95

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGWB5

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: _____ SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2239002

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 10/28/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/29/94

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/03/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.0 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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FORM I PEST 3/90

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW06

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: _____ SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2240604

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 10/29/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/01/94

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/04/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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FORM I PEST 3/90

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW7R

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: _____ SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2240603

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 10/29/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/01/94 ✓

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/04/94 ✓

Injection Volume: 1.00 (uL) Dilution Factor: 1.00 ✓

GPC Cleanup: (Y/N) N ✓ pH: 7.0 Sulfur Cleanup: (Y/N) N ✓

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW09

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: _____ SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2236802

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 10/26/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/29/94

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/03/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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FORM I PEST 3/90

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW10

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: _____ SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2239005

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 10/28/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/29/94 ✓

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/03/94 ✓

Injection Volume: 1.00 (uL) Dilution Factor: 1.00 ✓

GPC Cleanup: (Y/N) N ✓ pH: 7.0 Sulfur Cleanup: (Y/N) N ✓

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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FORM I PEST 3/90

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW11

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: _____ SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238403

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 10/27/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/29/94 ✓

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/04/94 ✓

Injection Volume: 1.00 (uL) Dilution Factor: 1.00 ✓

GPC Cleanup: (Y/N) N ✓ pH: 7.0 Sulfur Cleanup: (Y/N) N ✓

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW17

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: _____ SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2236801

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 10/26/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/29/94 ✓

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/03/94 ✓

Injection Volume: 1.00 (uL) Dilution Factor: 1.00 ✓

GPC Cleanup: (Y/N) N ✓ pH: 7.0 Sulfur Cleanup: (Y/N) N ✓

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW18

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: _____ SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2240602

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 10/29/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/01/94 ✓

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/04/94 ✓

Injection Volume: 1.00 (uL) Dilution Factor: 1.00 ✓

GPC Cleanup: (Y/N) N ✓ pH: 7.0 Sulfur Cleanup: (Y/N) N ✓

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW25

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: _____ SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2239001

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 10/28/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/29/94

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/03/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.0 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW26

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: _____ SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2240601

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 10/29/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/01/94

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/04/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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FORM I PEST 3/90

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW28

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: _____ SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238401

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 10/27/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/29/94

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/03/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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FORM I PEST 3/90

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW30

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: _____ SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238406

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 10/27/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/29/94 ✓

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/04/94 ✓

Injection Volume: 1.00 (uL) Dilution Factor: 1.00 ✓

GPC Cleanup: (Y/N) N ✓ pH: 6.0 Sulfur Cleanup: (Y/N) N ✓

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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FORM I PEST 3/90

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW31

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: _____ SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238405

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 10/27/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/29/94 ✓

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/04/94 ✓

Injection Volume: 1.00 (uL) Dilution Factor: 1.00 ✓

GPC Cleanup: (Y/N) N ✓ pH: 6.0 Sulfur Cleanup: (Y/N) N ✓

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW38

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: _____ SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2236803

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 10/26/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/29/94 ✓

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/03/94 ✓

Injection Volume: 1.00 (uL) Dilution Factor: 1.00 ✓

GPC Cleanup: (Y/N) N ✓ pH: 6.0 Sulfur Cleanup: (Y/N) N ✓

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GWFD01

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: _____ SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238402

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 10/27/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/29/94 ✓

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/03/94 ✓

Injection Volume: 1.00 (uL) Dilution Factor: 1.00 ✓

GPC Cleanup: (Y/N) N ✓ pH: 7.0 Sulfur Cleanup: (Y/N) N ✓

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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1 FEB 95

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKFD02

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: _____ SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2239004

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 10/28/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/29/94

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/03/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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FORM I PEST 3/90

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKFB02

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: _____ SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2239003

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 10/28/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/29/94

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/03/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Qmn
1 FEB 95

FORM I PEST 3/90

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGWFB

Lab Name: NYTEST ENV INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: _____ SDG No.: SKIN4

