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DATA USABILTY SUMMARY REPORT (DUSR)
OF THE
PORT IVORY SITE

ORGANIC AND INORGANIC ANALYSIS
IN AQUEOUS AND NON-AQUEOUS SAMPLES

COPY

VERITECH LABORATORIES
FAIRFIELD, NEW JERSEY

REPORT NUMBERS:

12041615

August, 2003

Prepared for
The Port Authority of NY & NJ
Jersey City, New Jersey

Prepared by
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NYS DEC Data Usability Summary Report

DATA VALIDATION FOR: Volatile Organic Analyses, Base Neutral Semivolatile Organic Analyses, Pesticide Analyses and PCB Analyses

SITE: HH-Port Ivory Site

CONTRACT LAB: Hampton-Clarke, Inc. Veritech Laboratories
Fairfield, New Jersey

REVIEWER: Renee Cohen

DATE REVIEW COMPLETED: August, 2003

MATRIX: Aqueous and Non-Aqueous

The data validation was performed according to the guidelines in the described in the New York State Department of Environmental Conservation, Division of Environmental Remediation, Guidance for the Development of Data Usability Summary Reports (DUSR). In addition the data was been reviewed using the protocol specified in the NYS Analytical Services Protocol ('95).

All data are considered valid and acceptable except those analytes which have been rejected "R" (unreliable/unusable). Due to various QC problems some analytes may have been qualified with a "J" (estimated), "N" (presumptive evidence for the presence of the material, "U" (non-detect), or "JN" (presumptive evidence for the presence of the material at an estimated value) flag. All actions are detailed on the attached sheets.

Several factors should be noted for all persons using this data. Persons using this data should be aware that no result is guaranteed to be accurate even if it has passed all QC tests. The main purpose of this review is to appropriately qualify outliers and to determine whether the results presented meet the specific site/project criteria for data quality and data use.

This data assessment is for a total of thirty-eight (38) soil and six (6) Field Blank samples that were collected December 1, 2000 and December 2, 2000. All of the samples were shipped to Veritech Laboratories located in Fairfield, New Jersey. The samples were received at the laboratory on December 4, 2000. The samples were analyzed for the parameters marked on the Chain of custody documents that accompanied the samples to the laboratory.

A cross-reference between Field Sample ID and Laboratory Sample ID is located in Table 1 of this report. A list of definitions that may be used in this report is located in Appendix A. Copies of qualified data result pages are located in Appendix B of this report and a copy of Chain of Custody (COC) documentation associated with sampling event is located in Appendix C.

DATA USABILITY SUMMARY REPORT (DUSR) HH-Port Ivory Site

1. OVERVIEW:

The samples were submitted to the laboratory for the analyses requested on the Chain of Custody (COC) documentation. The samples were analyzed for the organic analytes using EPA Test Methods for the Evaluation of Solid Waste (SW 846), Method 8260/8270/8081/8082. Proper custody transfer of the samples was documented in the laboratory report. The laboratory provided a deliverables package similar to that of a New Jersey Reduced Deliverable for Non-CLP parameters.

Samples Collected 12/1/00 and 12/2/00, Received 12/4/00 – Thirty-eight (38) soil and six (6) Field Blank samples were collected on December 1, 2000 and December 2, 2000 and delivered to the Veritech Laboratories in Fairfield, NJ on December 4, 2000. The samples were reported in laboratory report 12041615. The samples were analyzed for the parameters listed on the COC documents. New Jersey Reduced Deliverables were requested on the COC documents.

2. HOLDING TIME:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Preserved volatile organic analyses are required to be analyzed within 10 days of validated time of sample receipt (VTSR) in accordance with the NYSDEC ASP, Rev '95. The technical holding time for properly preserved aqueous and non-aqueous samples is 14 days from collection. Base Neutral Semivolatile Organic Analyses are to be prepared/extracted within five (5) days of validated time of sample receipt (VTSR) in accordance with the NYSDEC ASP, Rev '95. The technical holding time for properly samples is to prepare the aqueous samples within 7 days of collection and the soil samples within fourteen days of collection.

Volatile Organic Analyses

Samples Received 12/4/00 - All of the field samples and QC samples associated with this data set were analyzed within the ten (10) days of VTSR.

Base Neutral Semivolatile Organic Analyses

Samples Received 12/4/00 – The soil samples in this data set were collected on Dec 1, 2000 and December 2, 2000 and received December 4, 2000. Three (3) extraction batches are associated with this data set. Most of the samples were extracted in one (1) batch on December 8, 2000. The remainder of the soil samples were extracted on December 9, 2000. Samples PG-L-01-120100S002 and PG-H/R-01-120200S002 were extracted December 11, 2000. These samples were designated with the suffix (R), however this (R) was not defined in the data report. It is assumed that these samples were re-extracted beyond the method holding time due to QC outliers in the initial extraction/analysis. The initial data was not provided for review in the report. The data results associated with these samples have been qualified "UJ/J" estimated based on the holding time accedences.

Qualified data result pages are located in Appendix B of this report.

DATA USABILITY SUMMARY REPORT (DUSR) HH-Port Ivory Site

2. HOLDING TIME (cont'd)

Pesticide Analyses

Samples Received 12/4/00 – The aqueous samples in this data set were collected on November 21, 2000 and received November 22, 2000. The samples were extracted on November 30, 2000. This is three (3) days beyond the NYS DEC ASP holding time for extraction. The samples were prepared within the method holding time, therefore, no action was taken based on this outlier.

Polychlorinated Biphenyl's (PCB's) Analyses

Samples Received 12/4/00 – The aqueous samples in this data set were collected on November 21, 2000 and received November 22, 2000. The samples were extracted on November 30, 2000. This is three (3) days beyond the NYS DEC ASP holding time for extraction. The samples were prepared within the method holding time, therefore, no action was taken based on this outlier.

3. SURROGATES:

All samples are spiked with surrogate compounds prior to sample preparation to evaluate the overall laboratory performance and the efficiency of the analytical technique. If the measured surrogate concentrations are outside the QC limits, qualifiers were applied to the effected samples.

Volatile Organic Analyses

Samples Received 12/4/00 – Surrogate recovery limits were not cited on the final data result pages or in the data report. Surrogate recoveries were reported on the quantitation reports for each sample. The surrogate recoveries were reviewed, however no limits were cited for comparison. The case narrative in the data report noted that the surrogate recoveries exceeded QC criteria in samples PG-D-01-120100S004 and PG-FB-2-120100WQ01. Based on these comments the target analytes associated with these samples have been qualified "UJ/J" estimated.

Qualified data result pages are located in Appendix B of this report.

Base Neutral Semivolatile Organic Analyses

Samples Received 12/4/00 – Surrogate recovery limits were not cited on the data result pages or in the data report. Surrogate recoveries were reported on the quantitation reports for each sample. The surrogate recoveries were reviewed, however no limits were cited for comparison. The case narrative noted that the surrogate recoveries in sample PG-D-01-120100S001 exceeded in the initial analysis of this sample. The sample was reanalyzed and reported from a 1:5 dilution. The case narrative did not note that the surrogates exceeded QC criteria in the dilution analysis that was reported in the data package.

Pesticide Analyses – Each sample was spiked with the surrogate compounds TCMX and DCB. Surrogate recovery in Pesticides is advisory, therefore, no action was taken based on surrogate recovery.

Samples Received 12/4/00 – Surrogate recovery limits were not cited on the data result pages or in the data report. Surrogate recoveries were reported on the quantitation reports for each sample. The surrogate recoveries were reviewed, however no limits were cited for comparison.

DATA USABILITY SUMMARY REPORT (DUSR)
HH-Port Ivory Site

3. SURROGATES (cont'd):

PCB Analyses - - Each sample was spiked with the surrogate compounds TCMX and DCB. Surrogate recoveries were not summarized in the data report. Surrogate recovery in Pesticides is advisory, therefore, no action was taken based on surrogate recovery.

Samples Received 12/4/00 - Surrogate recovery limits were not cited on the data result pages or in the data report. Surrogate recoveries were reported on the quantitation reports for each sample. The surrogate recoveries were reviewed, however no limits were cited for comparison.

4. MATRIX SPIKE/SPIKE DUPLICATE, MS/MSD:

The MS/MSD data are generated to determine the long term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data. The laboratory used the in-house generated recovery criteria and RPD (precision) data for reporting purposes.

Volatile Organic Analyses

Samples Received December 4, 2000 - Matrix spike/spike duplicate data was not summarized in this data report.

Base Neutral Semivolatile Organic Analyses

Samples Received December 4, 2000 - Matrix spike/spike duplicate data was not summarized in this data report.

Pesticide Analyses

Samples Received December 4, 2000 - Matrix spike/spike duplicate data was not summarized in this data report.

Polychlorinated Biphenyl Analyses

Samples Received December 4, 2000 - Matrix spike/spike duplicate data was not summarized in this data report.

DATA USABILITY SUMMARY REPORT (DUSR)
HH-Port Ivory Site

5. BLANK SPIKE ANALYSIS:

The NY ASP protocol requires that a blank spike analysis be performed with each sample batch. The blank spike analysis is used to insure that the analytical system is in control. The laboratory applied in-house recovery limits for each analyte.

Volatile Organic Analytes

Samples Received December 4, 2000 – Blank Spike data was not summarized in this data report.

Base Neutral Semivolatile Organic Analytes

Samples Received December 4, 2000 – Blank spike data was not summarized in this data report.

Pesticide Analyses

Samples Received December 4, 2000 – Blank spike data was not summarized in this data report.

Polychlorinated Biphenyl Analyses

Samples Received December 4, 2000 – Blank spike data was not summarized in this data report.

**DATA USABILITY SUMMARY REPORT (DUSR)
HH-Port Ivory Site**

6. BLANK CONTAMINATION:

Quality assurance (QA) blanks, such as the method, trip, field, or rinse blanks are prepared to identify any contamination that may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field blanks measure cross-contamination of samples during field operations. Samples are then qualified based on blank contamination when detected.

A) Method Blank contamination

Volatile Organic Analyses

Samples Received December 4, 2000 – Two (2) aqueous and five (5) soil method blanks are associated with this data set. The aqueous method blanks were free from contamination of all target analytes. The soil method blanks all contained low levels of Methylene Chloride (0.0011 J mg/kg through 0.0048 J mg/kg). Below is a summary of the method blank and associated contamination level:

<u>Method Blank ID</u>	<u>Analyte Conc. (mg/kg)</u>	<u>Total TIC Conc. (mg/kg)</u>
	Methylene Chloride	
FT4709	0.0026 J	0.048
FT4740	0.0019 J	0.039
FT4754	0.0048 J	0.027
FT4781	0.0011 J	0.070
FT4811	0.0013 J	0.043

When the target analyte, Methylene Chloride and the unknown TIC analytes were detected in associated field samples, they have been negated in accordance with the validation guidelines. Methylene Chloride was detected and negated in all of the soil samples in the sample set.

Qualified data result pages are located in Appendix B of this report.

DATA USABILITY SUMMARY REPORT (DUSR)
HH-Port Ivory Site

6. BLANK CONTAMINATION (cont'd)

Base Neutral Semivolatile Organic Analyses

Samples Received December 4, 2000 – Based on the data provided for review, three (3) soil method blanks are associated with this data set. The first extraction batch was prepared on December 8, 2000. This soil blank was analyzed on the two instruments that the sample extracts were analyzed on. The method blank analyzed 12/8/00 and analyzed on Instrument “S” contained Bis 2-ethylhexylphthalate (0.055 J mg/kg). This method blank was analyzed on 12/10/00 on Instrument “U”. It contained both Bis 2-ethylhexylphthalate (0.071 J mg/kg) and Di-n-octylphthalate (0.043 J mg/kg).

The laboratory did not apply the “B” qualifier to the samples analyzed on Instrument “U” for the contaminant Di-n-octylphthalate and the associated TIC analytes. Based on the data provided in this report, this data validator has negated the analyte Di-n-octylphthalate and the associated TIC analytes in these samples. This effected the following samples:

PG-G-060120100S003
PG-G-06-120100S004
PG-G-5A-120100S003
PG-FS-7-120100S002
PG-D-01-120100S004
PG-D-01-120100S010
PG-D-03-120100S001
PG-RR-08-120100S002
PG-RR-08-120100S004
PG-UST2-3-120100S007
PG-FILL10-120100S004
PG-FILL25-120100S001
PG-FILL25-120100S003
PG-FILL25-120100S006

An additional extraction batch was prepared on December 9, 2000. This method blank was analyzed on 12/11/00 on Instrument “S”. It contained Bis 2-ethylhexylphthalate (0.066 J mg/kg), Di-n-octylphthalate (0.048 J mg/kg) and Di-n-butylphthalate (0.050 J mg/kg).

The final extraction batch was prepared on December 11, 2000. This method blank was analyzed on 12/11/00 on Instrument “U”. It contained Bis 2-ethylhexylphthalate (0.066 J mg/kg), Di-n-octylphthalate (0.059 J mg/kg) and Di-n-butylphthalate (0.059 J mg/kg).

Each of these contaminants/analytes are common laboratory contaminants. When these analytes were detected in associated field samples, they have been negated in accordance with the validation guidelines. All of the soil samples in this data set have been qualified for laboratory contamination.

Qualified data result pages are located in Appendix B of this report.

DATA USABILITY SUMMARY REPORT (DUSR)
HH-Port Ivory Site

6. BLANK CONTAMINATION (cont'd)

Pesticide Analyses

Samples Received December 4, 2000 – The method blank associated with this data set was free from contamination of target analytes.

Polychlorinated Biphenyl Analyses

Samples Received December 4, 2000 – The method blank associated with this data set was free from contamination of target analytes.

B) Field Blank contamination

Volatile Organic Analyses

Sample Received 12/4/00 – Six (6) Field Blank samples are associated with this data set. All were free from contamination of target analytes with the exception of sample PG-FB-1-120200WQ0. This Field Blank contained Methylene Chloride at a concentration of 1.2 J ug/l. When detected in the samples associated with the 12/2/00 sampling event this analyte has been negated and qualified as required in the validation guidelines.

Base Neutral Semivolatile Organic Analyses

Sample Received December 4, 2000 – The Field Blank samples were not analyzed for this parameter.

Pesticide Analyses

Sample Received December 4, 2000 – The Field Blank samples were not analyzed for this parameter.

Polychlorinated Biphenyl Analyses

Sample Received December 4, 2000 – The Field Blank samples were not analyzed for this parameter.

C) Trip Blank contamination

Volatile Organic Analyses

Sample Received December 4, 2000 – A Trip Blank was not submitted with this data set.

DATA USABILITY SUMMARY REPORT (DUSR) HH-Port Ivory Site

7. GC/MS CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument is giving satisfactory daily performance. USEPA data validation criteria is the same for all analytes in both GC/MS Volatile and GC/MS Semivolatile Organic analyses, therefore, all text discussion is for VOA and SVOA samples analyses.

A) RESPONSE FACTOR

The response factor measures the instrument's response to specific chemical compounds. USEPA data review requires that the response factor of all analytes be greater than or equal to 0.05 in both initial and continuing calibration analyses. A value less than 0.05 indicates a serious detection and quantitation problem (poor sensitivity). USEPA data validation criteria states that if the minimum RRF criteria is not met in an initial calibration the positive results are qualified "J". Non detect results in the initial calibration with a RRF <0.05 are qualified "R", unusable. If RRF criteria is not met in the continuing calibration curve analysis, effected positive analytes will be qualified "J" estimated. Those analytes not detected are not qualified. The SW-846 Methods cite specific analytes known as System Performance Check Compounds (SPCC). Minimum response criteria is set for these analytes. If the minimum criteria is not met, analyses must stop and the source of problems must be found and corrected. Data associated with this set has been reviewed for the criteria in the cited in the EPA Method and the USEPA criteria.

Volatile Organic Analyses

Samples Received December 4, 2000 – Initial and Continuing calibration data was not submitted with this sample set. Data was not reviewed/qualified based on calibration data.

Samples Received November 30, 2000 – Initial and Continuing calibration data was not submitted with this sample set. Data was not reviewed/qualified based on calibration data.

Base Neutral Semivolatile Organic Analyses

Samples Received December 4, 2000 – Initial and Continuing calibration data was not submitted with this sample set. Data was not reviewed/qualified based on calibration data.

DATA USABILITY SUMMARY REPORT (DUSR)
HH-Port Ivory Site

7. GC/MS CALIBRATION (cont'd)

B) PERCENT RELATIVE STANDARD DEVIATION (RSD) AND PERCENT DIFFERENCE (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent D compares the response factor of the compounds in the continuing calibration standard to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Region II data validation criteria states that the percent RSD of the initial calibration curve must be less than or equal to 30%. The %D must be <25% in the continuing calibration standard. This criteria has been applied to all target analytes. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects may be flagged "UJ", based on professional judgement. If %RSD and %D grossly exceed QC criteria (>90%), non-detects data may be qualified "R", unuseable. Data associated with this set has been reviewed for the criteria in the cited in the USEPA Data Validation Guidelines.

Volatile Organic Analyses

Samples Received December 4, 2000 – Initial and Continuing calibration data was not submitted with this sample set. Data was not reviewed/qualified based on calibration data.

Base Neutral Semivolatile Organic Analyses –

Samples Received December 4, 2000 – Initial and Continuing calibration data was not submitted with this sample set. Data was not reviewed/qualified based on calibration data.

8. GC/MS MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds, and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is Bromofluorobenzene (BFB). The tuning compound for semivolatile organic analyses is decafluorotriphenylphosphine (DFTPP). If the mass calibration is in error, or missing, all associated data will be classified as unusable, "R".

Volatile Organic Analyses/Base Neutral Semivolatile Organic Analyses

Samples Received December 4, 2000 – BFB and DFTPP Tune criteria was not submitted with this sample set. Data was not reviewed/qualified based on Tune data.

DATA USABILITY SUMMARY REPORT (DUSR)
HH-Port Ivory Site

9. GC/MS INTERNAL STANDARDS PERFORMANCE:

Internal standard (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every run. The method recommends that the internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The method recommends that the retention time of the internal standard must not vary more than ± 30 seconds from the associated continuing calibration standard. The EPA CLP validation guidelines state that if the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified estimated, "J", and all non-detects below 50% are qualified "UJ", non detects above 100% should not be qualified or "R" if there is a severe loss of sensitivity. The internal standard evaluation criteria is applied to all field and QC samples.

Volatile Organic Analyses

Samples Received December 4, 2000 – Internal Standard area counts and retention time data was not submitted with this sample set. Data was not reviewed/qualified based on this data.

Base Neutral Semivolatile Organic Analyses

Samples Received December 4, 2000 – Internal Standard area counts and retention time data was not submitted with this sample set. Data was not reviewed/qualified based on this data. Internal Standard area counts and Retention Time Windows were reported on the quantitation reports for each sample. The case narrative in the data report noted that the Internal Standard area counts exceeded QC criteria in samples PG-G-06-120100S003, PG-D-01-120100S001, PG-UST2-3-120100S05B and PG-D-04-120200S001. The samples were reanalyzed and the QC criteria were exceeded in the reanalysis as stated in the case narrative associated with this data report. The laboratory did not summarize which Internal Standards exceeded QC criteria as required by the deliverable. Based on the information provided for review, this validator was not able to add data qualifiers to the associated target analytes or discuss bias based on the area counts reported.

DATA USABILITY SUMMARY REPORT (DUSR)
HH-Port Ivory Site

10. COMPOUND IDENTIFICATION:

Target compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within ± 0.06 RRT units of the standard compound, and have an ion spectra which has a ratio of the primary and secondary ion intensities with 20% of that in the standard compound.

Target compounds are identified on the GC by using the analytes retention time. Concentration is quantitated from the initial calibration curve.

Volatiles Organic Analyses

Samples Received December 4, 2000 – Samples were analyzed via EPA Method 8260. Tentatively Identified Compounds (TIC's) were reported with this data set. The laboratory did not provide analyte spectra or TIC scans for review with this data report. All sample results were reported to the MDL/ PQL when dilution was not performed. Sample results were reported on a dry weight basis. Data was reported in accordance with the cited method.

Sample PG-D-01-120100S004 was analyzed at a five (5) time dilution due to the matrix interference exhibited in the sample chromatogram as well late eluting TIC analytes reported on the laboratory Form I's.

Sample PG-UST2-3-120100S05B was analyzed at a five (5) time dilution due to the matrix interference exhibited in the sample chromatogram as well late eluting TIC analytes reported on the laboratory Form I's.

Sample PG-UST2-3-120100S007 was analyzed without dilution, however matrix interference was exhibited in the sample chromatogram.

Sample PG-RR10-120200S005 was analyzed without dilution, however matrix interference was exhibited in the sample chromatogram.

DATA USABILITY SUMMARY REPORT (DUSR) HH-Port Ivory Site

10. COMPOUND IDENTIFICATION (cont'd):

Base Neutral Semivolatile Organic Analyses

Samples Received December 4, 2000 – Samples were analyzed via EPA Method 8270. Tentatively Identified Compounds (TIC's) were reported with this data set. The laboratory did not provide analyte spectra or TIC scans for review with this data report. All sample results were reported to the MDL/ PQL when dilution was not performed. Soil samples were reported on a dry weight basis. Data was reported in accordance with the cited method.

A number of the samples exhibited matrix interference in the sample chromatogram. Additional cleanup procedures or extract dilution may have reduced the matrix interference. This may have lead to the detection of additional target analytes in the effected samples.

Sample PG-G-06-120100S003 was analyzed at a two (2) time dilution due to the presence of matrix interference exhibited in the sample chromatogram. Both target and non-target analytes were reported. The case narrative indicated that the sample was reanalyzed, however only the final 1:2 dilution data was provided in the report.

Sample PG-FS-7-120100S002 was analyzed without dilution, however, matrix interference was exhibited in the sample chromatogram. Both target and non-target analytes were reported.

Sample PG-D-01-120100S001 was analyzed at a five (5) time dilution due to the presence of matrix interference exhibited in the sample chromatogram. Both target and non-target analytes were reported. The case narrative indicated that the sample was reanalyzed, however only the final 1:5 dilution data was provided in the report.

Sample PG-D-01-120100S004 was analyzed without dilution, however, matrix interference was exhibited in the sample chromatogram. Both target and non-target analytes were reported.

Sample PG-UST2-3-120100S05B was analyzed at a five (5) time dilution due to the presence of matrix interference exhibited in the sample chromatogram. Both target and non-target analytes were reported. The case narrative indicated that the sample was reanalyzed, however only the final 1:5 dilution data was provided in the report.

Sample PG-UST2-3-120100S007 was analyzed without dilution, however, matrix interference was exhibited in the sample chromatogram. Both target and non-target analytes were reported.

Sample PG-FILL25-120100S003 was analyzed without dilution, however, matrix interference was exhibited in the sample chromatogram. Both target and non-target analytes were reported.

Sample PG-FILL25-120100S005 was analyzed without dilution, however, matrix interference was exhibited in the sample chromatogram. Both target and non-target analytes were reported.

Sample PG-RR10-120200S005 was analyzed at a five (5) time dilution due to the presence of matrix interference exhibited in the sample chromatogram. Both target and non-target analytes were reported.

Sample PG-FILL08-120200S001 was analyzed without dilution, however, matrix interference was exhibited in the sample chromatogram. Both target and non-target analytes were reported.

Sample PG-D-04-120200S001 was analyzed without dilution. The case narrative indicated that the sample was reanalyzed, however final data was provided in the report.

DATA USABILITY SUMMARY REPORT (DUSR)
HH-Port Ivory Site

10. COMPOUND IDENTIFICATION (cont'd)

Pesticide Analyses

Samples Received December 4, 2000 – The soil samples were analyzed via EPA Method 8081. Samples were analyzed on dual columns (DB1701/DB608). All sample extracts were analyzed and confirmed via single injection. All sample results were reported to the MDL/ PQL. Soil sample data results were reported on a dry weight basis. Data was reported in accordance with the cited method.

A number of the samples exhibited matrix interference in the sample chromatogram. Additional cleanup procedures or extract dilution may have reduced the matrix interference. This may have lead to the detection of additional target analytes in the effected samples.

The following samples were analyzed at 1:5 dilution due to the matrix interference exhibited in the sample chromatogram. All target analytes in these samples were reported Not Detected:

PG-G-06-120100S003
PG-FS-7-120100S002
PG-D-01-120100S001
PG-D-01-120100S004

Sample PG-D-03-120100S001 was analyzed at 1:5 dilution due to the matrix interference exhibited in the sample chromatogram. 4,4'-DDE was detected at a concentration of 0.047 mg/kg.

Samples PG-UST2-3-120100S05B was analyzed at 1:10 dilution due to the matrix interference exhibited in the sample chromatogram. All target analytes in these samples were reported Not Detected.

Sample PG-FILL10-120100S004 was analyzed at 1:10 dilution due to the matrix interference exhibited in the sample chromatogram. 4,4'-DDE (0.024 mg/kg) and 4,4"-DDD (0.092 mg/kg) were detected in this sample extract.

Polychlorinated Biphenyl Analyses

Samples Received December 4, 2000 – The soil samples were analyzed via EPA Method 8082. Samples were analyzed on dual columns (DB1701/DB608). All sample extracts were analyzed and confirmed via single injection. All sample results were reported to the MDL/ PQL. Soil sample data results were reported on a dry weight basis. Data was reported in accordance with the cited method.

A number of the samples exhibited matrix interference in the sample chromatogram. Additional cleanup procedures or extract dilution may have reduced the matrix interference. This may have lead to the detection of additional target analytes in the effected samples. When PCB's were detected in the samples associated with this data set, Aroclor 1260 was reported.

DATA USABILITY SUMMARY REPORT (DUSR) HH-Port Ivory Site

12 OVERALL ASSESSMENT:

It was not possible to determine if all analytical QC criteria were met for these analyses. The data reported did not comply with the deliverable requirements of a NJ Reduced Deliverable. The laboratory did not provide a complete data package. When applicable missing information was noted and discussed in the above text.

All data was reported to the laboratory MDL/PQL on the result page. Soil sample results are reported on a dry weight basis. A number of the samples exhibited matrix interference in the sample chromatogram. Additional cleanup procedures or extract dilution may have reduced the matrix interference. This may have led to the detection of additional target analytes in the effected samples.

All of the soil Volatile Organic method blank samples contained common laboratory contaminants. These contaminants have been negated in the associated field samples. All of the soil Semivolatile Organic method blank samples contained common laboratory contaminants. These contaminants have been negated in the associated field samples. All qualified data result pages are located in Appendix B of this report.

The laboratory case narrative noted that the Volatile Organic surrogate recoveries exceeded QC criteria in both the initial and reanalysis of samples PG-D-01-120100S004 and PG-FB-2-120100WQ01. All target analytes in these samples have been qualified "UJ/J" estimated. Qualified data result pages are located in Appendix B of this report.

Samples PG-L-01-120100S002 and PG-H/R-01-120200S002 were reported from a Semivolatile Organic extraction batch that was prepared beyond the method holding time. Initial data was not provided in the report for review. Based on the holding time, the target analytes in each of these samples have been qualified "UJ" estimated. Qualified data result pages are located in Appendix B of this report.

The data provided for this data set is acceptable for use, with the noted data qualifiers.

NYS DEC Data Usability Summary Report

DATA VALIDATION FOR: Total Metals, Miscellaneous Wet Chemistry

SITE: HH Port Ivory

CONTRACT LAB: Veritech Laboratories
Fairfield, New Jersey

REVIEWER: Renee Cohen

DATE REVIEW COMPLETED: September, 2003

MATRIX: Aqueous and Non-Aqueous

This data assessment is for thirty-eight (38) soil and six (6) Field Blank samples collected December 1, 2000 and December 2, 2000 and delivered to Veritech Laboratories located in Fairfield, NJ. The samples were received at the laboratory on December 4, 2000. TAL Metal and Miscellaneous Wet Chemistry analytes were performed on the soil samples in this data set.

The data evaluation was performed according to the guidelines noted in the "National Functional Guidelines for Inorganic Data Review, February 1994 and the NYSDEC ASP. A Data Usability Summary Report (DUSR) has been prepared in accordance with the guidelines of the Division of Environmental Remediation.

Several factors should be noted for all persons using this data. Persons using this data should be aware that no result is guaranteed to be accurate even if it has passed all QC tests. The main purpose of this review is to appropriately qualify outliers and to determine whether the results presented meet the specific site/project criteria for data quality and data use.

Table 1 of this report contains a cross reference between the Field Sample ID's and the Laboratory Sample ID's.

The samples were also analyzed for a number of organic parameters. The data review associated with the organic analytes is located in the Organic Data Usability Report (DUSR). Appendix A of this Data Usability Summary Report (DUSR) contains a summary of the data qualifiers that may be used in the report. Appendix B contains the qualified data result pages. Appendix C contains the Chain of Custody (COC) documents associated with this data set.

DATA USABILITY SUMMARY REPORT (DUSR) PORT IVORY SITE

1. OVERVIEW

Thirty-eight (38) soil samples were collected on December 1, 2000 and December 2, 2000 and delivered to the Veritech Laboratories in Fairfield, NJ. The samples were reported in laboratory report 12041615. The samples were analyzed for the parameters listed on the COC documents. New Jersey Reduced Deliverables were requested on the COC documents. The laboratory did not provide a complete NJ Reduced Deliverable package for the TAL Metals data set. Data review was performed using the data provided in the report.

2. HOLDING TIME

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Metals with the exception of Mercury, is required to be digested and analyzed within 180 days of Verified Time of Sample Receipt (VTSR). Mercury samples are to be digested and analyzed within 26 days of VTSR. The miscellaneous wet chemistry analytes have specific holding times cited in the approved method.

Samples Received 12/4/00 - Sample preparation data was not provided in the data report. The laboratory chronicles listed both the preparation date and analysis dates for the TAL Metals and Miscellaneous Wet Chemistry analyses. Based on the data provided, all samples were prepared and analyzed for the inorganic analytes within the method holding time.

3. CALIBRATION ANALYSIS

Inductively Coupled Plasma (ICP) was utilized for these analyses. The ICP was calibrated using the calibration standards required by the manufacturer. An initial calibration verification (ICV) standard is then analyzed to verify instrument calibration.

The laboratory did not provide calibration data for this data set.

4. ICP CRDL STANDARD

The CRDL standard is used for the verification of instrument linearity near the CRDL. The CRDL standard control limits are 80%-120% recovery. If the CRDL standard falls outside of the control limits, associated data less than or equal to the 10X the CRDL are qualified estimated (J or UJ) or rejected (R) depending on the recovery of the CRDL standard and the concentration of the analyte in the sample. When the CRDL standard exceeds the control limit, indicating a high bias samples are qualified estimated (J or UJ).

The laboratory did not provide CRDL standard data for this data set.

DATA USABILITY SUMMARY REPORT (DUSR) PORT IVORY SITE

5. ICP INTERFERENCE CHECK STANDARD

The Interference Check Standard (ICS) is used to verify the laboratory interelement and background correction factors of the ICP. Two solutions comprise the ICS A and ICS AB. Solution A consists of the interferent metals while solution AB is the group of target analytes and the interferent metals. An ICS analysis consists of analyzing both solutions consecutively for all wavelengths used for each analyte reported by ICP.

The laboratory did not provide ICSA and ICSAB data for this data set.

6. MATRIX SPIKE (MS) ANALYSIS

The spike sample analysis provides information about the effect of the sample matrix upon the digestion and measurement methodology. The spike control limits are 75%-125% when the sample concentration is less than four (4) times the spike added. If the matrix spike recoveries fall in the range of 30%-74%, the sample results are may be biased low and are qualified as estimated (J or UJ). If the matrix spike recoveries fall in the range of 126%-200%, sample results may be biased high. Positive results are qualified estimated (J). If the spike recovery is greater than 125% and the reported sample results are less than the IDL the data point is acceptable for use. If the matrix spike recovery is greater than 200%, the associated sample data are unusable and are rejected (R). If matrix spike results are less than 30%, the associated non-detect results are qualified unusable and rejected (R), and the results reported above the IDL are qualified estimated (J).

