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New England District

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Task 22F Post-Third Party Validated ELS Egg and Catfish Fry Tissue Chemistry Data Report

CENTREDALE MANOR RESTORATION PROJECT SUPERFUND SITE HUMAN HEALTH AND BASELINE RISK ASSESSMENTS

SDMS DocID 35737

Section 1
2,3,7,8-TCDD and HCX Results

QA/QC Narratives
ELS Tissue and QC Results

QA/QC Narratives

2,3,7,8-TCDD/HCX QA/QC SUMMARY
QC Batch 49038-51 – ELS Catfish Fry

PROJECT: USACE NAE Delivery Order #01 Centredale

PARAMETER: 2,3,7,8-TCDD/HCX by High Resolution Mass Spectrometry (HRMS)

LABORATORY: Battelle, Columbus, OH

MATRIX: ELS Catfish Fry Tissue

SAMPLE CUSTODY: ELS catfish fry samples were received at Battelle Columbus on September 5, 2001 for 2,3,7,8-TCDD/HCX analysis.

Samples were received in good condition and the cooler temperature upon receipt was 0.9 °C. The cooler did not have a seal.

QA/QC MEASUREMENT PERFORMANCE CRITERIA:

	Reference Method	Blank	Surrogate Recovery	LCS/MS Recovery	SRM % Diff.	Replicate Relative Precision	Achieved RL (pg/g wet)	Project Goals * (pg/g wet)
TCDD/ HCX	L-23 Battelle SOP ASAT.II-001-02	<5× MDL, or associated samples > 10× blank values	25-150% Recovery	*LCS*: Method 1613B, Table 6 OPR[a] *MS:* 50-120% Recovery [b]	≤30% PD[c]	≤30% RPD[b, d]	Tetras: 2.15 – 5.70 HCX: 85.81 – 228.18	Tetras : 0.0007 – 0.0616 HCX: 0.0007 – 0.00616

[a] Method 1613B, Table 6 OPR requirements documented on LCS summary report table.
[b] Analyte concentration in MS/MSD must be >5× background to be used for data quality assessment.
[c] Certified values must be >5× the MDL.
[d] *Sample replicate precision:* concentrations in sample replicate must be >10× the MDL.

METHOD: ELS catfish fry tissue samples were processed and analyzed for 2,3,7,8-TCDD and 1,2,4,5,7,8-hexachloroxanthene (HCX) following methods described in Battelle's Quality Assurance Project Plan (Battelle, 2001).

Sample Preparation – The samples were processed in batch 49038-51. Aliquots of each homogenized tissue were weighed into individual jars and mixed with Hydromatrix drying agent. Approximately 2.0 g wet weight of each tissue sample was used. Fourteen tissues plus five QC samples were prepared for 2,3,7,8-TCDD and HCX. The tissue/Hydromatrix mixtures were placed into Accelerated Solvent Extraction (ASE) cells and spiked with $^{13}C_{12}$-labeled PCDD/PCDF internal standard solution. Matrix spike and the laboratory control spike (LCS) samples were spiked with native PCDD/PCDF and HCX at this time. The samples were ASE extracted using $MeCl_2$: hexane (1:1). Each extract was then spiked with 2,3,7,8-TCDD-$^{37}Cl_4$ cleanup standard for monitoring recovery of analytes through the cleanup procedures. Each extract was acid washed. After the acid wash step, the extracts were then processed through acid/base silica, alumina, and carbon cleanup columns. The tissue extracts were spiked with 1,2,3,4-TCDD-$^{13}C_{12}$ and 1,2,3,7,8,9-HxCDD-$^{13}C_{12}$ recovery standard and concentrated to a final sample volume of 20 µL.

METHOD (cont):

2,3,7,8-TCDD/HCX Analysis – Each extract was analyzed by gas chromatography/high resolution mass spectrometry (GC/HRMS) in the selected ion-monitoring mode at a resolution of 10,000 or greater. A DB5 column was used for initial analysis of 2,3,7,8-TCDD and HCX.

The following revisions to Method 1613 as well as several items to note specifically related to these analyses are summarized below:

1. Quality control samples processed with this batch of samples included one method blank, one LCS, one fish standard reference material, one matrix spike, and one sample prepared in duplicate.

2. The GC/HRMS instrumentation was calibrated for PCDD/PCDF at levels specified in Method 1613 with one additional calibration standard at concentrations equivalent to ½ the level of Method 1613's lowest calibration point. The calibration range corresponds to the following levels in the samples assuming an average sample wet weight of 2.0 g of tissue and a final sample volume of 20 µL: 2.5 to 2,000 pg/g wet for tetra compounds, 12.5 to 10,000 pg/g wet for penta through hepta compounds, and 25 to 20,000 pg/g wet for octa compounds.

3. 1,2,4,5,7,8-hexachloroxanthene was added to the analyte list for these analyses. HCX was determined by the analysis of an initial calibration curve. 1,2,3,7,8,9-HxCDF-$^{13}C_{12}$ was used as the internal standard for HCX. For HCX the calibration range corresponds to the following levels in the samples assuming an average sample wet weight of 2.0 g of tissue and a final sample volume of 20 µL: 100.0 to 40,000 pg/g wet.

Any additional minor revisions to Method 1613 are fully documented in the analytical record.

HOLDING TIMES:

Samples were prepared for analysis in one analytical batch. Samples were extracted within 8 weeks of collection and analyzed within 9 days of extraction.

Batch	Extraction Date	Analysis Date
49038-51	10/09/2001	10/16-18/2001

DETECTION LIMITS:

2,3,7,8-TCDD and HCX results are reported relative to the sample-specific reporting limits (also referred to as QL in the QAPP) for that compound. The sample-specific RL is based on the low calibration standard and adjusted for sample specific processing factors and volumes, as follow:

RL = (Concentration in Low Std. × final extract volume × dilution factors)/ Sample size

Where,
Concentration in low standard = 0.25 pg/µL for TCDD and 10 pg/µL for HCX
Final Extract Volume = 20 µL
Dilution Factor = documented in project file
Sample Size = approximately 2.0-g wet

Achieved RLs did not meet project detection limit goals for most target compounds. As noted in the QAPP, the project detection limit goals are provided for perspective rather than as a requirement for the analytical methods. If detection limits cannot be achieved, this will be addressed in the uncertainty discussions in the risk assessment.

2,3,7,8-TCDD/HCX QA/QC SUMMARY
QC Batch 49038-51 – ELS Catfish Fry

BLANKS:

One laboratory method blank was processed with the analytical batch. Blanks are analyzed to ensure that the sample extraction and analysis methods were free of contamination.

49038-51– 2,3,7,8-TCDD was detected at a trace level; however, the analyte detected was well below the reporting level.

LABORATORY CONTROL SAMPLE

A laboratory control sample (LCS) was prepared with the analytical batch. The percent recoveries of target compounds were calculated to measure data quality in terms of accuracy.

49038-51– The LCS sample met the criteria found in Table 6 of Method 1613, Revision B for 2,3,7,8-TCDD.

The percent recovery for HCX in the LCS was found to be 63%. There are no applicable accuracy or precision requirements for HCX. This analyte was added to the LCS sample, as it was to the matrix spike samples, to investigate how it behaves in a typical PCDD/PCDF extraction and cleanup process.

MATRIX SPIKES:

One matrix spike (MS) sample set was prepared with the batch to measure data quality in terms of accuracy and precision. The MS was fortified with target compounds to monitor data quality in terms of accuracy and precision.

49038-51– For 2,3,7,8-TCDD, the matrix spike recovery was found to be 100%, which falls within the 50 – 120% limits.

The matrix spike recovery for HCX was 80%. There are no applicable accuracy or precision requirements for HCX. This analyte was added to the matrix spike samples to investigate how well it behaves in a typical PCDD/PCDF extraction and cleanup process. These results demonstrate that HCX is reasonably well recovered in the process.

INTERNAL STANDARDS:

Fifteen internal standards were added to each sample prior to processing, one standard was added after extraction and prior to sample cleanup. Internal standard recoveries for $^{13}C_{12}$-2,3,7,8-TCDD, $^{13}C_{12}$-1,2,3,7,8,9-HxCDF and $^{37}Cl_4$-2,3,7,8-TCDD were calculated to measure data quality in terms of accuracy (sample processing efficiency).

49038-51– Recoveries of internal standards were within 25-150% for all samples.

REPLICATES:

A laboratory duplicate was prepared with the batch. The RPD between laboratory replicate analyses for target compounds was calculated to measure data quality in terms of precision.

49038-51– The relative percent difference (RPD) was not calculated since none of the analytes were detected above the action level of >10× MDL.

2,3,7,8-TCDD/HCX QA/QC SUMMARY
QC Batch 49038-51 – ELS Catfish Fry

SRM: A standard reference material (CIL EDF 2526) was prepared with the analytical batch. The percent difference (PD) between detected concentrations and certified values was calculated to measure data quality in terms of accuracy.

49038-51– 2,3,7,8-TCDD in the SRM was found to be slightly outside the limit of 30% difference from consensus value at 33.7%.

REFERENCES:

Battelle 2001. *Centredale Manor Restoration Project Superfund Site Baseline Risk Assessment, Initial Project Planning and Support.* Tasks 19-22 QAPP prepared under contract to USACE NAE. Delivery Order #59. May 23, 2001. 509pp + apps.

QUALITY ASSURANCE STATEMENT

Project Title: **USACE/NED, Centredale Manor Task 22 Catfish Fry Samples, Batch 1 of 1**

Project Number: **G487002-22F2**

Description of Data: **Catfish fry tissue samples for dioxin/furan**

Description of audit and review activities:
1)Reviewed sample preparation Laboratory Record Books (LRB). Tracked COC from sample receipt to analytical injection. Reviewed standard/spike preparation records. Resolved all resulting LRB numbers (i.e. sample tracking numbers) with analytical designations. Reviewed data package for data recording consistent with Good Laboratory Practices (GLP's).

2)Reviewed analytical (HRMS) data. Reviewed all hand-entered parameters (e.g. sample masses, sample names, calibration curve date, etc) for each analytical run. Reviewed calibrations results to ensure that Relative Response Factors (RRF) were ±20% of calibration RRF. Reviewed 10% data transfer to spreadsheets. Reviewed confirmation runs and accurate data transfer.

3)Reviewed spreadsheets. Accessed e-file of excel spreadsheets and reviewed formula and relative and absolute cell addresses to ensure accurate data transposition.

4)Reviewed report. Ensured report accurately reflected raw data and resulting spreadsheets.

Description of outstanding issues or deficiencies which may affect data quality:
1) Minor QC issues were submitted to the analytical staff for correction, no outstanding issues present.

Zachary Willenberg
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12-13-01
Date

2,3,7,8-TCDD/HCX QA/QC SUMMARY
QC Batch 49038-60 – ELS Eggs

PROJECT: USACE NAE Delivery Order #01 Centredale

PARAMETER: 2,3,7,8-TCDD/HCX by High Resolution Mass Spectrometry (HRMS)

LABORATORY: Battelle, Columbus, OH

MATRIX: ELS Egg Tissue

SAMPLE CUSTODY: ELS egg samples were received at Battelle Columbus on July 17, 2001 for 2,3,7,8-TCDD/HCX and PCB congener analyses.

Samples were received in good condition and the cooler temperature upon receipt was 2.0 °C.

QA/QC MEASUREMENT PERFORMANCE CRITERIA:

	Reference Method	Blank	Surrogate Recovery	LCS/MS Recovery	SRM % Diff.	MS/MSD Replicate Relative Precision	Achieved RL (pg/g wet)	Project Goals * (pg/g wet)
Dioxin/ Furan/ HCX/ TCX	L-23 Battelle SOP ASAT.II-001-02	<5× MDL, or associated samples > 10× blank values	25-150% Recovery	*LCS*: Method 1613B, Table 6 OPR[a] *MS:* 50-120% Recovery [b]	≤30% PD[c]	≤30% RPD[b, d]	Tetras 4.37 – 19.93 HCX: 174.84 – 797.13	Tetras : 0.0007 – 0.0616 HCX: 0.0007 – 0.00616

[a] Method 1613B, Table 6 OPR requirements documented on LCS summary report table.
[b] Analyte concentration in MS/MSD must be >5× background to be used for data quality assessment.
[c] Certified values must be >5× the MDL.
[d] *Sample replicate precision:* concentrations in sample replicate must be >10× the MDL.

METHOD: ELS egg tissue samples were processed and analyzed for 2,3,7,8-TCDD and 1,2,4,5,7,8-hexachloroxanthene (HCX) following methods described in Battelle's Quality Assurance Project Plan (Battelle, 2001). Briefly,

Sample Preparation – The samples were processed in batch 49038-60. Aliquots of each homogenized tissue were weighed into individual jars and mixed with Hydromatrix drying agent. Approximately 1.0-2.0 g wet weight of each tissue sample was used. Twenty tissues were prepared for 2,3,7,8-TCDD, HCX, and the 12 WHO PCB congeners. The tissue/Hydromatrix mixtures were placed into Accelerated Solvent Extraction (ASE) cells and spiked with $^{13}C_{12}$-labeled PCDD/PCDF and PCB internal standard solutions. Matrix spike and the laboratory control spike (LCS) samples were spiked with native PCDD/PCDF, HCX and PCB at this time. Note that the samples were spiked at twice the usual level for both internal and matrix spike standards to accommodate the sample being split in half for separate PCB and 2,3,7,8-TCDD/HCX cleanup. The samples were ASE extracted using $MeCl_2$: hexane (1:1). Each field sample was transferred to a pre-weighed tin and blown down until all solvent was removed to determine the percent lipid content. The samples were brought back up to 3 mL with hexane and transferred back to their original round bottom. Each extract was then spiked with 2,3,7,8-TCDD-$^{37}Cl_4$ cleanup standard for monitoring recovery of analytes through the cleanup procedures. Each extract was acid washed. After the acid wash step, the samples were split in half with half the extract submitted for PCB

METHOD (cont):

cleanup. The remaining half was then processed through acid/base silica, alumina, and carbon cleanup columns. The tissue extracts were spiked with 1,2,3,4-TCDD-$^{13}C_{12}$ and 1,2,3,7,8,9-HxCDD-$^{13}C_{12}$ recovery standard and concentrated to a final sample volume of 20 µL.

2,3,7,8-TCDD/HCX Analysis – Each extract was analyzed by gas chromatography/high resolution mass spectrometry (GC/HRMS) in the selected ion-monitoring mode at a resolution of 10,000 or greater. A DB5 column was used for initial analysis of 2,3,7,8-TCDD and HCX.

The following revisions to Method 1613 as well as several items to note specifically related to these analyses are summarized below:

1. Quality control samples processed with this batch of samples included one method blank, one LCS, one fish standard reference material, one matrix spike, and one sample prepared in duplicate.