Matrix: (soil/water) WATER Lab Sample ID: 2238404

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 10/27/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/29/94 ✓

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/04/94 ✓

Injection Volume: 1.00 (uL) Dilution Factor: 1.00 ✓

GPC Cleanup: (Y/N) N ✓ pH: 6.0 Sulfur Cleanup: (Y/N) N ✓

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

GMM
1 FEB95

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SKGWB5

Lab Name: NYTEST_ENV_INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix (soil/water): WATER Lab Sample ID: 239002

Level (low/med): LOW Date Received: 10/28/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	190	B		P
7440-36-0	Antimony	38.0	U		P
7440-38-2	Arsenic	14.9		S	F
7440-39-3	Barium	55.1	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U	V	P
7440-70-2	Calcium	234000			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	6.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	9780		E	P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	50400			P
7439-96-5	Manganese	659			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	26.0	U		P
7440-09-7	Potassium	5740			P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	43600		E	P
7440-28-0	Thallium	5.0	U		F
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	5.0	U		P
5955-70-0	Cyanide	10.0	U		AS

GGF 1-10-95

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SKGW06

Lab Name: NYTEST_ENV_INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix (soil/water): WATER Lab Sample ID: 240604

Level (low/med): LOW Date Received: 10/29/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
5955-70-0	Cyanide	10.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SKGW7R

Lab Name: NYTEST_ENV_INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix (soil/water): WATER Lab Sample ID: 240603

Level (low/med): LOW Date Received: 10/29/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
5955-70-0	Cyanide	10.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SKGW09

Lab Name: NYTEST_ENV_INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix (soil/water): WATER Lab Sample ID: 236802

Level (low/med): LOW Date Received: 10/26/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	335			P
7440-36-0	Antimony	38.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-39-3	Barium	884			P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U	V	P
7440-70-2	Calcium	88400			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	6.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	2390		E	P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	39500			P
7439-96-5	Manganese	35.4			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	26.0	U		P
7440-09-7	Potassium	3870	B		P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	54100		E	P
7440-28-0	Thallium	5.0	U		F
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	5.0	U		P
5955-70-0	Cyanide	10.0	U		AS

66F 1-10-95

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

DKGW09

Lab Name: NYTEST_ENV_INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix (soil/water): WATER Lab Sample ID: D236802

Level (low/med): LOW Date Received: 10/26/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	57.0	U		P
7440-36-0	Antimony	38.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-39-3	Barium	881			P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U	V	P
7440-70-2	Calcium	88400			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	6.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	1590			P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	39300			P
7439-96-5	Manganese	22.8		*	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	26.0	U		P
7440-09-7	Potassium	4460	B		P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	54000		*	P
7440-28-0	Thallium	5.0	U		F
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	5.0	U		P
5955-70-0	Cyanide				NR

GLF 1-10-95

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
SKGW09, DISSOLVED

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SKGW10

Lab Name: NYTEST_ENV_INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix (soil/water): WATER Lab Sample ID: 239005

Level (low/med): LOW Date Received: 10/28/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	855			P
7440-36-0	Antimony	38.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-39-3	Barium	125	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U	V	P
7440-70-2	Calcium	243000			P
7440-47-3	Chromium	8.8	B	V	P
7440-48-4	Cobalt	6.0	U		P
7440-50-8	Copper	12.8	B	V	P
7439-89-6	Iron	2860		E	P
7439-92-1	Lead	5.4			F
7439-95-4	Magnesium	91200			P
7439-96-5	Manganese	591			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	26.0	U		P
7440-09-7	Potassium	54900			P
7782-49-2	Selenium	5.0	U	W	F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	159000		E	P
7440-28-0	Thallium	5.0	U		F
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	8.0	B		P
5955-70-0	Cyanide	10.0			AS

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN 3/90

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

DKGW10

Lab Name: NYTEST_ENV_INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix (soil/water): WATER Lab Sample ID: D239005