The laboratory did not provide Matrix Spike data to review for this data set.

7. POST DIGESTION SPIKE ANALYSIS

The post digestion spike sample analysis provides additional information about the effect of the sample matrix upon the digestion and measurement methodology. The post digestion spike is performed for each analyte that the pre-digestion spike recovery falls outside the 75-125% control limit.

The laboratory did not provide Post Digestion Spike data to review for this data set.

8. DUPLICATE SAMPLE ANALYSIS

The laboratory duplicate sample analysis is used to evaluate the laboratory precision of the method for each analyte. If the duplicate sample analysis results for a particular analyte fall outside the control windows of 20% RPD or +/- CRDL, whichever is appropriate depending upon the concentration of the sample, the associated sample results are qualified "J" estimated.

The laboratory did not provide Duplicate sample data to review for this data set.

DATA USABILITY SUMMARY REPORT (DUSR) PORT IVORY SITE

9. ICP SERIAL DILUTION

The serial dilution analysis indicates whether significant physical or chemical interference's exist due to the sample matrix. If the concentration of any analyte in the original sample is greater than 50 times the instrument detection limit (IDL), an analysis of a 5-fold dilution samples must yield results which have a percent difference (%D) of less than or equal to 10 with the original sample results. If the %D of the serial dilution exceeds the 10% (and is not greater than 100%) for a particular analyte, all the associated sample results are qualified estimated (J).

The laboratory did not provide ICP Serial Dilution data to review for this data set.

10. BLANKS

Blank analyses are assessed to determine the existence and magnitude of contamination problems. The criteria for the evaluation of blanks applies to all blanks, including but not limited to reagent blanks, method blanks and field blanks. The responsibility for action in the case of an unsuitable blank result depends upon the circumstances and the origin of the blank itself. If the problem with any blank exists, then all associated data must be carefully evaluated to determine whether there is inherent variability in the data for that case, or the problem is an isolated occurrence not affecting other data.

Samples Received 12/4/00 – The laboratory provided method blank summary data with the data set. The summary forms indicate that all preparation blanks, ICB and CCB data associated with the TAL Metals met QC criteria. Raw data was not provided for review.

The Method Blank data results associated with the Wet Chemistry analytes were summarized in the data report. All Wet Chemistry analyte method blanks were free from contamination.

The Field Blank Samples were not analyzed for TAL Metals or the Wet Chemistry analytes.

11. LABORATORY CONTROL SAMPLE ANALYSIS (LCS)

The laboratory control sample (LCS) analysis provides information about the efficiency of the laboratory digestion procedure. If the recovery of any analyte is outside the established control limits, then laboratory performance and method accuracy are in question. Professional judgment is used to determine of data should be qualified or rejected.

The laboratory did not provide LCS data to review for this data set.

12. INSTRUMENT QC DATA

The laboratory did not provide Instrument QC Data to review for this data set.

DATA USABILITY SUMMARY REPORT (DUSR) PORT IVORY SITE

13. COMPOUND IDENTIFICATION

Samples Received 12/4/00 - The samples in this data set were analyzed for TAL Metals. Sample results were summarized on the Report of Analysis pages. Raw data was not provided for review with this data set. The samples were analyzed for Miscellaneous Wet Chemistry analytes. Sample results were summarized on the Report of Analysis pages. Raw data was not provided for review.

14. SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

This data set included the reporting of thirty-eight (38) soil samples. The samples were analyzed for the TAL metals and Wet Chemistry analytes as noted on the COC documents that accompanied the data set.

Based on the limited data provided for review, the data results associated with this sampling event are valid and acceptable for use without data qualification.

Premier Environmental Services.

TABLE 1

Premier Environmental Services.

CLIENT SAMPLE ID

LABORATORY SAMPLE ID

PG-G-05-120100S003	AB20277
PG-G-06-120100S003	AB20278
PG-G-06-120100S004	AB20279
PG-G-5A-120100S003	AB20280
PG-FS-7-120100S002	AB20281
PG-FS-7-120100S005	AB20282
PG-D-01-120100S001	AB20283
PG-D-01-120100S004	AB20284
PG-D-01-120100S010	AB20285
PG-D-03-120100S001	AB20286
PG-RR-08-120100S002	AB20287
PG-RR-08-120100S004	AB20288
PG-UST2-3120100S002	AB20289
PG-UST2-3120100S05B	AB20290
PG-UST2-3120100S007	AB20291
PG-FILL10-120100S02B	AB20292
PG-FILL10-120100S004	AB20293
PG-FILL25-120100S001	AB20294
PG-FILL25-120100S003	AB20295
PG-FILL25-120100S005	AB20296
PG-L-01-120100S002	AB20297
PG-L-01-120100S004	AB20298
PG-FB-1-120100WQ01	AB20299
PG-FB-2-120100WQ01	AB20300
PG-FB-3-120100WQ01	AB20301
PG-FB-1-120200WQ01	AB20302
PG-FB-2-120200WQ01	AB20303
PG-FB-3-120200WQ01	AB20304
PG-PD-5-120200S001	AB20305
PG-PD-5-120200S002	AB20306
PG-PD-4-120200S005	AB20307
PG-A-01-120200S002	AB20308
PG-L-04-120200S001	AB20309
PG-L-04-120200S004	AB20310
PG-L-05-120200S002	AB20311
PG-L-05-120200S005	AB20312
PG-D-04-120200S001	AB20313
PG-D-4A-120200S005	AB20314
PG-RR-10-120200S002	AB20315
PG-RR-10-120200S005	AB20316
PG-FILL08-120200S001	AB20317
PG-FILL08-120200S004	AB20318
PG-H/R-01-120200S001	AB20319
PG-H/R-01-120200S002	AB20320

Premier Environmental Services.

APPENDIX A

Premier Environmental Services.

DATA QUALIFIER DEFINITIONS

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - The sample results are unreliable/unuseable. The presence or absence of the analyte cannot be verified.

K - The analyte is present. The reported value may be biased high. The actual value is expected to be lower than reported.

L - The analyte is present. The reported value may be biased low. The actual value is expected to be higher than reported.

UL - The analyte was not detected, and the reported quantitation limit is probably higher than reported.

Premier Environmental Services.

APPENDIX B

Form 1
ORGANICS VOLATILE REPORT

Sample Number: AB20277

Matrix: Soil

Client Id: PG-G-05-120100SO03

Initial Volume: 5g

Data File: FT4718

Final Volume: NA

Date Analyzed: 6 Dec 2000 22:59

Dilution Factor: 1

Date Received/Extracted: 12/4/00-NA

Percent Solids: 81

Column: Supelco 105 m volcol col., 5 mm id, 3.0 um film

CAS #	Compound	PQLMDL	Concentration (Units: mg/Kg)
71556	1,1,1-Trichloroethane	0.0062	U
79345	1,1,2,2-Tetrachloroethane	0.0062	U
79005	1,1,2-Trichloroethane	0.0062	U
75343	1,1-Dichloroethane	0.0062	U
75354	1,1-Dichloroethane	0.0062	U
107062	1,2-Dichloroethane	0.0062	U
78875	1,2-Dichloropropane	0.0062	U
110758	2-Chloroethylvinylether	0.0062	U
107028	Acrolein	0.019	U
107131	Acrylonitrile	0.0086	U
71432	Benzene	0.0012	U
75274	Bromodichloromethane	0.0062	U
75252	Bromoform	0.0062	U
74839	Bromomethane	0.0062	U
56235	Carbon tetrachloride	0.0062	U
108907	Chlorobenzene	0.0062	U
75003	Chloroethane	0.0062	U
67663	Chloroform	0.0062	U
74873	Chloromethane	0.0062	U
10061015	Cis-1,3-Dichloropropene	0.0062	U
124481	Dibromochloromethane	0.0062	U
100414	Ethylbenzene	0.0012	U
108383	M&P-Xylenes	0.0025	U
75092	Methylene chloride	0.0062	U
95476	O-Xylene	0.0012	U
127184	Tetrachloroethene	0.0062	U
108883	Toluene	0.0012	U
156605	Trans-1,2-Dichloroethene	0.0062	U
10061026	Trans-1,3-Dichloropropene	0.0062	U
79016	Trichloroethene	0.0062	U
75014	Vinyl chloride	0.0062	U

0.0059 JB

Total Target Concentration 0.0059

- U - Indicates the compound was analyzed but not detected.
- J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
- B - Indicates the analyte was found in the blank as well as in the sample.
- E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Form I
ORGANICS VOLATILE REPORT

Sample Number: AB20279 **Matrix:** Soil
Client Id: PG-G-06-120100SO04 **Initial Volume:** 5g
Data File: FT4743 **Final Volume:** NA
Date Analyzed: 7 Dec 2000 13:51 **Dilution Factor:** 1
Date Received/Extracted: 12/4/00-NA **Percent Solids:** 81
Column: Supelco 105 m volcol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
71556	1,1,1-Trichloroethane	0.0062	U
79345	1,1,2,2-Tetrachloroethane	0.0062	U
79005	1,1,2-Trichloroethane	0.0062	U
75343	1,1-Dichloroethane	0.0062	U
75354	1,1-Dichloroethene	0.0062	U
107062	1,2-Dichloroethane	0.0062	U
78875	1,2-Dichloropropane	0.0062	U
110758	2-Chloroethylvinylether	0.0062	U
107028	Acrolein	0.019	U
107131	Acrylonitrile	0.0086	U
71432	Benzene	0.0012	U
75274	Bromodichloromethane	0.0062	U
75252	Bromoform	0.0062	U
74839	Bromomethane	0.0062	U
56235	Carbon tetrachloride	0.0062	U
108907	Chlorobenzene	0.0062	U
75003	Chloroethane	0.0062	U
67663	Chloroform	0.0062	U
74873	Chloromethane	0.0062	U
10061015	Cis-1,3-Dichloropropene	0.0062	U
124481	Dibromochloromethane	0.0062	U
100414	Ethylbenzene	0.0012	U
108383	M&p-Xylenes	0.0025	U
75092	Methylene chloride	0.0062	U
95476	O-Xylene	0.0012	U
127184	Tetrachloroethene	0.0062	U
108883	Toluene	0.0012	U
156605	Trans-1,2-Dichloroethene	0.0062	U
10061026	Trans-1,3-Dichloropropene	0.0062	U
79016	Trichloroethene	0.0062	U
75014	Vinyl chloride	0.0062	U

0.0057 JB U

Total Target Concentration 0.0057

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Form 1
ORGANICS VOLATILE REPORT

Sample Number: AB20280 **Matrix:** Soil
Client Id: PG-G-5A-120100SO03 **Initial Volume:** 5g
Data File: FT4721 **Final Volume:** NA
Date Analyzed: 7 Dec 2000 00:17 **Dilution Factor:** 1
Date Received/Extracted: 12/4/00-NA **Percent Solids:** 81
Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

2000

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
71556	1,1,1-Trichloroethane	0.0062	U
79345	1,1,2,2-Tetrachloroethane	0.0062	U
79005	1,1,2-Trichloroethane	0.0062	U
75343	1,1-Dichloroethane	0.0062	U
75354	1,1-Dichloroethane	0.0062	U
107062	1,2-Dichloroethane	0.0062	U
78875	1,2-Dichloropropane	0.0062	U
110758	2-Chloroethylvinylether	0.0062	U
107028	Acrolein	0.019	U
107131	Acrylonitrile	0.0088	U
71432	Benzene	0.0012	U
75274	Bromodichloromethane	0.0062	U
75252	Bromoform	0.0062	U
74839	Bromomethane	0.0062	U
56235	Carbon tetrachloride	0.0062	U
108907	Chlorobenzene	0.0062	U
75003	Chloroethane	0.0062	U
67663	Chloroform	0.0062	U
74873	Chloromethane	0.0062	U
10061015	Cis-1,3-Dichloropropene	0.0062	U
124481	Dibromochloromethane	0.0062	U
100414	Ethylbenzene	0.0012	U
108383	M&p-Xylenes	0.0025	U
75092	Methylene chloride	0.0062	U
95476	O-Xylene	0.0012	0.0048 JB U
127184	Tetrachloroethene	0.0062	U
108883	Toluene	0.0012	U
156605	Trans-1,2-Dichloroethene	0.0062	U
10061026	Trans-1,3-Dichloropropene	0.0062	U
79016	Trichloroethene	0.0062	U
75014	Vinyl chloride	0.0062	U

Total Target Concentration 0.0048

- U - Indicates the compound was analyzed but not detected.*
- J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
- B - Indicates the analyte was found in the blank as well as in the sample.*
- E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

Formle/If
ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

245

Sample Number: AB20280	Matrix: Soil
Client Id: PG-G-5A-120100S00	Initial Volume: 5g
Data File: FT4721	Final Volume: NA
Date Analyzed: 7 Dec 2000 00:17	Dilution Factor: 1
Date Received/Extracted: 12/4/00-NA	Percent Solids: 81

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration mg/Kg</i>
1		unknown	3.970	0.0043 J
2		unknown	5.500	0.0043 J
3		unknown	9.640	0.0098 J B U
4		unknown	12.850	0.013 J B U

Total Tentatively Identified Concentration 0.031

A - Indicates an aldol condensate.
J - Indicates an estimated value
B - Indicates the analyte was found in the blank as well as in the sample.

Control File h:\import\113300.bt

Form 1
ORGANICS VOLATILE REPORT

Sample Number: AB20281

Matrix: Soil

Client Id: PG-FS-7-120100SO02

Initial Volume: 5g

Data File: FT4722

Final Volume: NA

Date Analyzed: 7 Dec 2000 00:43

Dilution Factor: 1

Date Received/Extracted: 12/4/00-NA

Percent Solids: 79

Column: Supelco 105 m volcol col, 5 mm id, 3.0 um film

349

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
71556	1,1,1-Trichloroethane	0.0063	U
79345	1,1,2,2-Tetrachloroethane	0.0063	U
79005	1,1,2-Trichloroethane	0.0063	U
75343	1,1-Dichloroethane	0.0063	U
75354	1,1-Dichloroethene	0.0063	U
107062	1,2-Dichloroethane	0.0063	U
78875	1,2-Dichloropropane	0.0063	U
110758	2-Chloroethylvinylether	0.0063	U
107028	Acrolein	0.019	U
107131	Acrylonitrile	0.0088	U
71432	Benzene	0.0013	U
75274	Bromodichloromethane	0.0063	U
75252	Bromoform	0.0063	U
74839	Bromomethane	0.0063	U
56235	Carbon tetrachloride	0.0063	U
108907	Chlorobenzene	0.0063	U
75003	Chloroethane	0.0063	U
67663	Chloroform	0.0063	U
74873	Chloromethane	0.0063	U
10061015	Cis-1,3-Dichloropropene	0.0063	U
124481	Dibromochloromethane	0.0063	U
100414	Ethylbenzene	0.0013	U
108383	M&p-Xylenes	0.0025	U
75092	Methylene chloride	0.0063	0.0075 B U
95476	O-Xylene	0.0013	U
127184	Tetrachloroethene	0.0063	0.0032 J
108883	Toluene	0.0013	U
156605	Trans-1,2-Dichloroethene	0.0063	U
10061026	Trans-1,3-Dichloropropene	0.0063	U
79016	Trichloroethene	0.0063	U
75014	Vinyl chloride	0.0063	U

Total Target Concentration 0.011

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Form1
ORGANICS VOLATILE REPORT

Sample Number: AB20282 **Matrix:** Soil
Client Id: PG-FS-7-120100SO05 **Initial Volume:** 5g
Data File: FT4723 **Final Volume:** NA
Date Analyzed: 7 Dec 2000 1:09 **Dilution Factor:** 1
Date Received/Extracted: 12/4/00-NA **Percent Solids:** 79
Column: Supelco 105 m volcol col., 5 mm id, 3.0 um film

88

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
71556	1,1,1-Trichloroethane	0.0063	U
79345	1,1,2,2-Tetrachloroethane	0.0063	U
79005	1,1,2-Trichloroethane	0.0063	U
75343	1,1-Dichloroethane	0.0063	U
75354	1,1-Dichloroethane	0.0063	U
107062	1,2-Dichloroethane	0.0063	U
78875	1,2-Dichloropropane	0.0063	U
110758	2-Chloroethylvinylether	0.0063	U
107028	Acrolein	0.019	U
107131	Acrylonitrile	0.0088	U
71432	Benzene	0.0013	U
75274	Bromodichloromethane	0.0063	U
75252	Bromoform	0.0063	U
74839	Bromomethane	0.0063	U
56235	Carbon tetrachloride	0.0063	U
108907	Chlorobenzene	0.0063	U
75003	Chloroethane	0.0063	U
67663	Chloroform	0.0063	U
74873	Chloromethane	0.0063	U
10061015	Cis-1,3-Dichloropropene	0.0063	U
124481	Dibromochloromethane	0.0063	U
100414	Ethylbenzene	0.0013	U
108383	M&p-Xylenes	0.0025	U
75092	Methylene chloride	0.0063	U
95476	O-Xylene	0.0013	U
127184	Tetrachloroethene	0.0063	U
108883	Toluene	0.0013	U
156605	Trans-1,2-Dichloroethene	0.0063	U
10061026	Trans-1,3-Dichloropropene	0.0063	U
79016	Trichloroethene	0.0063	U
75014	Vinyl chloride	0.0063	U

0.0049 JBU

Total Target Concentration 0.0049

- U - Indicates the compound was analyzed but not detected.*
- J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
- B - Indicates the analyte was found in the blank as well as in the sample.*
- E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

Form I
ORGANICS VOLATILE REPORT

Sample Number: AB20284(5X)

Matrix: Soil

Client Id: PG-D-01-120100SO04

Initial Volume: 5g

Data File: FT4773

Final Volume: NA

Date Analyzed: 8 Dec 2000 3:29

Dilution Factor: 5

Date Received/Extracted: 12/4/00-NA

Percent Solids: 71

Column: Supelco 105 m volcol col., 5 mm id, 3.0 um film

261

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
71556	1,1,1-Trichloroethane	0.035	U
79345	1,1,2,2-Tetrachloroethane	0.035	J
79005	1,1,2-Trichloroethane	0.035	
75343	1,1-Dichloroethane	0.035	
75354	1,1-Dichloroethene	0.035	
107062	1,2-Dichloroethane	0.035	
78875	1,2-Dichloropropane	0.035	
110758	2-Chloroethyvinylether	0.035	
107028	Acrolein	0.11	
107131	Acrylonitrile	0.049	
71432	Benzene	0.0070	
75274	Bromodichloromethane	0.035	
75252	Bromoform	0.035	
74839	Bromomethane	0.035	
56235	Carbon tetrachloride	0.035	
108907	Chlorobenzene	0.035	
75003	Chloroethane	0.035	
67663	Chloroform	0.035	
74873	Chloromethane	0.035	
10061015	Cis-1,3-Dichloropropene	0.035	
124481	Dibromochloromethane	0.035	
100414	Ethylbenzene	0.0070	
108383	M&p-Xylenes	0.014	
75092	Methylene chloride	0.035	0.024 JB
95476	O-Xylene	0.0070	
127184	Tetrachloroethene	0.035	
108883	Toluene	0.0070	
156605	Trans-1,2-Dichloroethene	0.035	
10061026	Trans-1,3-Dichloropropene	0.035	
79016	Trichloroethene	0.035	
75014	Vinyl chloride	0.035	

Total Target Concentration 0.024

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Formle/lf
ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

202

Sample Number: AB20284(5X) **Matrix:** Soil
Client Id: PG-D-01-120100SO0 **Initial Volume:** 5g
Data File: FT4773 **Final Volume:** NA
Date Analyzed: 8 Dec 2000 3:29 **Dilution Factor:** 5
Date Received/Extracted: 12/4/00-NA **Percent Solids:** 71

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration mg/Kg</i>
1	003073-66-3	Cyclohexane, 1,1,3-trimethyl-	10.200	0.59 J
2	001839-63-0	Cyclohexane, 1,3,5-trimethyl-	10.380	0.43 J
3	001678-81-5	Cyclohexane, 1,2,3-trimethyl-, (1.alpha.	10.690	0.29 J
4	006236-88-0	Cyclohexane, 1-ethyl-4-methyl-, trans-	10.810	1.1 J
5		unknown	10.910	0.29 J
6		unknown hydrocarbon	10.970	0.45 J
7		unknown	11.050	1.6 J
8	002051-30-1	Octane, 2,6-dimethyl-	11.140	1.7 J
9		unknown	11.260	2.9 J
10		unknown hydrocarbon	11.410	3.2 J
11		unknown	11.820	0.32 J
12	002847-72-5	Decane, 4-methyl-	12.000	0.53 J
13		unknown	12.270	0.52 J
14		unknown	12.540	0.29 J
15	000091-17-8	Naphthalene, decahydro-	12.690	0.41 J

Total Tentatively Identified Concentration 15

A - Indicates an aldol condensate.

J - Indicates an estimated value

B - Indicates the analyte was found in the blank as well as in the sample.

Control File h:\import\113300.bt

Form1
ORGANICS VOLATILE REPORT

609

Sample Number: AB20286 **Matrix:** Soil
Client Id: PG-D-03-120100SO01 **Initial Volume:** 5g
Data File: FT4725 **Final Volume:** NA
Date Analyzed: 7 Dec 2000 2:01 **Dilution Factor:** 1
Date Received/Extracted: 12/4/00-NA **Percent Solids:** 87
Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
71556	1,1,1-Trichloroethane	0.0057	U
79345	1,1,2,2-Tetrachloroethane	0.0057	U
79005	1,1,2-Trichloroethane	0.0057	U
75343	1,1-Dichloroethane	0.0057	U
75354	1,1-Dichloroethane	0.0057	U
107062	1,2-Dichloroethane	0.0057	U
78875	1,2-Dichloropropane	0.0057	U
110758	2-Chloroethylvinylether	0.0057	U
107028	Acrolein	0.017	U
107131	Acrylonitrile	0.0080	U
71432	Benzene	0.0011	U
75274	Bromodichloromethane	0.0057	U
75252	Bromoform	0.0057	U
74839	Bromomethane	0.0057	U
56235	Carbon tetrachloride	0.0057	U
108907	Chlorobenzene	0.0057	U
75003	Chloroethane	0.0057	U
67663	Chloroform	0.0057	U
74873	Chloromethane	0.0057	U
10061015	Cis-1,3-Dichloropropene	0.0057	U
124481	Dibromochloromethane	0.0057	U
100414	Ethylbenzene	0.0011	U
108383	M&p-Xylenes	0.0023	U
75092	Methylene chloride	0.0057	0.0041 JB U
95476	O-Xylene	0.0011	U
127184	Tetrachloroethene	0.0057	U
108883	Toluene	0.0011	U
156605	Trans-1,2-Dichloroethene	0.0057	U
10061026	Trans-1,3-Dichloropropene	0.0057	U
79016	Trichloroethene	0.0057	U
75014	Vinyl chloride	0.0057	U

Total Target Concentration 0.0041

*U - Indicates the compound was analyzed but not detected.
 J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
 B - Indicates the analyte was found in the blank as well as in the sample.
 E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

Form 1
ORGANICS VOLATILE REPORT

Sample Number: AB20287

Matrix: Soil

Client Id: PG-RR-08-120100SO02

Initial Volume: 5g

Data File: FT4726

Final Volume: NA

Date Analyzed: 7 Dec 2000 2:27

Dilution Factor: 1

Date Received/Extracted: 12/4/00-NA

Percent Solids: 64

Column: Supelco 105 m vocol col, .5 mm id, 3.0 um film

CAS #	Compound	PQLMDL	Concentration (Units: mg/Kg)
71556	1,1,1-Trichloroethane	0.0078	U
79345	1,1,2,2-Tetrachloroethane	0.0078	U
79005	1,1,2-Trichloroethane	0.0078	U
75343	1,1-Dichloroethane	0.0078	U
75354	1,1-Dichloroethane	0.0078	U
107062	1,2-Dichloroethane	0.0078	U
78875	1,2-Dichloropropane	0.0078	U
110758	2-Chloroethylvinylether	0.0078	U
107028	Acrolein	0.023	U
107131	Acrylonitrile	0.011	U
71432	Benzene	0.0016	U
75274	Bromodichloromethane	0.0078	U
75252	Bromoform	0.0078	U
74839	Bromomethane	0.0078	U
56235	Carbon tetrachloride	0.0078	U
108907	Chlorobenzene	0.0078	U
75003	Chloroethane	0.0078	U
67663	Chloroform	0.0078	U
74873	Chloromethane	0.0078	U
10061015	Cis-1,3-Dichloropropene	0.0078	U
124481	Dibromochloromethane	0.0078	U
100414	Ethylbenzene	0.0016	U
108383	M&p-Xylenes	0.0031	U
75092	Methylene chloride	0.0078	0.0026 JB U
95476	O-Xylene	0.0016	U
127184	Tetrachloroethene	0.0078	U
108883	Toluene	0.0016	U
156605	Trans-1,2-Dichloroethene	0.0078	U
10061026	Trans-1,3-Dichloropropene	0.0078	U
79016	Trichloroethene	0.0078	U
75014	Vinyl chloride	0.0078	U

Total Target Concentration 0.0026

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Formle/lf
ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AB20287
Client Id: PG-RR-08-120100SO
Data File: FT4726
Date Analyzed: 7 Dec 2000 2:27
Date Received/Extracted: 12/4/00-NA

Matrix: Soil
Initial Volume: 5g
Final Volume: NA
Dilution Factor: 1
Percent Solids: 64

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration mg/Kg</i>
1		unknown	9.650	0.010 JB U
2		unknown	9.660	0.0086 J
3		unknown	12.850	0.014 JB U

Total Tentatively Identified Concentration 0.033

A - Indicates an aldol condensate.

J - Indicates an estimated value

B - Indicates the analyte was found in the blank as well as in the sample.

Control File h:\import\113300.txt

Form1
ORGANICS VOLATILE REPORT

Sample Number: AB20288 **Matrix:** Soil
Client Id: PG-RR-08-120100SO04 **Initial Volume:** 5g
Data File: FT4727 **Final Volume:** NA
Date Analyzed: 7 Dec 2000 2:53 **Dilution Factor:** 1
Date Received/Extracted: 12/4/00-NA **Percent Solids:** 72
Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
71556	1,1,1-Trichloroethane	0.0069	U
79345	1,1,2,2-Tetrachloroethane	0.0069	U
79005	1,1,2-Trichloroethane	0.0069	U
75343	1,1-Dichloroethane	0.0069	U
75354	1,1-Dichloroethene	0.0069	U
107062	1,2-Dichloroethane	0.0069	U
78875	1,2-Dichloropropane	0.0069	U
110758	2-Chloroethylvinylether	0.0069	U
107028	Acrolein	0.021	U
107131	Acrylonitrile	0.0096	U
71432	Benzene	0.0014	U
75274	Bromodichloromethane	0.0069	U
75252	Bromoform	0.0069	U
74839	Bromomethane	0.0069	U
56235	Carbon tetrachloride	0.0069	U
108907	Chlorobenzene	0.0069	U
75003	Chloroethane	0.0069	U
67663	Chloroform	0.0069	U
74873	Chloromethane	0.0069	U
10061015	Cis-1,3-Dichloropropene	0.0069	U
124481	Dibromochloromethane	0.0069	U
100414	Ethylbenzene	0.0014	U
108383	M&p-Xylenes	0.0028	U
75092	Methylene chloride	0.0069	0.0022 JB U
95476	O-Xylene	0.0014	U
127184	Tetrachloroethene	0.0069	U
108883	Toluene	0.0014	U
156605	Trans-1,2-Dichloroethene	0.0069	U
10061026	Trans-1,3-Dichloropropene	0.0069	U
79016	Trichloroethene	0.0069	U
75014	Vinyl chloride	0.0069	U

Total Target Concentration 0.0022

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Form 1
ORGANICS VOLATILE REPORT

Sample Number: AB20289

Matrix: Soil

Client Id: PG-UST2-3-120100SO02

Initial Volume: 5g

Data File: FT4728

Final Volume: NA

Date Analyzed: 7 Dec 2000 3:19

Dilution Factor: 1

Date Received/Extracted: 12/4/00-NA

Percent Solids: 81

Column: Supelco 105 m vocol col, .5 mm id, 3.0 um film

291

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
71556	1,1,1-Trichloroethane	0.0062	U
79345	1,1,2,2-Tetrachloroethane	0.0062	U
79005	1,1,2-Trichloroethane	0.0062	U
75343	1,1-Dichloroethane	0.0062	U
75354	1,1-Dichloroethane	0.0062	U
107062	1,2-Dichloroethane	0.0062	U
78875	1,2-Dichloropropane	0.0062	U
110758	2-Chloroethylvinylether	0.0062	U
107028	Acrolein	0.019	U
107131	Acrylonitrile	0.0086	U
71432	Benzene	0.0012	U
75274	Bromodichloromethane	0.0062	U
75252	Bromoform	0.0062	U
74839	Bromomethane	0.0062	U
56235	Carbon tetrachloride	0.0062	U
108907	Chlorobenzene	0.0062	U
75003	Chloroethane	0.0062	U
67663	Chloroform	0.0062	U
74873	Chloromethane	0.0062	U
10061015	Cis-1,3-Dichloropropene	0.0062	U
124481	Dibromochloromethane	0.0062	U
100414	Ethylbenzene	0.0012	U
108383	M&p-Xylenes	0.0025	U
75092	Methylene chloride	0.0062	0.0057 JB U
95476	O-Xylene	0.0012	U
127184	Tetrachloroethene	0.0062	U
108883	Toluene	0.0012	U
156605	Trans-1,2-Dichloroethene	0.0062	U
10061026	Trans-1,3-Dichloropropene	0.0062	U
79016	Trichloroethene	0.0062	U
75014	Vinyl chloride	0.0062	U

Total Target Concentration 0.0057

- U - Indicates the compound was analyzed but not detected.
- J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
- B - Indicates the analyte was found in the blank as well as in the sample.
- E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Form 1
ORGANICS VOLATILE REPORT

Sample Number: AB20290(5X) Matrix: Soil
 Client Id: PG-UST2-3-120100SO5B Initial Volume: 5g
 Data File: FT4836 Final Volume: NA
 Date Analyzed: 9 Dec 2000 23:40 Dilution Factor: 5
 Date Received/Extracted: 12/4/00-NA Percent Solids: 60
 Column: Supelco 105 m volcol col,.5 mm id, 3.0 um film

205

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
71556	1,1,1-Trichloroethane	0.042	U
79345	1,1,2,2-Tetrachloroethane	0.042	U
79005	1,1,2-Trichloroethane	0.042	U
75343	1,1-Dichloroethane	0.042	U
75354	1,1-Dichloroethene	0.042	U
107062	1,2-Dichloroethane	0.042	U
78875	1,2-Dichloropropane	0.042	U
110758	2-Chloroethylvinylether	0.042	U
107028	Acrolein	0.12	U
107131	Acrylonitrile	0.058	U
71432	Benzene	0.0083	U
75274	Bromodichloromethane	0.042	U
75252	Bromoform	0.042	U
74839	Bromomethane	0.042	U
56235	Carbon tetrachloride	0.042	U
108907	Chlorobenzene	0.042	U
75003	Chloroethane	0.042	U
67663	Chloroform	0.042	U
74873	Chloromethane	0.042	U
10061015	Cis-1,3-Dichloropropene	0.042	U
124481	Dibromochloromethane	0.042	U
100414	Ethylbenzene	0.0083	U
108363	M&p-Xylenes	0.017	U
75092	Methylene chloride	0.042	U
95476	O-Xylene	0.0083	U
127184	Tetrachloroethene	0.042	U
108883	Toluene	0.0083	U
156605	Trans-1,2-Dichloroethene	0.042	U
10061026	Trans-1,3-Dichloropropene	0.042	U
79016	Trichloroethene	0.042	U
75014	Vinyl chloride	0.042	U

0.018 ~~18~~ U

Total Target Concentration 0.018

U - Indicates the compound was analyzed but not detected.
 J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
 B - Indicates the analyte was found in the blank as well as in the sample.
 E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Formle/If
ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

<i>Sample Number:</i> AB20292	<i>Matrix:</i> Soil
<i>Client Id:</i> PG-FILL10-120100S	<i>Initial Volume:</i> 5g
<i>Data File:</i> FT4729	<i>Final Volume:</i> NA
<i>Date Analyzed:</i> 7 Dec 2000 3:44	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/4/00-NA	<i>Percent Solids:</i> 91

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration mg/Kg</i>
1		unknown	3.970	0.0039 J
2		unknown	9.650	0.010 J B U
3		unknown	12.850	0.0082 J B U

Total Tentatively Identified Concentration 0.022

A - Indicates an aldol condensate.
J - Indicates an estimated value
B - Indicates the analyte was found in the blank as well as in the sample.