2. The GC/HRMS instrumentation was calibrated for PCDD/PCDF at levels specified in Method 1613 with one additional calibration standard at concentrations equivalent to ½ the level of Method 1613's lowest calibration point. The calibration range corresponds to the following levels in the samples assuming an average sample wet weight of 1.0 g of tissue (taking into account the sample split) and a final sample volume of 20 µL: 5.0 to 4,000 pg/g wet for tetra compounds, 25 to 20,000 pg/g wet for penta through hepta compounds, and 50 to 40,000 pg/g wet for octa compounds.

3. 1,2,4,5,7,8-hexachloroxanthene was added to the analyte list for these analyses. HCX was determined by the analysis of an initial calibration curve. 1,2,3,7,8,9-HxCDF-$^{13}C_{12}$ was used as the internal standard for HCX. For HCX the calibration range corresponds to the following levels in the samples assuming an average sample wet weight of 1.0 g of tissue (taking into account the sample split) and a final sample volume of 20 µL: 200 to 80,000 pg/g wet.

Any additional minor revisions to Method 1613 are fully documented in the analytical record.

HOLDING TIMES:

Samples were prepared for analysis in one analytical batch. Samples were extracted within 4 months of collection and analyzed within 10 days of extraction.

Batch	Extraction Date	Analysis Date
49038-60	10/17/2001	10/24-27/2001

2,3,7,8-TCDD/HCX QA/QC SUMMARY
QC Batch 49038-60 – ELS Eggs

DETECTION LIMITS:

2,3,7,8-TCDD and HCX results are reported relative to the sample-specific reporting limits (also referred to as QL in the QAPP) for that compound. The sample-specific RL is based on the low calibration standard and adjusted for sample specific processing factors and volumes, as follow:

RL = (Concentration in Low Std. × final extract volume × dilution factors)/ Sample size

Where,
Concentration in low standard = 0.25 pg/µL for TCDD and 10 pg/µL for HCX
Final Extract Volume = 20 µL
Dilution Factor = documented in project file
Sample Size = approximately 1.0-g wet

Achieved RLs did not meet project detection limit goals for most target compounds. As noted in the QAPP, the project detection limit goals are provided for perspective rather than as a requirement for the analytical methods. If detection limits cannot be achieved, this will be addressed in the uncertainty discussions in the risk assessment.

BLANKS:

One laboratory method blank was processed with the analytical batch. Blanks are analyzed to ensure that the sample extraction and analysis methods were free of contamination.

49038-60– 2,3,7,8-TCDD was detected at a trace level; however, the analyte detected was well below the reporting level.

LABORATORY CONTROL SAMPLE

A laboratory control sample (LCS) was prepared with the analytical batch. The percent recoveries of target compounds were calculated to measure data quality in terms of accuracy.

49038-60– The LCS sample met the criteria found in Table 6 of Method 1613, Revision B for 2,3,7,8-TCDD.

The percent recovery for HCX in the LCS was found to be 67%. There are no applicable accuracy or precision requirements for HCX. This analyte was added to the LCS sample, as it was to the matrix spike samples, to investigate how it behaves in a typical PCDD/PCDF extraction and cleanup process.

MATRIX SPIKES:

One matrix spike (MS) sample set was prepared with the batch to measure data quality in terms of accuracy and precision. The MS was fortified with target compounds to monitor data quality in terms of accuracy and precision.

49038-60– For 2,3,7,8-TCDD, the matrix spike recovery was found to be 103%, which falls within the 50 – 120% limits.

The matrix spike recovery for HCX was 187%. There are no applicable accuracy or precision requirements for HCX. This analyte was added to the matrix spike samples to investigate how well it behaves in a typical PCDD/PCDF extraction and cleanup process.

2,3,7,8-TCDD/HCX QA/QC SUMMARY
QC Batch 49038-60 – ELS Eggs

INTERNAL STANDARDS: Fifteen internal standards were added to each sample prior to processing, one standard was added after extraction and prior to sample cleanup. Internal standard recoveries were calculated to measure data quality in terms of accuracy (sample processing efficiency).

49038-60– Recoveries of internal standards were within 25-150% for all samples.

REPLICATES: A laboratory duplicate was prepared with the batch. The RPD between laboratory replicate analyses for target compounds was calculated to measure data quality in terms of precision.

49038-60– The relative percent difference (RPD) for 2,3,7,8-TCDD, the only analyte detected above the action level of >10× MDL, was 10%.

SRM: A standard reference material (CIL EDF 2526) was prepared with the analytical batch. The percent difference (PD) between detected concentrations and certified values was calculated to measure data quality in terms of accuracy.

49038-60– 2,3,7,8-TCDD in the SRM was found to be within the limit of 30% difference from consensus values.

REFERENCES: Battelle 2001. *Centredale Manor Restoration Project Superfund Site Baseline Risk Assessment, Initial Project Planning and Support.* Tasks 19-22 QAPP prepared under contract to USACE NAE. Delivery Order #59. May 23, 2001. 509pp + apps.

QUALITY ASSURANCE STATEMENT

Project Title: **USACE/NED, Centredale Manor Task 22 ELS Egg Tissue Samples, Batch 1 of 2**

Project Number: **G487002-22F2**

Description of Data: **Egg tissue samples for dioxin/furan**

Description of audit and review activities:
1)Reviewed sample preparation Laboratory Record Books (LRB). Tracked COC from sample receipt to analytical injection. Reviewed standard/spike preparation records. Resolved all resulting LRB numbers (i.e. sample tracking numbers) with analytical designations. Reviewed data package for data recording consistent with Good Laboratory Practices (GLP's).

2)Reviewed analytical (HRMS) data. Reviewed all hand-entered parameters (e.g. sample masses, sample names, calibration curve date, etc) for each analytical run. Reviewed calibrations results to ensure that Relative Response Factors (RRF) were ±20% of calibration RRF. Reviewed 10% data transfer to spreadsheets. Reviewed confirmation runs and accurate data transfer.

3)Reviewed spreadsheets. Accessed e-file of excel spreadsheets and reviewed formula and relative and absolute cell addresses to ensure accurate data transposition.

4)Reviewed report. Ensured report accurately reflected raw data and resulting spreadsheets.

Description of outstanding issues or deficiencies which may affect data quality:
1) Minor QC issues were submitted to the analytical staff for correction, no outstanding issues present.

Zachary Willenberg

12-21-01
Date

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2,3,7,8-TCDD/HCX QA/QC SUMMARY
QC Batch 49038-71 – ELS Eggs

PROJECT: USACE NAE Delivery Order #01 Centredale

PARAMETER: 2,3,7,8-TCDD/HCX by High Resolution Mass Spectrometry (HRMS)

LABORATORY: Battelle, Columbus, OH

MATRIX: ELS Egg Tissue

SAMPLE CUSTODY: ELS egg samples were received at Battelle Columbus on July 17, 2001 for 2,3,7,8-TCDD/HCX and PCB congener analyses.

Samples were received in good condition and the cooler temperature upon receipt was 2.0 °C.

QA/QC MEASUREMENT PERFORMANCE CRITERIA:

	Reference Method	Blank	Surrogate Recovery	LCS/MS Recovery	SRM % Diff.	MS/MSD Replicate Relative Precision	Achieved RL (pg/g wet)	Project Goals * (pg/g wet)
TCDD/ HCX	L-23 Battelle SOP ASAT.II-001-02	<5× MDL, or associated samples > 10× blank values	25-150% Recovery	*LCS:* Method 1613B, Table 6 OPR[a] *MS:* 50-120% Recovery [b]	≤30% PD[c]	≤30% RPD[b, d]	Tetras: 4.10 – 25.60 HCX: 164.08 – 1024.72	Tetras : 0.0007 – 0.0616 HCX: 0.0007 – 0.00616

[a] Method 1613B, Table 6 OPR requirements documented on LCS summary report table.
[b] Analyte concentration in MS/MSD must be >5× background to be used for data quality assessment.
[c] Certified values must be >5× the MDL.
[d] *Sample replicate precision:* concentrations in sample replicate must be >10× the MDL.

METHOD: ELS egg tissue samples were processed and analyzed for 2,3,7,8-TCDD and 1,2,4,5,7,8-hexachloroxanthene (HCX) following methods described in Battelle's Quality Assurance Project Plan (Battelle, 2001).

Sample Preparation – The samples were processed in batch 49038-71. Aliquots of each homogenized tissue were weighed into individual jars and mixed with Hydromatrix drying agent. Approximately 1.0-2.0 g wet weight of each tissue sample was used. Nineteen tissues plus five QC samples were prepared for 2,3,7,8-TCDD, HCX, and the 12 WHO PCB congeners. The tissue/Hydromatrix mixtures were placed into Accelerated Solvent Extraction (ASE) cells and spiked with $^{13}C_{12}$-labeled PCDD/PCDF and PCB internal standard solutions. Matrix spike and the laboratory control spike (LCS) samples were spiked with native PCDD/PCDF, HCX and PCB at this time. Note that the samples were spiked at twice the usual level for both internal and matrix spike standards to accommodate the sample being split in half for separate PCB and 2,3,7,8-TCDD/HCX cleanup. The samples were ASE extracted using $MeCl_2$: hexane (1:1). Each extract was then spiked with 2,3,7,8-TCDD-$^{37}Cl_4$ cleanup standard for monitoring recovery of analytes through the cleanup procedures. Each field sample was rotovapped and brought up in 1 mL hexane. The samples were transferred to pre-weighed concentrator tubes and blown down under nitrogen until all solvent was removed to determine the percent lipid content. The samples were brought back up to 3 mL with hexane and transferred back to their original round bottoms. Each extract

METHOD (cont):

was acid washed. After the acid wash step, the samples were split in half with half the extract submitted for PCB cleanup. The remaining half was then processed through acid/base silica, alumina, and carbon cleanup columns. The tissue extracts were spiked with 1,2,3,4-TCDD-$^{13}C_{12}$ and 1,2,3,7,8,9-HxCDD-$^{13}C_{12}$ recovery standard and concentrated to a final sample volume of 20 µL.

2,3,7,8-TCDD/HCX Analysis – Each extract was analyzed by gas chromatography/high resolution mass spectrometry (GC/HRMS) in the selected ion-monitoring mode at a resolution of 10,000 or greater. A DB5 column was used for initial analysis of 2,3,7,8-TCDD and HCX.

The following revisions to Method 1613 as well as several items to note specifically related to these analyses are summarized below:

1. Quality control samples processed with this batch of samples included one method blank, one LCS, one fish standard reference material, one matrix spike, and one sample prepared in duplicate.

2. The GC/HRMS instrumentation was calibrated for PCDD/PCDF at levels specified in Method 1613 with one additional calibration standard at concentrations equivalent to ½ the level of Method 1613's lowest calibration point. The calibration range corresponds to the following levels in the samples assuming an average sample wet weight of 1.0 g of tissue (taking into account the sample split) and a final sample volume of 20 µL: 5.0 to 4,000 pg/g wet for tetra compounds, 25 to 20,000 pg/g wet for penta through hepta compounds, and 50 to 40,000 pg/g wet for octa compounds.

3. 1,2,4,5,7,8-hexachloroxanthene was added to the analyte list for these analyses. HCX was determined by the analysis of an initial calibration curve. 1,2,3,7,8,9-HxCDF-$^{13}C_{12}$ was used as the internal standard for HCX. For HCX the calibration range corresponds to the following levels in the samples assuming an average sample wet weight of 1.0 g of tissue (taking into account the sample split) and a final sample volume of 20 µL: 200 to 80,000 pg/g wet.

Any additional minor revisions to Method 1613 are fully documented in the analytical record.

HOLDING TIMES:

Samples were prepared for analysis in one analytical batch. Samples were extracted within 4 months of collection and analyzed within 9 days of extraction.

Batch	Extraction Date	Analysis Date
49038-71	10/29/2001	11/6-8/2001

2,3,7,8-TCDD/HCX QA/QC SUMMARY
QC Batch 49038-71 – ELS Eggs

DETECTION LIMITS:

2,3,7,8-TCDD and HCX results are reported relative to the sample-specific reporting limits (also referred to as QL in the QAPP) for that compound. The sample-specific RL is based on the low calibration standard and adjusted for sample specific processing factors and volumes, as follow:

RL = (Concentration in Low Std. × final extract volume × dilution factors)/ Sample size

Where,
Concentration in low standard = 0.25 pg/µL for TCDD and 10 pg/µL for HCX
Final Extract Volume = 20 µL
Dilution Factor = documented in project file
Sample Size = approximately 1.0-g wet

Achieved RLs did not meet project detection limit goals for most target compounds. As noted in the QAPP, the project detection limit goals are provided for perspective rather than as a requirement for the analytical methods. If detection limits cannot be achieved, this will be addressed in the uncertainty discussions in the risk assessment.

BLANKS:

One laboratory method blank was processed with the analytical batch. Blanks are analyzed to ensure that the sample extraction and analysis methods were free of contamination.

49038-71– 2,3,7,8-TCDD was detected at a trace level; however, the analyte detected was well below the reporting level.

LABORATORY CONTROL SAMPLE

A laboratory control sample (LCS) was prepared with the analytical batch. The percent recoveries of target compounds were calculated to measure data quality in terms of accuracy.

49038-71– The LCS sample met the criteria found in Table 6 of Method 1613, Revision B for 2,3,7,8-TCDD.

The percent recovery for HCX in the LCS was found to be 127%. There are no applicable accuracy or precision requirements for HCX. This analyte was added to the LCS sample, as it was to the matrix spike samples, to investigate how it behaves in a typical PCDD/PCDF extraction and cleanup process.

MATRIX SPIKES:

One matrix spike (MS) sample set was prepared with the batch to measure data quality in terms of accuracy and precision. The MS was fortified with target compounds to monitor data quality in terms of accuracy and precision.

49038-71– For 2,3,7,8-TCDD, the matrix spike recovery was found to be 88%, which falls within the 50 – 120% limits.

The matrix spike recovery for HCX was 139%. There are no applicable accuracy or precision requirements for HCX. This analyte was added to the matrix spike samples to investigate how well it behaves in a typical PCDD/PCDF extraction and cleanup process.

2,3,7,8-TCDD/HCX QA/QC SUMMARY
QC Batch 49038-71 – ELS Eggs

INTERNAL STANDARDS: Fifteen internal standards were added to each sample prior to processing, one standard was added after extraction and prior to sample cleanup. Internal standard recoveries were calculated to measure data quality in terms of accuracy (sample processing efficiency).

49038-71– Recoveries of internal standards were within 25-150% for all samples with the exception of sample 49038-71-13. The out-of-limits results should not greatly effect the final concentrations found in the samples since the isotope dilution method of quantitation was used.

REPLICATES: A laboratory duplicate was prepared with the batch. The RPD between laboratory replicate analyses for target compounds was calculated to measure data quality in terms of precision.