Level (low/med): LOW Date Received: 10/28/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	57.0	U		P
7440-36-0	Antimony	38.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-39-3	Barium	79.1	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U	V	P
7440-70-2	Calcium	238000			P
7440-47-3	Chromium	5.0	U	V	P
7440-48-4	Cobalt	6.0	U		P
7440-50-8	Copper	6.8	B	V	P
7439-89-6	Iron	16.0	U		P
7439-92-1	Lead	4.3			F
7439-95-4	Magnesium	89400			P
7439-96-5	Manganese	495		*	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	26.0	U		P
7440-09-7	Potassium	53300			P
7782-49-2	Selenium	5.0	U	W	F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	156000		*	P
7440-28-0	Thallium	5.0	U		F
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	5.0	U		P
5955-70-0	Cyanide				NR

EGF 170-95

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
SKGW10, DISSOLVED

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SKGW11

Lab Name: NYTEST_ENV_INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix (soil/water): WATER Lab Sample ID: 238403

Level (low/med): LOW Date Received: 10/27/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	57.0	U		P
7440-36-0	Antimony	38.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-39-3	Barium	90.4	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U	V	P
7440-70-2	Calcium	251000			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	6.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	472		E	P
7439-92-1	Lead	3.0	U	W	F
7439-95-4	Magnesium	81700			P
7439-96-5	Manganese	4430			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	33.8	B		P
7440-09-7	Potassium	39200			P
7782-49-2	Selenium	5.0	U	W	F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	178000		E	P
7440-28-0	Thallium	5.0	U		F
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	5.0	U		P
5955-70-0	Cyanide	10.0	U		AS

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

DKGW11

Lab Name: NYTEST_ENV_INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix (soil/water): WATER Lab Sample ID: D238403

Level (low/med): LOW Date Received: 10/27/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	57.0	U		P
7440-36-0	Antimony	38.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-39-3	Barium	94.6	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U	✓	P
7440-70-2	Calcium	255000			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	6.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	478			P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	80800			P
7439-96-5	Manganese	4540		*	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	26.0	U		P
7440-09-7	Potassium	39700			P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	182000		*	P
7440-28-0	Thallium	5.0	U	W	F
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	5.0	U		P
5955-70-0	Cyanide				NR

GF 1-10-95

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:
SKGW11, DISSOLVED

FORM I - IN 3/90

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SKGW17

Lab Name: NYTEST_ENV_INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368_ SAS No.: _____ SDG No.: SKIN4_

Matrix (soil/water): WATER Lab Sample ID: 236801

Level (low/med): LOW Date Received: 10/26/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	57.0	U		P
7440-36-0	Antimony	38.0	U		P
7440-38-2	Arsenic	20.0			F
7440-39-3	Barium	210			P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U	V	P
7440-70-2	Calcium	116000			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	6.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	12000		E	P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	38600			P
7439-96-5	Manganese	922			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	26.0	U		P
7440-09-7	Potassium	35000			P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	64200		E	P
7440-28-0	Thallium	5.0	U	W	F
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	5.0	U		P
5955-70-0	Cyanide	10.0	U		AS

KdF 1-10-95

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

DKGW17

Lab Name: NYTEST_ENV_INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix (soil/water): WATER Lab Sample ID: D236801

Level (low/med): LOW Date Received: 10/26/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	57.0	U		P
7440-36-0	Antimony	38.0	U		P
7440-38-2	Arsenic	20.4			F
7440-39-3	Barium	215			P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U	V	P
7440-70-2	Calcium	115000			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	6.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	12000			P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	37700			P
7439-96-5	Manganese	916		*	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	26.0	U		P
7440-09-7	Potassium	34400			P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	62800		*	P
7440-28-0	Thallium	5.0	U	W	F
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	5.0	U		P
5955-70-0	Cyanide				NR

466F
170-45

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
SKGW17, DISSOLVED

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SKGW18

Lab Name: NYTEST_ENV_INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix (soil/water): WATER Lab Sample ID: 240602