Control File h:\import\113300.bt

Form I
ORGANICS VOLATILE REPORT

Sample Number: AB20293

Matrix: Soil

Client Id: PG-FILL10-120100SO04

Initial Volume: 5g

Data File: FT4767

Final Volume: NA

Date Analyzed: 8 Dec 2000 00:54

Dilution Factor: 1

Date Received/Extracted: 12/4/00-NA

Percent Solids: 42

Column: Supelco 105 m volcol col, .5 mm id, 3.0 um film

297

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
71556	1,1,1-Trichloroethane	0.012	U
79345	1,1,2,2-Tetrachloroethane	0.012	U
79005	1,1,2-Trichloroethane	0.012	U
75343	1,1-Dichloroethane	0.012	U
75354	1,1-Dichloroethane	0.012	U
107062	1,2-Dichloroethane	0.012	U
78875	1,2-Dichloropropane	0.012	U
110758	2-Chloroethylvinylether	0.012	U
107028	Acrolein	0.036	U
107131	Acrylonitrile	0.016	U
71432	Benzene	0.0024	U
75274	Bromodichloromethane	0.012	U
75252	Bromoform	0.012	U
74839	Bromomethane	0.012	U
56235	Carbon tetrachloride	0.012	U
108907	Chlorobenzene	0.012	U
75003	Chloroethane	0.012	U
67663	Chloroform	0.012	U
74873	Chloromethane	0.012	U
10061015	Cis-1,3-Dichloropropene	0.012	U
124481	Dibromochloromethane	0.012	U
100414	Ethylbenzene	0.0024	U
108383	M&p-Xylenes	0.0048	U
75092	Methylene chloride	0.012	0.023 B U
95476	O-Xylene	0.0024	U
127184	Tetrachloroethene	0.012	U
108883	Toluene	0.0024	U
156605	Trans-1,2-Dichloroethene	0.012	U
10061026	Trans-1,3-Dichloropropene	0.012	U
79016	Trichloroethene	0.012	U
75014	Vinyl chloride	0.012	U

Total Target Concentration 0.023

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\113300.txt

Formle/lf
ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AB20293

Matrix: Soil

Client Id: PG-FILL10-120100S

Initial Volume: 5g

Data File: FT4767

Final Volume: NA

Date Analyzed: 8 Dec 2000 00:54

Dilution Factor: 1

Date Received/Extracted: 12/4/00-NA

Percent Solids: 42

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration mg/Kg</i>
1		column bleed	1.920	0.0097 J
2		unknown	3.940	0.028 J
3		unknown	9.650	0.021 J
4		unknown	12.850	0.027 J B U

Total Tentatively Identified Concentration 0.086

A - Indicates an aldol condensate.

J - Indicates an estimated value

B - Indicates the analyte was found in the blank as well as in the sample.

Control File h:\import\113300.bt

Form 1
ORGANICS VOLATILE REPORT

Sample Number: AB20294

Matrix: Soil

Client Id: PG-FILL25-120100SO01

Initial Volume: 5g

Data File: FT4768

Final Volume: NA

Date Analyzed: 8 Dec 2000 1:19

Dilution Factor: 1

Date Received/Extracted: 12/4/00-NA

Percent Solids: 62

Column: Supelco 105 m volcol col., 5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
71556	1,1,1-Trichloroethane	0.0081	U
79345	1,1,2,2-Tetrachloroethane	0.0081	U
79005	1,1,2-Trichloroethane	0.0081	U
75343	1,1-Dichloroethane	0.0081	U
75354	1,1-Dichloroethane	0.0081	U
107062	1,2-Dichloroethane	0.0081	U
78875	1,2-Dichloropropane	0.0081	U
110758	2-Chloroethylvinylether	0.0081	U
107028	Acrolein	0.024	U
107131	Acrylonitrile	0.011	U
71432	Benzene	0.0016	U
75274	Bromodichloromethane	0.0081	U
75252	Bromoform	0.0081	U
74839	Bromomethane	0.0081	U
56235	Carbon tetrachloride	0.0081	U
108907	Chlorobenzene	0.0081	U
75003	Chloroethane	0.0081	U
67663	Chloroform	0.0081	U
74873	Chloromethane	0.0081	U
10061015	Cis-1,3-Dichloropropene	0.0081	U
124481	Dibromochloromethane	0.0081	U
100414	Ethylbenzene	0.0016	U
108383	M&p-Xylenes	0.0032	U
75092	Methylene chloride	0.0081	0.0029 JB U
95476	O-Xylene	0.0016	U
127184	Tetrachloroethene	0.0081	U
108883	Toluene	0.0016	U
156605	Trans-1,2-Dichloroethene	0.0081	U
10061026	Trans-1,3-Dichloropropene	0.0081	U
79016	Trichloroethene	0.0081	U
75014	Vinyl chloride	0.0081	U

Total Target Concentration 0.0029

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Formle/1f
ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

302

Sample Number: AB20294
Client Id: PG-FILL25-120100S
Data File: FT4768
Date Analyzed: 8 Dec 2000 1:19
Date Received/Extracted: 12/4/00-NA

Matrix: Soil
Initial Volume: 5g
Final Volume: NA
Dilution Factor: 1
Percent Solids: 62

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration mg/Kg</i>
1		unknown	9.500	0.0072 J
2		unknown	12.850	0.014 B U

Total Tentatively Identified Concentration 0.021

A - Indicates an aldol condensate.
J - Indicates an estimated value
B - Indicates the analyte was found in the blank as well as in the sample.

Control File h:\import\113300.txt

Form 1
ORGANICS VOLATILE REPORT

Sample Number: AB20295

Matrix: Soil

Client Id: PG-FILL25-120100SO03

Initial Volume: 5g

Data File: FT4772

Final Volume: NA

Date Analyzed: 8 Dec 2000 3:03

Dilution Factor: 1

Date Received/Extracted: 12/4/00-NA

Percent Solids: 51

Column: Supelco 105 m volcol col, .5 mm id, 3.0 um film

305

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
71556	1,1,1-Trichloroethane	0.0098	U
79345	1,1,2,2-Tetrachloroethane	0.0098	U
79005	1,1,2-Trichloroethane	0.0098	U
75343	1,1-Dichloroethane	0.0098	U
75354	1,1-Dichloroethene	0.0098	U
107062	1,2-Dichloroethane	0.0098	U
78875	1,2-Dichloropropane	0.0098	U
110758	2-Chloroethylvinylether	0.0098	U
107028	Acrolein	0.029	U
107131	Acrylonitrile	0.014	U
71432	Benzene	0.0020	U
75274	Bromodichloromethane	0.0098	U
75252	Bromoform	0.0098	U
74839	Bromomethane	0.0098	U
56235	Carbon tetrachloride	0.0098	U
108907	Chlorobenzene	0.0098	U
75003	Chloroethane	0.0098	U
67663	Chloroform	0.0098	U
74873	Chloromethane	0.0098	U
10061015	Cis-1,3-Dichloropropene	0.0098	U
124481	Dibromochloromethane	0.0098	U
100414	Ethylbenzene	0.0020	U
108383	M&p-Xylenes	0.0039	U
75092	Methylene chloride	0.0098	0.0054 JB U
95476	O-Xylene	0.0020	U
127184	Tetrachloroethene	0.0098	U
108883	Toluene	0.0020	U
156605	Trans-1,2-Dichloroethene	0.0098	U
10061026	Trans-1,3-Dichloropropene	0.0098	U
79016	Trichloroethene	0.0098	U
75014	Vinyl chloride	0.0098	U

Total Target Concentration 0.0054

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Formle/If
ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

<i>Sample Number:</i> AB20295	<i>Matrix:</i> Soil
<i>Client Id:</i> PG-FILL25-120100S	<i>Initial Volume:</i> 5g
<i>Data File:</i> FT4772	<i>Final Volume:</i> NA
<i>Date Analyzed:</i> 8 Dec 2000 3:03	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/4/00-NA	<i>Percent Solids:</i> 51

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration mg/Kg</i>
1		column bleed	1.920	0.012 J
2		unknown	3.970	0.0065 J
3		unknown	5.500	0.0077 J
4		unknown	9.620	0.017 J
5		unknown	10.020	0.0075 J

Total Tentatively Identified Concentration 0.051

A - Indicates an aldol condensate.

J - Indicates an estimated value

B - Indicates the analyte was found in the blank as well as in the sample.

Control File h:\import\113300.bt

Form 1
ORGANICS VOLATILE REPORT

Sample Number: AB20296 **Matrix:** Soil
Client Id: PG-FILL25-120100SO05 **Initial Volume:** 5g
Data File: FT4791 **Final Volume:** NA
Date Analyzed: 8 Dec 2000 14:55 **Dilution Factor:** 1
Date Received/Extracted: 12/4/00-NA **Percent Solids:** 71
Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

88

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
71556	1,1,1-Trichloroethane	0.0070	U
79345	1,1,2,2-Tetrachloroethane	0.0070	U
79005	1,1,2-Trichloroethane	0.0070	U
75343	1,1-Dichloroethane	0.0070	U
75354	1,1-Dichloroethene	0.0070	U
107062	1,2-Dichloroethane	0.0070	U
78875	1,2-Dichloropropane	0.0070	U
110758	2-Chloroethylvinylether	0.0070	U
107028	Acrolein	0.021	U
107131	Acrylonitrile	0.0098	U
71432	Benzene	0.0014	U
75274	Bromodichloromethane	0.0070	U
75252	Bromoform	0.0070	U
74839	Bromomethane	0.0070	U
56235	Carbon tetrachloride	0.0070	U
108907	Chlorobenzene	0.0070	U
75003	Chloroethane	0.0070	U
67663	Chloroform	0.0070	U
74873	Chloromethane	0.0070	U
10061015	Cis-1,3-Dichloropropene	0.0070	U
124481	Dibromochloromethane	0.0070	U
100414	Ethylbenzene	0.0014	U
108383	M&p-Xylenes	0.0028	U
75092	Methylene chloride	0.0070	0.0045 JB U
95476	O-Xylene	0.0014	U
127184	Tetrachloroethene	0.0070	U
108883	Toluene	0.0014	U
156605	Trans-1,2-Dichloroethene	0.0070	U
10061026	Trans-1,3-Dichloropropene	0.0070	U
79016	Trichloroethene	0.0070	U
75014	Vinyl chloride	0.0070	U

Total Target Concentration 0.0045

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Formle/lf
ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

<i>Sample Number:</i> AB20296	<i>Matrix:</i> Soil
<i>Client Id:</i> PG-FILL25-120100S	<i>Initial Volume:</i> 5g
<i>Data File:</i> FT4791	<i>Final Volume:</i> NA
<i>Date Analyzed:</i> 8 Dec 2000 14:55	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/4/00-NA	<i>Percent Solids:</i> 71

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00
00

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration mg/Kg</i>
1		unknown	9.640	0.012 J B U
2		unknown	12.850	0.0069 J B U

Total Tentatively Identified Concentration 0.019

A - Indicates an aldol condensate.

J - Indicates an estimated value

B - Indicates the analyte was found in the blank as well as in the sample.

Control File h:\import\113300.bt

Form 1
ORGANICS VOLATILE REPORT

Sample Number: AB20297 **Matrix:** Soil
Client Id: PG-L-01-120100SO02 **Initial Volume:** 5g
Data File: FT4771 **Final Volume:** NA
Date Analyzed: 8 Dec 2000 2:37 **Dilution Factor:** 1
Date Received/Extracted: 12/4/00-NA **Percent Solids:** 42
Column: Supelco 105 m volcol col, .5 mm id, 3.0 um film

6.5
6.5

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
71556	1,1,1-Trichloroethane	0.012	U
79345	1,1,2,2-Tetrachloroethane	0.012	U
79005	1,1,2-Trichloroethane	0.012	U
75343	1,1-Dichloroethane	0.012	U
75354	1,1-Dichloroethene	0.012	U
107062	1,2-Dichloroethane	0.012	U
78875	1,2-Dichloropropane	0.012	U
110758	2-Chloroethylvinylether	0.012	U
107028	Acrolein	0.036	U
107131	Acrylonitrile	0.016	U
71432	Benzene	0.0024	U
75274	Bromodichloromethane	0.012	U
75252	Bromoform	0.012	U
74839	Bromomethane	0.012	U
56235	Carbon tetrachloride	0.012	U
108907	Chlorobenzene	0.012	U
75003	Chloroethane	0.012	U
67663	Chloroform	0.012	U
74873	Chloromethane	0.012	U
10061015	Cis-1,3-Dichloropropene	0.012	U
124481	Dibromochloromethane	0.012	U
100414	Ethylbenzene	0.0024	U
108383	M&p-Xylenes	0.0048	U
75092	Methylene chloride	0.012	0.0039 JB U
95476	O-Xylene	0.0024	U
127184	Tetrachloroethene	0.012	U
108883	Toluene	0.0024	U
156605	Trans-1,2-Dichloroethene	0.012	U
10061026	Trans-1,3-Dichloropropene	0.012	U
79016	Trichloroethene	0.012	U
75014	Vinyl chloride	0.012	U

Total Target Concentration 0.0039

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Form 1
ORGANICS VOLATILE REPORT

Sample Number: AB20300

Matrix: Water

Client Id: PG-FB-2-120100WQ01

Initial Volume: 5ml

Data File: FQ8466

Final Volume: NA

Date Analyzed: 5 Dec 2000 15:01

Dilution Factor: 1

Date Received/Extracted: 12/4/00-NA

Percent Solids: 0

Column: Supelco 105 m vocol col., 5 mm id, 3.0 um film

325

CAS #	Compound	PQL/MDL	Concentration (Units: ug/L)
71556	1,1,1-Trichloroethane	5.0	U
79345	1,1,2,2-Tetrachloroethane	5.0	U
79005	1,1,2-Trichloroethane	5.0	U
75343	1,1-Dichloroethane	5.0	U
75354	1,1-Dichloroethane	5.0	U
107062	1,2-Dichloroethane	5.0	U
78875	1,2-Dichloropropane	5.0	U
110758	2-Chloroethylvinylether	5.0	U
107028	Acrolein	15	U
107131	Acrylonitrile	1.8	U
71432	Benzene	1.0	U
75274	Bromodichloromethane	5.0	U
75252	Bromoform	5.0	U
74839	Bromomethane	5.0	U
56235	Carbon tetrachloride	5.0	U
108907	Chlorobenzene	5.0	U
75003	Chloroethane	5.0	U
67663	Chloroform	5.0	U
74873	Chloromethane	5.0	U
10061015	Cis-1,3-Dichloropropene	5.0	U
124481	Dibromochloromethane	5.0	U
100414	Ethylbenzene	1.0	U
108383	M&P-Xylenes	2.0	U
75092	Methylene chloride	5.0	U
95476	O-Xylene	1.0	U
127184	Tetrachloroethene	5.0	U
108883	Toluene	1.0	U
156605	Trans-1,2-Dichloroethene	5.0	U
10061026	Trans-1,3-Dichloropropene	5.0	U
79016	Trichloroethene	5.0	U
75014	Vinyl chloride	5.0	U

Total Target Concentration 0

- U - Indicates the compound was analyzed but not detected.
- J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
- B - Indicates the analyte was found in the blank as well as in the sample.
- E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Form1
ORGANICS VOLATILE REPORT

Sample Number: AB20305

Matrix: Soil

Client Id: PG-PD-5-120200SO01

Initial Volume: 5g

Data File: FT4760

Final Volume: NA

Date Analyzed: 7 Dec 2000 21:51

Dilution Factor: 1

Date Received/Extracted: 12/4/00-NA

Percent Solids: 88

Column: Supelco 105 m vocol col, .5 mm id, 3.0 um film

CAS #	Compound	PQLMDL	Concentration (Units: mg/Kg)
71556	1,1,1-Trichloroethane	0.0057	U
79345	1,1,2,2-Tetrachloroethane	0.0057	U
79005	1,1,2-Trichloroethane	0.0057	U
75343	1,1-Dichloroethane	0.0057	U
75354	1,1-Dichloroethane	0.0057	U
107062	1,2-Dichloroethane	0.0057	U
78875	1,2-Dichloropropane	0.0057	U
110758	2-Chloroethylvinylether	0.0057	U
107028	Acrolein	0.017	U
107131	Acrylonitrile	0.0079	U
71432	Benzene	0.0011	U
75274	Bromodichloromethane	0.0057	U
75252	Bromoform	0.0057	U
74839	Bromomethane	0.0057	U
56235	Carbon tetrachloride	0.0057	U
108907	Chlorobenzene	0.0057	U
75003	Chloroethane	0.0057	U
67663	Chloroform	0.0057	U
74873	Chloromethane	0.0057	U
10061015	Cis-1,3-Dichloropropene	0.0057	U
124481	Dibromochloromethane	0.0057	U
100414	Ethylbenzene	0.0011	U
108383	M&p-Xylenes	0.0023	U
75092	Methylene chloride	0.0057	0.0060 B U
95476	O-Xylene	0.0011	U
127184	Tetrachloroethene	0.0057	U
108883	Toluene	0.0011	U
156605	Trans-1,2-Dichloroethene	0.0057	U
10061026	Trans-1,3-Dichloropropene	0.0057	U
79016	Trichloroethene	0.0057	U
75014	Vinyl chloride	0.0057	U

Total Target Concentration 0.006

- U - Indicates the compound was analyzed but not detected.
- J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
- B - Indicates the analyte was found in the blank as well as in the sample.
- E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Formle/1f
ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

013

Sample Number: AB20305	Matrix: Soil
Client Id: PG-PD-5-120200SO0	Initial Volume: 5g
Data File: FT4760	Final Volume: NA
Date Analyzed: 7 Dec 2000 21:51	Dilution Factor: 1
Date Received/Extracted: 12/4/00-NA	Percent Solids: 88

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration mg/Kg</i>
1		unknown	12.850	0.0038 J B U

Total Tentatively Identified Concentration 0.0038

A - Indicates an aldol condensate.
J - Indicates an estimated value
B - Indicates the analyte was found in the blank as well as in the sample.

Control File h:\import\113300.bt

Form 1
ORGANICS VOLATILE REPORT

Sample Number: AB20306 **Matrix:** Soil
Client Id: PG-PD-5-120200SO02 **Initial Volume:** 5g
Data File: FT4761 **Final Volume:** NA
Date Analyzed: 7 Dec 2000 22:17 **Dilution Factor:** 1
Date Received/Extracted: 12/4/00-NA **Percent Solids:** 89
Column: Supelco 105 m vocol col, .5 mm id, 3.0 um film

349

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
71556	1,1,1-Trichloroethane	0.0056	U
79345	1,1,2,2-Tetrachloroethane	0.0056	U
79005	1,1,2-Trichloroethane	0.0056	U
75343	1,1-Dichloroethane	0.0056	U
75354	1,1-Dichloroethane	0.0056	U
107062	1,2-Dichloroethane	0.0056	U
78875	1,2-Dichloropropane	0.0056	U
110758	2-Chloroethylvinylether	0.0056	U
107028	Acrolein	0.017	U
107131	Acrylonitrile	0.0078	U
71432	Benzene	0.0011	U
75274	Bromodichloromethane	0.0056	U
75252	Bromoform	0.0056	U
74839	Bromomethane	0.0056	U
56235	Carbon tetrachloride	0.0056	U
108907	Chlorobenzene	0.0056	U
75003	Chloroethane	0.0056	U
67663	Chloroform	0.0056	U
74873	Chloromethane	0.0056	U
10061015	Cis-1,3-Dichloropropene	0.0056	U
124481	Dibromochloromethane	0.0056	U
100414	Ethylbenzene	0.0011	U
108383	M&p-Xylenes	0.0022	U
75092	Methylene chloride	0.0056	0.0056 JB-U
95476	O-Xylene	0.0011	U
127184	Tetrachloroethene	0.0056	U
108883	Toluene	0.0011	U
156605	Trans-1,2-Dichloroethene	0.0056	U
10061026	Trans-1,3-Dichloropropene	0.0056	U
79016	Trichloroethene	0.0056	U
75014	Vinyl chloride	0.0056	U

Total Target Concentration 0.005

- U - Indicates the compound was analyzed but not detected.
- J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
- B - Indicates the analyte was found in the blank as well as in the sample.
- E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Form 1e/1f
ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

83

<i>Sample Number:</i> AB20306	<i>Matrix:</i> Soil
<i>Client Id:</i> PG-PD-5-120200SO0	<i>Initial Volume:</i> 5g
<i>Data File:</i> FT4761	<i>Final Volume:</i> NA
<i>Date Analyzed:</i> 7 Dec 2000 22:17	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/4/00-NA	<i>Percent Solids:</i> 89

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration mg/Kg</i>
1		unknown	5.500	0.0034 J
2		unknown	9.470	0.0069 J
3		unknown	9.530	0.0080 J
4		unknown	9.590	0.0045 J
5		unknown	9.620	0.011 J

Total Tentatively Identified Concentration 0.034

A - Indicates an aldol condensate.

J - Indicates an estimated value

B - Indicates the analyte was found in the blank as well as in the sample.

Control File h:\import\113300.txt

Form 1
ORGANICS VOLATILE REPORT

Sample Number: AB20307 **Matrix:** Soil
Client Id: PG-PD-4-120200SO05 **Initial Volume:** 5g
Data File: FT4762 **Final Volume:** NA
Date Analyzed: 7 Dec 2000 22:44 **Dilution Factor:** 1
Date Received/Extracted: 12/4/00-NA **Percent Solids:** 82
Column: Supelco 105 m volcol col,.5 mm id, 3.0 um film

69

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
71556	1,1,1-Trichloroethane	0.0061	U
79345	1,1,2,2-Tetrachloroethane	0.0061	U
79005	1,1,2-Trichloroethane	0.0061	U
75343	1,1-Dichloroethane	0.0061	U
75354	1,1-Dichloroethene	0.0061	U
107062	1,2-Dichloroethane	0.0061	U
78875	1,2-Dichloropropane	0.0061	U
110758	2-Chloroethylvinylether	0.0061	U
107028	Acrolein	0.018	U
107131	Acrylonitrile	0.0085	U
71432	Benzene	0.0012	U
75274	Bromodichloromethane	0.0061	U
75252	Bromoform	0.0061	U
74839	Bromomethane	0.0061	U
56235	Carbon tetrachloride	0.0061	U
108907	Chlorobenzene	0.0061	U
75003	Chloroethane	0.0061	U
67663	Chloroform	0.0061	U
74873	Chloromethane	0.0061	U
10061015	Cis-1,3-Dichloropropene	0.0061	U
124481	Dibromochloromethane	0.0061	U
100414	Ethylbenzene	0.0012	U
108383	M&p-Xylenes	0.0024	U
75092	Methylene chloride	0.0061	0.0063 B-U
95476	O-Xylene	0.0012	U
127184	Tetrachloroethene	0.0061	U
108883	Toluene	0.0012	U
156605	Trans-1,2-Dichloroethene	0.0061	U
10061026	Trans-1,3-Dichloropropene	0.0061	U
79016	Trichloroethene	0.0061	U
75014	Vinyl chloride	0.0061	U

Total Target Concentration 0.0063

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Form 1
ORGANICS VOLATILE REPORT

Sample Number: AB20308 **Matrix:** Soil
Client Id: PG-A-01-120200SO02 **Initial Volume:** 5g
Data File: FT4766 **Final Volume:** NA
Date Analyzed: 8 Dec 2000 00:28 **Dilution Factor:** 1
Date Received/Extracted: 12/4/00-NA **Percent Solids:** 80
Column: Supelco 105 m vocol col., 5 mm id, 3.0 um film

57

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
71556	1,1,1-Trichloroethane	0.0062	U
79345	1,1,2,2-Tetrachloroethane	0.0062	U
79005	1,1,2-Trichloroethane	0.0062	U
75343	1,1-Dichloroethane	0.0062	U
75354	1,1-Dichloroethene	0.0062	U
107062	1,2-Dichloroethane	0.0062	U
78875	1,2-Dichloropropane	0.0062	U
110758	2-Chloroethylvinylether	0.0062	U
107028	Acrolein	0.019	U
107131	Acrylonitrile	0.0087	U
71432	Benzene	0.0012	U
75274	Bromodichloromethane	0.0062	U
75252	Bromoform	0.0062	U
74839	Bromomethane	0.0062	U
56235	Carbon tetrachloride	0.0062	U
108907	Chlorobenzene	0.0062	U
75003	Chloroethane	0.0062	U
67663	Chloroform	0.0062	U
74873	Chloromethane	0.0062	U
10061015	Cis-1,3-Dichloropropene	0.0062	U
124481	Dibromochloromethane	0.0062	U
100414	Ethylbenzene	0.0012	U
108383	M&p-Xylenes	0.0025	U
75092	Methylene chloride	0.0062	0.0096-B U
95476	O-Xylene	0.0012	U
127184	Tetrachloroethene	0.0062	U
108883	Toluene	0.0012	U
156605	Trans-1,2-Dichloroethene	0.0062	U
10061026	Trans-1,3-Dichloropropene	0.0062	U
79016	Trichloroethene	0.0062	U
75014	Vinyl chloride	0.0062	U

Total Target Concentration 0.0096

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Form I
ORGANICS VOLATILE REPORT

Sample Number: AB20309

Matrix: Soil

Client Id: PG-L-04-120200SO01

Initial Volume: 5g

Data File: FT4763

Final Volume: NA

Date Analyzed: 7 Dec 2000 23:10

Dilution Factor: 1

Date Received/Extracted: 12/4/00-NA

Percent Solids: 93

Column: Supelco 105 m volcol col., 5 mm id, 3.0 um film

65
65

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
71556	1,1,1-Trichloroethane	0.0054	U
79345	1,1,2,2-Tetrachloroethane	0.0054	U
79005	1,1,2-Trichloroethane	0.0054	U
75343	1,1-Dichloroethane	0.0054	U
75354	1,1-Dichloroethene	0.0054	U
107062	1,2-Dichloroethane	0.0054	U
78875	1,2-Dichloropropane	0.0054	U
110758	2-Chloroethylvinylether	0.0054	U
107028	Acrolein	0.016	U
107131	Acrylonitrile	0.0075	U
71432	Benzene	0.0011	U
75274	Bromodichloromethane	0.0054	U
75252	Bromoform	0.0054	U
74839	Bromomethane	0.0054	U
56235	Carbon tetrachloride	0.0054	U
108907	Chlorobenzene	0.0054	U
75003	Chloroethane	0.0054	U
67663	Chloroform	0.0054	U
74873	Chloromethane	0.0054	U
10061015	Cis-1,3-Dichloropropene	0.0054	U
124481	Dibromochloromethane	0.0054	U
100414	Ethylbenzene	0.0011	U
108363	M&p-Xylenes	0.0022	U
75092	Methylene chloride	0.0054	U
95476	O-Xylene	0.0011	U
127184	Tetrachloroethene	0.0054	U
108883	Toluene	0.0011	U
156605	Trans-1,2-Dichloroethene	0.0054	U
10061026	Trans-1,3-Dichloropropene	0.0054	U
79016	Trichloroethene	0.0054	U
75014	Vinyl chloride	0.0054	U

-0.0073 B U

Total Target Concentration 0.0073

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Form 1
ORGANICS VOLATILE REPORT

Sample Number: AB20310 **Matrix:** Soil
Client Id: PG-L-04-120200SO04 **Initial Volume:** 5g
Data File: FT4764 **Final Volume:** NA
Date Analyzed: 7 Dec 2000 23:36 **Dilution Factor:** 1
Date Received/Extracted: 12/4/00-NA **Percent Solids:** 81
Column: Supelco 105 m volcol col, 5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
71556	1,1,1-Trichloroethane	0.0062	U
79345	1,1,2,2-Tetrachloroethane	0.0062	U
79005	1,1,2-Trichloroethane	0.0062	U
75343	1,1-Dichloroethane	0.0062	U
75354	1,1-Dichloroethene	0.0062	U
107062	1,2-Dichloroethane	0.0062	U
78675	1,2-Dichloropropane	0.0062	U
110758	2-Chloroethylvinylether	0.0062	U
107028	Acrolein	0.019	U
107131	Acrylonitrile	0.0086	U
71432	Benzene	0.0012	U
75274	Bromodichloromethane	0.0062	U
75252	Bromoform	0.0062	U
74839	Bromomethane	0.0062	U
56235	Carbon tetrachloride	0.0062	U
108907	Chlorobenzene	0.0062	U
75003	Chloroethane	0.0062	U
67663	Chloroform	0.0062	U
74873	Chloromethane	0.0062	U
10061015	Cis-1,3-Dichloropropene	0.0062	U
124481	Dibromochloromethane	0.0062	U
100414	Ethylbenzene	0.0012	U
108383	M&p-Xylenes	0.0025	U
75092	Methylene chloride	0.0062	0.0083-B U
95476	O-Xylene	0.0012	U
127184	Tetrachloroethene	0.0062	U
108883	Toluene	0.0012	U
156605	Trans-1,2-Dichloroethene	0.0062	U
10061026	Trans-1,3-Dichloropropene	0.0062	U
79016	Trichloroethene	0.0062	U
75014	Vinyl chloride	0.0062	U

Total Target Concentration 0.0083

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Form 1e/1f
ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AB20310
Client Id: PG-L-04-120200SO0
Data File: FT4764
Date Analyzed: 7 Dec 2000 23:36
Date Received/Extracted: 12/4/00-NA

Matrix: Soil
Initial Volume: 5g
Final Volume: NA
Dilution Factor: 1
Percent Solids: 81

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration mg/Kg</i>
1		unknown	5.500	0.0044 J

Total Tentatively Identified Concentration 0.0044

A - Indicates an aldol condensate.
J - Indicates an estimated value
B - Indicates the analyte was found in the blank as well as in the sample.