49038-71– The relative percent difference (RPD) for 2,3,7,8-TCDD, the only analyte detected above the action level of >10× MDL, was 2%.

SRM: A standard reference material (CIL EDF 2526) was prepared with the analytical batch. The percent difference (PD) between detected concentrations and certified values was calculated to measure data quality in terms of accuracy.

49038-71– 2,3,7,8-TCDD in the SRM was found to be within the limit of 30% difference from consensus values.

REFERENCES: Battelle 2001. *Centredale Manor Restoration Project Superfund Site Baseline Risk Assessment, Initial Project Planning and Support.* Tasks 19-22 QAPP prepared under contract to USACE NAE. Delivery Order #59. May 23, 2001. 509pp + apps.

QUALITY ASSURANCE STATEMENT

Project Title: **USACE/NED, Centredale Manor Task 22 ELS Egg Tissue Samples, Batch 2 of 2**

Project Number: **G487002-22A2**

Description of Data: **Egg tissue samples for dioxin/furan**

Description of audit and review activities:
1)Reviewed sample preparation Laboratory Record Books (LRB). Tracked COC from sample receipt to analytical injection. Reviewed standard/spike preparation records. Resolved all resulting LRB numbers (i.e. sample tracking numbers) with analytical designations. Reviewed data package for data recording consistent with Good Laboratory Practices (GLP's).

2)Reviewed analytical (HRMS) data. Reviewed all hand-entered parameters (e.g. sample masses, sample names, calibration curve date, etc) for each analytical run. Reviewed calibrations results to ensure that Relative Response Factors (RRF) were ±20% of calibration RRF. Reviewed 10% data transfer to spreadsheets. Reviewed confirmation runs and accurate data transfer.

3)Reviewed spreadsheets. Accessed e-file of excel spreadsheets and reviewed formula and relative and absolute cell addresses to ensure accurate data transposition.

4)Reviewed report. Ensured report accurately reflected raw data and resulting spreadsheets.

Description of outstanding issues or deficiencies which may affect data quality:
1) Minor QC issues were submitted to the analytical staff for correction, no outstanding issues present.

Zachary Willenberg
Quality Assurance Specialist
Atmospheric Science and Applied Technology
Battelle

12-17-01
Date

ELS Tissue and QC Results

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL
	48401-44-03	BCO	M_BLANK		10/9/2001	10/16/2001		49038-51	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	1.17	pg/g - Wet Wt	J	
	48401-44-03	BCO	M_BLANK		10/9/2001	10/16/2001		49038-51	HCX	38178-99-3	DIOXIN	MOD 1613B	100.00	pg/g - Wet Wt	U	
	48401-44-03	BCO	M_BLANK		10/9/2001	10/16/2001		49038-51	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	49	%RECOVERY		
	48401-44-03	BCO	M_BLANK		10/9/2001	10/16/2001		49038-51	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	53	%RECOVERY		
	48401-44-03	BCO	M_BLANK		10/9/2001	10/16/2001		49038-51	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	45	%RECOVERY		
42828-1	49037-02-02	BCO	NORMAL	8/14/2001	10/9/2001	10/16/2001		49038-51	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	6.59	pg/g - Wet Wt		
42828-1	49037-02-02	BCO	NORMAL	8/14/2001	10/9/2001	10/16/2001		49038-51	HCX	38178-99-3	DIOXIN	MOD 1613B	94.99	pg/g - Wet Wt	U	
42828-1	49037-02-02	BCO	NORMAL	8/14/2001	10/9/2001	10/16/2001		49038-51	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	75	%RECOVERY		
42828-1	49037-02-02	BCO	NORMAL	8/14/2001	10/9/2001	10/16/2001		49038-51	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	83	%RECOVERY		
42828-1	49037-02-02	BCO	NORMAL	8/14/2001	10/9/2001	10/16/2001		49038-51	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	61	%RECOVERY		
42828-2	49037-02-03	BCO	NORMAL	8/14/2001	10/9/2001	10/16/2001		49038-51	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	6.44	pg/g - Wet Wt		
42828-2	49037-02-03	BCO	NORMAL	8/14/2001	10/9/2001	10/16/2001		49038-51	HCX	38178-99-3	DIOXIN	MOD 1613B	96.67	pg/g - Wet Wt	U	
42828-2	49037-02-03	BCO	NORMAL	8/14/2001	10/9/2001	10/16/2001		49038-51	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	74	%RECOVERY		
42828-2	49037-02-03	BCO	NORMAL	8/14/2001	10/9/2001	10/16/2001		49038-51	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	78	%RECOVERY		
42828-2	49037-02-03	BCO	NORMAL	8/14/2001	10/9/2001	10/16/2001		49038-51	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	63	%RECOVERY		
42828-3	49037-02-04	BCO	NORMAL	8/14/2001	10/9/2001	10/16/2001		49038-51	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	2.26	pg/g - Wet Wt	U	
42828-3	49037-02-04	BCO	NORMAL	8/14/2001	10/9/2001	10/16/2001		49038-51	HCX	38178-99-3	DIOXIN	MOD 1613B	90.21	pg/g - Wet Wt	U	
42828-3	49037-02-04	BCO	NORMAL	8/14/2001	10/9/2001	10/16/2001		49038-51	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	76	%RECOVERY		
42828-3	49037-02-04	BCO	NORMAL	8/14/2001	10/9/2001	10/16/2001		49038-51	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	83	%RECOVERY		
42828-3	49037-02-04	BCO	NORMAL	8/14/2001	10/9/2001	10/16/2001		49038-51	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	65	%RECOVERY		
42828-4	49037-02-05	BCO	NORMAL	8/14/2001	10/9/2001	10/16/2001		49038-51	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	1.65	pg/g - Wet Wt	J	
42828-4	49037-02-05	BCO	NORMAL	8/14/2001	10/9/2001	10/16/2001		49038-51	HCX	38178-99-3	DIOXIN	MOD 1613B	92.52	pg/g - Wet Wt	U	
42828-4	49037-02-05	BCO	NORMAL	8/14/2001	10/9/2001	10/16/2001		49038-51	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	68	%RECOVERY		
42828-4	49037-02-05	BCO	NORMAL	8/14/2001	10/9/2001	10/16/2001		49038-51	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	75	%RECOVERY		
42828-4	49037-02-05	BCO	NORMAL	8/14/2001	10/9/2001	10/16/2001		49038-51	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	58	%RECOVERY		
42828-5	49037-02-06	BCO	NORMAL	8/14/2001	10/9/2001	10/17/2001		49038-51	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	3.76	pg/g - Wet Wt		
42828-5	49037-02-06	BCO	NORMAL	8/14/2001	10/9/2001	10/17/2001		49038-51	HCX	38178-99-3	DIOXIN	MOD 1613B	91.40	pg/g - Wet Wt	U	
42828-5	49037-02-06	BCO	NORMAL	8/14/2001	10/9/2001	10/17/2001		49038-51	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	65	%RECOVERY		
42828-5	49037-02-06	BCO	NORMAL	8/14/2001	10/9/2001	10/17/2001		49038-51	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	69	%RECOVERY		
42828-5	49037-02-06	BCO	NORMAL	8/14/2001	10/9/2001	10/17/2001		49038-51	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	55	%RECOVERY		
42828-6	49037-02-07	BCO	NORMAL	8/14/2001	10/9/2001	10/17/2001		49038-51	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	5.85	pg/g - Wet Wt		
42828-6	49037-02-07	BCO	NORMAL	8/14/2001	10/9/2001	10/17/2001		49038-51	HCX	38178-99-3	DIOXIN	MOD 1613B	94.51	pg/g - Wet Wt	U	
42828-6	49037-02-07	BCO	NORMAL	8/14/2001	10/9/2001	10/17/2001		49038-51	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	52	%RECOVERY		
42828-6	49037-02-07	BCO	NORMAL	8/14/2001	10/9/2001	10/17/2001		49038-51	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	58	%RECOVERY		
42828-6	49037-02-07	BCO	NORMAL	8/14/2001	10/9/2001	10/17/2001		49038-51	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	53	%RECOVERY		
42828-7	49037-02-08	BCO	NORMAL	8/14/2001	10/9/2001	10/17/2001		49038-51	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	1.71	pg/g - Wet Wt	J	
42828-7	49037-02-08	BCO	NORMAL	8/14/2001	10/9/2001	10/17/2001		49038-51	HCX	38178-99-3	DIOXIN	MOD 1613B	96.53	pg/g - Wet Wt	U	
42828-7	49037-02-08	BCO	NORMAL	8/14/2001	10/9/2001	10/17/2001		49038-51	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	52	%RECOVERY		
42828-7	49037-02-08	BCO	NORMAL	8/14/2001	10/9/2001	10/17/2001		49038-51	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	58	%RECOVERY		
42828-7	49037-02-08	BCO	NORMAL	8/14/2001	10/9/2001	10/17/2001		49038-51	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	46	%RECOVERY		
42828-8	49037-02-09	BCO	NORMAL	8/14/2001	10/9/2001	10/17/2001		49038-51	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	3.15	pg/g - Wet Wt		
42828-8	49037-02-09	BCO	NORMAL	8/14/2001	10/9/2001	10/17/2001		49038-51	HCX	38178-99-3	DIOXIN	MOD 1613B	95.43	pg/g - Wet Wt	U	
42828-8	49037-02-09	BCO	NORMAL	8/14/2001	10/9/2001	10/17/2001		49038-51	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	76	%RECOVERY		
42828-8	49037-02-09	BCO	NORMAL	8/14/2001	10/9/2001	10/17/2001		49038-51	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	89	%RECOVERY		
42828-8	49037-02-09	BCO	NORMAL	8/14/2001	10/9/2001	10/17/2001		49038-51	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	67	%RECOVERY		
42828-9	49037-02-10	BCO	NORMAL	8/14/2001	10/9/2001	10/17/2001		49038-51	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	10.67	pg/g - Wet Wt		
42828-9	49037-02-10	BCO	NORMAL	8/14/2001	10/9/2001	10/17/2001		49038-51	HCX	38178-99-3	DIOXIN	MOD 1613B	94.46	pg/g - Wet Wt	U	
42828-9	49037-02-10	BCO	NORMAL	8/14/2001	10/9/2001	10/17/2001		49038-51	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	63	%RECOVERY		
42828-9	49037-02-10	BCO	NORMAL	8/14/2001	10/9/2001	10/17/2001		49038-51	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	61	%RECOVERY		
42828-9	49037-02-10	BCO	NORMAL	8/14/2001	10/9/2001	10/17/2001		49038-51	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	53	%RECOVERY		
42828-10	49037-02-11	BCO	NORMAL	8/14/2001	10/9/2001	10/17/2001		49038-51	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	2.59	pg/g - Wet Wt		
42828-10	49037-02-11	BCO	NORMAL	8/14/2001	10/9/2001	10/17/2001		49038-51	HCX	38178-99-3	DIOXIN	MOD 1613B	94.10	pg/g - Wet Wt	U	
42828-10	49037-02-11	BCO	NORMAL	8/14/2001	10/9/2001	10/17/2001		49038-51	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	61	%RECOVERY		
42828-10	49037-02-11	BCO	NORMAL	8/14/2001	10/9/2001	10/17/2001		49038-51	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	76	%RECOVERY		
42828-10	49037-02-11	BCO	NORMAL	8/14/2001	10/9/2001	10/17/2001		49038-51	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	53	%RECOVERY		
42828-11	49037-02-12	BCO	NORMAL	8/14/2001	10/9/2001	10/18/2001		49038-51	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	9.24	pg/g - Wet Wt		
42828-11	49037-02-12	BCO	NORMAL	8/14/2001	10/9/2001	10/18/2001		49038-51	HCX	38178-99-3	DIOXIN	MOD 1613B	90.85	pg/g - Wet Wt	U	
42828-11	49037-02-12	BCO	NORMAL	8/14/2001	10/9/2001	10/18/2001		49038-51	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	71	%RECOVERY		
42828-11	49037-02-12	BCO	NORMAL	8/14/2001	10/9/2001	10/18/2001		49038-51	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	72	%RECOVERY		