Level (low/med): LOW Date Received: 10/29/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	57.0	U		P
7440-36-0	Antimony	38.0	U		P
7440-38-2	Arsenic	9.9	B		F
7440-39-3	Barium	176	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U	V	P
7440-70-2	Calcium	182000			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	6.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	1130		E	P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	48600			P
7439-96-5	Manganese	646			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	26.0	U		P
7440-09-7	Potassium	35700			P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	90100		E	P
7440-28-0	Thallium	5.0	U		F
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	7.2	B		P
5955-70-0	Cyanide	10.0	U		AS

GF 1-10-95

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

DKGW18

Lab Name: NYTEST_ENV_INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix (soil/water): WATER Lab Sample ID: D240602

Level (low/med): LOW Date Received: 10/29/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	57.0	U		P
7440-36-0	Antimony	38.0	U		P
7440-38-2	Arsenic	11.1			F
7440-39-3	Barium	176	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U	V	P
7440-70-2	Calcium	185000			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	6.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	160			P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	48600			P
7439-96-5	Manganese	648		*	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	26.0	U		P
7440-09-7	Potassium	37800			P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	89300		*	P
7440-28-0	Thallium	5.0	U		F
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	5.0	U		P
5955-70-0	Cyanide				NR

468
170-95

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
SKGW18, DISSOLVED

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SKGW25

Lab Name: NYTEST_ENV_INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix (soil/water): WATER Lab Sample ID: 239001

Level (low/med): LOW Date Received: 10/28/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1020			P
7440-36-0	Antimony	38.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-39-3	Barium	106	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U	V	P
7440-70-2	Calcium	130000			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	6.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	1710		E	P
7439-92-1	Lead	3.0	U	W	F
7439-95-4	Magnesium	37200			P
7439-96-5	Manganese	200			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	26.0	U		P
7440-09-7	Potassium	5510			P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	45600		E	P
7440-28-0	Thallium	5.0	U		F
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	5.0	U		P
5955-70-0	Cyanide	10.0	U		AS

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN 3/90

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

DKGW25

Lab Name: NYTEST_ENV_INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix (soil/water): WATER Lab Sample ID: D239001

Level (low/med): LOW Date Received: 10/28/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	57.0	U		P
7440-36-0	Antimony	38.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-39-3	Barium	100	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U	V	P
7440-70-2	Calcium	133000			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	6.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	99.2	B		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	38100			P
7439-96-5	Manganese	166		*	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	26.0	U		P
7440-09-7	Potassium	5740			P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	46700		*	P
7440-28-0	Thallium	5.0	U	W	F
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	5.0	U		P
5955-70-0	Cyanide				NR

GLB 1-10-95

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
SKGW25, DISSOLVED

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SKGW26

Lab Name: NYTEST_ENV_INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix (soil/water): WATER Lab Sample ID: 240601

Level (low/med): LOW Date Received: 10/29/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	106	B		P
7440-36-0	Antimony	38.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-39-3	Barium	366			P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	74700			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	6.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	203		E	P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	38300			P
7439-96-5	Manganese	621			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	26.0	U		P
7440-09-7	Potassium	17300			P
7782-49-2	Selenium	5.0	U	W	F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	171000		E	P
7440-28-0	Thallium	5.0	U		F
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	5.0	U		P
5955-70-0	Cyanide	10.0	U		AS

EGF 1-10-95

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

DKGW26

Lab Name: NYTEST_ENV_INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix (soil/water): WATER Lab Sample ID: D240601

Level (low/med): LOW Date Received: 10/29/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	57.0	U		P
7440-36-0	Antimony	38.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-39-3	Barium	331			P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U	V	P
7440-70-2	Calcium	78000			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	6.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	16.0	U		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	40100			P
7439-96-5	Manganese	504		*	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	26.0	U		P
7440-09-7	Potassium	16900			P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	160000		*	P
7440-28-0	Thallium	5.0	U		F
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	5.0	U		P
5955-70-0	Cyanide				NR