Control File h:\import\113300.bt

Form 1
ORGANICS VOLATILE REPORT

Sample Number: AB20311 **Matrix:** Soil
Client Id: PG-L-05-120200SO02 **Initial Volume:** 5g
Data File: FT4765 **Final Volume:** NA
Date Analyzed: 8 Dec 2000 00:02 **Dilution Factor:** 1
Date Received/Extracted: 12/4/00-NA **Percent Solids:** 89
Column: Supelco 105 m volcol col,.5 mm id, 3.0 um film

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CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
71556	1,1,1-Trichloroethane	0.0056	U
79345	1,1,2,2-Tetrachloroethane	0.0056	U
79005	1,1,2-Trichloroethane	0.0056	U
75343	1,1-Dichloroethane	0.0056	U
75354	1,1-Dichloroethene	0.0056	U
107062	1,2-Dichloroethane	0.0056	U
78875	1,2-Dichloropropane	0.0056	U
110758	2-Chloroethylvinylether	0.0056	U
107028	Acrolein	0.017	U
107131	Acrylonitrile	0.0078	U
71432	Benzene	0.0011	U
75274	Bromodichloromethane	0.0056	U
75252	Bromoform	0.0056	U
74839	Bromomethane	0.0056	U
56235	Carbon tetrachloride	0.0056	U
108907	Chlorobenzene	0.0056	U
75003	Chloroethane	0.0056	U
67663	Chloroform	0.0056	U
74873	Chloromethane	0.0056	U
10061015	Cis-1,3-Dichloropropene	0.0056	U
124481	Dibromochloromethane	0.0056	U
100414	Ethylbenzene	0.0011	U
108383	M&p-Xylenes	0.0022	U
75092	Methylene chloride	0.0056	0.0071 B U
95476	O-Xylene	0.0011	U
127184	Tetrachloroethene	0.0056	U
108883	Toluene	0.0011	U
156605	Trans-1,2-Dichloroethene	0.0056	U
10061026	Trans-1,3-Dichloropropene	0.0056	U
79016	Trichloroethene	0.0056	U
75014	Vinyl chloride	0.0056	U

Total Target Concentration 0.0071

U - Indicates the compound was analyzed but not detected.
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Form 1
ORGANICS VOLATILE REPORT

Sample Number: AB20312

Matrix: Soil

Client Id: PG-L-05-120200SO05

Initial Volume: 5g

Data File: FT4782

Final Volume: NA

Date Analyzed: 8 Dec 2000 11:02

Dilution Factor: 1

Date Received/Extracted: 12/4/00-NA

Percent Solids: 84

Column: Supelco 105 m volcol col, .5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
71556	1,1,1-Trichloroethane	0.0060	U
79345	1,1,2,2-Tetrachloroethane	0.0060	U
79005	1,1,2-Trichloroethane	0.0060	U
75343	1,1-Dichloroethane	0.0060	U
75354	1,1-Dichloroethene	0.0060	U
107062	1,2-Dichloroethane	0.0060	U
78875	1,2-Dichloropropane	0.0060	U
110758	2-Chloroethylvinylether	0.0060	U
107028	Acrolein	0.018	U
107131	Acrylonitrile	0.0082	U
71432	Benzene	0.0012	U
75274	Bromodichloromethane	0.0060	U
75252	Bromoform	0.0060	U
74839	Bromomethane	0.0060	U
56235	Carbon tetrachloride	0.0060	U
108907	Chlorobenzene	0.0060	U
75003	Chloroethane	0.0060	U
67663	Chloroform	0.0060	U
74873	Chloromethane	0.0060	U
10061015	Cis-1,3-Dichloropropene	0.0060	U
124481	Dibromochloromethane	0.0060	U
100414	Ethylbenzene	0.0012	U
108383	M&p-Xylenes	0.0024	U
75092	Methylene chloride	0.0060	-0.0042 JB U
95476	O-Xylene	0.0012	U
127184	Tetrachloroethene	0.0060	U
108883	Toluene	0.0012	U
156605	Trans-1,2-Dichloroethene	0.0060	U
10061026	Trans-1,3-Dichloropropene	0.0060	U
79016	Trichloroethene	0.0060	U
75014	Vinyl chloride	0.0060	U

Total Target Concentration 0.0042

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Formle/lf
ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AB20312
Client Id: PG-L-05-120200SO0
Data File: FT4782
Date Analyzed: 8 Dec 2000 11:02
Date Received/Extracted: 12/4/00-NA

Matrix: Soil
Initial Volume: 5g
Final Volume: NA
Dilution Factor: 1
Percent Solids: 84

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<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration mg/Kg</i>
1		unknown	5.460	0.0044 J
2	000541-05-9	Cyclotrisiloxane, hexamethyl-	8.900	0.016 J
3		unknown	9.670	0.0081 J B U
4	000556-67-2	Cyclotetrasiloxane, octamethyl-	11.410	0.011 J
5		unknown	12.850	0.0055 J B U

Total Tentatively Identified Concentration 0.045

A - Indicates an aldol condensate.

J - Indicates an estimated value

B - Indicates the analyte was found in the blank as well as in the sample.

Control File h:\import\113300.bt

Form 1
ORGANICS VOLATILE REPORT

Sample Number: AB20313

Matrix: Soil

Client Id: PG-D-04-120200SO01

Initial Volume: 5g

Data File: FT4824

Final Volume: NA

Date Analyzed: 9 Dec 2000 18:30

Dilution Factor: 1

Date Received/Extracted: 12/4/00-NA

Percent Solids: 85

Column: Supelco 105 m volcol col., 5 mm id, 3.0 um film

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CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
71556	1,1,1-Trichloroethane	0.0059	U
79345	1,1,2,2-Tetrachloroethane	0.0059	U
79005	1,1,2-Trichloroethane	0.0059	U
75343	1,1-Dichloroethane	0.0059	U
75354	1,1-Dichloroethane	0.0059	U
107062	1,2-Dichloroethane	0.0059	U
78875	1,2-Dichloropropane	0.0059	U
110758	2-Chloroethylvinylether	0.0059	U
107028	Acrolein	0.018	U
107131	Acrylonitrile	0.0082	U
71432	Benzene	0.0012	U
75274	Bromodichloromethane	0.0059	U
75252	Bromoform	0.0059	U
74839	Bromomethane	0.0059	U
56235	Carbon tetrachloride	0.0059	U
108907	Chlorobenzene	0.0059	U
75003	Chloroethane	0.0059	U
67663	Chloroform	0.0059	U
74873	Chloromethane	0.0059	U
10061015	Cis-1,3-Dichloropropene	0.0059	U
124481	Dibromochloromethane	0.0059	U
100414	Ethylbenzene	0.0012	U
108383	M&p-Xylenes	0.0024	U
75092	Methylene chloride	0.0059	0.0037 JB U
95476	O-Xylene	0.0012	U
127184	Tetrachloroethene	0.0059	U
108883	Toluene	0.0012	U
156605	Trans-1,2-Dichloroethene	0.0059	U
10061026	Trans-1,3-Dichloropropene	0.0059	U
79016	Trichloroethene	0.0059	U
75014	Vinyl chloride	0.0059	U

Total Target Concentration 0.0037

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Formle/If
ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

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Sample Number: AB20313	Matrix: Soil
Client Id: PG-D-04-120200SO0	Initial Volume: 5g
Data File: FT4824	Final Volume: NA
Date Analyzed: 9 Dec 2000 18:30	Dilution Factor: 1
Date Received/Extracted: 12/4/00-NA	Percent Solids: 85

Hit#	Cas Number	Compound	RT	Concentration mg/Kg
1		unknown	9.480	0.0067 J
2		unknown	9.640	0.0056 J A U
3		unknown	12.820	0.0052 J B U

Total Tentatively Identified Concentration 0.018

A - Indicates an aldol condensate.
J - Indicates an estimated value
B - Indicates the analyte was found in the blank as well as in the sample.

Control File h:\import\113300.txt

Form 1
ORGANICS VOLATILE REPORT

Sample Number: AB20314

Matrix: Soil

Client Id: PG-D-4A-120200SO05

Initial Volume: 5g

Data File: FT4784

Final Volume: NA

Date Analyzed: 8 Dec 2000 11:54

Dilution Factor: 1

Date Received/Extracted: 12/4/00-NA

Percent Solids: 77

Column: Supelco 105 m volcol col, .5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
71556	1,1,1-Trichloroethane	0.0065	U
79345	1,1,2,2-Tetrachloroethane	0.0065	U
79005	1,1,2-Trichloroethane	0.0065	U
75343	1,1-Dichloroethane	0.0065	U
75354	1,1-Dichloroethene	0.0065	U
107062	1,2-Dichloroethane	0.0065	U
78875	1,2-Dichloropropane	0.0065	U
110758	2-Chloroethylvinylether	0.0065	U
107028	Acrolein	0.019	U
107131	Acrylonitrile	0.0090	U
71432	Benzene	0.0013	U
75274	Bromodichloromethane	0.0065	U
75252	Bromoform	0.0065	U
74839	Bromomethane	0.0065	U
56235	Carbon tetrachloride	0.0065	U
108907	Chlorobenzene	0.0065	U
75003	Chloroethane	0.0065	U
67663	Chloroform	0.0065	U
74873	Chloromethane	0.0065	U
10061015	Cis-1,3-Dichloropropene	0.0065	U
124481	Dibromochloromethane	0.0065	U
100414	Ethylbenzene	0.0013	U
108383	M&p-Xylenes	0.0026	U
75092	Methylene chloride	0.0065	0.0043 JB U
95476	O-Xylene	0.0013	U
127184	Tetrachloroethene	0.0065	U
108883	Toluene	0.0013	U
156805	Trans-1,2-Dichloroethene	0.0065	U
10061026	Trans-1,3-Dichloropropene	0.0065	U
79016	Trichloroethene	0.0065	U
75014	Vinyl chloride	0.0065	U

Total Target Concentration 0.0043

- U - Indicates the compound was analyzed but not detected.*
- J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
- B - Indicates the analyte was found in the blank as well as in the sample.*
- E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

Form 1
ORGANICS VOLATILE REPORT

Sample Number: AB20315

Matrix: Soil

Client Id: PG-RR10-120200SO02

Initial Volume: 5g

Data File: FT4789

Final Volume: NA

Date Analyzed: 8 Dec 2000 14:04

Dilution Factor: 1

Date Received/Extracted: 12/4/00-NA

Percent Solids: 74

Column: Supelco 105 m vocol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
71556	1,1,1-Trichloroethane	0.0068	U
79345	1,1,2,2-Tetrachloroethane	0.0068	U
79005	1,1,2-Trichloroethane	0.0068	U
75343	1,1-Dichloroethane	0.0068	U
75354	1,1-Dichloroethene	0.0068	U
107062	1,2-Dichloroethane	0.0068	U
78875	1,2-Dichloropropane	0.0068	U
110758	2-Chloroethylvinylether	0.0068	U
107028	Acrolein	0.020	U
107131	Acrylonitrile	0.0094	U
71432	Benzene	0.0014	U
75274	Bromodichloromethane	0.0068	U
75252	Bromoform	0.0068	U
74839	Bromomethane	0.0068	U
56235	Carbon tetrachloride	0.0068	U
108907	Chlorobenzene	0.0068	U
75003	Chloroethane	0.0068	U
67663	Chloroform	0.0068	U
74873	Chloromethane	0.0068	U
10061015	Cis-1,3-Dichloropropene	0.0068	U
124481	Dibromochloromethane	0.0068	U
100414	Ethylbenzene	0.0014	U
108383	M&p-Xylenes	0.0027	U
75092	Methylene chloride	0.0068	0.0047 JB U
95476	O-Xylene	0.0014	U
127184	Tetrachloroethene	0.0068	U
108883	Toluene	0.0014	U
156605	Trans-1,2-Dichloroethene	0.0068	U
10061026	Trans-1,3-Dichloropropene	0.0068	U
79016	Trichloroethene	0.0068	U
75014	Vinyl chloride	0.0068	U

Total Target Concentration 0.0047

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Form 1e/1f
ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AB20315
Client Id: PG-RR10-120200SO0
Data File: FT4789
Date Analyzed: 8 Dec 2000 14:04
Date Received/Extracted: 12/4/00-NA

Matrix: Soil
Initial Volume: 5g
Final Volume: NA
Dilution Factor: 1
Percent Solids: 74

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration mg/Kg</i>
1		unknown	9.450	0.0091 J
2		unknown	9.500	0.014 J B U
3		unknown	9.580	0.012 J
4		unknown	9.660	0.0083 J B U
5		unknown	12.850	0.0057 J B U
6		unknown	14.130	0.0049 J

Total Tentatively Identified Concentration 0.054

A - Indicates an aldol condensate.

J - Indicates an estimated value

B - Indicates the analyte was found in the blank as well as in the sample.

Control File h:\import\113300.txt

Form1
ORGANICS VOLATILE REPORT

Sample Number: AB20316

Matrix: Soil

Client Id: PG-RR10-120200SO05

Initial Volume: 5g

Data File: FT4792

Final Volume: NA

Date Analyzed: 8 Dec 2000 15:21

Dilution Factor: 1

Date Received/Extracted: 12/4/00-NA

Percent Solids: 76

Column: Supelco 105 m volcol col., 5 mm id, 3.0 um film

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CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
71556	1,1,1-Trichloroethane	0.0066	U
79345	1,1,2,2-Tetrachloroethane	0.0066	U
79005	1,1,2-Trichloroethane	0.0066	U
75343	1,1-Dichloroethane	0.0066	U
75354	1,1-Dichloroethene	0.0066	U
107062	1,2-Dichloroethane	0.0066	U
78875	1,2-Dichloropropane	0.0066	U
110758	2-Chloroethylvinylether	0.0066	U
107028	Acrolein	0.020	U
107131	Acrylonitrile	0.0091	U
71432	Benzene	0.0013	U
75274	Bromodichloromethane	0.0066	U
75252	Bromoform	0.0066	U
74839	Bromomethane	0.0066	U
56235	Carbon tetrachloride	0.0066	U
108907	Chlorobenzene	0.0066	U
75003	Chloroethane	0.0066	U
67663	Chloroform	0.0066	U
74873	Chloromethane	0.0066	U
10061015	Cis-1,3-Dichloropropene	0.0066	U
124481	Dibromochloromethane	0.0066	U
100414	Ethylbenzene	0.0013	U
108383	M&p-Xylenes	0.0026	U
75092	Methylene chloride	0.0066	0.0017 J 0.0067 B - U
95476	O-Xylene	0.0013	U
127184	Tetrachloroethene	0.0066	U
108883	Toluene	0.0013	U
156605	Trans-1,2-Dichloroethene	0.0066	U
10061026	Trans-1,3-Dichloropropene	0.0066	U
79016	Trichloroethene	0.0066	U
75014	Vinyl chloride	0.0066	U

Total Target Concentration 0.0084

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Form1
ORGANICS VOLATILE REPORT

Sample Number: AB20317

Matrix: Soil

Client Id: PG-FILL08-120200SO01

Initial Volume: 5g

Data File: FT4785

Final Volume: NA

Date Analyzed: 8 Dec 2000 12:20

Dilution Factor: 1

Date Received/Extracted: 12/4/00-NA

Percent Solids: 84

Column: Supelco 105 m vocol col, .5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
71556	1,1,1-Trichloroethane	0.0060	U
79345	1,1,2,2-Tetrachloroethane	0.0060	U
79005	1,1,2-Trichloroethane	0.0060	U
75343	1,1-Dichloroethane	0.0060	U
75354	1,1-Dichloroethene	0.0060	U
107062	1,2-Dichloroethane	0.0060	U
78875	1,2-Dichloropropane	0.0060	U
110758	2-Chloroethylvinylether	0.0060	U
107028	Acrolein	0.018	U
107131	Acrylonitrile	0.0082	U
71432	Benzene	0.0012	U
75274	Bromodichloromethane	0.0060	U
75252	Bromoform	0.0060	U
74839	Bromomethane	0.0060	U
56235	Carbon tetrachloride	0.0060	U
108907	Chlorobenzene	0.0060	U
75003	Chloroethane	0.0060	U
67663	Chloroform	0.0060	U
74873	Chloromethane	0.0060	U
10061015	Cis-1,3-Dichloropropene	0.0060	U
124481	Dibromochloromethane	0.0060	U
100414	Ethylbenzene	0.0012	U
108383	M&p-Xylenes	0.0024	U
75092	Methylene chloride	0.0060	0.0037 JB U
95476	O-Xylene	0.0012	U
127184	Tetrachloroethene	0.0060	U
108883	Toluene	0.0012	U
156605	Trans-1,2-Dichloroethene	0.0060	U
10061026	Trans-1,3-Dichloropropene	0.0060	U
79016	Trichloroethene	0.0060	U
75014	Vinyl chloride	0.0060	U

Total Target Concentration 0.0037

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Form 1e/1f
ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

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<i>Sample Number:</i> AB20317	<i>Matrix:</i> Soil
<i>Client Id:</i> PG-FILL08-120200S	<i>Initial Volume:</i> 5g
<i>Data File:</i> FT4785	<i>Final Volume:</i> NA
<i>Date Analyzed:</i> 8 Dec 2000 12:20	<i>Dilution Factor:</i> 1
<i>Date Received/Extracted:</i> 12/4/00-NA	<i>Percent Solids:</i> 84

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration mg/Kg</i>
1		unknown	5.460	0.0036 J
2		unknown	9.610	0.013 J BU
3		unknown	12.850	0.0053 J BU

Total Tentatively Identified Concentration 0.022

A - Indicates an aldol condensate.
J - Indicates an estimated value
B - Indicates the analyte was found in the blank as well as in the sample.

Control File h:\import\113300.txt

Form 1
ORGANICS VOLATILE REPORT

Sample Number: AB20318

Matrix: Soil

Client Id: PG-FILL08-120200SO04

Initial Volume: 5g

Data File: FT4786

Final Volume: NA

Date Analyzed: 8 Dec 2000 12:46

Dilution Factor: 1

Date Received/Extracted: 12/4/00-NA

Percent Solids: 48

Column: Supelco 105 m volcol col., 5 mm id, 3.0 um film

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CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
71556	1,1,1-Trichloroethane	0.010	U
79345	1,1,2,2-Tetrachloroethane	0.010	U
79005	1,1,2-Trichloroethane	0.010	U
75343	1,1-Dichloroethane	0.010	U
75354	1,1-Dichloroethene	0.010	U
107062	1,2-Dichloroethane	0.010	U
78875	1,2-Dichloropropane	0.010	U
110758	2-Chloroethylvinylether	0.010	U
107028	Acrolein	0.031	U
107131	Acrylonitrile	0.014	U
71432	Benzene	0.0021	U
75274	Bromodichloromethane	0.010	U
75252	Bromoform	0.010	U
74839	Bromomethane	0.010	U
56235	Carbon tetrachloride	0.010	U
108907	Chlorobenzene	0.010	U
75003	Chloroethane	0.010	U
67663	Chloroform	0.010	U
74873	Chloromethane	0.010	U
10061015	Cis-1,3-Dichloropropene	0.010	U
124481	Dibromochloromethane	0.010	U
100414	Ethylbenzene	0.0021	U
108383	M&p-Xylenes	0.0042	U
75092	Methylene chloride	0.010	0.0069 JB U
95476	O-Xylene	0.0021	U
127184	Tetrachloroethene	0.010	U
108883	Toluene	0.0021	U
156605	Trans-1,2-Dichloroethene	0.010	U
10061026	Trans-1,3-Dichloropropene	0.010	U
79016	Trichloroethene	0.010	U
75014	Vinyl chloride	0.010	U

Total Target Concentration 0.0069

- U - Indicates the compound was analyzed but not detected.
- J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
- B - Indicates the analyte was found in the blank as well as in the sample.
- E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Form I
ORGANICS VOLATILE REPORT

Sample Number: AB20319

Matrix: Soil

Client Id: PG-H/R-01-120200SO01

Initial Volume: 5g

Data File: FT4787

Final Volume: NA

Date Analyzed: 8 Dec 2000 13:12

Dilution Factor: 1

Date Received/Extracted: 12/4/00-NA

Percent Solids: 73

Column: Supelco 105 m volcol col., 5 mm id, 3.0 um film



CAS #	Compound	PQLMDL	Concentration (Units: mg/Kg)
71556	1,1,1-Trichloroethane	0.0068	U
79345	1,1,2,2-Tetrachloroethane	0.0068	U
79005	1,1,2-Trichloroethane	0.0068	U
75343	1,1-Dichloroethane	0.0068	U
75354	1,1-Dichloroethene	0.0068	U
107062	1,2-Dichloroethane	0.0068	U
78875	1,2-Dichloropropane	0.0068	U
110758	2-Chloroethylvinylether	0.0068	U
107028	Acrolein	0.021	U
107131	Acrylonitrile	0.0095	U
71432	Benzene	0.0014	U
75274	Bromodichloromethane	0.0068	U
75252	Bromoform	0.0068	U
74839	Bromomethane	0.0068	U
56235	Carbon tetrachloride	0.0068	U
108907	Chlorobenzene	0.0068	U
75003	Chloroethane	0.0068	U
67663	Chloroform	0.0068	U
74873	Chloromethane	0.0068	U
10061015	Cis-1,3-Dichloropropene	0.0068	U
124481	Dibromochloromethane	0.0068	U
100414	Ethylbenzene	0.0014	U
108383	M&p-Xylenes	0.0027	U
75092	Methylene chloride	0.0068	0.0035 JB U
95476	O-Xylene	0.0014	U
127184	Tetrachloroethene	0.0068	U
108883	Toluene	0.0014	U
156605	Trans-1,2-Dichloroethene	0.0068	U
10061026	Trans-1,3-Dichloropropene	0.0068	U
79016	Trichloroethene	0.0068	U
75014	Vinyl chloride	0.0068	U

Total Target Concentration 0.0035

- U - Indicates the compound was analyzed but not detected.
- J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
- B - Indicates the analyte was found in the blank as well as in the sample.
- E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Formle/If
ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

402

Sample Number: AB20319
Client Id: PG-H/R-01-120200S
Data File: FT4787
Date Analyzed: 8 Dec 2000 13:12
Date Received/Extracted: 12/4/00-NA

Matrix: Soil
Initial Volume: 5g
Final Volume: NA
Dilution Factor: 1
Percent Solids: 73

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration mg/Kg</i>
1		unknown	5.460	0.0042 J
2		unknown	9.670	0.0063 J B U
3		unknown	12.850	0.0062 J B U

Total Tentatively Identified Concentration 0.017

A - Indicates an aldol condensate.
J - Indicates an estimated value
B - Indicates the analyte was found in the blank as well as in the sample.

Control File h:\import\113300.bt

Form I
ORGANICS VOLATILE REPORT

Sample Number: AB20320 **Matrix:** Soil
Client Id: PG-H/R-01-120200SO02 **Initial Volume:** 5g
Data File: FT4788 **Final Volume:** NA
Date Analyzed: 8 Dec 2000 13:38 **Dilution Factor:** 1
Date Received/Extracted: 12/4/00-NA **Percent Solids:** 50
Column: Supelco 105 m volcol col, 5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
71556	1,1,1-Trichloroethane	0.010	U
79345	1,1,2,2-Tetrachloroethane	0.010	U
79005	1,1,2-Trichloroethane	0.010	U
75343	1,1-Dichloroethane	0.010	U
75354	1,1-Dichloroethene	0.010	U
107062	1,2-Dichloroethane	0.010	U
78875	1,2-Dichloropropane	0.010	U
110758	2-Chloroethylvinylether	0.010	U
107028	Acrolein	0.030	U
107131	Acrylonitrile	0.014	U
71432	Benzene	0.0020	U
75274	Bromodichloromethane	0.010	U
75252	Bromoform	0.010	U
74839	Bromomethane	0.010	U
56235	Carbon tetrachloride	0.010	U
108907	Chlorobenzene	0.010	U
75003	Chloroethane	0.010	U
67663	Chloroform	0.010	U
74873	Chloromethane	0.010	U
10061015	Cis-1,3-Dichloropropene	0.010	U
124481	Dibromochloromethane	0.010	U
100414	Ethylbenzene	0.0020	U
108383	M&p-Xylenes	0.0040	U
75092	Methylene chloride	0.010	0.0068 JB U
95476	O-Xylene	0.0020	U
127184	Tetrachloroethene	0.010	U
108883	Toluene	0.0020	U
156605	Trans-1,2-Dichloroethene	0.010	U
10061026	Trans-1,3-Dichloropropene	0.010	U
79016	Trichloroethene	0.010	U
75014	Vinyl chloride	0.010	U

Total Target Concentration 0.0068

- U - Indicates the compound was analyzed but not detected.
- J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
- B - Indicates the analyte was found in the blank as well as in the sample.
- E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Formle/1f
ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AB20320
Client Id: PG-H/R-01-120200S
Data File: FT4788
Date Analyzed: 8 Dec 2000 13:38
Date Received/Extracted: 12/4/00-NA

Matrix: Soil
Initial Volume: 5g
Final Volume: NA
Dilution Factor: 1
Percent Solids: 50

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration mg/Kg</i>
1		unknown	9.470	0.021 <i>J</i>
2		unknown	9.530	0.013 <i>B U</i>
3		unknown	9.600	0.018 <i>B U</i>
4		unknown	9.680	0.014 <i>B U</i>
5		unknown	12.850	0.0069 <i>S U</i>

Total Tentatively Identified Concentration 0.073

A - Indicates an aldol condensate.

J - Indicates an estimated value

B - Indicates the analyte was found in the blank as well as in the sample.

Control File h:\import\113300.bt

Form 1
ORGANICS SEMIVOLATILE REPORT

Sample Number: AB20277

Matrix: Soil

Client Id: PG-G-05-120100SO03

Initial Volume: 30g

Data File: FS3671

Final Volume: 1ml

Date Analyzed: 8 Dec 2000 20:55

Dilution Factor: 1

Date Received/Extracted: 12/4/2000-12/8/2000

Percent Solids: 81

Column: Supelco 105 m volcol col, .5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
120821	1,2,4-Trichlorobenzene	0.21	U
95501	1,2-Dichlorobenzene	0.21	U
122667	1,2-Diphenylhydrazine	0.041	U
541731	1,3-Dichlorobenzene	0.21	U
106467	1,4-Dichlorobenzene	0.21	U
88062	2,4,6-Trichlorophenol	0.21	U
120832	2,4-Dichlorophenol	0.21	U
105679	2,4-Dimethylphenol	0.21	U
51285	2,4-Dinitrophenol	0.41	U
121142	2,4-Dinitrotoluene	0.21	U
606202	2,6-Dinitrotoluene	0.21	U
91587	2-Chloronaphthalene	0.21	U
95578	2-Chlorophenol	0.21	U
88755	2-Nitrophenol	0.21	U
91941	3,3'-Dichlorobenzidine	0.21	U
121142	4,6-Dinitro-2-methylphenol	0.21	U
101553	4-Bromophenyl-phenylether	0.21	U
59507	4-Chloro-3-methylphenol	0.21	U
7005723	4-Chlorophenyl-phenylether	0.21	U
100027	4-Nitrophenol	0.21	U
83329	Acenaphthene	0.21	U
208968	Acenaphthylene	0.21	U
120127	Anthracene	0.21	U
92875	Benzidine	0.41	U
56553	Benzo[a]anthracene	0.21	U
50328	Benzo[a]pyrene	0.21	0.14 J
205992	Benzo[b]fluoranthene	0.21	U
191242	Benzo[g,h,i]perylene	0.21	U
207089	Benzo[k]fluoranthene	0.21	U
111911	Bis(2-Chloroethoxy)methane	0.21	U
111444	Bis(2-Chloroethyl)Ether	0.21	U
108601	Bis(2-Chloroisopropyl)ether	0.21	U
117817	Bis(2-Ethylhexyl)phthalate	0.21	0.093 JB U
85687	Butylbenzylphthalate	0.21	U
218019	Chrysene	0.21	U
117840	Di-n-octylphthalate	0.21	0.058 J
84742	Di-n-butylphthalate	0.21	0.058 J
53703	Dibenzof[a,h]Anthracene	0.21	U
84662	Diethylphthalate	0.21	U
131113	Dimethylphthalate	0.21	U
206440	Fluoranthene	0.21	0.080 J
86737	Fluorene	0.21	0.088 J
118741	Hexachlorobenzene	0.21	U
87683	Hexachlorobutadiene	0.21	U
77474	Hexachlorocyclopentadiene	0.62	U
67721	Hexachloroethane	0.21	U
193395	Indeno[1,2,3-cd]pyrene	0.21	U
78591	Isophorone	0.21	U
621647	N-Nitroso-Di-N-Propylamine	0.21	U
62759	N-Nitrosodimethylamine	0.21	U
86306	N-Nitrosodiphenylamine	0.21	U
91203	Naphthalene	0.21	U
98953	Nitrobenzene	0.21	U
87865	Pentachlorophenol	0.21	U
85018	Phenanthrene	0.21	0.052 J
108952	Phenol	0.21	U
129000	Pyrene	0.21	U

Total Target Concentration 0.57

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Form 1
ORGANICS SEMIVOLATILE REPORT

Sample Number: AB20278(2X) Matrix: Soil
 Client Id: PG-G-06-120100SO03 Initial Volume: 30g
 Data File: FU2694 Final Volume: 4ml
 Date Analyzed: 11 Dec 2000 16:32 Dilution Factor: 2
 Date Received/Extracted: 12/4/2000-12/8/2000 Percent Solids: 86
 Column: Supelco 105 m volcol col,.5 mm id, 3.0 um film

5
5

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
120821	1,2,4-Trichlorobenzene	1.6	U
95501	1,2-Dichlorobenzene	1.6	U
122667	1,2-Diphenylhydrazine	0.31	U
541731	1,3-Dichlorobenzene	1.6	U
106467	1,4-Dichlorobenzene	1.6	U
88062	2,4,6-Trichlorophenol	1.6	U
120832	2,4-Dichlorophenol	1.6	U
105679	2,4-Dimethylphenol	1.6	U
51285	2,4-Dinitrophenol	3.1	U
121142	2,4-Dinitrotoluene	1.6	U
606202	2,6-Dinitrotoluene	1.6	U
91587	2-Chloronaphthalene	1.6	U
95578	2-Chlorophenol	1.6	U
88755	2-Nitrophenol	1.6	U
91941	3,3'-Dichlorobenzidine	1.6	U
121142	4,6-Dinitro-2-methylphenol	1.6	U
101553	4-Bromophenyl-phenylether	1.6	U
59507	4-Chloro-3-methylphenol	1.6	U
7005723	4-Chlorophenyl-phenylether	1.6	U
100027	4-Nitrophenol	1.6	U
83329	Acenaphthene	1.6	U
208968	Acenaphthylene	1.6	2.3
120127	Anthracene	1.6	0.48 J
92875	Benzidine	3.1	U
56553	Benzo[a]anthracene	1.6	0.85 J
50328	Benzo[a]pyrene	1.6	1.2 J
205992	Benzo[b]fluoranthene	1.6	2.2
191242	Benzo[g,h,i]perylene	1.6	1.8
207089	Benzo[k]fluoranthene	1.6	1.1 J
111911	Bis(2-Chloroethoxy)methane	1.6	U
111444	Bis(2-Chloroethyl)Ether	1.6	U
108601	Bis(2-Chloroisopropyl)ether	1.6	U
117817	Bis(2-Ethylhexyl)phthalate	1.6	0.34 JB U
85687	Butylbenzylphthalate	1.6	U
218019	Chrysene	1.6	1.2 J
117840	Di-n-octylphthalate	1.6	0.71 J U
84742	Di-n-butylphthalate	1.6	U
53703	Dibenz[a,h]Anthracene	1.6	U
84662	Diethylphthalate	1.6	U
131113	Dimethylphthalate	1.6	U
206440	Fluoranthene	1.6	0.67 J
86737	Fluorene	1.6	U
118741	Hexachlorobenzene	1.6	U
87683	Hexachlorobutadiene	1.6	U
77474	Hexachlorocyclopentadiene	4.7	U
67721	Hexachloroethane	1.6	U
193395	Indeno[1,2,3-cd]pyrene	1.6	1.0 J
78591	Isophorone	1.6	U
621647	N-Nitroso-Di-N-Propylamine	1.6	U
62759	N-Nitrosodimethylamine	1.6	U
86306	N-Nitrosodiphenylamine	1.6	U
91203	Naphthalene	1.6	U
98953	Nitrobenzene	1.6	U
87865	Pentachlorophenol	1.6	U
85018	Phenanthrene	1.6	0.51 J
108952	Phenol	1.6	U
129000	Pyrene	1.6	2.5

Total Target Concentration 17

U - Indicates the compound was analyzed but not detected.
 J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
 B - Indicates the analyte was found in the blank as well as in the sample.
 E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Formle/If
ORGANICS SEMIVOLATILE REPORT
Tentatively Identified Compounds

u/bn
 msh
 u/bn

Sample Number: AB20278(2X) **Matrix:** Soil
Client Id: PG-G-06-120100SO0 **Initial Volume:** 30g
Data File: FU2694 **Final Volume:** 4ml
Date Analyzed: 11 Dec 2000 16:32 **Dilution Factor:** 2
Date Received/Extracted: 12/4/2000-12/8/2000 **Percent Solids:** 86

Hit#	Cas Number	Compound	RT	Concentration mg/Kg
1		unknown	3.100	2.2 J U
2	000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.400	3.3 J AB U
3	000629-20-9	1,3,5,7-Cyclooctatetraene	4.000	5.4 J
4		unknown	4.280	1.5 J
5	000100-80-1	Benzene, 1-ethenyl-3-methyl-	5.210	5.6 J
6	000300-57-2	Benzene, 2-propenyl-	5.260	2.6 J
7	000095-13-6	1H-Indene	5.740	2.7 J
8	002039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	6.240	2.3 J
9	002039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	6.300	1.4 J
10	007214-61-1	Benzene, (1-nitroethyl)-	6.550	10 J
11	000767-59-9	1H-Indene, 1-methyl-	6.840	2.3 J
12	000527-84-4	Benzene, 1-methyl-2-(1-methylethyl)-	7.430	6.4 J
13	000527-84-4	Benizene, 1-methyl-2-(1-methylethyl)-	7.500	7.8 J
14		unknown	8.070	1.9 J
15		unknown	8.200	2.6 J
16		unknown	8.240	1.6 J
17	004706-90-5	Benzene, 1,3-dimethyl-5-(1-methylethyl)-	8.340	1.9 J
18	054411-21-1	Benzene, (1-chloroethyl)dimethyl-	8.490	1.5 J
19		unknown	8.790	2.1 J
20	000827-54-3	Naphthalene, 2-ethenyl-	9.130	2.2 J
21		unknown	9.940	1.3 J
22		unknown	10.480	1.6 J
23	006975-96-0	Decane, 2-methyl-	10.850	2.7 J
24		unknown	10.890	1.4 J
25	002381-21-7	Pyrene, 1-methyl-	14.190	2.6 J

Total Tentatively Identified Concentration 110

A - Indicates an aldol condensate.
J - Indicates an estimated value
B - Indicates the analyte was found in the blank as well as in the sample.