SAMPLE_NO	LAB_ID	MDL	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
	48401-44-03	2.50		1.00	NA	Lab Extraction ID = 49038-51-20	2.00	G_WET				T
	48401-44-03	100.00		1.00	NA	Lab Extraction ID = 49038-51-20	2.00	G_WET				T
	48401-44-03			1.00	NA	Lab Extraction ID = 49038-51-20	2.00	G_WET				T
	48401-44-03			1.00	NA	Lab Extraction ID = 49038-51-20	2.00	G_WET				T
	48401-44-03			1.00	NA	Lab Extraction ID = 49038-51-20	2.00	G_WET				T
42828-1	49037-02-02	2.37		1.00	NA	Lab Extraction ID = 49038-51-02	2.1054	G_WET	6.59	J		T
42828-1	49037-02-02	94.99		1.00	NA	Lab Extraction ID = 49038-51-02	2.1054	G_WET	94.99	UJ		T
42828-1	49037-02-02			1.00	NA	Lab Extraction ID = 49038-51-02	2.1054	G_WET				T
42828-1	49037-02-02			1.00	NA	Lab Extraction ID = 49038-51-02	2.1054	G_WET				T
42828-1	49037-02-02			1.00	NA	Lab Extraction ID = 49038-51-02	2.1054	G_WET				T
42828-2	49037-02-03	2.42		1.00	NA	Lab Extraction ID = 49038-51-03	2.0688	G_WET	6.44	J		T
42828-2	49037-02-03	96.67		1.00	NA	Lab Extraction ID = 49038-51-03	2.0688	G_WET	96.67	UJ		T
42828-2	49037-02-03			1.00	NA	Lab Extraction ID = 49038-51-03	2.0688	G_WET				T
42828-2	49037-02-03			1.00	NA	Lab Extraction ID = 49038-51-03	2.0688	G_WET				T
42828-2	49037-02-03			1.00	NA	Lab Extraction ID = 49038-51-03	2.0688	G_WET				T
42828-3	49037-02-04	2.26		1.00	NA	Lab Extraction ID = 49038-51-04	2.2171	G_WET	0.99	UJ		T
42828-3	49037-02-04	90.21		1.00	NA	Lab Extraction ID = 49038-51-04	2.2171	G_WET	90.21	UJ		T
42828-3	49037-02-04			1.00	NA	Lab Extraction ID = 49038-51-04	2.2171	G_WET				T
42828-3	49037-02-04			1.00	NA	Lab Extraction ID = 49038-51-04	2.2171	G_WET				T
42828-3	49037-02-04			1.00	NA	Lab Extraction ID = 49038-51-04	2.2171	G_WET				T
42828-4	49037-02-05	2.31		1.00	NA	Lab Extraction ID = 49038-51-05	2.1618	G_WET	1.65	UJ		T
42828-4	49037-02-05	92.52		1.00	NA	Lab Extraction ID = 49038-51-05	2.1618	G_WET	92.52	UJ		T
42828-4	49037-02-05			1.00	NA	Lab Extraction ID = 49038-51-05	2.1618	G_WET				T
42828-4	49037-02-05			1.00	NA	Lab Extraction ID = 49038-51-05	2.1618	G_WET				T
42828-4	49037-02-05			1.00	NA	Lab Extraction ID = 49038-51-05	2.1618	G_WET				T
42828-5	49037-02-06	2.28		1.00	NA	Lab Extraction ID = 49038-51-06	2.1882	G_WET	3.76	UJ		T
42828-5	49037-02-06	91.40		1.00	NA	Lab Extraction ID = 49038-51-06	2.1882	G_WET	91.4	UJ		T
42828-5	49037-02-06			1.00	NA	Lab Extraction ID = 49038-51-06	2.1882	G_WET				T
42828-5	49037-02-06			1.00	NA	Lab Extraction ID = 49038-51-06	2.1882	G_WET				T
42828-5	49037-02-06			1.00	NA	Lab Extraction ID = 49038-51-06	2.1882	G_WET				T
42828-6	49037-02-07	2.36		1.00	NA	Lab Extraction ID = 49038-51-07	2.1161	G_WET	5.85	J		T
42828-6	49037-02-07	94.51		1.00	NA	Lab Extraction ID = 49038-51-07	2.1161	G_WET	94.51	UJ		T
42828-6	49037-02-07			1.00	NA	Lab Extraction ID = 49038-51-07	2.1161	G_WET				T
42828-6	49037-02-07			1.00	NA	Lab Extraction ID = 49038-51-07	2.1161	G_WET				T
42828-6	49037-02-07			1.00	NA	Lab Extraction ID = 49038-51-07	2.1161	G_WET				T
42828-7	49037-02-08	2.41		1.00	NA	Lab Extraction ID = 49038-51-08	2.0720	G_WET	1.71	UJ		T
42828-7	49037-02-08	96.53		1.00	NA	Lab Extraction ID = 49038-51-08	2.0720	G_WET	96.53	UJ		T
42828-7	49037-02-08			1.00	NA	Lab Extraction ID = 49038-51-08	2.0720	G_WET				T
42828-7	49037-02-08			1.00	NA	Lab Extraction ID = 49038-51-08	2.0720	G_WET				T
42828-7	49037-02-08			1.00	NA	Lab Extraction ID = 49038-51-08	2.0720	G_WET				T
42828-8	49037-02-09	2.39		1.00	NA	Lab Extraction ID = 49038-51-09	2.0957	G_WET	3.14	UJ		T
42828-8	49037-02-09	95.43		1.00	NA	Lab Extraction ID = 49038-51-09	2.0957	G_WET	95.43	UJ		T
42828-8	49037-02-09			1.00	NA	Lab Extraction ID = 49038-51-09	2.0957	G_WET				T
42828-8	49037-02-09			1.00	NA	Lab Extraction ID = 49038-51-09	2.0957	G_WET				T
42828-8	49037-02-09			1.00	NA	Lab Extraction ID = 49038-51-09	2.0957	G_WET				T
42828-9	49037-02-10	2.36		1.00	NA	Lab Extraction ID = 49038-51-10	2.1172	G_WET	10.67	J		T
42828-9	49037-02-10	94.46		1.00	NA	Lab Extraction ID = 49038-51-10	2.1172	G_WET	94.46	UJ		T
42828-9	49037-02-10			1.00	NA	Lab Extraction ID = 49038-51-10	2.1172	G_WET				T
42828-9	49037-02-10			1.00	NA	Lab Extraction ID = 49038-51-10	2.1172	G_WET				T
42828-9	49037-02-10			1.00	NA	Lab Extraction ID = 49038-51-10	2.1172	G_WET				T
42828-10	49037-02-11	2.35		1.00	NA	Lab Extraction ID = 49038-51-11	2.1254	G_WET	2.59	UJ		T
42828-10	49037-02-11	94.10		1.00	NA	Lab Extraction ID = 49038-51-11	2.1254	G_WET	94.1	UJ		T
42828-10	49037-02-11			1.00	NA	Lab Extraction ID = 49038-51-11	2.1254	G_WET				T
42828-10	49037-02-11			1.00	NA	Lab Extraction ID = 49038-51-11	2.1254	G_WET				T
42828-10	49037-02-11			1.00	NA	Lab Extraction ID = 49038-51-11	2.1254	G_WET				T
42828-11	49037-02-12	2.27		1.00	NA	Lab Extraction ID = 49038-51-12	2.2014	G_WET	9.24	J		T
42828-11	49037-02-12	90.85		1.00	NA	Lab Extraction ID = 49038-51-12	2.2014	G_WET	90.85	UJ		T
42828-11	49037-02-12			1.00	NA	Lab Extraction ID = 49038-51-12	2.2014	G_WET				T
42828-11	49037-02-12			1.00	NA	Lab Extraction ID = 49038-51-12	2.2014	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL
42828-11	49037-02-12	BCO	NORMAL	8/14/2001	10/9/2001	10/18/2001		49038-51	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	61	%RECOVERY		
42828-12	49037-02-13	BCO	NORMAL	8/14/2001	10/9/2001	10/18/2001		49038-51	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	9.14	pg/g - Wet Wt		
42828-12	49037-02-13	BCO	NORMAL	8/14/2001	10/9/2001	10/18/2001		49038-51	HCX	38178-99-3	DIOXIN	MOD 1613B	228.18	pg/g - Wet Wt	U	
42828-12	49037-02-13	BCO	NORMAL	8/14/2001	10/9/2001	10/18/2001		49038-51	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	74	%RECOVERY		
42828-12	49037-02-13	BCO	NORMAL	8/14/2001	10/9/2001	10/18/2001		49038-51	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	78	%RECOVERY		
42828-12	49037-02-13	BCO	NORMAL	8/14/2001	10/9/2001	10/18/2001		49038-51	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	63	%RECOVERY		
42828-13	49037-02-14	BCO	NORMAL	8/14/2001	10/9/2001	10/18/2001		49038-51	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	3.29	pg/g - Wet Wt		
42828-13	49037-02-14	BCO	NORMAL	8/14/2001	10/9/2001	10/18/2001		49038-51	HCX	38178-99-3	DIOXIN	MOD 1613B	91.33	pg/g - Wet Wt	U	
42828-13	49037-02-14	BCO	NORMAL	8/14/2001	10/9/2001	10/18/2001		49038-51	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	83	%RECOVERY		
42828-13	49037-02-14	BCO	NORMAL	8/14/2001	10/9/2001	10/18/2001		49038-51	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	80	%RECOVERY		
42828-13	49037-02-14	BCO	NORMAL	8/14/2001	10/9/2001	10/18/2001		49038-51	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	66	%RECOVERY		
42828-14	49037-02-15	BCO	NORMAL	8/14/2001	10/9/2001	10/18/2001		49038-51	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	4.22	pg/g - Wet Wt		
42828-14	49037-02-15	BCO	NORMAL	8/14/2001	10/9/2001	10/18/2001		49038-51	HCX	38178-99-3	DIOXIN	MOD 1613B	85.81	pg/g - Wet Wt	U	
42828-14	49037-02-15	BCO	NORMAL	8/14/2001	10/9/2001	10/18/2001		49038-51	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	75	%RECOVERY		
42828-14	49037-02-15	BCO	NORMAL	8/14/2001	10/9/2001	10/18/2001		49038-51	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	83	%RECOVERY		
42828-14	49037-02-15	BCO	NORMAL	8/14/2001	10/9/2001	10/18/2001		49038-51	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	61	%RECOVERY		
42828-13	49037-02-14	BCO	DUPLICATE	8/14/2001	10/9/2001	10/18/2001		49038-51	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	0.17	pg/g - Wet Wt	J	
42828-13	49037-02-14	BCO	DUPLICATE	8/14/2001	10/9/2001	10/18/2001		49038-51	HCX	38178-99-3	DIOXIN	MOD 1613B	91.50	pg/g - Wet Wt	U	
42828-13	49037-02-14	BCO	DUPLICATE	8/14/2001	10/9/2001	10/18/2001		49038-51	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	73	%RECOVERY		
42828-13	49037-02-14	BCO	DUPLICATE	8/14/2001	10/9/2001	10/18/2001		49038-51	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	77	%RECOVERY		
42828-13	49037-02-14	BCO	DUPLICATE	8/14/2001	10/9/2001	10/18/2001		49038-51	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	57	%RECOVERY		
42828-3	49037-02-04	BCO	MS	8/14/2001	10/9/2001	10/18/2001		49038-51	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	100	%RECOVERY		
42828-3	49037-02-04	BCO	MS	8/14/2001	10/9/2001	10/18/2001		49038-51	HCX	38178-99-3	DIOXIN	MOD 1613B	80	%RECOVERY		
42828-3	49037-02-04	BCO	MS	8/14/2001	10/9/2001	10/18/2001		49038-51	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	67	%RECOVERY		
42828-3	49037-02-04	BCO	MS	8/14/2001	10/9/2001	10/18/2001		49038-51	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	70	%RECOVERY		
42828-3	49037-02-04	BCO	MS	8/14/2001	10/9/2001	10/18/2001		49038-51	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	56	%RECOVERY		
	48514-78-03	BCO	SRM		10/9/2001	10/18/2001		49038-51	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	33.7	%DIFFERENCE	&	
	48514-78-03	BCO	SRM		10/9/2001	10/18/2001		49038-51	HCX	38178-99-3	DIOXIN	MOD 1613B	NA	%DIFFERENCE		
	48514-78-03	BCO	SRM		10/9/2001	10/18/2001		49038-51	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	66	%RECOVERY		
	48514-78-03	BCO	SRM		10/9/2001	10/18/2001		49038-51	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	71	%RECOVERY		
	48514-78-03	BCO	SRM		10/9/2001	10/18/2001		49038-51	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	55	%RECOVERY		
	48401-44-03	BCO	LCS		10/9/2001	10/16/2001		49038-51	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	102	%RECOVERY		
	48401-44-03	BCO	LCS		10/9/2001	10/16/2001		49038-51	HCX	38178-99-3	DIOXIN	MOD 1613B	63	%RECOVERY		
	48401-44-03	BCO	LCS		10/9/2001	10/16/2001		49038-51	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	64	%RECOVERY		
	48401-44-03	BCO	LCS		10/9/2001	10/16/2001		49038-51	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	70	%RECOVERY		
	48401-44-03	BCO	LCS		10/9/2001	10/16/2001		49038-51	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	57	%RECOVERY		