KLF 170 95

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
SKGW26, DISSOLVED

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SKGW28

Lab Name: NYTEST_ENV_INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix (soil/water): WATER Lab Sample ID: 238401

Level (low/med): LOW Date Received: 10/27/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	714			P
7440-36-0	Antimony	38.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-39-3	Barium	93.9	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	42500			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	6.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	855		E	P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	18700			P
7439-96-5	Manganese	36.6			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	26.0	U		P
7440-09-7	Potassium	17300			P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	428000		E	P
7440-28-0	Thallium	5.0	U		F
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	5.0	U		P
5955-70-0	Cyanide	10.0	U		AS

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
NA AT A 2X DILUTION.

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

DKGW28

Lab Name: NYTEST_ENV_INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix (soil/water): WATER Lab Sample ID: D238401

Level (low/med): LOW Date Received: 10/27/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	57.0	U	V	P
7440-36-0	Antimony	38.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-39-3	Barium	93.9	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U	V	P
7440-70-2	Calcium	42600			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	6.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	16.0	U	V	P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	19100			P
7439-96-5	Manganese	23.4		*	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	26.0	U		P
7440-09-7	Potassium	17700		V	P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	421000		* V	P
7440-28-0	Thallium	5.0	U		F
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	5.0	U		P
5955-70-0	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
SKGW28, DISSOLVED
NA AT A 2X DILUTION.

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SKGW30

Lab Name: NYTEST_ENV_INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix (soil/water): WATER Lab Sample ID: 238406

Level (low/med): LOW Date Received: 10/27/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	97.0	B		P
7440-36-0	Antimony	38.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-39-3	Barium	332			P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U	V	P
7440-70-2	Calcium	63300			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	6.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	360		E	P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	29200			P
7439-96-5	Manganese	55.5			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	26.0	U		P
7440-09-7	Potassium	11900			P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	136000		E	P
7440-28-0	Thallium	5.0	U		F
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	5.0	U		P
5955-70-0	Cyanide	10.0	U		AS

EGF 1-10-95

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

DKGW30

Lab Name: NYTEST_ENV_INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix (soil/water): WATER Lab Sample ID: D238406

Level (low/med): LOW Date Received: 10/27/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	57.0	U		P
7440-36-0	Antimony	38.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-39-3	Barium	336			P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U	✓	P
7440-70-2	Calcium	63700			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	6.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	437		✓	P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	29400			P
7439-96-5	Manganese	56.5		*	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	26.0	U		P
7440-09-7	Potassium	12500			P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	136000		*	P
7440-28-0	Thallium	5.0	U		F
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	5.0	U		P
5955-70-0	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
SKGW30, DISSOLVED

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SKGW31

Lab Name: NYTEST_ENV_INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix (soil/water): WATER Lab Sample ID: 238405

Level (low/med): LOW Date Received: 10/27/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1540			P
7440-36-0	Antimony	38.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-39-3	Barium	572			P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U	V	P
7440-70-2	Calcium	114000			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	6.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	2810		E	P
7439-92-1	Lead	3.3			F
7439-95-4	Magnesium	43600			P
7439-96-5	Manganese	309			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	26.0	U		P
7440-09-7	Potassium	5940			P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	53100		E	P
7440-28-0	Thallium	5.0	U		F
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	5.0	U		P
5955-70-0	Cyanide	10.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN 3/90

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

DKGW31

Lab Name: NYTEST_ENV_INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix (soil/water): WATER Lab Sample ID: D238405

Level (low/med): LOW Date Received: 10/27/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	57.0	U		P
7440-36-0	Antimony	38.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-39-3	Barium	534			P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U	V	P
7440-70-2	Calcium	106000			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	6.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	100			P
7439-92-1	Lead	3.0	U	W	F
7439-95-4	Magnesium	41500			P
7439-96-5	Manganese	241		*	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	26.0	U		P
7440-09-7	Potassium	5250			P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	50700		*	P
7440-28-0	Thallium	5.0	U		F
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	5.0	U		P
5955-70-0	Cyanide				NR