Control File h:\mport\64115.txt

Form 1
ORGANICS SEMIVOLATILE REPORT

Sample Number: AB20280

Matrix: Soil

Client Id: PG-G-5A-120100SO03

Initial Volume: 30g

Data File: FU2665

Final Volume: 1ml

Date Analyzed: 10 Dec 2000 15:23

Dilution Factor: 1

Date Received/Extracted: 12/4/2000-12/8/2000

Percent Solids: 81

Column: Supelco 105 m volcol col., 5 mm id, 3.0 um film

421

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
120821	1,2,4-Trichlorobenzene	0.21	U
95501	1,2-Dichlorobenzene	0.21	U
122667	1,2-Diphenylhydrazine	0.041	U
541731	1,3-Dichlorobenzene	0.21	U
106467	1,4-Dichlorobenzene	0.21	U
88062	2,4,6-Trichlorophenol	0.21	U
120832	2,4-Dichlorophenol	0.21	U
105679	2,4-Dimethylphenol	0.21	U
51285	2,4-Dinitrophenol	0.41	U
121142	2,4-Dinitrotoluene	0.21	U
606202	2,6-Dinitrotoluene	0.21	U
91587	2-Chloronaphthalene	0.21	U
95578	2-Chlorophenol	0.21	U
88755	2-Nitrophenol	0.21	U
91941	3,3'-Dichlorobenzidine	0.21	U
121142	4,6-Dinitro-2-methylphenol	0.21	U
101553	4-Bromophenyl-phenylether	0.21	U
59507	4-Chloro-3-methylphenol	0.21	U
7005723	4-Chlorophenyl-phenylether	0.21	U
100027	4-Nitrophenol	0.21	U
83329	Acenaphthene	0.21	U
208968	Acenaphthylene	0.21	U
120127	Anthracene	0.21	U
92875	Benzidine	0.41	U
56553	Benzo[a]anthracene	0.21	U
50328	Benzo[a]pyrene	0.21	U
205992	Benzo[b]fluoranthene	0.21	U
191242	Benzo[g,h,i]perylene	0.21	U
207089	Benzo[k]fluoranthene	0.21	U
111911	Bis(2-Chloroethoxy)methane	0.21	U
111444	Bis(2-Chloroethyl)Ether	0.21	U
108601	Bis(2-Chloroisopropyl)ether	0.21	U
117817	Bis(2-Ethylhexyl)phthalate	0.21	U
85687	Butylbenzylphthalate	0.21	U
218019	Chrysene	0.21	U
117840	Di-n-octylphthalate	0.21	U
84742	Di-n-butylphthalate	0.21	U
53703	Dibenzo[a,h]Anthracene	0.21	U
84662	Diethylphthalate	0.21	U
131113	Dimethylphthalate	0.21	U
206440	Fluoranthene	0.21	U
86737	Fluorene	0.21	U
118741	Hexachlorobenzene	0.21	U
87683	Hexachlorobutadiene	0.21	U
77474	Hexachlorocyclopentadiene	0.62	U
67721	Hexachloroethane	0.21	U
193395	Indeno[1,2,3-cd]pyrene	0.21	U
78591	Isophorone	0.21	U
621647	N-Nitroso-Di-N-Propylamine	0.21	U
62759	N-Nitrosodimethylamine	0.21	U
86306	N-Nitrosodiphenylamine	0.21	U
91203	Naphthalene	0.21	U
98953	Nitrobenzene	0.21	U
87865	Pentachlorophenol	0.21	U
85018	Phenanthrene	0.21	U
108952	Phenol	0.21	U
129000	Pyrene	0.21	U

0.12 JB C
0.081 J C

Total Target Concentration 0.3

- U - Indicates the compound was analyzed but not detected.
- J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
- B - Indicates the analyte was found in the blank as well as in the sample.
- E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Form I
ORGANICS SEMIVOLATILE REPORT

425

Sample Number: AB20281

Matrix: Soil

Client Id: PG-FS-7-120100SO02

Initial Volume: 30g

Data File: FU2677

Final Volume: 1ml

Date Analyzed: 10 Dec 2000 21:06

Dilution Factor: 1

Date Received/Extracted: 12/4/2000-12/8/2000

Percent Solids: 79

Column: Supelco 105 m volcol col, .5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
120821	1,2,4-Trichlorobenzene	0.21	U
95501	1,2-Dichlorobenzene	0.21	U
122667	1,2-Diphenylhydrazine	0.042	U
541731	1,3-Dichlorobenzene	0.21	U
106467	1,4-Dichlorobenzene	0.21	U
88062	2,4,6-Trichlorophenol	0.21	U
120832	2,4-Dichlorophenol	0.21	U
105679	2,4-Dimethylphenol	0.21	U
51285	2,4-Dinitrophenol	0.42	U
121142	2,4-Dinitrotoluene	0.21	U
606202	2,6-Dinitrotoluene	0.21	U
91587	2-Chloronaphthalene	0.21	U
95578	2-Chlorophenol	0.21	U
88755	2-Nitrophenol	0.21	U
91941	3,3'-Dichlorobenzidine	0.21	U
121142	4,6-Dinitro-2-methylphenol	0.21	U
101553	4-Bromophenyl-phenylether	0.21	U
59507	4-Chloro-3-methylphenol	0.21	U
7005723	4-Chlorophenyl-phenylether	0.21	U
100027	4-Nitrophenol	0.21	U
83329	Acenaphthene	0.21	U
208968	Acenaphthylene	0.21	0.081 J
120127	Anthracene	0.21	0.052 J
92875	Benidine	0.42	U
56553	Benzo(a)anthracene	0.21	0.34
50328	Benzo(a)pyrene	0.21	0.34
205992	Benzo(b)fluoranthene	0.21	0.54
191242	Benzo(g,h,i)perylene	0.21	0.12 J
207089	Benzo(k)fluoranthene	0.21	0.32
111911	Bis(2-Chloroethoxy)methane	0.21	U
111444	Bis(2-Chloroethyl)Ether	0.21	U
108601	Bis(2-Chloroisopropyl)ether	0.21	U
117817	Bis(2-Ethylhexyl)phthalate	0.21	-0.14 JB U
85687	Butylbenzylphthalate	0.21	U
218019	Chrysene	0.21	0.29
117840	Di-n-octylphthalate	0.21	0.13 J U
84742	Di-n-butylphthalate	0.21	0.049 J
53703	Dibenzo(a,h)Anthracene	0.21	U
84662	Diethylphthalate	0.21	U
131113	Dimethylphthalate	0.21	U
206440	Fluoranthene	0.21	0.36
86737	Fluorene	0.21	U
118741	Hexachlorobenzene	0.21	U
87683	Hexachlorobutadiene	0.21	U
77474	Hexachlorocyclopentadiene	0.63	U
67721	Hexachloroethane	0.21	U
193395	Indeno(1,2,3-cd)pyrene	0.21	0.14 J
78591	Isophorone	0.21	U
621647	N-Nitroso-Di-N-Propylamine	0.21	U
62759	N-Nitrosodimethylamine	0.21	U
86306	N-Nitrosodiphenylamine	0.21	U
91203	Naphthalene	0.21	0.18 J
98953	Nitrobenzene	0.21	U
87865	Pentachlorophenol	0.21	U
85018	Phenanthrene	0.21	0.23
108952	Phenol	0.21	U
129000	Pyrene	0.21	0.33

Total Target Concentration 3.6

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Form 1
ORGANICS SEMIVOLATILE REPORT

003

Sample Number: AB20283(5X) Matrix: Soil
 Client Id: PG-D-01-120100SO01 Initial Volume: 30g
 Data File: FU2691 Final Volume: 3ml
 Date Analyzed: 11 Dec 2000 15:15 Dilution Factor: 5
 Date Received/Extracted: 12/4/2000-12/8/2000 Percent Solids: 82
 Column: Supelco 105 m volcol col., 5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
120821	1,2,4-Trichlorobenzene	3.0	U
95501	1,2-Dichlorobenzene	3.0	U
122667	1,2-Diphenylhydrazine	0.61	U
541731	1,3-Dichlorobenzene	3.0	U
106467	1,4-Dichlorobenzene	3.0	U
88062	2,4,6-Trichlorophenol	3.0	U
120832	2,4-Dichlorophenol	3.0	U
105679	2,4-Dimethylphenol	3.0	U
51285	2,4-Dinitrophenol	6.1	U
121142	2,4-Dinitrotoluene	3.0	U
606202	2,6-Dinitrotoluene	3.0	U
91587	2-Chloronaphthalene	3.0	U
95578	2-Chlorophenol	3.0	U
88755	2-Nitrophenol	3.0	U
91941	3,3'-Dichlorobenzidine	3.0	U
121142	4,6-Dinitro-2-methylphenol	3.0	U
101553	4-Bromophenyl-phenylether	3.0	U
59507	4-Chloro-3-methylphenol	3.0	U
7005723	4-Chlorophenyl-phenylether	3.0	U
100027	4-Nitrophenol	3.0	U
83329	Acenaphthene	3.0	U
208968	Acenaphthylene	3.0	U
120127	Anthracene	3.0	U
92875	Benzidine	6.1	U
56553	Benzo[a]anthracene	3.0	2.0 J
50328	Benzo[a]pyrene	3.0	2.0 J
205992	Benzo[b]fluoranthene	3.0	3.3
191242	Benzo[g,h,i]perylene	3.0	5.1
207089	Benzo[k]fluoranthene	3.0	1.8 J
111911	Bis(2-Chloroethoxy)methane	3.0	U
111444	Bis(2-Chloroethyl)Ether	3.0	U
108601	Bis(2-Chloroisopropyl)ether	3.0	U
117817	Bis(2-Ethylhexyl)phthalate	3.0	U
85687	Butylbenzylphthalate	3.0	U
218019	Chrysene	3.0	2.3 J
117840	Di-n-octylphthalate	3.0	U
84742	Di-n-butylphthalate	3.0	U
53703	Dibenzo[a,h]Anthracene	3.0	U
84662	Diethylphthalate	3.0	U
131113	Dimethylphthalate	3.0	U
206440	Fluoranthene	3.0	0.83 J
86737	Fluorene	3.0	U
118741	Hexachlorobenzene	3.0	U
87683	Hexachlorobutadiene	3.0	U
77474	Hexachlorocyclopentadiene	9.1	U
67721	Hexachloroethane	3.0	U
193395	Indeno[1,2,3-cd]pyrene	3.0	0.84 J
78591	isophorone	3.0	U
621647	N-Nitroso-Di-N-Propylamine	3.0	U
62759	N-Nitrosodimethylamine	3.0	U
86306	N-Nitrosodiphenylamine	3.0	U
91203	Naphthalene	3.0	U
98953	Nitrobenzene	3.0	U
87865	Pentachlorophenol	3.0	U
85018	Phenanthrene	3.0	0.69 J
108952	Phenol	3.0	U
129000	Pyrene	3.0	7.8

Total Target Concentration 27

U - Indicates the compound was analyzed but not detected.
 J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
 B - Indicates the analyte was found in the blank as well as in the sample.
 E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Formle/lf
ORGANICS SEMIVOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AB20283(5X)
Client Id: PG-D-01-120100SO0
Data File: FU2691
Date Analyzed: 11 Dec 2000 15:15
Date Received/Extracted: 12/4/2000-12/8/2000

Matrix: Soil
Initial Volume: 30g
Final Volume: 3ml
Dilution Factor: 5
Percent Solids: 82

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration mg/Kg</i>
1	000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.390	36 J <i>U</i>
2		unknown	13.540	2.7 J
3	086917-84-2	(+)-1,10-dihydronootkatone	13.590	2.9 J
4	002381-21-7	Pyrene, 1-methyl-	14.070	7.3 J
5	003353-12-6	Pyrene, 4-methyl-	14.190	7.8 J
6	000238-84-6	11H-Benzo[a]fluorene	14.230	5.5 J
7		unknown	14.310	3.1 J
8	064401-21-4	Pyrene, 1,3-dimethyl-	14.760	4.4 J
9		unknown	17.580	6.1 J
10		unknown	17.900	24 J

Total Tentatively Identified Concentration 100

A - Indicates an aldo condensate.

J - Indicates an estimated value

B - Indicates the analyte was found in the blank as well as in the sample.

Control File h:\import\64115.txt

Form 1
ORGANICS SEMIVOLATILE REPORT

Sample Number: AB20285

Matrix: Soil

Client Id: PG-D-01-120100SO10

Initial Volume: 30g

Data File: FU2675

Final Volume: 1ml

Date Analyzed: 10 Dec 2000 20:15

Dilution Factor: 1

Date Received/Extracted: 12/4/2000-12/8/2000

Percent Solids: 52

Column: Supelco 105 m volcol col., 5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
120821	1,2,4-Trichlorobenzene	0.32	U
95501	1,2-Dichlorobenzene	0.32	U
122667	1,2-Diphenylhydrazine	0.064	U
541731	1,3-Dichlorobenzene	0.32	U
106467	1,4-Dichlorobenzene	0.32	U
88062	2,4,6-Trichlorophenol	0.32	U
120832	2,4-Dichlorophenol	0.32	U
105679	2,4-Dimethylphenol	0.32	U
51285	2,4-Dinitrophenol	0.64	U
121142	2,4-Dinitrotoluene	0.32	U
606202	2,6-Dinitrotoluene	0.32	U
91587	2-Chloronaphthalene	0.32	U
95578	2-Chlorophenol	0.32	U
88755	2-Nitrophenol	0.32	U
91941	3,3'-Dichlorobenzidine	0.32	U
121142	4,6-Dinitro-2-methylphenol	0.32	U
101553	4-Bromophenyl-phenylether	0.32	U
59507	4-Chloro-3-methylphenol	0.32	U
7005723	4-Chlorophenyl-phenylether	0.32	U
100027	4-Nitrophenol	0.32	U
83329	Acenaphthene	0.32	U
208968	Acenaphthylene	0.32	U
120127	Anthracene	0.32	U
92875	Benzidine	0.64	U
56553	Benzo[a]anthracene	0.32	U
50328	Benzo[a]pyrene	0.32	U
205992	Benzo[b]fluoranthene	0.32	U
191242	Benzo[g,h,i]perylene	0.32	U
207089	Benzo[k]fluoranthene	0.32	U
111911	Bis(2-Chloroethoxy)methane	0.32	U
111444	Bis(2-Chloroethyl)Ether	0.32	U
108601	Bis(2-Chloroisopropyl)ether	0.32	U
117817	Bis(2-Ethylhexyl)phthalate	0.32	U
85687	Butylbenzylphthalate	0.32	U
218019	Chrysene	0.32	U
117840	Di-n-octylphthalate	0.32	U
84742	Di-n-butylphthalate	0.32	U
53703	Dibenz[a,h]Anthracene	0.32	U
84662	Diethylphthalate	0.32	U
131113	Dimethylphthalate	0.32	U
206440	Fluoranthene	0.32	U
86737	Fluorene	0.32	U
118741	Hexachlorobenzene	0.32	U
87683	Hexachlorobutadiene	0.32	U
77474	Hexachlorocyclopentadiene	0.96	U
67721	Hexachloroethane	0.32	U
193395	Indeno[1,2,3-cd]pyrene	0.32	U
78591	Isophorone	0.32	U
621647	N-Nitroso-Di-N-Propylamine	0.32	U
62759	N-Nitrosodimethylamine	0.32	U
86306	N-Nitrosodiphenylamine	0.32	U
91203	Naphthalene	0.32	U
98953	Nitrobenzene	0.32	U
87865	Pentachlorophenol	0.32	U
85018	Phenanthrene	0.32	U
108952	Phenol	0.32	U
129000	Pyrene	0.32	0.071 J

Total Target Concentration 0.37

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Form 1
ORGANICS SEMIVOLATILE REPORT

Sample Number: AB20287

Matrix: Soil

Client Id: PG-RR-08-120100SO02

Initial Volume: 30g

Data File: FU2672

Final Volume: 1ml

Date Analyzed: 10 Dec 2000 18:21

Dilution Factor: 1

Date Received/Extracted: 12/4/2000-12/8/2000

Percent Solids: 64

Column: Supelco 105 m vocol col, .5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
120821	1,2,4-Trichlorobenzene	0.26	U
95501	1,2-Dichlorobenzene	0.26	U
122667	1,2-Diphenylhydrazine	0.052	U
541731	1,3-Dichlorobenzene	0.26	U
106467	1,4-Dichlorobenzene	0.26	U
88062	2,4,6-Trichlorophenol	0.26	U
120832	2,4-Dichlorophenol	0.26	U
105679	2,4-Dimethylphenol	0.26	U
51285	2,4-Dinitrophenol	0.52	U
121142	2,4-Dinitrotoluene	0.26	U
606202	2,6-Dinitrotoluene	0.26	U
91587	2-Chloronaphthalene	0.26	U
95578	2-Chlorophenol	0.26	U
88755	2-Nitrophenol	0.26	U
91941	3,3'-Dichlorobenzidine	0.26	U
121142	4,6-Dinitro-2-methylphenol	0.26	U
101553	4-Bromophenyl-phenylether	0.26	U
59507	4-Chloro-3-methylphenol	0.26	U
7005723	4-Chlorophenyl-phenylether	0.26	U
100027	4-Nitrophenol	0.26	U
83329	Acenaphthene	0.26	U
208968	Acenaphthylene	0.26	U
120127	Anthracene	0.26	U
92875	Benzidine	0.52	U
56553	Benzo[a]anthracene	0.26	U
50328	Benzo[a]pyrene	0.26	U
205992	Benzo[b]fluoranthene	0.26	0.059 J
191242	Benzo[g,h,i]perylene	0.26	U
207089	Benzo[k]fluoranthene	0.26	U
111911	Bis(2-Chloroethoxy)methane	0.26	U
111444	Bis(2-Chloroethyl)Ether	0.26	U
108601	Bis(2-Chloroisopropyl)ether	0.26	U
117817	Bis(2-Ethylhexyl)phthalate	0.26	0.16 B E
85687	Butylbenzylphthalate	0.26	U
218019	Chrysene	0.26	0.058 J
117840	Di-n-octylphthalate	0.26	0.17 J
84742	Di-n-butylphthalate	0.26	U
53703	Dibenzo[a,h]Anthracene	0.26	U
84662	Diethylphthalate	0.26	U
131113	Dimethylphthalate	0.26	U
206440	Fluoranthene	0.26	U
86737	Fluorene	0.26	U
118741	Hexachlorobenzene	0.26	U
87683	Hexachlorobutadiene	0.26	U
77474	Hexachlorocyclopentadiene	0.78	U
67721	Hexachloroethane	0.26	U
193395	Indeno[1,2,3-cd]pyrene	0.26	U
78591	isophorone	0.26	U
621647	N-Nitroso-Di-N-Propylamine	0.26	U
62759	N-Nitrosodimethylamine	0.26	U
86306	N-Nitrosodiphenylamine	0.26	U
91203	Naphthalene	0.26	U
98953	Nitrobenzene	0.26	U
87865	Pentachlorophenol	0.26	U
85018	Phenanthrene	0.26	0.082 J
108952	Phenol	0.26	U
129000	Pyrene	0.26	U

Total Target Concentration 0.65

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Form 1
ORGANICS SEMIVOLATILE REPORT

45

Sample Number: AB20288 Matrix: Soil
 Client Id: PG-RR-08-120100SO04 Initial Volume: 30g
 Data File: FU2650 Final Volume: 1ml
 Date Analyzed: 8 Dec 2000 19:37 Dilution Factor: 1
 Date Received/Extracted: 12/4/2000-12/8/2000 Percent Solids: 72
 Column: Supelco 105 m volcol col,.5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
120821	1,2,4-Trichlorobenzene	0.23	U
95501	1,2-Dichlorobenzene	0.23	U
122667	1,2-Diphenylhydrazine	0.046	U
541731	1,3-Dichlorobenzene	0.23	U
106467	1,4-Dichlorobenzene	0.23	U
88062	2,4,6-Trichlorophenol	0.23	U
120832	2,4-Dichlorophenol	0.23	U
105679	2,4-Dimethylphenol	0.23	U
51285	2,4-Dinitrophenol	0.46	U
121142	2,4-Dinitrotoluene	0.23	U
606202	2,6-Dinitrotoluene	0.23	U
91587	2-Chloronaphthalene	0.23	U
95578	2-Chlorophenol	0.23	U
88755	2-Nitrophenol	0.23	U
91941	3,3'-Dichlorobenzidine	0.23	U
121142	4,6-Dinitro-2-methylphenol	0.23	U
101553	4-Bromophenyl-phenylether	0.23	U
59507	4-Chloro-3-methylphenol	0.23	U
7005723	4-Chlorophenyl-phenylether	0.23	U
100027	4-Nitrophenol	0.23	U
83329	Acenaphthene	0.23	U
208968	Acenaphthylene	0.23	U
120127	Anthracene	0.23	U
92875	Benzidine	0.46	U
56553	Benzo[a]anthracene	0.23	0.055 J
50328	Benzo[a]pyrene	0.23	U
205992	Benzo[b]fluoranthene	0.23	0.047 J
191242	Benzo[g,h,i]perylene	0.23	U
207089	Benzo[k]fluoranthene	0.23	U
111911	Bis(2-Chloroethoxy)methane	0.23	U
111444	Bis(2-Chloroethyl)Ether	0.23	U
108601	Bis(2-Chloroisopropyl)ether	0.23	U
117817	Bis(2-Ethylhexyl)phthalate	0.23	0.30 B C
85687	Butylbenzylphthalate	0.23	U
218019	Chrysene	0.23	0.084 J
117840	Di-n-octylphthalate	0.23	0.27 J
84742	Di-n-butylphthalate	0.23	0.095 J
53703	Dibenz[a,h]Anthracene	0.23	U
84662	Diethylphthalate	0.23	U
131113	Dimethylphthalate	0.23	U
206440	Fluoranthene	0.23	U
86737	Fluorene	0.23	U
118741	Hexachlorobenzene	0.23	U
87683	Hexachlorobutadiene	0.23	U
77474	Hexachlorocyclopentadiene	0.69	U
67721	Hexachloroethane	0.23	U
193395	Indeno[1,2,3-cd]pyrene	0.23	U
78591	Isophorone	0.23	U
621647	N-Nitroso-Di-N-Propylamine	0.23	U
62759	N-Nitrosodimethylamine	0.23	U
86306	N-Nitrosodiphenylamine	0.23	U
91203	Naphthalene	0.23	0.081 J
98953	Nitrobenzene	0.23	U
87865	Pentachlorophenol	0.23	U
85018	Phenanthrene	0.23	0.15 J
108952	Phenol	0.23	U
129000	Pyrene	0.23	0.076 J

Total Target Concentration 1.2

U - Indicates the compound was analyzed but not detected
 J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
 B - Indicates the analyte was found in the blank as well as in the sample.
 E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Form 1
ORGANICS SEMIVOLATILE REPORT

457

Sample Number: AB20289 Matrix: Soil
 Client Id: PG-UST2-3-120100SO02 Initial Volume: 30g
 Data File: FS3669 Final Volume: 1ml
 Date Analyzed: 8 Dec 2000 20:11 Dilution Factor: 1
 Date Received/Extracted: 12/4/2000-12/8/2000 Percent Solids: 81
 Column: Supelco 105 m vocol col, .5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
120821	1,2,4-Trichlorobenzene	0.21	U
95501	1,2-Dichlorobenzene	0.21	U
122667	1,2-Diphenylhydrazine	0.041	U
541731	1,3-Dichlorobenzene	0.21	U
106467	1,4-Dichlorobenzene	0.21	U
88062	2,4,6-Trichlorophenol	0.21	U
120832	2,4-Dichlorophenol	0.21	U
105679	2,4-Dimethylphenol	0.21	U
51285	2,4-Dinitrophenol	0.41	U
121142	2,4-Dinitrotoluene	0.21	U
606202	2,6-Dinitrotoluene	0.21	U
91587	2-Chloronaphthalene	0.21	U
95578	2-Chlorophenol	0.21	U
88755	2-Nitrophenol	0.21	U
91941	3,3'-Dichlorobenzidine	0.21	U
121142	4,6-Dinitro-2-methylphenol	0.21	U
101553	4-Bromophenyl-phenylether	0.21	U
59507	4-Chloro-3-methylphenol	0.21	U
7005723	4-Chlorophenyl-phenylether	0.21	U
100027	4-Nitrophenol	0.21	U
83329	Acenaphthene	0.21	U
208968	Acenaphthylene	0.21	U
120127	Anthracene	0.21	U
92875	Benazidine	0.41	U
56553	Benzo[a]anthracene	0.21	U
50328	Benzo[a]pyrene	0.21	U
205992	Benzo[b]fluoranthene	0.21	U
191242	Benzo[g,h,i]perylene	0.21	U
207089	Benzo[k]fluoranthene	0.21	U
111911	Bis(2-Chloroethoxy)methane	0.21	U
111444	Bis(2-Chloroethyl)Ether	0.21	U
108601	Bis(2-Chloroisopropyl)ether	0.21	U
117817	Bis(2-Ethylhexyl)phthalate	0.21	U
85687	Butylbenzylphthalate	0.21	U
218019	Chrysene	0.21	0.068 J
117840	DI-n-octylphthalate	0.21	0.051 J
84742	DI-n-butylphthalate	0.21	0.042 J
53703	Dibenzo[a,h]Anthracene	0.21	U
84662	Diethylphthalate	0.21	U
131113	Dimethylphthalate	0.21	U
206440	Fluoranthene	0.21	U
86737	Fluorene	0.21	U
118741	Hexachlorobenzene	0.21	U
87683	Hexachlorobutadiene	0.21	U
77474	Hexachlorocyclopentadiene	0.62	U
67721	Hexachloroethane	0.21	U
193395	Indeno[1,2,3-cd]pyrene	0.21	U
78591	Isophorone	0.21	U
621647	N-Nitroso-Di-N-Propylamine	0.21	U
62759	N-Nitrosodimethylamine	0.21	U
86306	N-Nitrosodiphenylamine	0.21	U
91203	Naphthalene	0.21	0.042 J
98953	Nitrobenzene	0.21	U
87865	Pentachlorophenol	0.21	U
85018	Phenanthrene	0.21	0.099 J
108952	Phenol	0.21	U
129000	Pyrene	0.21	U

Total Target Concentration 0.39

U - Indicates the compound was analyzed but not detected.
 J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
 B - Indicates the analyte was found in the blank as well as in the sample.
 E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Form 1
ORGANICS SEMIVOLATILE REPORT

Sample Number: AB20290(5X) Matrix: Soil
 Client Id: PG-UST2-3-120100SO5B Initial Volume: 30g
 Data File: FU2657 Final Volume: 3ml
 Date Analyzed: 8 Dec 2000 22:34 Dilution Factor: 5
 Date Received/Extracted: 12/4/2000-12/8/2000 Percent Solids: 60
 Column: Supelco 105 m volcol col, .5 mm id, 3.0 um film



CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
120821	1,2,4-Trichlorobenzene	4.2	U
95501	1,2-Dichlorobenzene	4.2	U
122667	1,2-Diphenylhydrazine	0.83	U
541731	1,3-Dichlorobenzene	4.2	U
106467	1,4-Dichlorobenzene	4.2	U
88062	2,4,6-Trichlorophenol	4.2	U
120832	2,4-Dichlorophenol	4.2	U
105679	2,4-Dimethylphenol	4.2	U
51285	2,4-Dinitrophenol	8.3	U
121142	2,4-Dinitrotoluene	4.2	U
606202	2,6-Dinitrotoluene	4.2	U
91587	2-Chloronaphthalene	4.2	U
95578	2-Chlorophenol	4.2	U
88755	2-Nitrophenol	4.2	U
91941	3,3-Dichlorobenzidine	4.2	U
121142	4,6-Dinitro-2-methylphenol	4.2	U
101553	4-Bromophenyl-phenylether	4.2	U
59507	4-Chloro-3-methylphenol	4.2	U
7005723	4-Chlorophenyl-phenylether	4.2	U
100027	4-Nitrophenol	4.2	U
83329	Acenaphthene	4.2	5.1 U
208968	Acenaphthylene	4.2	U
120127	Anthracene	4.2	U
92875	Benzidine	8.3	U
56553	Benz[a]anthracene	4.2	U
50328	Benz[a]pyrene	4.2	11 U
205992	Benzo[b]fluoranthene	4.2	5.8 U
191242	Benzo[g,h,i]perylene	4.2	6.8 U
207089	Benzo[k]fluoranthene	4.2	1.1 U
111911	Bis(2-Chloroethoxy)methane	4.2	2.3 U
111444	Bis(2-Chloroethyl)Ether	4.2	U
108601	Bis(2-Chloroisopropyl)ether	4.2	U
117817	Bis(2-Ethylhexyl)phthalate	4.2	U
85687	Butylbenzylphthalate	4.2	U
218019	Chrysene	4.2	15 U
117840	Di-n-octylphthalate	4.2	U
84742	Di-n-butylphthalate	4.2	U
53703	Dibenzo[a,h]Anthracene	4.2	U
84662	Diethylphthalate	4.2	U
131113	Dimethylphthalate	4.2	U
206440	Fluoranthene	4.2	6.1 U
86737	Fluorene	4.2	U
118741	Hexachlorobenzene	4.2	U
87683	Hexachlorobutadiene	4.2	U
77474	Hexachlorocyclopentadiene	13	U
67721	Hexachloroethane	4.2	U
193395	Indeno[1,2,3-cd]pyrene	4.2	U
78591	Isophorone	4.2	U
621647	N-Nitroso-Di-N-Propylamine	4.2	U
62759	N-Nitrosodimethylamine	4.2	U
86306	N-Nitrosodiphenylamine	4.2	U
91203	Naphthalene	4.2	U
98953	Nitrobenzene	4.2	U
87865	Pentachlorophenol	4.2	U
85018	Phenanthrene	4.2	9.2 U
108952	Phenol	4.2	U
129000	Pyrene	4.2	31 U

Total Target Concentration 93

- U - Indicates the compound was analyzed but not detected.
- J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
- B - Indicates the analyte was found in the blank as well as in the sample.
- E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Form 1
ORGANICS SEMIVOLATILE REPORT