SAMPLE_NO	LAB_ID	MDL	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
42828-11	49037-02-12			1.00	NA	Lab Extraction ID = 49038-51-12	2.2014	G_WET				T
42828-12	49037-02-13	5.70		1.00	NA	Lab Extraction ID = 49038-51-13	0.8765	G_WET	9.14	UJ		T
42828-12	49037-02-13	228.18		1.00	NA	Lab Extraction ID = 49038-51-13	0.8765	G_WET	228.18	UJ		T
42828-12	49037-02-13			1.00	NA	Lab Extraction ID = 49038-51-13	0.8765	G_WET				T
42828-12	49037-02-13			1.00	NA	Lab Extraction ID = 49038-51-13	0.8765	G_WET				T
42828-12	49037-02-13			1.00	NA	Lab Extraction ID = 49038-51-13	0.8765	G_WET				T
42828-13	49037-02-14	2.28		1.00	NA	Lab Extraction ID = 49038-51-14	2.1898	G_WET	3.29	UJ		T
42828-13	49037-02-14	91.33		1.00	NA	Lab Extraction ID = 49038-51-14	2.1898	G_WET	91.33	UJ		T
42828-13	49037-02-14			1.00	NA	Lab Extraction ID = 49038-51-14	2.1898	G_WET				T
42828-13	49037-02-14			1.00	NA	Lab Extraction ID = 49038-51-14	2.1898	G_WET				T
42828-13	49037-02-14			1.00	NA	Lab Extraction ID = 49038-51-14	2.1898	G_WET				T
42828-14	49037-02-15	2.15		1.00	NA	Lab Extraction ID = 49038-51-15	2.3308	G_WET	4.22	UJ		T
42828-14	49037-02-15	85.81		1.00	NA	Lab Extraction ID = 49038-51-15	2.3308	G_WET	85.81	UJ		T
42828-14	49037-02-15			1.00	NA	Lab Extraction ID = 49038-51-15	2.3308	G_WET				T
42828-14	49037-02-15			1.00	NA	Lab Extraction ID = 49038-51-15	2.3308	G_WET				T
42828-14	49037-02-15			1.00	NA	Lab Extraction ID = 49038-51-15	2.3308	G_WET				T
42828-13	49037-02-14	2.29		1.00	NA	Lab Extraction ID = 49038-51-16	2.1859	G_WET				T
42828-13	49037-02-14	91.50		1.00	NA	Lab Extraction ID = 49038-51-16	2.1859	G_WET				T
42828-13	49037-02-14			1.00	NA	Lab Extraction ID = 49038-51-16	2.1859	G_WET				T
42828-13	49037-02-14			1.00	NA	Lab Extraction ID = 49038-51-16	2.1859	G_WET				T
42828-13	49037-02-14			1.00	NA	Lab Extraction ID = 49038-51-16	2.1859	G_WET				T
42828-3	49037-02-04			1.00	NA	Lab Extraction ID = 49038-51-17	2.2621	G_WET				T
42828-3	49037-02-04			1.00	NA	Lab Extraction ID = 49038-51-17	2.2621	G_WET				T
42828-3	49037-02-04			1.00	NA	Lab Extraction ID = 49038-51-17	2.2621	G_WET				T
42828-3	49037-02-04			1.00	NA	Lab Extraction ID = 49038-51-17	2.2621	G_WET				T
42828-3	49037-02-04			1.00	NA	Lab Extraction ID = 49038-51-17	2.2621	G_WET				T
	48514-78-03	2.49		1.00	NA	Lab Extraction ID = 49038-51-18	2.0118	G_WET				T
	48514-78-03	99.41		1.00	NA	Lab Extraction ID = 49038-51-18	2.0118	G_WET				T
	48514-78-03			1.00	NA	Lab Extraction ID = 49038-51-18	2.0118	G_WET				T
	48514-78-03			1.00	NA	Lab Extraction ID = 49038-51-18	2.0118	G_WET				T
	48514-78-03			1.00	NA	Lab Extraction ID = 49038-51-18	2.0118	G_WET				T
	48401-44-03			1.00	NA	Lab Extraction ID = 49038-51-19	1.0601	G_WET				T
	48401-44-03			1.00	NA	Lab Extraction ID = 49038-51-19	1.0601	G_WET				T
	48401-44-03			1.00	NA	Lab Extraction ID = 49038-51-19	1.0601	G_WET				T
	48401-44-03			1.00	NA	Lab Extraction ID = 49038-51-19	1.0601	G_WET				T
	48401-44-03			1.00	NA	Lab Extraction ID = 49038-51-19	1.0601	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL
	48401-44-03	BCO	M_BLANK		10/17/2001	10/25/2001		49038-60	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	0.46	pg/g - Wet Wt	J	
	48401-44-03	BCO	M_BLANK		10/17/2001	10/25/2001		49038-60	HCX	38178-99-3	DIOXIN	MOD 1613B	200.00	pg/g - Wet Wt	U	
	48401-44-03	BCO	M_BLANK		10/17/2001	10/25/2001		49038-60	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	79	%RECOVERY		
	48401-44-03	BCO	M_BLANK		10/17/2001	10/25/2001		49038-60	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	79	%RECOVERY		
	48401-44-03	BCO	M_BLANK		10/17/2001	10/25/2001		49038-60	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	72	%RECOVERY		
42828-CONC-7-A	48401-78-05	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	91.47	pg/g - Wet Wt		
42828-CONC-7-A	48401-78-05	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	HCX	38178-99-3	DIOXIN	MOD 1613B	226.17	pg/g - Wet Wt	U	
42828-CONC-7-A	48401-78-05	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	79	%RECOVERY		
42828-CONC-7-A	48401-78-05	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	77	%RECOVERY		
42828-CONC-7-A	48401-78-05	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	72	%RECOVERY		
42828-CONC-7-B	48401-78-06	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	84.68	pg/g - Wet Wt		
42828-CONC-7-B	48401-78-06	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	HCX	38178-99-3	DIOXIN	MOD 1613B	188.80	pg/g - Wet Wt	U	
42828-CONC-7-B	48401-78-06	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	81	%RECOVERY		
42828-CONC-7-B	48401-78-06	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	85	%RECOVERY		
42828-CONC-7-B	48401-78-06	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	74	%RECOVERY		
42828-CONC-7-C	48401-78-07	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	123.46	pg/g - Wet Wt		
42828-CONC-7-C	48401-78-07	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	HCX	38178-99-3	DIOXIN	MOD 1613B	248.73	pg/g - Wet Wt	U	
42828-CONC-7-C	48401-78-07	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	85	%RECOVERY		
42828-CONC-7-C	48401-78-07	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	91	%RECOVERY		
42828-CONC-7-C	48401-78-07	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	81	%RECOVERY		
42828-CONC-10-A	48401-78-08	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	94.94	pg/g - Wet Wt		
42828-CONC-10-A	48401-78-08	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	HCX	38178-99-3	DIOXIN	MOD 1613B	183.50	pg/g - Wet Wt	U	
42828-CONC-10-A	48401-78-08	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	79	%RECOVERY		
42828-CONC-10-A	48401-78-08	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	80	%RECOVERY		
42828-CONC-10-A	48401-78-08	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	72	%RECOVERY		
42828-CONC-10-B	48401-78-09	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	175.08	pg/g - Wet Wt		
42828-CONC-10-B	48401-78-09	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	HCX	38178-99-3	DIOXIN	MOD 1613B	260.38	pg/g - Wet Wt	U	
42828-CONC-10-B	48401-78-09	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	76	%RECOVERY		
42828-CONC-10-B	48401-78-09	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	77	%RECOVERY		
42828-CONC-10-B	48401-78-09	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	68	%RECOVERY		
42828-CONC-10-C	48401-78-10	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	103.51	pg/g - Wet Wt		
42828-CONC-10-C	48401-78-10	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	HCX	38178-99-3	DIOXIN	MOD 1613B	232.61	pg/g - Wet Wt	U	
42828-CONC-10-C	48401-78-10	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	73	%RECOVERY		
42828-CONC-10-C	48401-78-10	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	73	%RECOVERY		
42828-CONC-10-C	48401-78-10	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	73	%RECOVERY		
42828-CONC-14-A	48401-78-11	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	311.88	pg/g - Wet Wt		
42828-CONC-14-A	48401-78-11	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	HCX	38178-99-3	DIOXIN	MOD 1613B	235.79	pg/g - Wet Wt	U	
42828-CONC-14-A	48401-78-11	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	82	%RECOVERY		
42828-CONC-14-A	48401-78-11	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	83	%RECOVERY		
42828-CONC-14-A	48401-78-11	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	73	%RECOVERY		
42828-CONC-14-B	48401-78-12	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	137.33	pg/g - Wet Wt		
42828-CONC-14-B	48401-78-12	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	HCX	38178-99-3	DIOXIN	MOD 1613B	182.18	pg/g - Wet Wt	U	
42828-CONC-14-B	48401-78-12	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	86	%RECOVERY		
42828-CONC-14-B	48401-78-12	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	82	%RECOVERY		
42828-CONC-14-B	48401-78-12	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	78	%RECOVERY		
42828-CONC-14-C	48401-78-13	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	188.89	pg/g - Wet Wt		
42828-CONC-14-C	48401-78-13	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	HCX	38178-99-3	DIOXIN	MOD 1613B	231.19	pg/g - Wet Wt	U	
42828-CONC-14-C	48401-78-13	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	80	%RECOVERY		
42828-CONC-14-C	48401-78-13	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	84	%RECOVERY		
42828-CONC-14-C	48401-78-13	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	68	%RECOVERY		
42828-CONC-6-A	48401-78-14	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	482.32	pg/g - Wet Wt		
42828-CONC-6-A	48401-78-14	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	HCX	38178-99-3	DIOXIN	MOD 1613B	267.77	pg/g - Wet Wt	U	
42828-CONC-6-A	48401-78-14	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	73	%RECOVERY		
42828-CONC-6-A	48401-78-14	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	77	%RECOVERY		
42828-CONC-6-A	48401-78-14	BCO	NORMAL	7/14/2001	10/17/2001	10/25/2001		49038-60	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	68	%RECOVERY		
42828-CONC-6-B	48401-78-15	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	452.90	pg/g - Wet Wt		
42828-CONC-6-B	48401-78-15	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	HCX	38178-99-3	DIOXIN	MOD 1613B	257.47	pg/g - Wet Wt	U	
42828-CONC-6-B	48401-78-15	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	81	%RECOVERY		
42828-CONC-6-B	48401-78-15	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	88	%RECOVERY		

SAMPLE_NO	LAB_ID	MDL	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
	48401-44-03	5.00		1.00	NA	Lab Extraction ID = 49038-60-26	1.00	G_WET				T
	48401-44-03	200.00		1.00	NA	Lab Extraction ID = 49038-60-26	1.00	G_WET				T
	48401-44-03			1.00	NA	Lab Extraction ID = 49038-60-26	1.00	G_WET				T
	48401-44-03			1.00	NA	Lab Extraction ID = 49038-60-26	1.00	G_WET				T
	48401-44-03			1.00	NA	Lab Extraction ID = 49038-60-26	1.00	G_WET				T
42828-CONC-7-A	48401-78-05	5.65		1.00	NA	Lab Extraction ID = 49038-60-02	0.8843	G_WET	91.47			T
42828-CONC-7-A	48401-78-05	226.17		1.00	NA	Lab Extraction ID = 49038-60-02	0.8843	G_WET	226.17	UJ		T
42828-CONC-7-A	48401-78-05			1.00	NA	Lab Extraction ID = 49038-60-02	0.8843	G_WET				T
42828-CONC-7-A	48401-78-05			1.00	NA	Lab Extraction ID = 49038-60-02	0.8843	G_WET				T
42828-CONC-7-A	48401-78-05			1.00	NA	Lab Extraction ID = 49038-60-02	0.8843	G_WET				T
42828-CONC-7-B	48401-78-06	4.72		1.00	NA	Lab Extraction ID = 49038-60-03	1.0593	G_WET	84.68			T
42828-CONC-7-B	48401-78-06	188.80		1.00	NA	Lab Extraction ID = 49038-60-03	1.0593	G_WET	188.8	UJ		T
42828-CONC-7-B	48401-78-06			1.00	NA	Lab Extraction ID = 49038-60-03	1.0593	G_WET				T
42828-CONC-7-B	48401-78-06			1.00	NA	Lab Extraction ID = 49038-60-03	1.0593	G_WET				T
42828-CONC-7-B	48401-78-06			1.00	NA	Lab Extraction ID = 49038-60-03	1.0593	G_WET				T
42828-CONC-7-C	48401-78-07	6.22		1.00	NA	Lab Extraction ID = 49038-60-04	0.8041	G_WET	123.46			T
42828-CONC-7-C	48401-78-07	248.73		1.00	NA	Lab Extraction ID = 49038-60-04	0.8041	G_WET	248.73	UJ		T
42828-CONC-7-C	48401-78-07			1.00	NA	Lab Extraction ID = 49038-60-04	0.8041	G_WET				T
42828-CONC-7-C	48401-78-07			1.00	NA	Lab Extraction ID = 49038-60-04	0.8041	G_WET				T
42828-CONC-7-C	48401-78-07			1.00	NA	Lab Extraction ID = 49038-60-04	0.8041	G_WET				T
42828-CONC-10-A	48401-78-08	4.59		1.00	NA	Lab Extraction ID = 49038-60-05	1.0899	G_WET	99.94			T
42828-CONC-10-A	48401-78-08	183.50		1.00	NA	Lab Extraction ID = 49038-60-05	1.0899	G_WET	183.5	UJ		T
42828-CONC-10-A	48401-78-08			1.00	NA	Lab Extraction ID = 49038-60-05	1.0899	G_WET				T
42828-CONC-10-A	48401-78-08			1.00	NA	Lab Extraction ID = 49038-60-05	1.0899	G_WET				T
42828-CONC-10-A	48401-78-08			1.00	NA	Lab Extraction ID = 49038-60-05	1.0899	G_WET				T
42828-CONC-10-B	48401-78-09	6.51		1.00	NA	Lab Extraction ID = 49038-60-06	0.7681	G_WET	175.08			T
42828-CONC-10-B	48401-78-09	260.38		1.00	NA	Lab Extraction ID = 49038-60-06	0.7681	G_WET	260.38	UJ		T
42828-CONC-10-B	48401-78-09			1.00	NA	Lab Extraction ID = 49038-60-06	0.7681	G_WET				T
42828-CONC-10-B	48401-78-09			1.00	NA	Lab Extraction ID = 49038-60-06	0.7681	G_WET				T
42828-CONC-10-B	48401-78-09			1.00	NA	Lab Extraction ID = 49038-60-06	0.7681	G_WET				T
42828-CONC-10-C	48401-78-10	5.82		1.00	NA	Lab Extraction ID = 49038-60-07	0.8598	G_WET	103.51			T
42828-CONC-10-C	48401-78-10	232.61		1.00	NA	Lab Extraction ID = 49038-60-07	0.8598	G_WET	232.61	UJ		T
42828-CONC-10-C	48401-78-10			1.00	NA	Lab Extraction ID = 49038-60-07	0.8598	G_WET				T
42828-CONC-10-C	48401-78-10			1.00	NA	Lab Extraction ID = 49038-60-07	0.8598	G_WET				T
42828-CONC-10-C	48401-78-10			1.00	NA	Lab Extraction ID = 49038-60-07	0.8598	G_WET				T
42828-CONC-14-A	48401-78-11	5.89		1.00	NA	Lab Extraction ID = 49038-60-08	0.8482	G_WET	311.88			T
42828-CONC-14-A	48401-78-11	235.79		1.00	NA	Lab Extraction ID = 49038-60-08	0.8482	G_WET	235.79	UJ		T
42828-CONC-14-A	48401-78-11			1.00	NA	Lab Extraction ID = 49038-60-08	0.8482	G_WET				T
42828-CONC-14-A	48401-78-11			1.00	NA	Lab Extraction ID = 49038-60-08	0.8482	G_WET				T
42828-CONC-14-A	48401-78-11			1.00	NA	Lab Extraction ID = 49038-60-08	0.8482	G_WET				T
42828-CONC-14-B	48401-78-12	4.55		1.00	NA	Lab Extraction ID = 49038-60-09	1.0978	G_WET	137.33			T
42828-CONC-14-B	48401-78-12	182.18		1.00	NA	Lab Extraction ID = 49038-60-09	1.0978	G_WET	182.18	UJ		T
42828-CONC-14-B	48401-78-12			1.00	NA	Lab Extraction ID = 49038-60-09	1.0978	G_WET				T
42828-CONC-14-B	48401-78-12			1.00	NA	Lab Extraction ID = 49038-60-09	1.0978	G_WET				T
42828-CONC-14-B	48401-78-12			1.00	NA	Lab Extraction ID = 49038-60-09	1.0978	G_WET				T
42828-CONC-14-C	48401-78-13	5.78		1.00	NA	Lab Extraction ID = 49038-60-10	0.8651	G_WET	188.89			T
42828-CONC-14-C	48401-78-13	231.19		1.00	NA	Lab Extraction ID = 49038-60-10	0.8651	G_WET	231.19	UJ		T
42828-CONC-14-C	48401-78-13			1.00	NA	Lab Extraction ID = 49038-60-10	0.8651	G_WET				T
42828-CONC-14-C	48401-78-13			1.00	NA	Lab Extraction ID = 49038-60-10	0.8651	G_WET				T
42828-CONC-14-C	48401-78-13			1.00	NA	Lab Extraction ID = 49038-60-10	0.8651	G_WET				T
42828-CONC-6-A	48401-78-14	6.69		1.00	NA	Lab Extraction ID = 49038-60-11	0.7469	G_WET	482.32			T
42828-CONC-6-A	48401-78-14	267.77		1.00	NA	Lab Extraction ID = 49038-60-11	0.7469	G_WET	267.77	UJ		T
42828-CONC-6-A	48401-78-14			1.00	NA	Lab Extraction ID = 49038-60-11	0.7469	G_WET				T
42828-CONC-6-A	48401-78-14			1.00	NA	Lab Extraction ID = 49038-60-11	0.7469	G_WET				T
42828-CONC-6-A	48401-78-14			1.00	NA	Lab Extraction ID = 49038-60-11	0.7469	G_WET				T
42828-CONC-6-B	48401-78-15	6.44		1.00	NA	Lab Extraction ID = 49038-60-12	0.7768	G_WET	452.9			T
42828-CONC-6-B	48401-78-15	257.47		1.00	NA	Lab Extraction ID = 49038-60-12	0.7768	G_WET	257.47	UJ		T
42828-CONC-6-B	48401-78-15			1.00	NA	Lab Extraction ID = 49038-60-12	0.7768	G_WET				T
42828-CONC-6-B	48401-78-15			1.00	NA	Lab Extraction ID = 49038-60-12	0.7768	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL
42828-CONC-6-B	48401-78-15	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	72	%RECOVERY		
42828-CONC-6-C	48401-78-16	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	343.77	pg/g - Wet Wt		
42828-CONC-6-C	48401-78-16	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	HCX	38178-99-3	DIOXIN	MOD 1613B	174.84	pg/g - Wet Wt	U	
42828-CONC-6-C	48401-78-16	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	76	%RECOVERY		
42828-CONC-6-C	48401-78-16	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	82	%RECOVERY		
42828-CONC-6-C	48401-78-16	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	69	%RECOVERY		
42828-CONC-9-A	48401-78-17	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	535.43	pg/g - Wet Wt		
42828-CONC-9-A	48401-78-17	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	HCX	38178-99-3	DIOXIN	MOD 1613B	226.17	pg/g - Wet Wt	U	
42828-CONC-9-A	48401-78-17	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	86	%RECOVERY		
42828-CONC-9-A	48401-78-17	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	88	%RECOVERY		
42828-CONC-9-A	48401-78-17	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	79	%RECOVERY		
42828-CONC-9-B	48401-78-18	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	619.65	pg/g - Wet Wt		
42828-CONC-9-B	48401-78-18	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	HCX	38178-99-3	DIOXIN	MOD 1613B	211.93	pg/g - Wet Wt	U	
42828-CONC-9-B	48401-78-18	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	84	%RECOVERY		
42828-CONC-9-B	48401-78-18	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	91	%RECOVERY		
42828-CONC-9-B	48401-78-18	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	76	%RECOVERY		
42828-CONC-9-C	48401-78-19	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	889.99	pg/g - Wet Wt		
42828-CONC-9-C	48401-78-19	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	HCX	38178-99-3	DIOXIN	MOD 1613B	258.60	pg/g - Wet Wt	U	
42828-CONC-9-C	48401-78-19	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	69	%RECOVERY		
42828-CONC-9-C	48401-78-19	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	73	%RECOVERY		
42828-CONC-9-C	48401-78-19	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	65	%RECOVERY		
42828-CONC-3-A	48401-78-02	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	1.57	pg/g - Wet Wt	J	
42828-CONC-3-A	48401-78-02	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	HCX	38178-99-3	DIOXIN	MOD 1613B	189.61	pg/g - Wet Wt	U	
42828-CONC-3-A	48401-78-02	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	72	%RECOVERY		
42828-CONC-3-A	48401-78-02	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	75	%RECOVERY		
42828-CONC-3-A	48401-78-02	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	66	%RECOVERY		
42828-CONC-3-B	48401-78-03	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	4.17	pg/g - Wet Wt	J	
42828-CONC-3-B	48401-78-03	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	HCX	38178-99-3	DIOXIN	MOD 1613B	503.02	pg/g - Wet Wt	U	
42828-CONC-3-B	48401-78-03	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	74	%RECOVERY		
42828-CONC-3-B	48401-78-03	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	77	%RECOVERY		
42828-CONC-3-B	48401-78-03	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	66	%RECOVERY		
42828-CONC-3-C	48401-78-04	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	3.01	pg/g - Wet Wt	J	
42828-CONC-3-C	48401-78-04	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	HCX	38178-99-3	DIOXIN	MOD 1613B	246.28	pg/g - Wet Wt	U	
42828-CONC-3-C	48401-78-04	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	84	%RECOVERY		
42828-CONC-3-C	48401-78-04	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	86	%RECOVERY		
42828-CONC-3-C	48401-78-04	BCO	NORMAL	7/14/2001	10/17/2001	10/26/2001		49038-60	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	73	%RECOVERY		
42828-CONC-12-A	48401-78-20	BCO	NORMAL	7/14/2001	10/17/2001	10/27/2001		49038-60	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	1132.91	pg/g - Wet Wt		
42828-CONC-12-A	48401-78-20	BCO	NORMAL	7/14/2001	10/17/2001	10/27/2001		49038-60	HCX	38178-99-3	DIOXIN	MOD 1613B	240.88	pg/g - Wet Wt	U	
42828-CONC-12-A	48401-78-20	BCO	NORMAL	7/14/2001	10/17/2001	10/27/2001		49038-60	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	86	%RECOVERY		
42828-CONC-12-A	48401-78-20	BCO	NORMAL	7/14/2001	10/17/2001	10/27/2001		49038-60	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	86	%RECOVERY		
42828-CONC-12-A	48401-78-20	BCO	NORMAL	7/14/2001	10/17/2001	10/27/2001		49038-60	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	73	%RECOVERY		
42828-CONC-12-B	48401-78-21	BCO	NORMAL	7/14/2001	10/17/2001	10/27/2001		49038-60	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	611.32	pg/g - Wet Wt		
42828-CONC-12-B	48401-78-21	BCO	NORMAL	7/14/2001	10/17/2001	10/27/2001		49038-60	HCX	38178-99-3	DIOXIN	MOD 1613B	3188.52	pg/g - Wet Wt	U	
42828-CONC-12-B	48401-78-21	BCO	NORMAL	7/14/2001	10/17/2001	10/27/2001		49038-60	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	67	%RECOVERY		
42828-CONC-12-B	48401-78-21	BCO	NORMAL	7/14/2001	10/17/2001	10/27/2001		49038-60	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	77	%RECOVERY		
42828-CONC-12-B	48401-78-21	BCO	NORMAL	7/14/2001	10/17/2001	10/27/2001		49038-60	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	62	%RECOVERY		
42828-CONC-12-B	48401-78-21	BCO	DUPLICATE	7/14/2001	10/17/2001	10/27/2001		49038-60	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	675.25	pg/g - Wet Wt		
42828-CONC-12-B	48401-78-21	BCO	DUPLICATE	7/14/2001	10/17/2001	10/27/2001		49038-60	HCX	38178-99-3	DIOXIN	MOD 1613B	763.65	pg/g - Wet Wt	U	
42828-CONC-12-B	48401-78-21	BCO	DUPLICATE	7/14/2001	10/17/2001	10/27/2001		49038-60	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	76	%RECOVERY		
42828-CONC-12-B	48401-78-21	BCO	DUPLICATE	7/14/2001	10/17/2001	10/27/2001		49038-60	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	81	%RECOVERY		
42828-CONC-12-B	48401-78-21	BCO	DUPLICATE	7/14/2001	10/17/2001	10/27/2001		49038-60	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	70	%RECOVERY		
42828-CONC-3-B	48401-78-03	BCO	MS	7/14/2001	10/17/2001	10/27/2001		49038-60	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	103	%RECOVERY		
42828-CONC-3-B	48401-78-03	BCO	MS	7/14/2001	10/17/2001	10/27/2001		49038-60	HCX	38178-99-3	DIOXIN	MOD 1613B	187	%RECOVERY		
42828-CONC-3-B	48401-78-03	BCO	MS	7/14/2001	10/17/2001	10/27/2001		49038-60	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	72	%RECOVERY		
42828-CONC-3-B	48401-78-03	BCO	MS	7/14/2001	10/17/2001	10/27/2001		49038-60	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	80	%RECOVERY		
42828-CONC-3-B	48401-78-03	BCO	MS	7/14/2001	10/17/2001	10/27/2001		49038-60	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	66	%RECOVERY		
	48514-78-03	BCO	SRM		10/17/2001	10/27/2001		49038-60	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	23.6	%DIFFERENCE		
	48514-78-03	BCO	SRM		10/17/2001	10/27/2001		49038-60	HCX	38178-99-3	DIOXIN	MOD 1613B	NA	%DIFFERENCE		
	48514-78-03	BCO	SRM		10/17/2001	10/27/2001		49038-60	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	81	%DIFFERENCE		