66F 10-95

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
SKGW31, DISSOLVED

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SKGW38

Lab Name: NYTEST_ENV_INC Contract: 94213775

Lab Code: NYTEST Case No.: 22368 SAS No.: _____ SDG No.: SKIN4

Matrix (soil/water): WATER Lab Sample ID: 236803

Level (low/med): LOW Date Received: 10/26/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	57.0	U		P
7440-36-0	Antimony	38.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-39-3	Barium	771			P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U	V	P
7440-70-2	Calcium	74000			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	6.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	1580		E V	P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	38700			P
7439-96-5	Manganese	66.5		V	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	26.0	U		P
7440-09-7	Potassium	7940			P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	155000		E	P
7440-28-0	Thallium	5.0	U		F
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	5.0	U		P
5955-70-0	Cyanide	10.0	U		AS

EGF 1-10-95

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

DKGW38

Lab Name: NYTEST_ENV_INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix (soil/water): WATER Lab Sample ID: D236803

Level (low/med): LOW Date Received: 10/26/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	57.0	U		P
7440-36-0	Antimony	38.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-39-3	Barium	719			P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U	√	P
7440-70-2	Calcium	77000			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	6.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	1490			P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	39800			P
7439-96-5	Manganese	90.4		*√	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	26.0	U		P
7440-09-7	Potassium	9980			P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	207000		*√	P
7440-28-0	Thallium	5.0	U	W	F
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	5.0	U		P
5955-70-0	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
SKGW38, DISSOLVED

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

DWFD01

Lab Name: NYTEST_ENV_INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix (soil/water): WATER Lab Sample ID: D238402

Level (low/med): LOW Date Received: 10/27/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	57.0	U		P
7440-36-0	Antimony	38.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-39-3	Barium	87.8	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U	✓	P
7440-70-2	Calcium	41300			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	6.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	16.0	U		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	18700			P
7439-96-5	Manganese	28.7		*	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	26.0	U		P
7440-09-7	Potassium	17300			P
7782-49-2	Selenium	5.0	U	W	F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	413000		*	P
7440-28-0	Thallium	5.0	U		F
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	5.0	U		P
5955-70-0	Cyanide				NR

KLB 1-10-95

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
GWFD01, DISSOLVED
NA AT A 2X DILUTION.

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

GWFD01

Lab Name: NYTEST_ENV_INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix (soil/water): WATER Lab Sample ID: 238402

Level (low/med): LOW Date Received: 10/27/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1450		✓	P
7440-36-0	Antimony	38.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-39-3	Barium	95.4	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U	✓	P
7440-70-2	Calcium	42500			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	6.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	1410		E ✓	P
7439-92-1	Lead	3.0			F
7439-95-4	Magnesium	18900			P
7439-96-5	Manganese	45.4			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	26.0	U		P
7440-09-7	Potassium	17300			P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	422000		E	P
7440-28-0	Thallium	5.0	U		F
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	5.0	U		P
5955-70-0	Cyanide	10.0	"		AS

GLF 1-10-95

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
NA AT A 2X DILUTION.

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

DKFD02

Lab Name: NYTEST_ENV_INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix (soil/water): WATER Lab Sample ID: D239004

Level (low/med): LOW Date Received: 10/28/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

GWF 1-10-95

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	57.0	U		P
7440-36-0	Antimony	38.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-39-3	Barium	83.3	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U	√	P
7440-70-2	Calcium	239000			P
7440-47-3	Chromium	5.0	U	√	P
7440-48-4	Cobalt	6.0	U		P
7440-50-8	Copper	5.0	U	√	P
7439-89-6	Iron	28.2	B		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	90800			P
7439-96-5	Manganese	496		*	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	26.0	U		P
7440-09-7	Potassium	52700			P
7782-49-2	Selenium	5.0	U	W	F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	157000		*	P
7440-28-0	Thallium	5.0	U		F
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	5.0	U		P
5955-70-0	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
SKFD02, DISSOLVED