Sample Number: AB20291

Matrix: Soil

Client Id: PG-UST2-3-120100SO07

Initial Volume: 30g

Data File: FU2653

Final Volume: 1ml

Date Analyzed: 8 Dec 2000 20:53

Dilution Factor: 1

Date Received/Extracted: 12/4/2000-12/8/2000

Percent Solids: 52

Column: Supelco 105 m volcol col, .5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
120821	1,2,4-Trichlorobenzene	0.32	U
95501	1,2-Dichlorobenzene	0.32	U
122667	1,2-Diphenylhydrazine	0.064	U
541731	1,3-Dichlorobenzene	0.32	U
106467	1,4-Dichlorobenzene	0.32	U
88062	2,4,6-Trichlorophenol	0.32	U
120832	2,4-Dichlorophenol	0.32	U
105679	2,4-Dimethylphenol	0.32	U
51285	2,4-Dinitrophenol	0.64	U
121142	2,4-Dinitrotoluene	0.32	U
606202	2,6-Dinitrotoluene	0.32	U
91587	2-Chloronaphthalene	0.32	U
95578	2-Chlorophenol	0.32	U
88755	2-Nitrophenol	0.32	U
91941	3,3'-Dichlorobenzidine	0.32	U
121142	4,6-Dinitro-2-methylphenol	0.32	U
101553	4-Bromophenyl-phenylether	0.32	U
59507	4-Chloro-3-methylphenol	0.32	U
7005723	4-Chlorophenyl-phenylether	0.32	U
103027	4-Nitrophenol	0.32	U
83329	Acenaphthene	0.32	0.083 J
208968	Acenaphthylene	0.32	U
120127	Anthracene	0.32	0.13 J
92875	Benzidine	0.64	U
56553	Benzo[a]anthracene	0.32	0.20 J
50328	Benzo[a]pyrene	0.32	0.059 J
205992	Benzo[b]fluoranthene	0.32	0.084 J
191242	Benzo[g,h,i]perylene	0.32	U
207089	Benzo[k]fluoranthene	0.32	U
111911	Bis(2-Chloroethoxy)methane	0.32	U
111444	Bis(2-Chloroethyl)Ether	0.32	U
108601	Bis(2-Chloroisopropyl)ether	0.32	U
117817	Bis(2-Ethylhexyl)phthalate	0.32	0.36 B U
85687	Butylbenzylphthalate	0.32	U
218019	Chrysene	0.32	0.24 J
117840	Di-n-octylphthalate	0.32	6.42 C
84742	Di-n-butylphthalate	0.32	U
53703	Dibenzo[a,h]Anthracene	0.32	U
84662	Diethylphthalate	0.32	U
131113	Dimethylphthalate	0.32	U
206440	Fluoranthene	0.32	0.13 J
86737	Fluorene	0.32	U
118741	Hexachlorobenzene	0.32	U
87683	Hexachlorobutadiene	0.32	U
77474	Hexachlorocyclopentadiene	0.96	U
67721	Hexachloroethane	0.32	U
193395	Indeno[1,2,3-cd]pyrene	0.32	U
73591	Isophorone	0.32	U
621647	N-Nitroso-Di-N-Propylamine	0.32	U
62759	N-Nitrosodimethylamine	0.32	U
86306	N-Nitrosodiphenylamine	0.32	U
91203	Naphthalene	0.32	0.27 J
98953	Nitrobenzene	0.32	U
87865	Pentachlorophenol	0.32	U
85018	Phenanthrene	0.32	0.14 J
108952	Phenol	0.32	U
129000	Pyrene	0.32	0.51

Total Target Concentration 2.7

- U - Indicates the compound was analyzed but not detected.
- J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
- B - Indicates the analyte was found in the blank as well as in the sample.
- E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Form I
ORGANICS SEMIVOLATILE REPORT

Sample Number: AB20292

Matrix: Soil

Client Id: PG-FILL10-120100SO2B

Initial Volume: 30g

Data File: FS3672

Final Volume: 1ml

Date Analyzed: 8 Dec 2000 21:16

Dilution Factor: 1

Date Received/Extracted: 12/4/2000-12/8/2000

Percent Solids: 91

Column: Supelco 105 m volcol col, .5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
120821	1,2,4-Trichlorobenzene	0.18	U
95501	1,2-Dichlorobenzene	0.18	U
122667	1,2-Diphenylhydrazine	0.037	U
541731	1,3-Dichlorobenzene	0.18	U
106467	1,4-Dichlorobenzene	0.18	U
88062	2,4,6-Trichlorophenol	0.18	U
120832	2,4-Dichlorophenol	0.18	U
105679	2,4-Dimethylphenol	0.18	U
51285	2,4-Dinitrophenol	0.37	U
121142	2,4-Dinitrotoluene	0.18	U
606202	2,6-Dinitrotoluene	0.18	U
91587	2-Chloronaphthalene	0.18	U
95578	2-Chlorophenol	0.18	U
88755	2-Nitrophenol	0.18	U
91941	3,3'-Dichlorobenzidine	0.18	U
121142	4,6-Dinitro-2-methylphenol	0.18	U
101553	4-Bromophenyl-phenylether	0.18	U
59507	4-Chloro-3-methylphenol	0.18	U
7005723	4-Chlorophenyl-phenylether	0.18	U
100027	4-Nitrophenol	0.18	U
83329	Acenaphthene	0.18	U
208968	Acenaphthylene	0.18	0.069 J
120127	Anthracene	0.18	0.054 J
92875	Benzidine	0.37	U
56553	Benzo[a]anthracene	0.18	0.24
50328	Benzo[a]pyrene	0.18	0.17 J
205992	Benzo[b]fluoranthene	0.18	0.18 J
191242	Benzo[g,h,i]perylene	0.18	0.11 J
207089	Benzo[k]fluoranthene	0.18	0.063 J
111911	Bis(2-Chloroethoxy)methane	0.18	U
111444	Bis(2-Chloroethyl)Ether	0.18	U
108601	Bis(2-Chloroisopropyl)ether	0.18	U
117817	Bis(2-Ethylhexyl)phthalate	0.18	0.070 JB U
85687	Butylbenzylphthalate	0.18	U
218019	Chrysene	0.18	0.23
117840	Di-n-octylphthalate	0.18	0.037 J
84742	Di-n-butylphthalate	0.18	0.050 J
53703	Dibenzo[a,h]Anthracene	0.18	U
84662	Diethylphthalate	0.18	U
131113	Dimethylphthalate	0.18	U
206440	Fluoranthene	0.18	0.35
86737	Fluorene	0.18	U
118741	Hexachlorobenzene	0.18	U
87683	Hexachlorobutadiene	0.18	U
77474	Hexachlorocyclopentadiene	0.55	U
67721	Hexachloroethane	0.18	U
193395	Indeno[1,2,3-cd]pyrene	0.18	0.078 J
78591	Isophorone	0.18	U
621647	N-Nitroso-Di-N-Propylamine	0.18	U
62759	N-Nitrosodimethylamine	0.18	U
86306	N-Nitrosodiphenylamine	0.18	U
91203	Naphthalene	0.18	U
98953	Nitrobenzene	0.18	U
87865	Pentachlorophenol	0.18	U
85018	Phenanthrene	0.18	0.18 J
108952	Phenol	0.18	U
129000	Pyrene	0.18	0.62

Total Target Concentration 2.5

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Formle/lf
ORGANICS SEMIVOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AB20292
Client Id: PG-FILL10-120100S
Data File: FS3672
Date Analyzed: 8 Dec 2000 21:16
Date Received/Extracted: 12/4/2000-12/8/2000

Matrix: Soil
Initial Volume: 30g
Final Volume: 1ml
Dilution Factor: 1
Percent Solids: 91

88

Hit#	Cas Number	Compound	RT	Concentration mg/Kg
1		unknown	3.270	1.1 J B U
2	000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.630	19 J A U
3		unknown	4.450	0.72 J B U
4	000832-64-4	Phenanthrene, 4-methyl-	9.620	0.18 J
5	003674-65-5	Phenanthrene, 2,3-dimethyl-	10.210	0.19 J
6		unknown	10.300	0.16 J
7	010544-50-0	Sulfur, mol. (S8)	10.430	0.24 J
8	002381-21-7	Pyrene, 1-methyl-	11.020	0.19 J
9	002381-21-7	Pyrene, 1-methyl-	11.140	0.15 J
10	040710-42-7	1-Hentetracontanoi	12.750	0.24 J
11		unknown	13.060	0.27 J
12	000630-02-4	Octacosane	13.460	0.52 J
13		unknown	13.860	0.20 J
14		unknown	14.000	1.1 J
15	000630-02-4	Octacosane	14.130	0.31 J
16		unknown	14.810	0.26 J
17		unknown	15.080	0.37 J
18		unknown	15.130	1.1 J
19		unknown	15.200	0.35 J
20		unknown	15.320	0.38 J
21		unknown	15.370	0.33 J
22		unknown	15.470	0.20 J
23		unknown	15.520	0.18 J

Total Tentatively Identified Concentration 28

A - Indicates an aldol condensate.
J - Indicates an estimated value
B - Indicates the analyte was found in the blank as well as in the sample.

Control File h:\import\64115.txt

Form 1
ORGANICS SEMIVOLATILE REPORT

Sample Number: AB20294

Matrix: Soil

Client Id: PG-FILL25-120100SO01

Initial Volume: 30g

Data File: FU2655

Final Volume: 1ml

Date Analyzed: 8 Dec 2000 21:43

Dilution Factor: 1

Date Received/Extracted: 12/4/2000-12/8/2000

Percent Solids: 62

Column: Supelco 105 m vocol col., 5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
120821	1,2,4-Trichlorobenzene	0.27	U
95501	1,2-Dichlorobenzene	0.27	U
122667	1,2-Diphenylhydrazine	0.054	U
541731	1,3-Dichlorobenzene	0.27	U
106467	1,4-Dichlorobenzene	0.27	U
88062	2,4,6-Trichlorophenol	0.27	U
120832	2,4-Dichlorophenol	0.27	U
105679	2,4-Dimethylphenol	0.27	U
51285	2,4-Dinitrophenol	0.54	U
121142	2,4-Dinitrotoluene	0.27	U
606202	2,6-Dinitrotoluene	0.27	U
91587	2-Chloronaphthalene	0.27	U
95578	2-Chlorophenol	0.27	U
88755	2-Nitrophenol	0.27	U
91941	3,3'-Dichlorobenzidine	0.27	U
121142	4,6-Dinitro-2-methylphenol	0.27	U
101553	4-Bromophenyl-phenylether	0.27	U
59507	4-Chloro-3-methylphenol	0.27	U
7005723	4-Chlorophenyl-phenylether	0.27	U
100027	4-Nitrophenol	0.27	U
83329	Acenaphthene	0.27	U
208968	Acenaphthylene	0.27	U
120127	Anthracene	0.27	U
92875	Benzidine	0.54	U
56553	Benzo[a]anthracene	0.27	0.070 J
50328	Benzo[a]pyrene	0.27	U
205992	Benzo[b]fluoranthene	0.27	0.11 J
191242	Benzo[g,h,i]perylene	0.27	U
207089	Benzo[k]fluoranthene	0.27	0.055 J
111911	Bis(2-Chloroethoxy)methane	0.27	U
111444	Bis(2-Chloroethyl)Ether	0.27	U
108601	Bis(2-Chloroisopropyl)ether	0.27	U
117817	Bis(2-Ethylhexyl)phthalate	0.27	0.22 JB U
85687	Butylbenzylphthalate	0.27	U
218019	Chrysene	0.27	0.076 J
117840	Di-n-octylphthalate	0.27	0.10 J
84742	Di-n-butylphthalate	0.27	0.073 J
53703	Dibenzo[a,h]Anthracene	0.27	U
84662	Diethylphthalate	0.27	U
131113	Dimethylphthalate	0.27	U
206440	Fluoranthene	0.27	0.11 J
86737	Fluorene	0.27	U
118741	Hexachlorobenzene	0.27	U
87683	Hexachlorobutadiene	0.27	U
77474	Hexachlorocyclopentadiene	0.81	U
67721	Hexachloroethane	0.27	U
193395	Indeno[1,2,3-cd]pyrene	0.27	U
78591	Isophorone	0.27	U
621647	N-Nitroso-Di-N-Propylamine	0.27	U
62759	N-Nitrosodimethylamine	0.27	U
86306	N-Nitrosodiphenylamine	0.27	U
91203	Naphthalene	0.27	U
98953	Nitrobenzene	0.27	U
87865	Pentachlorophenol	0.27	U
85018	Phenanthrene	0.27	U
108952	Phenol	0.27	U
129000	Pyrene	0.27	0.10 J

Total Target Concentration 1

- U - Indicates the compound was analyzed but not detected.
- J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
- B - Indicates the analyte was found in the blank as well as in the sample.
- E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Formle/If
ORGANICS SEMIVOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AB20294
Client Id: PG-FILL25-120100S
Data File: FU2655
Date Analyzed: 8 Dec 2000 21:43
Date Received/Extracted: 12/4/2000-12/8/2000

Matrix: Soil
Initial Volume: 30g
Final Volume: 1ml
Dilution Factor: 1
Percent Solids: 62

45

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration mg/Kg</i>
1		unknown	3.050	2.9 J
2	000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.390	36 J U
3		unknown	4.200	1.8 J
4		unknown	16.120	0.59 J
5	000593-45-3	Octadecane	16.570	0.51 J
6	007225-64-1	Heptadecane, 9-octyl-	17.360	1.2 J
7		unknown	17.560	0.27 J
8		unknown	17.980	0.28 J
9		unknown	18.080	0.50 J
10		unknown	18.340	0.75 J
11		unknown	18.920	0.37 J

Total Tentatively Identified Concentration 45

A - Indicates an aldol condensate.

J - Indicates an estimated value

B - Indicates the analyte was found in the blank as well as in the sample.

Control File h:\import\64115.txt

Form 1
ORGANICS SEMIVOLATILE REPORT

Sample Number: AB20295 **Matrix:** Soil
Client Id: PG-FILL25-120100SO03 **Initial Volume:** 30g
Data File: FU2652 **Final Volume:** 1ml
Date Analyzed: 8 Dec 2000 20:27 **Dilution Factor:** 1
Date Received/Extracted: 12/4/2000-12/8/2000 **Percent Solids:** 51
Column: Supelco 105 m vocol col, .5 mm id, 3.0 um film



CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
120821	1,2,4-Trichlorobenzene	0.33	U
95501	1,2-Dichlorobenzene	0.33	U
122667	1,2-Diphenylhydrazine	0.065	U
541731	1,3-Dichlorobenzene	0.33	U
106467	1,4-Dichlorobenzene	0.33	U
88062	2,4,6-Trichlorophenol	0.33	U
120832	2,4-Dichlorophenol	0.33	U
105679	2,4-Dimethylphenol	0.33	0.11 J
51265	2,4-Dinitrophenol	0.65	U
121142	2,4-Dinitrotoluene	0.33	U
606202	2,6-Dinitrotoluene	0.33	U
91587	2-Chloronaphthalene	0.33	U
95578	2-Chlorophenol	0.33	U
88755	2-Nitrophenol	0.33	U
91941	3,3'-Dichlorobenzidine	0.33	U
121142	4,6-Dinitro-2-methylphenol	0.33	U
101553	4-Bromophenyl-phenylether	0.33	U
59507	4-Chloro-3-methylphenol	0.33	U
7005723	4-Chlorophenyl-phenylether	0.33	U
100027	4-Nitrophenol	0.33	U
83329	Acenaphthene	0.33	U
208968	Acenaphthylene	0.33	U
120127	Anthracene	0.33	U
92875	Benzidine	0.65	U
56553	Benzo[a]anthracene	0.33	U
50328	Benzo[a]pyrene	0.33	U
205992	Benzo[b]fluoranthene	0.33	0.068 J
191242	Benzo[g,h,i]perylene	0.33	U
207089	Benzo[k]fluoranthene	0.33	U
111911	Bis(2-Chloroethoxy)methane	0.33	U
111444	Bis(2-Chloroethyl)Ether	0.33	U
108601	Bis(2-Chloroisopropyl)ether	0.33	U
117817	Bis(2-Ethylhexyl)phthalate	0.33	0.23 JB U
85687	Butylbenzylphthalate	0.33	U
218019	Chrysene	0.33	U
117840	Di-n-octylphthalate	0.33	0.20 J U
84742	Di-n-butylphthalate	0.33	0.10 J
53703	Dibenzof[a,h]Anthracene	0.33	U
84662	Diethylphthalate	0.33	U
131113	Dimethylphthalate	0.33	U
206440	Fluoranthene	0.33	0.15 J
86737	Fluorene	0.33	U
118741	Hexachlorobenzene	0.33	U
87683	Hexachlorobutadiene	0.33	U
77474	Hexachlorocyclopentadiene	0.98	U
67721	Hexachloroethane	0.33	U
193395	Indeno[1,2,3-cd]pyrene	0.33	U
78591	Isophorone	0.33	U
621647	N-Nitroso-Di-N-Propylamine	0.33	U
62759	N-Nitrosodimethylamine	0.33	U
86306	N-Nitrosodiphenylamine	0.33	U
91203	Naphthalene	0.33	U
98953	Nitrobenzene	0.33	U
87865	Pentachlorophenol	0.33	U
85018	Phenanthrene	0.33	0.15 J
108952	Phenol	0.33	0.30 J
129000	Pyrene	0.33	0.13 J

Total Target Concentration 1.4

- U - Indicates the compound was analyzed but not detected.*
- J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
- B - Indicates the analyte was found in the blank as well as in the sample.*
- E - Indicates the analyte concentration exceeds the calibration range of the instrument.*

Formle/If
ORGANICS SEMIVOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AB20295
Client Id: PG-FILL25-120100S
Data File: FU2652
Date Analyzed: 8 Dec 2000 20:27
Date Received/Extracted: 12/4/2000-12/8/2000

Matrix: Soil
Initial Volume: 30g
Final Volume: 1ml
Dilution Factor: 1
Percent Solids: 51

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration mg/Kg</i>
1		unknown	3.020	2.2 J
2	000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.350	29 J AB U
3	000110-43-0	2-Heptanone	3.880	3.7 J
4	000543-49-7	2-Heptanol	4.020	0.90 J
5		unknown	4.190	1.7 J
6		unknown	5.230	2.0 J
7		unknown	8.410	1.4 J
8	000143-07-7	Dodecanoic acid	9.940	11 J
9		unknown hydrocarbon	10.710	0.91 J
10	000544-63-8	Tetradecanoic acid	11.240	18 J
11		unknown	11.580	1.1 J
12	001002-84-2	Pentadecanoic acid	11.750	1.5 J
13	000638-53-9	Tridecanoic acid	12.600	160 J
14	056630-52-5	Pyrrolidine, 1-(13-methyl-1-oxotetradecyl)-	15.350	2.1 J
15	033707-76-5	Pyrrolidine, 1-(1-oxooctadecyl)-	16.210	0.84 J
16	007144-08-3	Cholest-5-en-3-ol (3.beta.)-, carbonochl	16.710	1.0 J
17	007616-22-0	.gamma.-Tocopherol	17.230	4.5 J
18	001120-21-4	Undecane	17.360	1.1 J
19		unknown	17.450	1.3 J
20	000059-02-9	Vitamin E	17.540	3.3 J
21	000057-88-5	Cholest-5-en-3-ol (3.beta.)-	17.610	14 J
22	000000-00-0	ERGOST-5-EN-3.BETA.-OL	18.020	8.3 J
23	000083-48-7	Stigmasta-5,22-dien-3-ol, (3.beta.,22E)-	18.110	7.6 J
24		unknown	18.210	1.1 J
25	000083-47-6	Stigmast-5-en-3-ol, (3.beta.,24S)-	18.380	13 J

Total Tentatively Identified Concentration 290

A - Indicates an aldol condensate.

J - Indicates an estimated value.

B - Indicates the analyte was found in the blank as well as in the sample.

Control File h:\import\64115.txt

Form 1
ORGANICS SEMIVOLATILE REPORT

Sample Number: AB20296

Matrix: Soil

Client Id: PG-FILL25-120100SO05

Initial Volume: 30g

Data File: FU2693

Final Volume: 1ml

Date Analyzed: 11 Dec 2000 16:06

Dilution Factor: 1

Date Received/Extracted: 12/4/2000-12/8/2000

Percent Solids: 71

Column: Supelco 105 m vocol col, .5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
120821	1,2,4-Trichlorobenzene	0.23	U
95501	1,2-Dichlorobenzene	0.23	U
122667	1,2-Diphenylhydrazine	0.047	U
541731	1,3-Dichlorobenzene	0.23	U
106467	1,4-Dichlorobenzene	0.23	U
88062	2,4,6-Trichlorophenol	0.23	U
120832	2,4-Dichlorophenol	0.23	U
105679	2,4-Dimethylphenol	0.23	U
51285	2,4-Dinitrophenol	0.47	U
121142	2,4-Dinitrotoluene	0.23	U
606202	2,6-Dinitrotoluene	0.23	U
91587	2-Chloronaphthalene	0.23	U
95578	2-Chlorophenol	0.23	U
88755	2-Nitrophenol	0.23	U
91941	3,3'-Dichlorobenzidine	0.23	U
121142	4,6-Dinitro-2-methylphenol	0.23	U
101553	4-Bromophenyl-phenylether	0.23	U
59507	4-Chloro-3-methylphenol	0.23	U
7005723	4-Chlorophenyl-phenylether	0.23	U
100027	4-Nitrophenol	0.23	U
83329	Acenaphthene	0.23	U
208968	Acenaphthylene	0.23	U
120127	Anthracene	0.23	U
92875	Benzidine	0.47	U
56553	Benzo[a]anthracene	0.23	U
50328	Benzo[a]pyrene	0.23	U
205992	Benzo[b]fluoranthene	0.23	U
191242	Benzo[g,h,i]perylene	0.23	U
207089	Benzo[k]fluoranthene	0.23	U
111911	Bis(2-Chloroethoxy)methane	0.23	U
111444	Bis(2-Chloroethyl)Ether	0.23	U
108601	Bis(2-Chloroisopropyl)ether	0.23	U
117817	Bis(2-Ethylhexyl)phthalate	0.23	U
85687	Butylbenzylphthalate	0.23	U
218019	Chrysene	0.23	U
117840	Di-n-octylphthalate	0.23	U
84742	Di-n-butylphthalate	0.23	U
53703	Dibenz[a,h]Anthracene	0.23	U
84662	Diethylphthalate	0.23	U
131113	Dimethylphthalate	0.23	U
206440	Fluoranthene	0.23	U
86737	Fluorene	0.23	U
118741	Hexachlorobenzene	0.23	U
87683	Hexachlorobutadiene	0.23	U
77474	Hexachlorocyclopentadiene	0.70	U
67721	Hexachloroethane	0.23	U
193395	Indeno[1,2,3-cd]pyrene	0.23	U
78591	Isophorone	0.23	U
621647	N-Nitroso-Di-N-Propylamine	0.23	U
62759	N-Nitrosodimethylamine	0.23	U
86306	N-Nitrosodiphenylamine	0.23	U
91203	Naphthalene	0.23	U
98953	Nitrobenzene	0.23	U
87865	Pentachlorophenol	0.23	U
85018	Phenanthrene	0.23	U
108952	Phenol	0.23	U
129000	Pyrene	0.23	U

Total Target Concentration 0.67

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Formle/lf
ORGANICS SEMIVOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AB20296 **Matrix:** Soil
Client Id: PG-FILL25-120100S **Initial Volume:** 30g
Data File: FU2693 **Final Volume:** 1ml
Date Analyzed: 11 Dec 2000 16:06 **Dilution Factor:** 1
Date Received/Extracted: 12/4/2000-12/8/2000 **Percent Solids:** 71

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration mg/Kg</i>
1		unknown	3.180	1.5 J
2	000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.490	31 J AB U
3	000110-12-3	2-Hexanone, 5-methyl-	3.970	0.99 J
4		unknown	4.320	1.5 J
5		unknown	5.110	0.48 J
6		unknown	5.350	1.0 J
7	000124-07-2	Octanoic acid	6.950	1.6 J
8	024927-67-1	Octanoic acid, silver(1+) salt	7.040	1.8 J
9	000112-12-9	2-Undecanone	7.940	0.90 J
10	000143-07-7	Dodecanoic acid	10.060	9.0 J
11	000544-63-8	Tetradecanoic acid	11.330	14 J
12		unknown	11.710	0.56 J
13	000544-63-8	Tetradecanoic acid	11.850	1.3 J
14	000057-10-3	Hexadecanoic acid	12.700	130 J
15	001120-16-7	Dodecanamide	14.620	6.8 J
16	033707-76-5	Pyrrolidine, 1-(1-oxooctadecyl)-	15.470	1.6 J
17	000112-95-8	Eicosane	16.310	0.91 J
18	007616-22-0	.gamma.-Tocopherol	17.360	1.3 J
19	000112-95-8	Eicosane	17.500	0.52 J
20	000059-02-9	Vitamin E	17.680	0.82 J
21	000057-88-5	Cholest-5-en-3-ol (3.beta.)-	17.740	3.3 J
22	000000-00-0	ERGOST-5-EN-3.BETA.-OL	18.160	1.3 J
23	000083-48-7	Stigmasta-5,22-dien-3-ol, (3.beta.,22E)-	18.260	1.8 J
24	000083-47-6	Stigmast-5-en-3-ol, (3.beta.,24S)-	18.540	2.8 J
25		unknown	18.590	0.47 J

Total Tentatively Identified Concentration 220

A - Indicates an aldol condensate.

J - Indicates an estimated value

B - Indicates the analyte was found in the blank as well as in the sample.

Control File h:\import\64115.txt

Formle/lf
ORGANICS SEMIVOLATILE REPORT
Tentatively Identified Compounds

450

Sample Number: AB20297(R) **Matrix:** Soil
Client Id: PG-L-01-120100SO0 **Initial Volume:** 30g
Data File: FU2697 **Final Volume:** 1ml
Date Analyzed: 11 Dec 2000 18:36 **Dilution Factor:** 1
Date Received/Extracted: 12/4/2000-12/11/2000 **Percent Solids:** 42

Hit#	Cas Number	Compound	RT	Concentration mg/Kg
1		unknown	3.140	0.49 J B U
2	000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.430	20 J AB U
3		unknown	4.290	0.81 J B U
4		unknown	5.320	1.4 J
5		unknown	8.230	0.64 J
6	000143-07-7	Dodecanoic acid	9.970	3.4 J
7	000544-63-8	Tetradecanoic acid	11.300	9.6 J
8	000057-10-3	Hexadecanoic acid	12.760	300 J
9	000000-00-0	HEPTADECENE-(8)-CARBONIC ACID-(1)	13.640	34 J
10		unknown	14.430	1.3 J
11	000629-99-2	Pentacosane	15.490	1.7 J
12	000593-45-3	Octadecane	16.710	0.51 J
13	000630-06-8	Hexatriacontane	17.100	0.66 J
14	007616-22-0	.gamma.-Tocopherol	17.350	1.0 J
15		unknown	17.610	0.77 J
16	000059-02-9	Vitamin E	17.670	2.6 J
17		unknown	17.730	0.72 J
18		unknown	17.880	0.65 J
19	000000-00-0	ERGOST-5-EN-3.BETA.-OL	18.160	2.2 J
20	000083-48-7	Stigmasta-5,22-dien-3-ol, (3.beta.,22E)-	18.260	1.3 J
21		unknown	18.380	1.4 J
22	000083-47-6	Stigmast-5-en-3-ol, (3.beta.,24S)-	18.550	17 J
23		unknown	18.600	3.3 J
24		unknown	18.760	0.47 J
25		unknown	19.000	0.49 J

Total Tentatively Identified Concentration 410

A - Indicates an aldol condensate.

J - Indicates an estimated value

B - Indicates the analyte was found in the blank as well as in the sample.

Control File h:\import\74652.txt

Form 1
ORGANICS SEMIVOLATILE REPORT

Sample Number: AB20298

Matrix: Soil

Client Id: PG-L-01-120100SO04

Initial Volume: 30g

Data File: FU2666

Final Volume: 1ml

Date Analyzed: 10 Dec 2000 15:48

Dilution Factor: 1

Date Received/Extracted: 12/4/2000-12/8/2000

Percent Solids: 79

Column: Supelco 105 m volcol col, 5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
120821	1,2,4-Trichlorobenzene	0.21	U
95501	1,2-Dichlorobenzene	0.21	U
122667	1,2-Diphenylhydrazine	0.042	U
541731	1,3-Dichlorobenzene	0.21	U
106467	1,4-Dichlorobenzene	0.21	U
88062	2,4,6-Trichlorophenol	0.21	U
120832	2,4-Dichlorophenol	0.21	U
105679	2,4-Dimethylphenol	0.21	U
51285	2,4-Dinitrophenol	0.42	U
121142	2,4-Dinitrotoluene	0.21	U
606202	2,6-Dinitrotoluene	0.21	U
91587	2-Chloronaphthalene	0.21	U
95578	2-Chlorophenol	0.21	U
88755	2-Nitrophenol	0.21	U
91941	3,3'-Dichlorobenzidine	0.21	U
121142	4,6-Dinitro-2-methylphenol	0.21	U
101553	4-Bromophenyl-phenylether	0.21	U
59507	4-Chloro-3-methylphenol	0.21	U
7005723	4-Chlorophenyl-phenylether	0.21	U
100027	4-Nitrophenol	0.21	U
83329	Acenaphthene	0.21	U
208968	Acenaphthylene	0.21	U
120127	Anthracene	0.21	U
92875	Benzidine	0.42	U
56553	Benzo[a]anthracene	0.21	U
50328	Benzo[a]pyrene	0.21	U
205992	Benzo[b]fluoranthene	0.21	U
191242	Benzo[g,h,i]perylene	0.21	U
207089	Benzo[k]fluoranthene	0.21	U
111911	Bis(2-Chloroethoxy)methane	0.21	U
111444	Bis(2-Chloroethyl)Ether	0.21	U
108601	Bis(2-Chloroisopropyl)ether	0.21	U
117817	Bis(2-Ethylhexyl)phthalate	0.21	U
85687	Butylbenzylphthalate	0.21	U
218019	Chrysene	0.21	U
117840	Di-n-octylphthalate	0.21	U
84742	Di-n-butylphthalate	0.21	U
53703	Dibenzof[a,h]Anthracene	0.21	U
84662	Diethylphthalate	0.21	U
131113	Dimethylphthalate	0.21	U
206440	Fluoranthene	0.21	U
86737	Fluorene	0.21	U
118741	Hexachlorobenzene	0.21	U
87683	Hexachlorobutadiene	0.21	U
77474	Hexachlorocyclopentadiene	0.63	U
67721	Hexachloroethane	0.21	U
193395	Indeno[1,2,3-cd]pyrene	0.21	U
78591	Isophorone	0.21	U
621647	N-Nitroso-Di-N-Propylamine	0.21	U
62759	N-Nitrosodimethylamine	0.21	U
86306	N-Nitrosodiphenylamine	0.21	U
91203	Naphthalene	0.21	U
98953	Nitrobenzene	0.21	U
87865	Pentachlorophenol	0.21	U
85018	Phenanthrene	0.21	U
108952	Phenol	0.21	U
129000	Pyrene	0.21	U

0.15 JB U
0.11 JB U
0.098 J-0.998 J

Total Target Concentration 0.36

- U - Indicates the compound was analyzed but not detected.
- J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
- B - Indicates the analyte was found in the blank as well as in the sample.
- E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Form 1
ORGANICS SEMIVOLATILE REPORT