SAMPLE_NO	LAB_ID	MDL	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
42828-CONC-6-B	48401-78-15			1.00	NA	Lab Extraction ID = 49038-60-12	0.7768	G_WET				T
42828-CONC-6-C	48401-78-16	4.37		1.00	NA	Lab Extraction ID = 49038-60-13	1.1439	G_WET	343.77			T
42828-CONC-6-C	48401-78-16	174.84		1.00	NA	Lab Extraction ID = 49038-60-13	1.1439	G_WET	174.84	UJ		T
42828-CONC-6-C	48401-78-16			1.00	NA	Lab Extraction ID = 49038-60-13	1.1439	G_WET				T
42828-CONC-6-C	48401-78-16			1.00	NA	Lab Extraction ID = 49038-60-13	1.1439	G_WET				T
42828-CONC-6-C	48401-78-16			1.00	NA	Lab Extraction ID = 49038-60-13	1.1439	G_WET				T
42828-CONC-9-A	48401-78-17	5.65		1.00	NA	Lab Extraction ID = 49038-60-14	0.8843	G_WET	535.43			T
42828-CONC-9-A	48401-78-17	226.17		1.00	NA	Lab Extraction ID = 49038-60-14	0.8843	G_WET	226.17	UJ		T
42828-CONC-9-A	48401-78-17			1.00	NA	Lab Extraction ID = 49038-60-14	0.8843	G_WET				T
42828-CONC-9-A	48401-78-17			1.00	NA	Lab Extraction ID = 49038-60-14	0.8843	G_WET				T
42828-CONC-9-A	48401-78-17			1.00	NA	Lab Extraction ID = 49038-60-14	0.8843	G_WET				T
42828-CONC-9-B	48401-78-18	5.30		1.00	NA	Lab Extraction ID = 49038-60-15	0.9437	G_WET	619.65			T
42828-CONC-9-B	48401-78-18	211.93		1.00	NA	Lab Extraction ID = 49038-60-15	0.9437	G_WET	211.93	UJ		T
42828-CONC-9-B	48401-78-18			1.00	NA	Lab Extraction ID = 49038-60-15	0.9437	G_WET				T
42828-CONC-9-B	48401-78-18			1.00	NA	Lab Extraction ID = 49038-60-15	0.9437	G_WET				T
42828-CONC-9-B	48401-78-18			1.00	NA	Lab Extraction ID = 49038-60-15	0.9437	G_WET				T
42828-CONC-9-C	48401-78-19	6.46		1.00	NA	Lab Extraction ID = 49038-60-16	0.7734	G_WET	889.99			T
42828-CONC-9-C	48401-78-19	258.60		1.00	NA	Lab Extraction ID = 49038-60-16	0.7734	G_WET	258.6	UJ		T
42828-CONC-9-C	48401-78-19			1.00	NA	Lab Extraction ID = 49038-60-16	0.7734	G_WET				T
42828-CONC-9-C	48401-78-19			1.00	NA	Lab Extraction ID = 49038-60-16	0.7734	G_WET				T
42828-CONC-9-C	48401-78-19			1.00	NA	Lab Extraction ID = 49038-60-16	0.7734	G_WET				T
42828-CONC-3-A	48401-78-02	4.74		1.00	NA	Lab Extraction ID = 49038-60-17	1.0548	G_WET	1.57	U		T
42828-CONC-3-A	48401-78-02	189.61		1.00	NA	Lab Extraction ID = 49038-60-17	1.0548	G_WET	189.61	UJ		T
42828-CONC-3-A	48401-78-02			1.00	NA	Lab Extraction ID = 49038-60-17	1.0548	G_WET				T
42828-CONC-3-A	48401-78-02			1.00	NA	Lab Extraction ID = 49038-60-17	1.0548	G_WET				T
42828-CONC-3-A	48401-78-02			1.00	NA	Lab Extraction ID = 49038-60-17	1.0548	G_WET				T
42828-CONC-3-B	48401-78-03	12.58		1.00	NA	Lab Extraction ID = 49038-60-18	0.3976	G_WET	4.17	J		T
42828-CONC-3-B	48401-78-03	503.02		1.00	NA	Lab Extraction ID = 49038-60-18	0.3976	G_WET	503.02	UJ		T
42828-CONC-3-B	48401-78-03			1.00	NA	Lab Extraction ID = 49038-60-18	0.3976	G_WET				T
42828-CONC-3-B	48401-78-03			1.00	NA	Lab Extraction ID = 49038-60-18	0.3976	G_WET				T
42828-CONC-3-B	48401-78-03			1.00	NA	Lab Extraction ID = 49038-60-18	0.3976	G_WET				T
42828-CONC-3-C	48401-78-04	6.16		1.00	NA	Lab Extraction ID = 49038-60-20	0.8121	G_WET	3.01	J		T
42828-CONC-3-C	48401-78-04	246.28		1.00	NA	Lab Extraction ID = 49038-60-20	0.8121	G_WET	246.28	UJ		T
42828-CONC-3-C	48401-78-04			1.00	NA	Lab Extraction ID = 49038-60-20	0.8121	G_WET				T
42828-CONC-3-C	48401-78-04			1.00	NA	Lab Extraction ID = 49038-60-20	0.8121	G_WET				T
42828-CONC-3-C	48401-78-04			1.00	NA	Lab Extraction ID = 49038-60-20	0.8121	G_WET				T
42828-CONC-12-A	48401-78-20	6.02		1.00	NA	Lab Extraction ID = 49038-60-21	0.8303	G_WET	1132.91			T
42828-CONC-12-A	48401-78-20	240.88		1.00	NA	Lab Extraction ID = 49038-60-21	0.8303	G_WET	240.88	UJ		T
42828-CONC-12-A	48401-78-20			1.00	NA	Lab Extraction ID = 49038-60-21	0.8303	G_WET				T
42828-CONC-12-A	48401-78-20			1.00	NA	Lab Extraction ID = 49038-60-21	0.8303	G_WET				T
42828-CONC-12-A	48401-78-20			1.00	NA	Lab Extraction ID = 49038-60-21	0.8303	G_WET				T
42828-CONC-12-B	48401-78-21	79.71		4.00	NA	Lab Extraction ID = 49038-60-22	0.2509	G_WET	611.32			T
42828-CONC-12-B	48401-78-21	3188.52		4.00	NA	Lab Extraction ID = 49038-60-22	0.2509	G_WET	3188.52	UJ		T
42828-CONC-12-B	48401-78-21			4.00	NA	Lab Extraction ID = 49038-60-22	0.2509	G_WET				T
42828-CONC-12-B	48401-78-21			4.00	NA	Lab Extraction ID = 49038-60-22	0.2509	G_WET				T
42828-CONC-12-B	48401-78-21			4.00	NA	Lab Extraction ID = 49038-60-22	0.2509	G_WET				T
42828-CONC-12-B	48401-78-21	19.09		1.00	NA	Lab Extraction ID = 49038-60-23	0.2619	G_WET				T
42828-CONC-12-B	48401-78-21	763.65		1.00	NA	Lab Extraction ID = 49038-60-23	0.2619	G_WET				T
42828-CONC-12-B	48401-78-21			1.00	NA	Lab Extraction ID = 49038-60-23	0.2619	G_WET				T
42828-CONC-12-B	48401-78-21			1.00	NA	Lab Extraction ID = 49038-60-23	0.2619	G_WET				T
42828-CONC-12-B	48401-78-21			1.00	NA	Lab Extraction ID = 49038-60-23	0.2619	G_WET				T
42828-CONC-3-B	48401-78-03			1.00	NA	Lab Extraction ID = 49038-60-19	0.3882	G_WET				T
42828-CONC-3-B	48401-78-03			1.00	NA	Lab Extraction ID = 49038-60-19	0.3882	G_WET				T
42828-CONC-3-B	48401-78-03			1.00	NA	Lab Extraction ID = 49038-60-19	0.3882	G_WET				T
42828-CONC-3-B	48401-78-03			1.00	NA	Lab Extraction ID = 49038-60-19	0.3882	G_WET				T
42828-CONC-3-B	48401-78-03			1.00	NA	Lab Extraction ID = 49038-60-19	0.3882	G_WET				T
	48514-78-03	4.96		1.00	NA	Lab Extraction ID = 49038-60-24	1.0081	G_WET				T
	48514-78-03	198.39		1.00	NA	Lab Extraction ID = 49038-60-24	1.0081	G_WET				T
	48514-78-03			1.00	NA	Lab Extraction ID = 49038-60-24	1.0081	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL
	48514-78-03	BCO	SRM		10/17/2001	10/27/2001		49038-60	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	87	%DIFFERENCE		
	48514-78-03	BCO	SRM		10/17/2001	10/27/2001		49038-60	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	70	%DIFFERENCE		
	48401-44-03	BCO	LCS		10/17/2001	10/24/2001		49038-60	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	101	%RECOVERY		
	48401-44-03	BCO	LCS		10/17/2001	10/24/2001		49038-60	HCX	38178-99-3	DIOXIN	MOD 1613B	67	%RECOVERY		
	48401-44-03	BCO	LCS		10/17/2001	10/24/2001		49038-60	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	81	%RECOVERY		
	48401-44-03	BCO	LCS		10/17/2001	10/24/2001		49038-60	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	82	%RECOVERY		
	48401-44-03	BCO	LCS		10/17/2001	10/24/2001		49038-60	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	37	%RECOVERY		