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SKFD02

Lab Name: NYTEST_ENV_INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix (soil/water): WATER Lab Sample ID: 239004

Level (low/med): LOW Date Received: 10/28/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	741			P
7440-36-0	Antimony	38.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-39-3	Barium	110	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U	✓	P
7440-70-2	Calcium	239000			P
7440-47-3	Chromium	5.4	B	✓	P
7440-48-4	Cobalt	6.0	U		P
7440-50-8	Copper	7.8	B	✓	P
7439-89-6	Iron	2140		E	P
7439-92-1	Lead	3.9			F
7439-95-4	Magnesium	89900			P
7439-96-5	Manganese	562			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	26.0	U		P
7440-09-7	Potassium	54100			P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	157000		E	P
7440-28-0	Thallium	5.0	U		F
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	5.0	U		P
5955-70-0	Cyanide	10.0			AS

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

DKGWFB

Lab Name: NYTEST_ENV_INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix (soil/water): WATER Lab Sample ID: D238404

Level (low/med): LOW Date Received: 10/27/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	57.0	U		P
7440-36-0	Antimony	38.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-39-3	Barium	11.0	U		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U	V	P
7440-70-2	Calcium	5780			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	6.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	16.0	U		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	1550	U		P
7439-96-5	Manganese	2.0	U	*	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	26.0	U		P
7440-09-7	Potassium	840	U		P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	2640	B	*	P
7440-28-0	Thallium	5.0	U		F
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	5.0	U		P
5955-70-0	Cyanide				NR

EGF 10-95

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
SKGWFB, DISSOLVED

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

DKFB02

Lab Name: NYTEST_ENV_INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix (soil/water): WATER Lab Sample ID: D239003

Level (low/med): LOW Date Received: 10/28/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	57.0	U		P
7440-36-0	Antimony	38.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-39-3	Barium	11.0	U		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U	V	P
7440-70-2	Calcium	1390	U		P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	6.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	16.0	U		P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	1550	U		P
7439-96-5	Manganese	2.0	U	*	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	26.0	U		P
7440-09-7	Potassium	840	U		P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	808	B	*	P
7440-28-0	Thallium	5.0	U		F
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	5.0	U		P
5955-70-0	Cyanide				NR

GGF 1-10-95

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
SKFB02, DISSOLVED

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SKFB02

Lab Name: NYTEST_ENV_INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix (soil/water): WATER Lab Sample ID: 239003

Level (low/med): LOW Date Received: 10/28/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	57.0	U		P
7440-36-0	Antimony	38.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-39-3	Barium	11.0	U		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U	✓	P
7440-70-2	Calcium	1390	U		P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	6.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	16.0	U	E	P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	1550	U		P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	26.0	U		P
7440-09-7	Potassium	840	U		P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	1050	B	E	P
7440-28-0	Thallium	5.0	U		F
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	5.0	U		P
5955-70-0	Cyanide	10.0	U		AS

GUF 1-10-95

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN 3/90

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SKGWFB

Lab Name: NYTEST_ENV_INC Contract: 9421375

Lab Code: NYTEST Case No.: 22368 SAS No.: SDG No.: SKIN4

Matrix (soil/water): WATER Lab Sample ID: 238404

Level (low/med): LOW Date Received: 10/27/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	57.0	U		P
7440-36-0	Antimony	38.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-39-3	Barium	11.0	U		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U	V	P
7440-70-2	Calcium	5750			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	6.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	16.0	U	E	P
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium	1550	U		P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	26.0	U		P
7440-09-7	Potassium	840	U		P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	2650	B	E	P
7440-28-0	Thallium	5.0	U		F
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	5.0	U		P
5955-70-0	Cyanide	10.0	U		AS

AF 1-10-95

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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