Sample Number: AB20305

Matrix: Soil

Client Id: PG-PD-5-120200S001

Initial Volume: 30g

Data File: FU2656

Final Volume: 1ml

Date Analyzed: 8 Dec 2000 22:09

Dilution Factor: 1

Date Received/Extracted: 12/4/2000-12/8/2000

Percent Solids: 88

Column: Supelco 105 m volcol col, .5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
120821	1,2,4-Trichlorobenzene	0.19	U
95501	1,2-Dichlorobenzene	0.19	U
122667	1,2-Diphenylhydrazine	0.038	U
541731	1,3-Dichlorobenzene	0.19	U
106467	1,4-Dichlorobenzene	0.19	U
88062	2,4,6-Trichlorophenol	0.19	U
120832	2,4-Dichlorophenol	0.19	U
105679	2,4-Dimethylphenol	0.19	U
51285	2,4-Dinitrophenol	0.38	U
121142	2,4-Dinitrotoluene	0.19	U
606202	2,6-Dinitrotoluene	0.19	U
91587	2-Chloronaphthalene	0.19	U
95578	2-Chlorophenol	0.19	U
88755	2-Nitrophenol	0.19	U
91941	3,3'-Dichlorobenzidine	0.19	U
121142	4,6-Dinitro-2-methylphenol	0.19	U
101553	4-Bromophenyl-phenylether	0.19	U
59507	4-Chloro-3-methylphenol	0.19	U
7005723	4-Chlorophenyl-phenylether	0.19	U
100027	4-Nitrophenol	0.19	U
83329	Acenaphthene	0.19	U
208968	Acenaphthylene	0.19	U
120127	Anthracene	0.19	U
92875	Benzidine	0.38	U
56553	Benzo[a]anthracene	0.19	0.12 J
50328	Benzo[a]pyrene	0.19	0.14 J
205992	Benzo[b]fluoranthene	0.19	0.28
191242	Benzo[g,h,i]perylene	0.19	0.050 J
207089	Benzo[k]fluoranthene	0.19	0.077 J
111911	Bis(2-Chloroethoxy)methane	0.19	U
111444	Bis(2-Chloroethyl)Ether	0.19	U
108601	Bis(2-Chloroisopropyl)ether	0.19	U
117817	Bis(2-Ethylhexyl)phthalate	0.19	0.19 B U
85687	Butylbenzylphthalate	0.19	U
218019	Chrysene	0.19	0.15 J
117840	DI-n-octylphthalate	0.19	0.20 B U
84742	Di-n-butylphthalate	0.19	0.075 J
53703	Dibenz[a,h]Anthracene	0.19	U
84662	Diethylphthalate	0.19	U
131113	Dimethylphthalate	0.19	U
206440	Fluoranthene	0.19	0.17 J
86737	Fluorene	0.19	U
118741	Hexachlorobenzene	0.19	U
87683	Hexachlorobutadiene	0.19	U
77474	Hexachlorocyclopentadiene	0.57	U
67721	Hexachloroethane	0.19	U
193395	Indeno[1,2,3-cd]pyrene	0.19	0.049 J
78591	Isophorone	0.19	U
621647	N-Nitroso-Di-N-Propylamine	0.19	U
62759	N-Nitrosodimethylamine	0.19	U
86306	N-Nitrosodiphenylamine	0.19	U
91203	Naphthalene	0.19	0.046 J
98953	Nitrobenzene	0.19	U
87865	Pentachlorophenol	0.19	U
85018	Phenanthrene	0.19	0.098 J
108952	Phenol	0.19	U
129000	Pyrene	0.19	0.16 J

Total Target Concentration 1.8

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Form 1
ORGANICS SEMIVOLATILE REPORT

Sample Number: AB20307 **Matrix:** Soil
Client Id: PG-PD-4-120200SO05 **Initial Volume:** 30g
Data File: FU2668 **Final Volume:** 1ml
Date Analyzed: 10 Dec 2000 16:39 **Dilution Factor:** 1
Date Received/Extracted: 12/4/2000-12/8/2000 **Percent Solids:** 82
Column: Supelco 105 m volcol col,.5 mm id, 3.0 um film

505

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
120821	1,2,4-Trichlorobenzene	0.20	U
95501	1,2-Dichlorobenzene	0.20	U
122667	1,2-Diphenylhydrazine	0.041	U
541731	1,3-Dichlorobenzene	0.20	U
106467	1,4-Dichlorobenzene	0.20	U
88062	2,4,6-Trichlorophenol	0.20	U
120832	2,4-Dichlorophenol	0.20	U
105679	2,4-Dimethylphenol	0.20	U
51285	2,4-Dinitrophenol	0.41	U
121142	2,4-Dinitrotoluene	0.20	U
606202	2,6-Dinitrotoluene	0.20	U
91587	2-Chloronaphthalene	0.20	U
95578	2-Chlorophenol	0.20	U
88755	2-Nitrophenol	0.20	U
91941	3,3'-Dichlorobenzidine	0.20	U
121142	4,6-Dinitro-2-methylphenol	0.20	U
101553	4-Bromophenyl-phenylether	0.20	U
59507	4-Chloro-3-methylphenol	0.20	U
7005723	4-Chlorophenyl-phenylether	0.20	U
100027	4-Nitrophenol	0.20	U
83329	Acenaphthene	0.20	U
208968	Acenaphthylene	0.20	U
120127	Anthracene	0.20	U
92875	Benzidine	0.41	U
56553	Benzo[a]anthracene	0.20	U
50328	Benzo[a]pyrene	0.20	U
205992	Benzo[b]fluoranthene	0.20	U
191242	Benzo[g,h,i]perylene	0.20	U
207089	Benzo[k]fluoranthene	0.20	U
111911	Bis(2-Chloroethoxy)methane	0.20	U
111444	Bis(2-Chloroethyl)Ether	0.20	U
108601	Bis(2-Chloroisopropyl)ether	0.20	U
117817	Bis(2-Ethylhexyl)phthalate	0.20	U
85687	Butylbenzylphthalate	0.20	0.11 JB U
218019	Chrysene	0.20	U
117840	Di-n-octylphthalate	0.20	U
84742	Di-n-butylphthalate	0.20	0.075 JB U
53703	Dibenzol[a,h]Anthracene	0.20	0.093 J
84662	Diethylphthalate	0.20	U
131113	Dimethylphthalate	0.20	U
206440	Fluoranthene	0.20	U
86737	Fluorene	0.20	U
118741	Hexachlorobenzene	0.20	U
87683	Hexachlorobutadiene	0.20	U
77474	Hexachlorocyclopentadiene	0.61	U
67721	Hexachloroethane	0.20	U
193395	Indeno[1,2,3-cd]pyrene	0.20	U
78591	Isophorone	0.20	U
621647	N-Nitroso-Di-N-Propylamine	0.20	U
62759	N-Nitrosodimethylamine	0.20	U
86306	N-Nitrosodiphenylamine	0.20	U
91203	Naphthalene	0.20	U
98953	Nitrobenzene	0.20	U
87865	Pentachlorophenol	0.20	U
85018	Phenanthrene	0.20	U
108952	Phenol	0.20	U
129000	Pyrene	0.20	U

Total Target Concentration 0.28

U - Indicates the compound was analyzed but not detected.
 J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
 B - Indicates the analyte was found in the blank as well as in the sample.
 E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Form 1
ORGANICS SEMIVOLATILE REPORT

Sample Number: AB20308

Matrix: Soil

Client Id: PG-A-01-120200SO02

Initial Volume: 30g

Data File: FU2669

Final Volume: 1ml

Date Analyzed: 10 Dec 2000 17:05

Dilution Factor: 1

Date Received/Extracted: 12/4/2000-12/8/2000

Percent Solids: 80

Column: Supelco 105 m volcol col., 5 mm id, 3.0 um film

509

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
120821	1,2,4-Trichlorobenzene	0.21	U
95501	1,2-Dichlorobenzene	0.21	U
122667	1,2-Diphenylhydrazine	0.042	U
541731	1,3-Dichlorobenzene	0.21	U
106467	1,4-Dichlorobenzene	0.21	U
88062	2,4,6-Trichlorophenol	0.21	U
120832	2,4-Dichlorophenol	0.21	U
105679	2,4-Dimethylphenol	0.21	U
51285	2,4-Dinitrophenol	0.42	U
121142	2,4-Dinitrotoluene	0.21	U
606202	2,6-Dinitrotoluene	0.21	U
91587	2-Chloronaphthalene	0.21	U
95578	2-Chlorophenol	0.21	U
88755	2-Nitrophenol	0.21	U
91941	3,3'-Dichlorobenzidine	0.21	U
121142	4,6-Dinitro-2-methylphenol	0.21	U
101553	4-Bromophenyl-phenylether	0.21	U
59507	4-Chloro-3-methylphenol	0.21	U
7005723	4-Chlorophenyl-phenylether	0.21	U
100027	4-Nitrophenol	0.21	U
83329	Acenaphthene	0.21	U
208968	Acenaphthylene	0.21	U
120127	Anthracene	0.21	0.076 J
92875	Benzidine	0.42	U
56553	Benzo[a]anthracene	0.21	0.24
50328	Benzo[a]pyrene	0.21	0.19 J
205992	Benzo[b]fluoranthene	0.21	0.28
191242	Benzo[g,h,i]perylene	0.21	0.10 J
207089	Benzo[k]fluoranthene	0.21	0.14 J
111911	Bis(2-Chloroethoxy)methane	0.21	U
111444	Bis(2-Chloroethyl)Ether	0.21	U
108601	Bis(2-Chloroisopropyl)ether	0.21	U
117817	Bis(2-Ethylhexyl)phthalate	0.21	0.24 B C
85687	Butylbenzylphthalate	0.21	U
218019	Chrysene	0.21	0.26
117840	Di-n-octylphthalate	0.21	0.082 JB C
84742	Di-n-butylphthalate	0.21	U
53703	Dibenzo[a,h]Anthracene	0.21	0.063 J
84662	Diethylphthalate	0.21	U
131113	Dimethylphthalate	0.21	U
206440	Fluoranthene	0.21	0.36
86737	Fluorene	0.21	U
118741	Hexachlorobenzene	0.21	U
87683	Hexachlorobutadiene	0.21	U
77474	Hexachlorocyclopentadiene	0.62	U
67721	Hexachloroethane	0.21	U
193395	Indeno[1,2,3-cd]pyrene	0.21	0.10 J
78591	Isophorone	0.21	U
621647	N-Nitroso-Di-N-Propylamine	0.21	U
62759	N-Nitrosodimethylamine	0.21	U
86306	N-Nitrosodiphenylamine	0.21	U
91203	Naphthalene	0.21	0.16 J
98953	Nitrobenzene	0.21	U
87865	Pentachlorophenol	0.21	U
85018	Phenanthrene	0.21	0.38
108952	Phenol	0.21	U
129000	Pyrene	0.21	0.34

Total Target Concentration 3

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\64115.bt

Form 1
ORGANICS SEMIVOLATILE REPORT

Sample Number: AB20293 Matrix: Soil
 Client Id: PG-FILL10-120100SO04 Initial Volume: 30g
 Data File: FU2654 Final Volume: 1ml
 Date Analyzed: 8 Dec 2000 21:18 Dilution Factor: 1
 Date Received/Extracted: 12/4/2000-12/8/2000 Percent Solids: 42
 Column: Supelco 105 m vocol col., 5 mm id, 3.0 um film

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CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
120821	1,2,4-Trichlorobenzene	0.40	U
95501	1,2-Dichlorobenzene	0.40	U
122667	1,2-Diphenylhydrazine	0.079	U
541731	1,3-Dichlorobenzene	0.40	U
106467	1,4-Dichlorobenzene	0.40	U
88062	2,4,6-Trichlorophenol	0.40	U
120832	2,4-Dichlorophenol	0.40	U
105679	2,4-Dimethylphenol	0.40	U
51285	2,4-Dinitrophenol	0.79	U
121142	2,4-Dinitrotoluene	0.40	U
606202	2,6-Dinitrotoluene	0.40	U
91587	2-Chloronaphthalene	0.40	U
95578	2-Chlorophenol	0.40	U
88755	2-Nitrophenol	0.40	U
91941	3,3'-Dichlorobenzidine	0.40	U
121142	4,6-Dinitro-2-methylphenol	0.40	U
101553	4-Bromophenyl-phenylether	0.40	U
59507	4-Chloro-3-methylphenol	0.40	U
7005723	4-Chlorophenyl-phenylether	0.40	U
100027	4-Nitrophenol	0.40	U
83329	Acenaphthene	0.40	0.14 J
208968	Acenaphthylene	0.40	U
120127	Anthracene	0.40	0.17 J
92875	Benzidine	0.79	U
56553	Benzo[a]anthracene	0.40	0.42
50328	Benzo[a]pyrene	0.40	0.34 J
205992	Benzo[b]fluoranthene	0.40	0.62
191242	Benzo[g,h,i]perylene	0.40	0.11 J
207089	Benzo[k]fluoranthene	0.40	0.30 J
111911	Bis(2-Chloroethoxy)methane	0.40	U
111444	Bis(2-Chloroethyl)Ether	0.40	U
108601	Bis(2-Chloroisopropyl)ether	0.40	U
117817	Bis(2-Ethylhexyl)phthalate	0.40	0.27 JB U
85687	Butylbenzylphthalate	0.40	U
218019	Chrysene	0.40	0.43
117840	Di-n-octylphthalate	0.40	0.15 J U
84742	Di-n-butylphthalate	0.40	0.18 J
53703	Dibenzo[a,h]Anthracene	0.40	U
84662	Diethylphthalate	0.40	U
131113	Dimethylphthalate	0.40	U
206440	Fluoranthene	0.40	0.67
86737	Fluorene	0.40	0.15 J
118741	Hexachlorobenzene	0.40	U
87683	Hexachlorobutadiene	0.40	U
77474	Hexachlorocyclopentadiene	1.2	U
67721	Hexachloroethane	0.40	U
193395	Indeno[1,2,3-cd]pyrene	0.40	0.11 J
78591	isophorone	0.40	U
621647	N-Nitroso-Di-N-Propylamine	0.40	U
62759	N-Nitrosodimethylamine	0.40	U
86306	N-Nitrosodiphenylamine	0.40	U
91203	Naphthalene	0.40	1.9
98953	Nitrobenzene	0.40	U
87865	Pentachlorophenol	0.40	U
85018	Phenanthrene	0.40	0.58
108952	Phenol	0.40	U
129000	Pyrene	0.40	0.58

Total Target Concentration 7.1

U - Indicates the compound was analyzed but not detected.
 J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
 B - Indicates the analyte was found in the blank as well as in the sample.
 E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Form 1e/1f
ORGANICS SEMIVOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AB20293
Client Id: PG-FILL10-120100S
Data File: FU2654
Date Analyzed: 8 Dec 2000 21:18
Date Received/Extracted: 12/4/2000-12/8/2000

Matrix: Soil
Initial Volume: 30g
Final Volume: 1ml
Dilution Factor: 1
Percent Solids: 42

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration mg/Kg</i>
1	001534-08-3	Ethanthioic acid, S-methyl ester	2.680	0.41 J
2		unknown	3.050	3.8 J
3	000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.390	50 J <i>MS U</i>
4		unknown	4.210	2.5 J
5	000079-34-5	Ethane, 1,1,2,2-tetrachloro-	4.270	0.42 J
6		unknown	4.990	0.33 J
7	000124-18-5	Decane	5.140	0.36 J
8	000091-57-6	Naphthalene, 2-methyl-	7.960	0.35 J
9		unknown hydrocarbon	10.370	0.33 J
10	001921-70-6	Pentadecane, 2,6,10,14-tetramethyl-	10.740	0.42 J
11	000072-54-8	p,p'-DDD	13.960	0.38 J
12	000124-25-4	Tetradecanal	14.630	0.38 J
13	000593-45-3	Octadecane	15.770	0.48 J
14	054833-48-6	Heptadecane, 2,6,10,15-tetramethyl-	16.580	0.93 J
15		unknown hydrocarbon	17.150	0.79 J
16	000630-06-8	Hexatriacontane	17.360	0.62 J
17		unknown	17.400	0.63 J
18	000059-02-9	Vitamin E	17.530	0.54 J
19		unknown	17.740	0.88 J
20		unknown	18.070	0.36 J
21	018733-57-8	Silane, trichloroeicosyl-	18.170	2.5 J
22		unknown hydrocarbon	18.350	0.92 J
23		unknown	18.400	1.1 J
24		unknown	18.580	0.57 J
25		unknown	18.930	1.1 J

Total Tentatively Identified Concentration 71

A - Indicates an aldol condensate.

J - Indicates an estimated value

B - Indicates the analyte was found in the blank as well as in the sample.

Control File h:\import\64115.txt

Form I
ORGANICS SEMIVOLATILE REPORT

Sample Number: AB20309

Matrix: Soil

Client Id: PG-L-04-120200SO01

Initial Volume: 30g

Data File: FU2670

Final Volume: 1ml

Date Analyzed: 10 Dec 2000 17:30

Dilution Factor: 1

Date Received/Extracted: 12/4/2000-12/8/2000

Percent Solids: 93

Column: Supelco 105 m volcol col., 5 mm id, 3.0 um film

0.01
0.02
0.03

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
120821	1,2,4-Trichlorobenzene	0.18	U
95501	1,2-Dichlorobenzene	0.18	U
122667	1,2-Diphenylhydrazine	0.036	U
541731	1,3-Dichlorobenzene	0.18	U
106467	1,4-Dichlorobenzene	0.18	U
88062	2,4,6-Trichlorophenol	0.18	U
120832	2,4-Dichlorophenol	0.18	U
105679	2,4-Dimethylphenol	0.18	U
51285	2,4-Dinitrophenol	0.36	U
121142	2,4-Dinitrotoluene	0.18	U
606202	2,6-Dinitrotoluene	0.18	U
91587	2-Chloronaphthalene	0.18	U
95578	2-Chlorophenol	0.18	U
88755	2-Nitrophenol	0.18	U
91941	3,3'-Dichlorobenzidine	0.18	U
121142	4,6-Dinitro-2-methylphenol	0.18	U
101553	4-Bromophenyl-phenylether	0.18	U
59507	4-Chloro-3-methylphenol	0.18	U
7005723	4-Chlorophenyl-phenylether	0.18	U
100027	4-Nitrophenol	0.18	U
83329	Acenaphthene	0.18	U
208968	Acenaphthylene	0.18	U
120127	Anthracene	0.18	U
92875	Benzidine	0.36	U
56553	Benzo[a]anthracene	0.18	U
50328	Benzo[a]pyrene	0.18	U
205992	Benzo[b]fluoranthene	0.18	U
191242	Benzo[g,h,i]perylene	0.18	U
207089	Benzo[k]fluoranthene	0.18	U
111911	Bis(2-Chloroethoxy)methane	0.18	U
111444	Bis(2-Chloroethyl)Ether	0.18	U
108601	Bis(2-Chloroisopropyl)ether	0.18	U
117817	Bis(2-Ethylhexyl)phthalate	0.18	U
85687	Butylbenzylphthalate	0.18	U
218019	Chrysene	0.18	U
117840	Di-n-octylphthalate	0.18	U
84742	Di-n-butylphthalate	0.18	U
53703	Dibenzo[a,h]Anthracene	0.18	U
84662	Diethylphthalate	0.18	U
131113	Dimethylphthalate	0.18	U
206440	Fluoranthene	0.18	U
86737	Fluorene	0.18	U
118741	Hexachlorobenzene	0.18	U
87683	Hexachlorobutadiene	0.18	U
77474	Hexachlorocyclopentadiene	0.54	U
67721	Hexachloroethane	0.18	U
193395	Indeno[1,2,3-cd]pyrene	0.18	U
78591	Isophorone	0.18	U
621647	N-Nitroso-Di-N-Propylamine	0.18	U
62759	N-Nitrosodimethylamine	0.18	U
86306	N-Nitrosodiphenylamine	0.18	U
91203	Naphthalene	0.18	U
98953	Nitrobenzene	0.18	U
87865	Pentachlorophenol	0.18	U
85018	Phenanthrene	0.18	U
108952	Phenol	0.18	U
129000	Pyrene	0.18	U

0.12 JB
0.073 JB
0.091 J

Total Target Concentration 0.28

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Form 1e/1f
ORGANICS SEMIVOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AB20309
Client Id: PG-L-04-120200SO0
Data File: FU2670
Date Analyzed: 10 Dec 2000 17:30
Date Received/Extracted: 12/4/2000-12/8/2000

Matrix: Soil
Initial Volume: 30g
Final Volume: 1ml
Dilution Factor: 1
Percent Solids: 93

6.07
10/10/00

Hit#	Cas Number	Compound	RT	Concentration mg/Kg
1		unknown	2.800	0.16 J
2		unknown	3.160	3.0 J B U
3	000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.510	3.0 J AB U
4		unknown	3.950	0.16 J
5		unknown	4.320	2.0 J B U
6		unknown	5.100	0.19 J
7		unknown	14.250	0.15 J
8		unknown	16.260	0.29 J

Total Tentatively Identified Concentration 45

A - Indicates an aldol condensate.

J - Indicates an estimated value

B - Indicates the analyte was found in the blank as well as in the sample.

Control File h:\import\64115.txt

Form 1
ORGANICS SEMIVOLATILE REPORT

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Sample Number: AB20311

Matrix: Soil

Client Id: PG-L-05-120200SO02

Initial Volume: 30g

Data File: FU2673

Final Volume: 1ml

Date Analyzed: 10 Dec 2000 19:25

Dilution Factor: 1

Date Received/Extracted: 12/4/2000-12/8/2000

Percent Solids: 89

Column: Supelco 105 m vocol col, 5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
120821	1,2,4-Trichlorobenzene	0.19	U
95501	1,2-Dichlorobenzene	0.19	U
122667	1,2-Diphenylhydrazine	0.037	U
541731	1,3-Dichlorobenzene	0.19	U
106467	1,4-Dichlorobenzene	0.19	U
88062	2,4,6-Trichlorophenol	0.19	U
120832	2,4-Dichlorophenol	0.19	U
105679	2,4-Dimethylphenol	0.19	U
51285	2,4-Dinitrophenol	0.37	U
121142	2,4-Dinitrotoluene	0.19	U
606202	2,6-Dinitrotoluene	0.19	U
91587	2-Chloronaphthalene	0.19	U
95578	2-Chlorophenol	0.19	U
88755	2-Nitrophenol	0.19	U
91941	3,3'-Dichlorobenzidine	0.19	U
121142	4,6-Dinitro-2-methylphenol	0.19	U
101553	4-Bromophenyl-phenylether	0.19	U
59507	4-Chloro-3-methylphenol	0.19	U
7005723	4-Chlorophenyl-phenylether	0.19	U
100027	4-Nitrophenol	0.19	U
83329	Acenaphthene	0.19	U
208968	Acenaphthylene	0.19	0.10 J
120127	Anthracene	0.19	0.088 J
92875	Benzidine	0.37	U
56553	Benzo[a]anthracene	0.19	0.31
50328	Benzo[a]pyrene	0.19	0.48
205992	Benzo[b]fluoranthene	0.19	0.67
191242	Benzo[g,h,i]perylene	0.19	0.24
207089	Benzo[k]fluoranthene	0.19	0.30
111911	Bis(2-Chloroethoxy)methane	0.19	U
111444	Bis(2-Chloroethyl)Ether	0.19	U
108601	Bis(2-Chloroisopropyl)ether	0.19	U
117817	Bis(2-Ethylhexyl)phthalate	0.19	0.13 JB U
85687	Butylbenzylphthalate	0.19	U
218019	Chrysene	0.19	0.53
117840	Di-n-octylphthalate	0.19	0.076 JB U
84742	Di-n-butylphthalate	0.19	0.19
53703	Dibenz[a,h]Anthracene	0.19	0.11 J
84662	Diethylphthalate	0.19	U
131113	Dimethylphthalate	0.19	U
206440	Fluoranthene	0.19	0.26
86737	Fluorene	0.19	U
118741	Hexachlorobenzene	0.19	U
87683	Hexachlorobutadiene	0.19	U
77474	Hexachlorocyclopentadiene	0.56	U
67721	Hexachloroethane	0.19	U
193395	Indeno[1,2,3-cd]pyrene	0.19	0.26
78591	Isophorone	0.19	U
621647	N-Nitroso-Di-N-Propylamine	0.19	U
62759	N-Nitrosodimethylamine	0.19	U
86306	N-Nitrosodiphenylamine	0.19	U
91203	Naphthalene	0.19	0.061 J
98953	Nitrobenzene	0.19	U
87865	Pentachlorophenol	0.19	U
85018	Phenanthrene	0.19	0.079 J
108952	Phenol	0.19	U
129000	Pyrene	0.19	0.30

Total Target Concentration 4.2

- U - Indicates the compound was analyzed but not detected.
- J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
- B - Indicates the analyte was found in the blank as well as in the sample.
- E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Form 1e/1f
ORGANICS SEMIVOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AB20312
Client Id: PG-L-05-120200SO0
Data File: FU2671
Date Analyzed: 10 Dec 2000 17:55
Date Received/Extracted: 12/4/2000-12/8/2000

Matrix: Soil
Initial Volume: 30g
Final Volume: 1ml
Dilution Factor: 1
Percent Solids: 84

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration mg/Kg</i>
1		unknown	3.110	0.24 J B U
2	000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.430	12 J AB U
3		unknown	4.290	0.45 J B U
4	007098-22-8	Tetratetracontane	15.050	0.17 J
5	007098-22-8	Tetratetracontane	15.490	0.18 J
6		unknown	15.760	0.18 J
7	000630-06-8	Hexatriacontane	15.910	0.19 J
8	054789-40-1	Heptanamide, 4-ethyl-5-methyl-	16.250	0.39 J
9	000638-67-5	Tricosane	16.710	0.16 J

Total Tentatively Identified Concentration 14

A - Indicates an aldol condensate.

J - Indicates an estimated value

B - Indicates the analyte was found in the blank as well as in the sample.

Control File h:\import\64115.txt

Form1
ORGANICS SEMIVOLATILE REPORT

Sample Number: AB20313 Matrix: Soil
 Client Id: PG-D-04-120200SO01 Initial Volume: 30g
 Data File: FU2692 Final Volume: 1ml
 Date Analyzed: 11 Dec 2000 15:41 Dilution Factor: 1
 Date Received/Extracted: 12/4/00-12/8/00 Percent Solids: 85
 Column: Supelco 105 m vocol col, 5 mm id, 3.0 um film

529

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
120821	1,2,4-Trichlorobenzene	0.20	U
95501	1,2-Dichlorobenzene	0.20	U
122667	1,2-Diphenylhydrazine	0.039	U
541731	1,3-Dichlorobenzene	0.20	U
106467	1,4-Dichlorobenzene	0.20	U
88062	2,4,6-Trichlorophenol	0.20	U
120832	2,4-Dichlorophenol	0.20	U
105679	2,4-Dimethylphenol	0.20	U
51285	2,4-Dinitrophenol	0.39	U
121142	2,4-Dinitrotoluene	0.20	U
606202	2,6-Dinitrotoluene	0.20	U
91587	2-Chloronaphthalene	0.20	U
95578	2-Chlorophenol	0.20	U
88755	2-Nitrophenol	0.20	U
91941	3,3'-Dichlorobenzidine	0.20	U
121142	4,6-Dinitro-2-methylphenol	0.20	U
101553	4-Bromophenyl-phenylether	0.20	U
59507	4-Chloro-3-methylphenol	0.20	U
7005723	4-Chlorophenyl-phenylether	0.20	U
100027	4-Nitrophenol	0.20	U
83329	Acenaphthene	0.20	U
208968	Acenaphthylene	0.20	0.15 J
120127	Anthracene	0.20	0.14 J
92875	Benzidine	0.39	U
56553	Benzo[a]anthracene	0.20	0.52
50328	Benzo[a]pyrene	0.20	0.54
205992	Benzo[b]fluoranthene	0.20	1.3
191242	Benzo[g,h,i]perylene	0.20	0.12 J
207089	Benzo[k]fluoranthene	0.20	0.39
111911	Bis(2-Chloroethoxy)methane	0.20	U
111444	Bis(2-Chloroethyl)Ether	0.20	U
108601	Bis(2-Chloroisopropyl)ether	0.20	U
117817	Bis(2-Ethylhexyl)phthalate	0.20	0.13 JB
85687	Butylbenzylphthalate	0.20	U
218019	Chrysene	0.20	0.59
117840	Di-n-octylphthalate	0.20	0.16 JB
84742	Di-n-butylphthalate	0.20	0.11 J
53703	Dibenzo[a,h]Anthracene	0.20	0.046 J
84662	Diethylphthalate	0.20	U
131113	Dimethylphthalate	0.20	U
206440	Fluoranthene	0.20	0.76
86737	Fluorene	0.20	U
118741	Hexachlorobenzene	0.20	U
87683	Hexachlorobutadiene	0.20	U
77474	Hexachlorocyclopentadiene	0.59	U
67721	Hexachloroethane	0.20	U
193395	Indeno[1,2,3-cd]pyrene	0.20	0.15 J
78591	Isophorone	0.20	U
621647	N-Nitroso-Di-N-Propylamine	0.20	U
62759	N-Nitrosodimethylamine	0.20	U
86306	N-Nitrosodiphenylamine	0.20	U
91203	Naphthalene	0.20	0.075 J
98953	Nitrobenzene	0.20	U
87865	Pentachlorophenol	0.20	U
85018	Phenanthrene	0.20	0.41
108952	Phenol	0.20	U
129000	Pyrene	0.20	0.82

Total Target Concentration 6.4

U - Indicates the compound was analyzed but not detected.
 J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
 B - Indicates the analyte was found in the blank as well as in the sample.
 E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Formle/lf
ORGANICS SEMIVOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AB20314	Matrix: Soil
Client Id: PG-D-4A-120200SO0	Initial Volume: 30g
Data File: FS3691	Final Volume: 1ml
Date Analyzed: 10 Dec 2000 15:43	Dilution Factor: 1
Date Received/Extracted: 12/4/2000-12/9/2000	Percent Solids: 77

Hit#	Cas Number	Compound	RT	Concentration mg/Kg
1	000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.600	12 J A B U
2		unknown	4.440	0.33 J B U
3	000079-34-5	Ethane, 1,1,2,2-tetrachloro-	4.500	0.21 J B U
4	010544-50-0	Sulfur, mol. (S8)	10.420	0.26 J
5	000791-28-6	Phosphine oxide, triphenyl-	12.190	1.3 J

Total Tentatively Identified Concentration 14

A - Indicates an aldol condensate.

J - Indicates an estimated value

B - Indicates the analyte was found in the blank as well as in the sample.

Control File h:\import\64115.txt

Form 1e/1f
 ORGANICS SEMIVOLATILE REPORT
 Tentatively Identified Compounds

Sample Number: AB20315

Matrix: Soil

Client Id: PG-RR10-120200SO0

Initial Volume: 30g

Data File: FS3702

Final Volume: 1ml

Date Analyzed: 10 Dec 2000 19:55

Dilution Factor: 1

Date Received/Extracted: 12/4/2000-12/9/2000

Percent Solids: 74

Hit#	Cas Number	Compound	RT	Concentration mg/Kg
1	000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.590	4.0 J U
2	004537-11-5	Benzene, (1-butylhexyl)-	7.780	9.8 J
3	004537-12-6	Benzene, (1-propylheptyl)-	7.820	7.7 J
4	018335-15-4	Benzene, (1-ethylhexyl)-	7.920	5.8 J
5	004537-14-8	Benzene, (1-pentylhexyl)-	8.200	17 J
6	004537-15-9	Benzene, (1-butylheptyl)-	8.220	32 J
7	004536-86-1	Benzene, (1-propyloctyl)-	8.280	25 J
8	004536-88-3	Benzene, (1-methyldecyl)-	8.560	21 J
9	002719-62-2	Benzene, (1-pentylheptyl)-	8.650	30 J
10	002719-63-3	Benzene, (1-butyloctyl)-	8.670	25 J
11	002719-64-4	Benzene, (1-propylonyl)-	8.730	20 J
12		unknown	8.780	1.8 J
13	002400-00-2	Benzene, (1-ethyldecyl)-	8.840	17 J
14		unknown	8.900	2.2 J
15	002613-76-5	1H-Indene, 2,3-dihydro-1,1,3-trimethyl-	8.930	2.3 J
16	004534-51-4	Benzene, (1-propyldecyl)-	9.190	15 J
17	004534-52-5	Benzene, (1-ethylundecyl)-	9.310	13 J
18	055682-84-3	Naphthalene, 1-heptyl-1,2,3,4-tetrahydro	9.410	2.0 J
19	004534-53-6	Benzene, (1-methyldodecyl)-	9.490	13 J
20		unknown	9.530	4.4 J
21		unknown	9.540	2.7 J
22		unknown	9.580	3.6 J
23		unknown	9.650	3.3 J
24		unknown	9.770	2.4 J
25	004534-59-2	Benzene, (1-methyltridecyl)-	9.960	1.8 J

Total Tentatively Identified Concentration 280

A - Indicates an aldol condensate.

J - Indicates an estimated value

B - Indicates the analyte was found in the blank as well as in the sample.