SAMPLE_NO	LAB_ID	MDL	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
	48514-78-03			1.00	NA	Lab Extraction ID = 49038-60-24	1.0081	G_WET				T
	48514-78-03			1.00	NA	Lab Extraction ID = 49038-60-24	1.0081	G_WET				T
	48401-44-03			1.00	NA	Lab Extraction ID = 49038-60-25	0.5103	G_WET				T
	48401-44-03			1.00	NA	Lab Extraction ID = 49038-60-25	0.5103	G_WET				T
	48401-44-03			1.00	NA	Lab Extraction ID = 49038-60-25	0.5103	G_WET				T
	48401-44-03			1.00	NA	Lab Extraction ID = 49038-60-25	0.5103	G_WET				T
	48401-44-03			1.00	NA	Lab Extraction ID = 49038-60-25	0.5103	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL
	48401-44-03	BCO	M_BLANK		10/29/2001	11/6/2001		49038-71	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	1.14	pg/g - Wet Wt	J	
	48401-44-03	BCO	M_BLANK		10/29/2001	11/6/2001		49038-71	HCX	38178-99-3	DIOXIN	MOD 1613B	200.00	pg/g - Wet Wt	U	
	48401-44-03	BCO	M_BLANK		10/29/2001	11/6/2001		49038-71	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	73	%RECOVERY		
	48401-44-03	BCO	M_BLANK		10/29/2001	11/6/2001		49038-71	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	76	%RECOVERY		
	48401-44-03	BCO	M_BLANK		10/29/2001	11/6/2001		49038-71	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	71	%RECOVERY		
42828-CONC-12-C	48401-78-22	BCO	NORMAL	7/14/2001	10/29/2001	11/6/2001		49038-71	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	959.53	pg/g - Wet Wt		
42828-CONC-12-C	48401-78-22	BCO	NORMAL	7/14/2001	10/29/2001	11/6/2001		49038-71	HCX	38178-99-3	DIOXIN	MOD 1613B	253.90	pg/g - Wet Wt	U	
42828-CONC-12-C	48401-78-22	BCO	NORMAL	7/14/2001	10/29/2001	11/6/2001		49038-71	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	54	%RECOVERY		
42828-CONC-12-C	48401-78-22	BCO	NORMAL	7/14/2001	10/29/2001	11/6/2001		49038-71	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	53	%RECOVERY		
42828-CONC-12-C	48401-78-22	BCO	NORMAL	7/14/2001	10/29/2001	11/6/2001		49038-71	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	48	%RECOVERY		
42828-CONC-11-A	48401-79-07	BCO	NORMAL	7/14/2001	10/29/2001	11/6/2001		49038-71	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	743.91	pg/g - Wet Wt		
42828-CONC-11-A	48401-79-07	BCO	NORMAL	7/14/2001	10/29/2001	11/6/2001		49038-71	HCX	38178-99-3	DIOXIN	MOD 1613B	188.80	pg/g - Wet Wt	U	
42828-CONC-11-A	48401-79-07	BCO	NORMAL	7/14/2001	10/29/2001	11/6/2001		49038-71	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	43	%RECOVERY		
42828-CONC-11-A	48401-79-07	BCO	NORMAL	7/14/2001	10/29/2001	11/6/2001		49038-71	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	42	%RECOVERY		
42828-CONC-11-A	48401-79-07	BCO	NORMAL	7/14/2001	10/29/2001	11/6/2001		49038-71	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	48	%RECOVERY		
42828-CONC-11-C	48401-79-09	BCO	NORMAL	7/14/2001	10/29/2001	11/6/2001		49038-71	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	573.69	pg/g - Wet Wt		
42828-CONC-11-C	48401-79-09	BCO	NORMAL	7/14/2001	10/29/2001	11/6/2001		49038-71	HCX	38178-99-3	DIOXIN	MOD 1613B	168.94	pg/g - Wet Wt	J	
42828-CONC-11-C	48401-79-09	BCO	NORMAL	7/14/2001	10/29/2001	11/6/2001		49038-71	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	65	%RECOVERY		
42828-CONC-11-C	48401-79-09	BCO	NORMAL	7/14/2001	10/29/2001	11/6/2001		49038-71	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	54	%RECOVERY		
42828-CONC-11-C	48401-79-09	BCO	NORMAL	7/14/2001	10/29/2001	11/6/2001		49038-71	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	58	%RECOVERY		
42828-CONC-8-A	48401-78-26	BCO	NORMAL	7/14/2001	10/29/2001	11/6/2001		49038-71	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	95.24	pg/g - Wet Wt		
42828-CONC-8-A	48401-78-26	BCO	NORMAL	7/14/2001	10/29/2001	11/6/2001		49038-71	HCX	38178-99-3	DIOXIN	MOD 1613B	200.22	pg/g - Wet Wt	U	
42828-CONC-8-A	48401-78-26	BCO	NORMAL	7/14/2001	10/29/2001	11/6/2001		49038-71	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	52	%RECOVERY		
42828-CONC-8-A	48401-78-26	BCO	NORMAL	7/14/2001	10/29/2001	11/6/2001		49038-71	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	49	%RECOVERY		
42828-CONC-8-A	48401-78-26	BCO	NORMAL	7/14/2001	10/29/2001	11/6/2001		49038-71	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	49	%RECOVERY		
42828-CONC-8-B	48401-78-27	BCO	NORMAL	7/14/2001	10/29/2001	11/6/2001		49038-71	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	168.97	pg/g - Wet Wt		
42828-CONC-8-B	48401-78-27	BCO	NORMAL	7/14/2001	10/29/2001	11/6/2001		49038-71	HCX	38178-99-3	DIOXIN	MOD 1613B	247.01	pg/g - Wet Wt	U	
42828-CONC-8-B	48401-78-27	BCO	NORMAL	7/14/2001	10/29/2001	11/6/2001		49038-71	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	55	%RECOVERY		
42828-CONC-8-B	48401-78-27	BCO	NORMAL	7/14/2001	10/29/2001	11/6/2001		49038-71	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	54	%RECOVERY		
42828-CONC-8-B	48401-78-27	BCO	NORMAL	7/14/2001	10/29/2001	11/6/2001		49038-71	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	50	%RECOVERY		
42828-CONC-8-C	48401-78-28	BCO	NORMAL	7/14/2001	10/29/2001	11/6/2001		49038-71	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	174.67	pg/g - Wet Wt		
42828-CONC-8-C	48401-78-28	BCO	NORMAL	7/14/2001	10/29/2001	11/6/2001		49038-71	HCX	38178-99-3	DIOXIN	MOD 1613B	195.98	pg/g - Wet Wt	U	
42828-CONC-8-C	48401-78-28	BCO	NORMAL	7/14/2001	10/29/2001	11/6/2001		49038-71	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	64	%RECOVERY		
42828-CONC-8-C	48401-78-28	BCO	NORMAL	7/14/2001	10/29/2001	11/6/2001		49038-71	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	62	%RECOVERY		
42828-CONC-8-C	48401-78-28	BCO	NORMAL	7/14/2001	10/29/2001	11/6/2001		49038-71	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	58	%RECOVERY		
42828-CONC-5-A	48401-78-29	BCO	NORMAL	7/14/2001	10/29/2001	11/7/2001		49038-71	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	189.79	pg/g - Wet Wt		
42828-CONC-5-A	48401-78-29	BCO	NORMAL	7/14/2001	10/29/2001	11/7/2001		49038-71	HCX	38178-99-3	DIOXIN	MOD 1613B	124.35	pg/g - Wet Wt	J	
42828-CONC-5-A	48401-78-29	BCO	NORMAL	7/14/2001	10/29/2001	11/7/2001		49038-71	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	56	%RECOVERY		
42828-CONC-5-A	48401-78-29	BCO	NORMAL	7/14/2001	10/29/2001	11/7/2001		49038-71	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	52	%RECOVERY		
42828-CONC-5-A	48401-78-29	BCO	NORMAL	7/14/2001	10/29/2001	11/7/2001		49038-71	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	50	%RECOVERY		
42828-CONC-5-B	48401-79-02	BCO	NORMAL	7/14/2001	10/29/2001	11/7/2001		49038-71	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	327.01	pg/g - Wet Wt		
42828-CONC-5-B	48401-79-02	BCO	NORMAL	7/14/2001	10/29/2001	11/7/2001		49038-71	HCX	38178-99-3	DIOXIN	MOD 1613B	102.08	pg/g - Wet Wt	J	
42828-CONC-5-B	48401-79-02	BCO	NORMAL	7/14/2001	10/29/2001	11/7/2001		49038-71	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	52	%RECOVERY		
42828-CONC-5-B	48401-79-02	BCO	NORMAL	7/14/2001	10/29/2001	11/7/2001		49038-71	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	52	%RECOVERY		
42828-CONC-5-B	48401-79-02	BCO	NORMAL	7/14/2001	10/29/2001	11/7/2001		49038-71	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	43	%RECOVERY		
42828-CONC-5-C	48401-79-03	BCO	NORMAL	7/14/2001	10/29/2001	11/7/2001		49038-71	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	249.72	pg/g - Wet Wt		
42828-CONC-5-C	48401-79-03	BCO	NORMAL	7/14/2001	10/29/2001	11/7/2001		49038-71	HCX	38178-99-3	DIOXIN	MOD 1613B	106.52	pg/g - Wet Wt	J	
42828-CONC-5-C	48401-79-03	BCO	NORMAL	7/14/2001	10/29/2001	11/7/2001		49038-71	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	63	%RECOVERY		
42828-CONC-5-C	48401-79-03	BCO	NORMAL	7/14/2001	10/29/2001	11/7/2001		49038-71	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	59	%RECOVERY		
42828-CONC-5-C	48401-79-03	BCO	NORMAL	7/14/2001	10/29/2001	11/7/2001		49038-71	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	60	%RECOVERY		
42828-CONC-4-A	48401-78-23	BCO	NORMAL	7/14/2001	10/29/2001	11/7/2001		49038-71	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	96.46	pg/g - Wet Wt		
42828-CONC-4-A	48401-78-23	BCO	NORMAL	7/14/2001	10/29/2001	11/7/2001		49038-71	HCX	38178-99-3	DIOXIN	MOD 1613B	42.75	pg/g - Wet Wt	J	
42828-CONC-4-A	48401-78-23	BCO	NORMAL	7/14/2001	10/29/2001	11/7/2001		49038-71	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	66	%RECOVERY		
42828-CONC-4-A	48401-78-23	BCO	NORMAL	7/14/2001	10/29/2001	11/7/2001		49038-71	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	64	%RECOVERY		
42828-CONC-4-A	48401-78-23	BCO	NORMAL	7/14/2001	10/29/2001	11/7/2001		49038-71	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	59	%RECOVERY		
42828-CONC-4-B	48401-78-24	BCO	NORMAL	7/14/2001	10/29/2001	11/7/2001		49038-71	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	66.51	pg/g - Wet Wt		
42828-CONC-4-B	48401-78-24	BCO	NORMAL	7/14/2001	10/29/2001	11/7/2001		49038-71	HCX	38178-99-3	DIOXIN	MOD 1613B	164.08	pg/g - Wet Wt	U	
42828-CONC-4-B	48401-78-24	BCO	NORMAL	7/14/2001	10/29/2001	11/7/2001		49038-71	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	15	%RECOVERY	&	
42828-CONC-4-B	48401-78-24	BCO	NORMAL	7/14/2001	10/29/2001	11/7/2001		49038-71	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	11	%RECOVERY	&	