Control File h:\import\64115.txt

Form1
ORGANICS SEMIVOLATILE REPORT

Sample Number: AB20316(5x)

Matrix: Soil

Client Id: PG-RR10-120200SO05

Initial Volume: 30g

Data File: FS3719

Final Volume: 1ml

Date Analyzed: 11 Dec 2000 13:46

Dilution Factor: 5

Date Received/Extracted: 12/4/00-12/9/00

Percent Solids: 76

Column: Supelco 105 m volcol col., 5 mm id, 3.0 um film

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
120821	1,2,4-Trichlorobenzene	1.1	U
95501	1,2-Dichlorobenzene	1.1	U
122667	1,2-Diphenylhydrazine	0.22	U
541731	1,3-Dichlorobenzene	1.1	U
106467	1,4-Dichlorobenzene	1.1	U
88062	2,4,6-Trichlorophenol	1.1	U
120832	2,4-Dichlorophenol	1.1	U
105679	2,4-Dimethylphenol	1.1	U
51285	2,4-Dinitrophenol	2.2	U
121142	2,4-Dinitrotoluene	1.1	U
606202	2,6-Dinitrotoluene	1.1	U
91587	2-Chloronaphthalene	1.1	U
95578	2-Chlorophenol	1.1	U
88755	2-Nitrophenol	1.1	U
91941	3,3'-Dichlorobenzidine	1.1	U
121142	4,6-Dinitro-2-methylphenol	1.1	U
101553	4-Bromophenyl-phenylether	1.1	U
59507	4-Chloro-3-methylphenol	1.1	U
7005723	4-Chlorophenyl-phenylether	1.1	U
100027	4-Nitrophenol	1.1	U
83329	Acenaphthene	1.1	U
208968	Acenaphthylene	1.1	U
120127	Anthracene	1.1	U
92875	Benzidine	2.2	U
56553	Benzo[a]anthracene	1.1	U
50328	Benzo[a]pyrene	1.1	U
205992	Benzo[b]fluoranthene	1.1	U
191242	Benzo[g,h,i]perylene	1.1	U
207089	Benzo[k]fluoranthene	1.1	U
111911	Bis(2-Chloroethoxy)methane	1.1	U
111444	Bis(2-Chloroethyl)Ether	1.1	U
108601	Bis(2-Chloroisopropyl)ether	1.1	U
117817	Bis(2-Ethylhexyl)phthalate	1.1	0.60 JB U
85687	Butylbenzylphthalate	1.1	U
218019	Chrysene	1.1	U
117840	Di-n-octylphthalate	1.1	U
84742	Di-n-butylphthalate	1.1	U
53703	Dibenzo[a,h]Anthracene	1.1	U
84662	Diethylphthalate	1.1	U
131113	Dimethylphthalate	1.1	U
206440	Fluoranthene	1.1	0.26 J
86737	Fluorene	1.1	U
118741	Hexachlorobenzene	1.1	U
87683	Hexachlorobutadiene	1.1	U
77474	Hexachlorocyclopentadiene	3.3	U
67721	Hexachloroethane	1.1	U
193395	Indeno[1,2,3-cd]pyrene	1.1	U
78591	Isophorone	1.1	U
621647	N-Nitroso-Di-N-Propylamine	1.1	U
62759	N-Nitrosodimethylamine	1.1	U
86306	N-Nitrosodiphenylamine	1.1	U
91203	Naphthalene	1.1	U
98953	Nitrobenzene	1.1	U
87865	Pentachlorophenol	1.1	U
85018	Phenanthrene	1.1	0.44 J
108952	Phenol	1.1	U
129000	Pyrene	1.1	U

Total Target Concentration 1.4

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Formle/1f
ORGANICS SEMIVOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AB20316(5x) **Matrix:** Soil
Client Id: PG-RR10-120200SO0 **Initial Volume:** 30g
Data File: FS3719 **Final Volume:** 1ml
Date Analyzed: 11 Dec 2000 13:46 **Dilution Factor:** 5
Date Received/Extracted: 12/4/00-12/9/00 **Percent Solids:** 76

542

Hit#	Cas Number	Compound	RT	Concentration mg/Kg
1	000124-07-2	Octanoic acid	6.400	16 J
2		unknown	7.870	39 J
3	000143-07-7	Dodecanoic acid	7.960	180 J
4	000143-07-7	Dodecanoic acid	8.020	380 J
5	000143-07-7	Dodecanoic acid	8.040	190 J
6		unknown	8.090	520 J
7	055191-25-8	Benzene, (1,1-dimethylnonyl)-	8.120	210 J
8		unknown	8.260	59 J
9	000000-00-0	ISOMERIC DODECYLBENZENE	8.290	20 J
10	000000-00-0	ISOMERIC DODECYLBENZENE	8.440	55 J
11	027854-40-6	Benzene, (1,1-dimethyldecyl)-	8.520	20 J
12	000000-00-0	ISOMERIC DODECYLBENZENE	8.550	46 J
13	027854-41-7	Tridecane, 2-methyl-2-phenyl-	8.590	39 J
14	055134-07-1	Benzene, (1,1,4,6,6-pentamethylheptyl)-	8.630	45 J
15	002719-63-3	Benzene, (1-butyldecyl)-	8.660	15 J
16		unknown	8.720	22 J
17	000544-63-8	Tetradecanoic acid	8.830	220 J
18	000544-63-8	Tetradecanoic acid	8.890	400 J
19	004534-51-4	Benzene, (1-propyldecyl)-	9.180	19 J
20	004534-52-5	Benzene, (1-ethylundecyl)-	9.300	21 J
21	004534-53-6	Benzene, (1-methyldodecyl)-	9.490	21 J
22		unknown	9.650	52 J
23	000638-53-9	Tridecanoic acid	9.780	470 J
24	013481-95-3	10-Octadecenoic acid, methyl ester	10.620	860 J
25	000057-11-4	Octadecanoic acid	10.680	120 J

Total Tentatively Identified Concentration 4000

A - Indicates an aldol condensate.

J - Indicates an estimated value.

B - Indicates the analyte was found in the blank as well as in the sample.

Control File h:\import\91342.txt

Form 1
ORGANICS SEMIVOLATILE REPORT

Sample Number: AB20317

Matrix: Soil

Client Id: PG-FILL08-120200SO01

Initial Volume: 30g

Data File: FS3711

Final Volume: 1ml

Date Analyzed: 10 Dec 2000 23:43

Dilution Factor: 1

Date Received/Extracted: 12/4/2000-12/9/2000

Percent Solids: 84

Column: Supelco 105 m volcol col, .5 mm id, 3.0 um film

545

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
120821	1,2,4-Trichlorobenzene	0.20	U
95501	1,2-Dichlorobenzene	0.20	U
122667	1,2-Diphenylhydrazine	0.040	U
541731	1,3-Dichlorobenzene	0.20	U
106467	1,4-Dichlorobenzene	0.20	U
88062	2,4,6-Trichlorophenol	0.20	U
120832	2,4-Dichlorophenol	0.20	U
105679	2,4-Dimethylphenol	0.20	U
51285	2,4-Dinitrophenol	0.40	U
121142	2,4-Dinitrotoluene	0.20	U
606202	2,6-Dinitrotoluene	0.20	U
91587	2-Chloronaphthalene	0.20	U
95578	2-Chlorophenol	0.20	U
88755	2-Nitrophenol	0.20	U
91941	3,3'-Dichlorobenzidine	0.20	U
121142	4,6-Dinitro-2-methylphenol	0.20	U
101553	4-Bromophenyl-phenylether	0.20	U
59507	4-Chloro-3-methylphenol	0.20	U
7005723	4-Chlorophenyl-phenylether	0.20	U
100027	4-Nitrophenol	0.20	U
83329	Acenaphthene	0.20	U
208968	Acenaphthylene	0.20	0.065 J
120127	Anthracene	0.20	0.11 J
92875	Benzidine	0.40	U
56553	Benzo[a]anthracene	0.20	0.26
50328	Benzo[a]pyrene	0.20	0.25
205992	Benzo[b]fluoranthene	0.20	0.50
191242	Benzo[g,h,i]perylene	0.20	0.22
207089	Benzo[k]fluoranthene	0.20	0.17 J
111911	Bis(2-Chloroethoxy)methane	0.20	U
111444	Bis(2-Chloroethyl)Ether	0.20	U
108601	Bis(2-Chloroisopropyl)ether	0.20	U
117817	Bis(2-Ethylhexyl)phthalate	0.20	0.20 B U
85687	Butylbenzylphthalate	0.20	U
218019	Chrysene	0.20	0.33
117840	Di-n-octylphthalate	0.20	0.978 JB U
84742	Di-n-butylphthalate	0.20	U
53703	Dibenzof[a,h]Anthracene	0.20	0.075 J
84662	Diethylphthalate	0.20	U
131113	Dimethylphthalate	0.20	0.048 J
206440	Fluoranthene	0.20	0.40
86737	Fluorene	0.20	U
118741	Hexachlorobenzene	0.20	U
87683	Hexachlorobutadiene	0.20	U
77474	Hexachlorocyclopentadiene	0.60	U
67721	Hexachloroethane	0.20	U
193395	Indeno[1,2,3-cd]pyrene	0.20	0.20
78591	Isophorone	0.20	U
621647	N-Nitroso-Di-N-Propylamine	0.20	U
62759	N-Nitrosodimethylamine	0.20	U
86306	N-Nitrosodiphenylamine	0.20	U
91203	Naphthalene	0.20	0.040 J
98953	Nitrobenzene	0.20	U
87865	Pentachlorophenol	0.20	U
85018	Phenanthrene	0.20	0.14 J
108952	Phenol	0.20	U
129000	Pyrene	0.20	0.40

Total Target Concentration 3.5

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Form 1e/1f
ORGANICS SEMIVOLATILE REPORT
Tentatively Identified Compounds

57
58
59

Sample Number: AB20317
Client Id: PG-FILL08-120200S
Data File: FS3711
Date Analyzed: 10 Dec 2000 23:43
Date Received/Extracted: 12/4/2000-12/9/2000

Matrix: Soil
Initial Volume: 30g
Final Volume: 1ml
Dilution Factor: 1
Percent Solids: 84

Hit#	Cas Number	Compound	RT	Concentration mg/Kg
1	000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.630	12 J AB U
2		unknown	4.450	0.43 J B U
3	000124-07-2	Octanoic acid	6.160	0.35 J
4	000334-48-5	Decanoic acid	7.020	0.58 J
5	000615-58-7	Phenol, 2,4-dibromo-	7.050	0.29 J
6	000120-40-1	Dodecanamide, N,N-bis(2-hydroxyethyl)-	7.890	8.5 J
7	000088-19-7	2-TOLUENESULFONAMIDE	8.240	0.43 J
8	000070-55-3	4-TOLUENESULFONAMIDE	8.430	0.42 J
9	.000544-63-8	Tetradecanoic acid	8.760	4.1 J
10	002400-00-2	Benzene, (1-ethyldecyl)-	8.830	0.82 J
11		unknown	9.530	0.32 J
12		unknown	9.580	0.27 J
13	000057-10-3	Hexadecanoic acid	9.690	4.6 J
14	000000-00-0	HEPTADECENE-(8)-CARBONIC ACID-(1)	10.500	5.5 J
15		unknown	10.670	0.39 J
16		unknown	12.200	1.0 J
17		unknown hydrocarbon	13.400	0.50 J
18		unknown	13.780	0.91 J
19		unknown	14.010	1.3 J
20		unknown hydrocarbon	14.080	0.83 J
21		unknown	14.180	0.31 J
22		unknown	14.490	0.46 J
23		unknown hydrocarbon	14.830	0.86 J
24		unknown	15.450	5.1 J
25		unknown	15.670	3.3 J

Total Tentatively Identified Concentration 54

A - Indicates an aldol condensate.
J - Indicates an estimated value
B - Indicates the analyte was found in the blank as well as in the sample.

Control File h:\import\64115.txt

Form I
ORGANICS SEMIVOLATILE REPORT

Sample Number: AB20318

Matrix: Soil

Client Id: PG-FILL08-120200SO04

Initial Volume: 30g

Data File: FS3694

Final Volume: 1ml

Date Analyzed: 10 Dec 2000 16:48

Dilution Factor: 1

Date Received/Extracted: 12/4/2000-12/9/2000

Percent Solids: 48

Column: Supelco 105 m vocol col, .5 mm id, 3.0 um film

549

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
120821	1,2,4-Trichlorobenzene	0.35	U
95501	1,2-Dichlorobenzene	0.35	U
122667	1,2-Diphenylhydrazine	0.069	U
541731	1,3-Dichlorobenzene	0.35	U
106467	1,4-Dichlorobenzene	0.35	U
88062	2,4,6-Trichlorophenol	0.35	U
120832	2,4-Dichlorophenol	0.35	U
105679	2,4-Dimethylphenol	0.35	U
51285	2,4-Dinitrophenol	0.69	U
121142	2,4-Dinitrotoluene	0.35	U
606202	2,6-Dinitrotoluene	0.35	U
91587	2-Chloronaphthalene	0.35	U
95578	2-Chlorophenol	0.35	U
88755	2-Nitrophenol	0.35	U
91941	3,3'-Dichlorobenzidine	0.35	U
121142	4,6-Dinitro-2-methylphenol	0.35	U
101553	4-Bromophenyl-phenylether	0.35	U
59507	4-Chloro-3-methylphenol	0.35	U
7005723	4-Chlorophenyl-phenylether	0.35	U
100027	4-Nitrophenol	0.35	U
83329	Acenaphthene	0.35	U
208968	Acenaphthylene	0.35	U
120127	Anthracene	0.35	U
92875	Benzidine	0.69	U
56553	Benzo[a]anthracene	0.35	U
50328	Benzo[a]pyrene	0.35	U
205992	Benzo[b]fluoranthene	0.35	U
191242	Benzo[g,h,i]perylene	0.35	U
207089	Benzo[k]fluoranthene	0.35	U
111911	Bis(2-Chloroethoxy)methane	0.35	U
111444	Bis(2-Chloroethyl)Ether	0.35	U
108601	Bis(2-Chloroisopropyl)ether	0.35	U
117817	Bis(2-Ethylhexyl)phthalate	0.35	U
85687	Butylbenzylphthalate	0.35	0.15 JB U
218019	Chrysene	0.35	U
117840	Di-n-octylphthalate	0.35	U
84742	Di-n-butylphthalate	0.35	U
53703	Dibenzo[a,h]Anthracene	0.35	U
84662	Diethylphthalate	0.35	U
131113	Dimethylphthalate	0.35	U
206440	Fluoranthene	0.35	U
86737	Fluorene	0.35	U
118741	Hexachlorobenzene	0.35	U
87683	Hexachlorobutadiene	0.35	U
77474	Hexachlorocyclopentadiene	1.0	U
67721	Hexachloroethane	0.35	U
193395	Indeno[1,2,3-cd]pyrene	0.35	U
78591	Isophorone	0.35	U
621647	N-Nitroso-Di-N-Propylamine	0.35	U
62759	N-Nitrosodimethylamine	0.35	U
86306	N-Nitrosodiphenylamine	0.35	U
91203	Naphthalene	0.35	U
98953	Nitrobenzene	0.35	U
87865	Pentachlorophenol	0.35	U
85018	Phenanthrene	0.35	U
108952	Phenol	0.35	U
129000	Pyrene	0.35	U

Total Target Concentration 0.15

U - Indicates the compound was analyzed but not detected.

J - Indicates an estimated value when a compound is detected at less than the specified detection limit.

B - Indicates the analyte was found in the blank as well as in the sample.

E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Control File h:\import\64115.txt

Form I
ORGANICS SEMIVOLATILE REPORT

Sample Number: AB20319 Matrix: Soil
 Client Id: PG-H/R-01-120200SO01 Initial Volume: 30g
 Data File: FS3703 Final Volume: 1ml
 Date Analyzed: 10 Dec 2000 20:21 Dilution Factor: 1
 Date Received/Extracted: 12/4/2000-12/9/2000 Percent Solids: 73
 Column: Supelco 105 m volcol col., 5 mm id, 3.0 um film

553

CAS #	Compound	PQL/MDL	Concentration (Units: mg/Kg)
120821	1,2,4-Trichlorobenzene	0.23	U
95501	1,2-Dichlorobenzene	0.23	U
122667	1,2-Diphenylhydrazine	0.046	U
541731	1,3-Dichlorobenzene	0.23	U
106467	1,4-Dichlorobenzene	0.23	U
88062	2,4,6-Trichlorophenol	0.23	U
120832	2,4-Dichlorophenol	0.23	U
105679	2,4-Dimethylphenol	0.23	U
51285	2,4-Dinitrophenol	0.46	U
121142	2,4-Dinitrotoluene	0.23	U
606202	2,6-Dinitrotoluene	0.23	U
91587	2-Chloronaphthalene	0.23	U
95578	2-Chlorophenol	0.23	U
88755	2-Nitrophenol	0.23	U
91941	3,3'-Dichlorobenzidine	0.23	U
121142	4,6-Dinitro-2-methylphenol	0.23	U
101553	4-Bromophenyl-phenylether	0.23	U
59507	4-Chloro-3-methylphenol	0.23	U
7005723	4-Chlorophenyl-phenylether	0.23	U
100027	4-Nitrophenol	0.23	U
83329	Acenaphthene	0.23	U
208968	Acenaphthylene	0.23	U
120127	Anthracene	0.23	U
92875	Benzidine	0.46	U
56553	Benzo[a]anthracene	0.23	0.070 J
50328	Benzo[a]pyrene	0.23	0.066 J
205992	Benzo[b]fluoranthene	0.23	0.10 J
191242	Benzo[g,h,i]perylene	0.23	U
207089	Benzo[k]fluoranthene	0.23	U
111911	Bis(2-Chloroethoxy)methane	0.23	U
111444	Bis(2-Chloroethyl)Ether	0.23	U
108601	Bis(2-Chloroisopropyl)ether	0.23	U
117817	Bis(2-Ethylhexyl)phthalate	0.23	0.089 JB
85687	Butylbenzylphthalate	0.23	U
218019	Chrysene	0.23	0.086 J
117840	Di-n-octylphthalate	0.23	0.049 JB
84742	Di-n-butylphthalate	0.23	U
53703	Dibenz[a,h]Anthracene	0.23	U
84662	Diethylphthalate	0.23	U
131113	Dimethylphthalate	0.23	U
206440	Fluoranthene	0.23	0.065 J
86737	Fluorene	0.23	U
118741	Hexachlorobenzene	0.23	U
87683	Hexachlorobutadiene	0.23	U
77474	Hexachlorocyclopentadiene	0.68	U
67721	Hexachloroethane	0.23	U
193395	Indeno[1,2,3-cd]pyrene	0.23	U
78591	Isophorone	0.23	U
621647	N-Nitroso-Di-N-Propylamine	0.23	U
62759	N-Nitrosodimethylamine	0.23	U
86306	N-Nitrosodiphenylamine	0.23	U
91203	Naphthalene	0.23	0.11 J
98953	Nitrobenzene	0.23	U
87865	Pentachlorophenol	0.23	U
85018	Phenanthrene	0.23	0.10 J
108952	Phenol	0.23	U
129000	Pyrene	0.23	0.080 J

Total Target Concentration 0.81

U - Indicates the compound was analyzed but not detected.
 J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
 B - Indicates the analyte was found in the blank as well as in the sample.
 E - Indicates the analyte concentration exceeds the calibration range of the instrument.

Formle/lf
ORGANICS SEMIVOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AB20319
Client Id: PG-H/R-01-120200S
Data File: FS3703
Date Analyzed: 10 Dec 2000 20:21
Date Received/Extracted: 12/4/2000-12/9/2000

Matrix: Soil
Initial Volume: 30g
Final Volume: 1ml
Dilution Factor: 1
Percent Solids: 73

<i>Hit#</i>	<i>Cas Number</i>	<i>Compound</i>	<i>RT</i>	<i>Concentration mg/Kg</i>
1	000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.630	18 J AB ✓
2		unknown	4.450	0.56 J B ✓
3	000111-01-3	Tetracosane, 2,6,10,15,19,23-hexamethyl-	8.500	0.19 J
4	002605-67-6	Acetic acid, (triphenylphosphoranylidene	12.190	1.4 J
5		unknown	13.050	0.26 J

Total Tentatively Identified Concentration 20

A - Indicates an aldol condensate.

J - Indicates an estimated value

B - Indicates the analyte was found in the blank as well as in the sample.

Control File h:\import\64115.txt

Formle/f
ORGANICS SEMIVOLATILE REPORT
Tentatively Identified Compounds

88

Sample Number: AB20320(R)	Matrix: Soil
Client Id: PG-H/R-01-120200S	Initial Volume: 30g
Data File: FU2698	Final Volume: 1ml
Date Analyzed: 11 Dec 2000 19:01	Dilution Factor: 1
Date Received/Extracted: 12/4/2000-12/11/2000	Percent Solids: 50

Hit#	Cas Number	Compound	RT	Concentration mg/Kg
1		unknown	3.100	0.60 J B
2	000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.430	25 J AB
3		unknown	4.290	1.1 J B
4		unknown	5.080	0.27 J B
5		unknown	16.250	6.4 J B
6	000629-50-5	Tridecane	17.870	0.40 J
7	000638-67-5	Tricosane	18.260	0.41 J

} u

Total Tentatively Identified Concentration 29

A - Indicates an aldol condensate.
J - Indicates an estimated value
B - Indicates the analyte was found in the blank as well as in the sample.

Control File h:\import\74652.txt

Premier Environmental Services.

APPENDIX C



Chain-of-Custody

12041615

Materials Engineering Division - 241 Erie Street, Room 234
Jersey City, NJ 07310

Contact Name	Dorion Bailey / Angelos Zafirellis
Contact Phone No.	(201) 216-2963 / (201) 216-2960
Contact Fax No.	(201) 216-2158
Contact Email:	

Facility	Howland Hook
Project Info.	HA-PORT IVORY P&G SITE
Charge Code	501-233-295

Destination Laboratory:	HCV	Lab Case/SDG:	
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EQUIS Sys_Sample_Code Loc(8)Date(6)Matrix(2)Type(2)Counter(2)	Contract Lab Sample ID	Date of Collection Year	Time of Collection	Geotech Cross Id	# of Containers	Preservative Codes (MeOH No.)	Grab or Composite	Parameters/Analytes									
								PPVDA _s + 15 + X ₂ /eq _s	PPBNA ₁₁ + 25	Pest/PCBS	TAL Metals	Cyanide	TPHC	D&G	PH	phenol	ERIS Diskette
PG-G-05-1201005003	AB20277	12/1/00		G-5,5-3	3			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-G-06-	20278			G-6,5-3				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-G-06-	20279			G-6,5-4				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-G-5A-	20280			G-5A,5-3 ^B				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-FS-7-	20281			FS-7,5-2				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-FS-7-	20282			FS-7,5-5				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-D-01-	20283			D-1,5-1				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-D-01-	20284			D-1,5-4				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-D-01-	20285			D-1,5-10				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-D-03-	20286			D-3,5-1				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Sampled By: ZoLi Zeki / Doug Howell
Sampling Method: _____

- Preservatives:
1. Ice
 2. HCl
 3. HNO₃
 4. NaOH
 5. MeOH
 6. H₂SO₄

TAT: _____ STD
OTHER One Week

Deliverables: NI Reduced, Data Sum.
OTHER ERIS Diskette

changed sample id from G-5A,5-3 to G-5A,5-5 per A. Zafirellis 12/4/00 TB.

Relinquished By: <u>[Signature]</u>	Date: <u>12/4/00 8:35</u>	Received By: <u>C. Chivena</u>	Date: <u>12/4 8:35</u>
Relinquished By: _____	Date: _____	Received By: _____	Date: _____
Relinquished By: _____	Date: _____	Received By: _____	Date: _____

3.0°C



Chain-of-Custody

Materials Engineering Division - 241 Erie Street, Room 234
Jersey City, NJ 07310

Contact Name	Dorian Bailey / Angelos Zafirelis
Contact Phone No.	(201) 216-2963 / (201) 216-2960
Contact Fax No.	(201) 216-2158
Contact Email:	

Facility	Howland Hook
Project Info.	HH-PORT IVORY P&G SITE
Charge Code	501-233-295

Destination Laboratory: **HCV** Lab Case/SDG:

EQUS Sys_Sample_Code Loc(8)Date(6)Matrix(2)Type(2)Counter(2)	Contract Lab Sample ID	Date of Collection Year	Time of Collection	Geotech Cross Id	# of Containers	Preservative Codes (MeOH No.)	Grab or Composite	Parameters/Analytes
PG-RR-08-1201005002	AB20287	12/1/00		RR-8, S-2	3			PPVOCs + 15 + Xylene PPBNAH + 25 Pest / PCBs TAL Metals Cyanide TPHC D & G PH phenol ERUIS Diskette
-RR-08-1201005004	20288			RR-8, S-4				
-UST2-3-1201005002	20289			UST2-3, S-2				
-UST2-3-	20290			UST2-3, S-5B				
-UST2-3-	20291			UST2-3, S-7				
-FILL10-	20292			Fill 10, S-2B				
-FILL10-	20293			Fill 10, S-4				
-FILL25-	20294			Fill 25, S-1				
-FILL25-	20295			Fill 25, S-3	✓			
-FILL25-	20296			Fill 25, S-5	1 one jar			

Sampled By: Soly Zaky / Doug Howe / Kiffan
Sampling Method:

Preservatives:
1. Ice 2. HCl 3. HNO3
4. NaOH 5. MeOH 6. H2SO4

TAT: STD
OTHER: One Week

Deliverables: NI Reduced, Data Sum.
OTHER: ERUIS Diskette

Relinquished By: [Signature] Date: 12/4/00 8:35 Received By: C. Arena HCL Date: 12/4 8:35
Relinquished By: _____ Date: _____ Received By: _____ Date: _____
Relinquished By: _____ Date: _____ Received By: _____ Date: _____

3.0°C



Chain-of-Custody

Materials Engineering Division - 241 Erie Street, Room 234
Jersey City, NJ 07310

Contact Name	Dorian Bailey / Angelos Zafirelis
Contact Phone No.	(201) 216-2963 / (201) 216-2960
Contact Fax No.	(201) 216-2158
Contact Email:	

Facility	Howland Hook
Project Info.	HH-PORT IVORY P&G SITE
Charge Code	501-233-295

Destination Laboratory:	HCV	Lab Case/SDG:	
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EQUIS Sys_Sample_Code Loc(8)Date(6)Matrix(2)Type(2)Counter(2)	Contract Lab Sample ID	Date of Collection Year	Time of Collection	Geotech Cross Id	# of Containers	Preservative Codes (MeOH No.)	Grab or Composite	Parameters/Analytes													
								PPVDA _s + 15 + X ₂ /4 ₂	PPBNA _s + 25	Pest/PCBS	TAL Metals	Cyanide	TPHC	DEG	pH	phenol			EQUIS Diskette		
PG- A -01-1201005002	AB20297	12/1/00		L-1, S-2	3			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-L-01-1201005004	20298			L-1, S-4	3			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-FB- 1 -120100WQ01	20299			FB-1	2	HCl		✓													✓
-FB-2-	20300			FB-2	2	HCl		✓													✓
-FB-3-	20301			FB-3	2	HCl		✓													✓
-FB-1-120200WQ01	20302	12/2/00		FB-1	2	HCl		✓													✓
-FB-2- WQ01	20303			FB-2	2	HCl		✓													✓
-FB-3- WQ01	20304			FB-3	2	HCl		✓													✓
-PD-5- S001	20305			PD-5, S-1	3			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-PD-5- S002	20306			PD-5, S-2	3			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Sampled By: Tolu Zaky / Doug Howe / KTH
Sampling Method: _____

Preservatives:
1. Ice 2. HCl 3. HNO3
4. NaOH 5. MeOH 6. H2SO4

TAT: STD
OTHER: One Week

Deliverables: NI Reduced, Data Sum.
OTHER: EQUIS Diskette

Relinquished By: [Signature] Date: 12/4/00 8:35 Received By: C. Armenta HCl Date: 12/4 [Signature]
Relinquished By: _____ Date: _____ Received By: _____ Date: _____
Relinquished By: _____ Date: _____ Received By: _____ Date: _____

3.000



Materials Engineering Division - 241 Erie Street, Room 234
Jersey City, NJ 07310

Contact Name	Dorian Bailey / Angelos Zaffirellis
Contact Phone No.	(201) 216-2963 / (201) 216-2960
Contact Fax No.	(201) 216-2158
Contact Email:	

Facility	Howland Hook
Project Info.	HH-PORT IVORY P&G SITE
Charge Code	501-233-295

Destination Laboratory:	HCV	Lab Case/SDG:	
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EQUIS Sys_Sample_Code Loc(8)Date(6)Matrix(2)Type(2)Counter(2)	Contract Lab Sample ID	Date of Collection Year	Time of Collection	Geotech Cross Id	# of Containers	Preservative Codes (MeOH No.)	Grab or Composite	Parameters/Analytes									
								PPVOCs + 15 + Xylene	PPBNA + 25	Pest/PCBs	TAL Metals	Cyanide	TPHC	P&G	pH	phenol	ERVIS Diskette
PG-PD-4-1202.005005	AB20307	12/4/00		PB-4, S-5	3			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-A-01-	20308			A-1, S-2				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
L-04-	20309			L-4, S-1				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-L-04-	20310			L-4, S-4				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-L-05-	20311			L-5, S-2				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-L-05-	20312			L-5, S-5				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-D-04-	20313			D-4, S-1				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-D-4A-	20314			D-4A, S-5				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-RR10-	20315			RR-10, S-2				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓ -RR10-	✓ 20316	✓		RR-10, S-5	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Sampled By: Soly Zaks/Doug Howe/Killa
Sampling Method: _____

Preservatives:
1. Ice 2. HCl 3. HNO3
4. NaOH 5. MeOH 6. H2SO4

TAT: STD
OTHER One Week

Deliverables: NI Reduced Data Sum.
OTHER ERVIS Diskette

Relinquished By: [Signature] Date: 12/4/00 8:35 Received By: C. Cuena HCl Date: 12/4 8:35
Relinquished By: _____ Date: _____ Received By: _____ Date: _____
Relinquished By: _____ Date: _____ Received By: _____ Date: _____

3.0°C



Chain-of-Custody

Materials Engineering Division - 241 Erie Street, Room 234
Jersey City, NJ 07310

Contact Name	Dorian Bailey / Angelos Zaffirelis
Contact Phone No.	(201) 216-2963 / (201) 216-2960
Contact Fax No.	(201) 216-2158
Contact Email:	

Facility	Howland Hook
Project Info.	HH-PORT IVORY P&G SITE
Charge Code	501-233.295

Destination Laboratory:	HCV	Lab Case/SDG:
-------------------------	-----	---------------

EQUIS Sys_Sample_Code Loc(8)Date(6)Matrix(2)Type(2)Counter(2)	Contract Lab Sample ID	Date of Collection Year	Time of Collection	Geotech Cross Id	# of Containers	Preservative Codes (MeOH No.)	Grab or Composite	Parameters/Analytes													
								PPVDA _s + 15 + Xylene _s	PPBNA _s + 25	Pest/PCBs	TAL Metals	Cyanide	TPHC	D&G	pH	phenol			EQUIS Diskette		
PG-FILL08-1202005001	AB20317	12/2/00		Fill, S-1	3			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-FILL08-	20318			Fill, S-4	3			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-H/R-01-	20319			H/R, S-1	3			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-H/R-01-	20320			H/R, S-2	3			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Sampled By: Sohn Zaffirelis / Dory Howe / U.I.H.
Sampling Method: _____

Preservatives:
1. Ice 2. HCl 3. HNO₃
4. NaOH 5. MeOH 6. H₂SO₄

TAT: STD
OTHER One Week

Deliverables: NI Reduced Data Sum.
OTHER EQUIS Diskette

Relinquished By: [Signature] Date: 12/4/00 8:35 Received By: C. Arnesen HCl Date: 12/4 8:35
Relinquished By: _____ Date: _____ Received By: _____ Date: _____
Relinquished By: _____ Date: _____ Received By: _____ Date: _____

3-02