SAMPLE_NO	LAB_ID	MDL	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
	48401-44-03	5.00		1.00	NA	Lab Extraction ID = 49038-71-25	1.00	G_WET				T
	48401-44-03	200.00		1.00	NA	Lab Extraction ID = 49038-71-25	1.00	G_WET				T
	48401-44-03			1.00	NA	Lab Extraction ID = 49038-71-25	1.00	G_WET				T
	48401-44-03			1.00	NA	Lab Extraction ID = 49038-71-25	1.00	G_WET				T
	48401-44-03			1.00	NA	Lab Extraction ID = 49038-71-25	1.00	G_WET				T
42828-CONC-12-C	48401-78-22	6.35		1.00	NA	Lab Extraction ID = 49038-71-02	0.7877	G_WET	959.54			T
42828-CONC-12-C	48401-78-22	253.90		1.00	NA	Lab Extraction ID = 49038-71-02	0.7877	G_WET	253.9	UJ		T
42828-CONC-12-C	48401-78-22			1.00	NA	Lab Extraction ID = 49038-71-02	0.7877	G_WET				T
42828-CONC-12-C	48401-78-22			1.00	NA	Lab Extraction ID = 49038-71-02	0.7877	G_WET				T
42828-CONC-12-C	48401-78-22			1.00	NA	Lab Extraction ID = 49038-71-02	0.7877	G_WET				T
42828-CONC-11-A	48401-79-07	4.72		1.00	NA	Lab Extraction ID = 49038-71-03	0.7905	G_WET	743.9			T
42828-CONC-11-A	48401-79-07	188.80		1.00	NA	Lab Extraction ID = 49038-71-03	0.7905	G_WET	188.8	UJ		T
42828-CONC-11-A	48401-79-07			1.00	NA	Lab Extraction ID = 49038-71-03	0.7905	G_WET				T
42828-CONC-11-A	48401-79-07			1.00	NA	Lab Extraction ID = 49038-71-03	0.7905	G_WET				T
42828-CONC-11-A	48401-79-07			1.00	NA	Lab Extraction ID = 49038-71-03	0.7905	G_WET				T
42828-CONC-11-C	48401-79-09	6.87		1.00	NA	Lab Extraction ID = 49038-71-05	0.7281	G_WET	573.69			T
42828-CONC-11-C	48401-79-09	274.69		1.00	NA	Lab Extraction ID = 49038-71-05	0.7281	G_WET	168.94	J		T
42828-CONC-11-C	48401-79-09			1.00	NA	Lab Extraction ID = 49038-71-05	0.7281	G_WET				T
42828-CONC-11-C	48401-79-09			1.00	NA	Lab Extraction ID = 49038-71-05	0.7281	G_WET				T
42828-CONC-11-C	48401-79-09			1.00	NA	Lab Extraction ID = 49038-71-05	0.7281	G_WET				T
42828-CONC-8-A	48401-78-26	5.01		1.00	NA	Lab Extraction ID = 49038-71-06	0.9989	G_WET	95.24			T
42828-CONC-8-A	48401-78-26	200.22		1.00	NA	Lab Extraction ID = 49038-71-06	0.9989	G_WET	200.22	UJ		T
42828-CONC-8-A	48401-78-26			1.00	NA	Lab Extraction ID = 49038-71-06	0.9989	G_WET				T
42828-CONC-8-A	48401-78-26			1.00	NA	Lab Extraction ID = 49038-71-06	0.9989	G_WET				T
42828-CONC-8-A	48401-78-26			1.00	NA	Lab Extraction ID = 49038-71-06	0.9989	G_WET				T
42828-CONC-8-B	48401-78-27	6.18		1.00	NA	Lab Extraction ID = 49038-71-07	0.8097	G_WET	168.97			T
42828-CONC-8-B	48401-78-27	247.01		1.00	NA	Lab Extraction ID = 49038-71-07	0.8097	G_WET	247.01	UJ		T
42828-CONC-8-B	48401-78-27			1.00	NA	Lab Extraction ID = 49038-71-07	0.8097	G_WET				T
42828-CONC-8-B	48401-78-27			1.00	NA	Lab Extraction ID = 49038-71-07	0.8097	G_WET				T
42828-CONC-8-B	48401-78-27			1.00	NA	Lab Extraction ID = 49038-71-07	0.8097	G_WET				T
42828-CONC-8-C	48401-78-28	4.90		1.00	NA	Lab Extraction ID = 49038-71-08	1.0205	G_WET	174.67			T
42828-CONC-8-C	48401-78-28	195.98		1.00	NA	Lab Extraction ID = 49038-71-08	1.0205	G_WET	195.98	UJ		T
42828-CONC-8-C	48401-78-28			1.00	NA	Lab Extraction ID = 49038-71-08	1.0205	G_WET				T
42828-CONC-8-C	48401-78-28			1.00	NA	Lab Extraction ID = 49038-71-08	1.0205	G_WET				T
42828-CONC-8-C	48401-78-28			1.00	NA	Lab Extraction ID = 49038-71-08	1.0205	G_WET				T
42828-CONC-5-A	48401-78-29	6.04		1.00	NA	Lab Extraction ID = 49038-71-09	0.8272	G_WET	189.79			T
42828-CONC-5-A	48401-78-29	241.78		1.00	NA	Lab Extraction ID = 49038-71-09	0.8272	G_WET	124.35	J		T
42828-CONC-5-A	48401-78-29			1.00	NA	Lab Extraction ID = 49038-71-09	0.8272	G_WET				T
42828-CONC-5-A	48401-78-29			1.00	NA	Lab Extraction ID = 49038-71-09	0.8272	G_WET				T
42828-CONC-5-A	48401-78-29			1.00	NA	Lab Extraction ID = 49038-71-09	0.8272	G_WET				T
42828-CONC-5-B	48401-79-02	6.49		1.00	NA	Lab Extraction ID = 49038-71-10	0.7703	G_WET	327.01			T
42828-CONC-5-B	48401-79-02	259.64		1.00	NA	Lab Extraction ID = 49038-71-10	0.7703	G_WET	102.08	J		T
42828-CONC-5-B	48401-79-02			1.00	NA	Lab Extraction ID = 49038-71-10	0.7703	G_WET				T
42828-CONC-5-B	48401-79-02			1.00	NA	Lab Extraction ID = 49038-71-10	0.7703	G_WET				T
42828-CONC-5-B	48401-79-02			1.00	NA	Lab Extraction ID = 49038-71-10	0.7703	G_WET				T
42828-CONC-5-C	48401-79-03	5.78		1.00	NA	Lab Extraction ID = 49038-71-11	0.9107	G_WET	249.72			T
42828-CONC-5-C	48401-79-03	231.19		1.00	NA	Lab Extraction ID = 49038-71-11	0.9107	G_WET	106.52	J		T
42828-CONC-5-C	48401-79-03			1.00	NA	Lab Extraction ID = 49038-71-11	0.9107	G_WET				T
42828-CONC-5-C	48401-79-03			1.00	NA	Lab Extraction ID = 49038-71-11	0.9107	G_WET				T
42828-CONC-5-C	48401-79-03			1.00	NA	Lab Extraction ID = 49038-71-11	0.9107	G_WET				T
42828-CONC-4-A	48401-78-23	6.16		1.00	NA	Lab Extraction ID = 49038-71-12	0.8114	G_WET	96.46			T
42828-CONC-4-A	48401-78-23	246.49		1.00	NA	Lab Extraction ID = 49038-71-12	0.8114	G_WET	42.75	J		T
42828-CONC-4-A	48401-78-23			1.00	NA	Lab Extraction ID = 49038-71-12	0.8114	G_WET				T
42828-CONC-4-A	48401-78-23			1.00	NA	Lab Extraction ID = 49038-71-12	0.8114	G_WET				T
42828-CONC-4-A	48401-78-23			1.00	NA	Lab Extraction ID = 49038-71-12	0.8114	G_WET				T
42828-CONC-4-B	48401-78-24	4.10		1.00	NA	Lab Extraction ID = 49038-71-13	1.2189	G_WET	66.51	J		T
42828-CONC-4-B	48401-78-24	164.08		1.00	NA	Lab Extraction ID = 49038-71-13	1.2189	G_WET	164.08	UJ		T
42828-CONC-4-B	48401-78-24			1.00	NA	Lab Extraction ID = 49038-71-13	1.2189	G_WET				T
42828-CONC-4-B	48401-78-24			1.00	NA	Lab Extraction ID = 49038-71-13	1.2189	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL
42828-CONC-4-B	48401-78-24	BCO	NORMAL	7/14/2001	10/29/2001	11/7/2001		49038-71	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	14	%RECOVERY	&	
42828-CONC-2-B	48401-79-11	BCO	NORMAL	7/14/2001	10/29/2001	11/7/2001		49038-71	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	599.84	pg/g - Wet Wt		
42828-CONC-2-B	48401-79-11	BCO	NORMAL	7/14/2001	10/29/2001	11/7/2001		49038-71	HCX	38178-99-3	DIOXIN	MOD 1613B	171.21	pg/g - Wet Wt	J	
42828-CONC-2-B	48401-79-11	BCO	NORMAL	7/14/2001	10/29/2001	11/7/2001		49038-71	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	73	%RECOVERY		
42828-CONC-2-B	48401-79-11	BCO	NORMAL	7/14/2001	10/29/2001	11/7/2001		49038-71	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	75	%RECOVERY		
42828-CONC-2-B	48401-79-11	BCO	NORMAL	7/14/2001	10/29/2001	11/7/2001		49038-71	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	61	%RECOVERY		
42828-CONC-2-C	48401-79-12	BCO	NORMAL	7/14/2001	10/29/2001	11/8/2001		49038-71	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	1254.24	pg/g - Wet Wt		
42828-CONC-2-C	48401-79-12	BCO	NORMAL	7/14/2001	10/29/2001	11/8/2001		49038-71	HCX	38178-99-3	DIOXIN	MOD 1613B	365.79	pg/g - Wet Wt	J	
42828-CONC-2-C	48401-79-12	BCO	NORMAL	7/14/2001	10/29/2001	11/8/2001		49038-71	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	69	%RECOVERY		
42828-CONC-2-C	48401-79-12	BCO	NORMAL	7/14/2001	10/29/2001	11/8/2001		49038-71	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	75	%RECOVERY		
42828-CONC-2-C	48401-79-12	BCO	NORMAL	7/14/2001	10/29/2001	11/8/2001		49038-71	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	61	%RECOVERY		
42828-CONC-2-C	48401-79-12	BCO	DUPLICATE	7/14/2001	10/29/2001	11/8/2001		49038-71	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	1273.68	pg/g - Wet Wt		
42828-CONC-2-C	48401-79-12	BCO	DUPLICATE	7/14/2001	10/29/2001	11/8/2001		49038-71	HCX	38178-99-3	DIOXIN	MOD 1613B	293.78	pg/g - Wet Wt	J	
42828-CONC-2-C	48401-79-12	BCO	DUPLICATE	7/14/2001	10/29/2001	11/8/2001		49038-71	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	72	%RECOVERY		
42828-CONC-2-C	48401-79-12	BCO	DUPLICATE	7/14/2001	10/29/2001	11/8/2001		49038-71	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	73	%RECOVERY		
42828-CONC-2-C	48401-79-12	BCO	DUPLICATE	7/14/2001	10/29/2001	11/8/2001		49038-71	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	65	%RECOVERY		
42828-CONC-1-A	48401-79-04	BCO	NORMAL	7/14/2001	10/29/2001	11/8/2001		49038-71	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	346.79	pg/g - Wet Wt		
42828-CONC-1-A	48401-79-04	BCO	NORMAL	7/14/2001	10/29/2001	11/8/2001		49038-71	HCX	38178-99-3	DIOXIN	MOD 1613B	86.13	pg/g - Wet Wt	J	
42828-CONC-1-A	48401-79-04	BCO	NORMAL	7/14/2001	10/29/2001	11/8/2001		49038-71	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	74	%RECOVERY		
42828-CONC-1-A	48401-79-04	BCO	NORMAL	7/14/2001	10/29/2001	11/8/2001		49038-71	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	73	%RECOVERY		
42828-CONC-1-A	48401-79-04	BCO	NORMAL	7/14/2001	10/29/2001	11/8/2001		49038-71	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	67	%RECOVERY		
42828-CONC-1-B	48401-79-05	BCO	NORMAL	7/14/2001	10/29/2001	11/8/2001		49038-71	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	369.72	pg/g - Wet Wt		
42828-CONC-1-B	48401-79-05	BCO	NORMAL	7/14/2001	10/29/2001	11/8/2001		49038-71	HCX	38178-99-3	DIOXIN	MOD 1613B	312.03	pg/g - Wet Wt	J	
42828-CONC-1-B	48401-79-05	BCO	NORMAL	7/14/2001	10/29/2001	11/8/2001		49038-71	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	79	%RECOVERY		
42828-CONC-1-B	48401-79-05	BCO	NORMAL	7/14/2001	10/29/2001	11/8/2001		49038-71	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	82	%RECOVERY		
42828-CONC-1-B	48401-79-05	BCO	NORMAL	7/14/2001	10/29/2001	11/8/2001		49038-71	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	67	%RECOVERY		
42828-CONC-1-C	48401-79-06	BCO	NORMAL	7/14/2001	10/29/2001	11/8/2001		49038-71	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	496.73	pg/g - Wet Wt		
42828-CONC-1-C	48401-79-06	BCO	NORMAL	7/14/2001	10/29/2001	11/8/2001		49038-71	HCX	38178-99-3	DIOXIN	MOD 1613B	249.16	pg/g - Wet Wt	U	
42828-CONC-1-C	48401-79-06	BCO	NORMAL	7/14/2001	10/29/2001	11/8/2001		49038-71	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	74	%RECOVERY		
42828-CONC-1-C	48401-79-06	BCO	NORMAL	7/14/2001	10/29/2001	11/8/2001		49038-71	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	79	%RECOVERY		
42828-CONC-1-C	48401-79-06	BCO	NORMAL	7/14/2001	10/29/2001	11/8/2001		49038-71	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	69	%RECOVERY		
42828-CONC-4-C	48401-78-25	BCO	NORMAL	7/14/2001	10/29/2001	11/8/2001		49038-71	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	87.84	pg/g - Wet Wt		
42828-CONC-4-C	48401-78-25	BCO	NORMAL	7/14/2001	10/29/2001	11/8/2001		49038-71	HCX	38178-99-3	DIOXIN	MOD 1613B	191.22	pg/g - Wet Wt	U	
42828-CONC-4-C	48401-78-25	BCO	NORMAL	7/14/2001	10/29/2001	11/8/2001		49038-71	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	71	%RECOVERY		
42828-CONC-4-C	48401-78-25	BCO	NORMAL	7/14/2001	10/29/2001	11/8/2001		49038-71	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	71	%RECOVERY		
42828-CONC-4-C	48401-78-25	BCO	NORMAL	7/14/2001	10/29/2001	11/8/2001		49038-71	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	67	%RECOVERY		
42828-CONC-2-A	48401-79-10	BCO	NORMAL	7/14/2001	10/29/2001	11/8/2001		49038-71	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	738.13	pg/g - Wet Wt		
42828-CONC-2-A	48401-79-10	BCO	NORMAL	7/14/2001	10/29/2001	11/8/2001		49038-71	HCX	38178-99-3	DIOXIN	MOD 1613B	207.13	pg/g - Wet Wt		
42828-CONC-2-A	48401-79-10	BCO	NORMAL	7/14/2001	10/29/2001	11/8/2001		49038-71	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	75	%RECOVERY		
42828-CONC-2-A	48401-79-10	BCO	NORMAL	7/14/2001	10/29/2001	11/8/2001		49038-71	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	76	%RECOVERY		
42828-CONC-2-A	48401-79-10	BCO	NORMAL	7/14/2001	10/29/2001	11/8/2001		49038-71	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	68	%RECOVERY		
42828-CONC-11-B	48401-79-08	BCO	NORMAL	7/14/2001	10/29/2001	11/8/2001		49038-71	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	809.00	pg/g - Wet Wt		
42828-CONC-11-B	48401-79-08	BCO	NORMAL	7/14/2001	10/29/2001	11/8/2001		49038-71	HCX	38178-99-3	DIOXIN	MOD 1613B	309.15	pg/g - Wet Wt	J	
42828-CONC-11-B	48401-79-08	BCO	NORMAL	7/14/2001	10/29/2001	11/8/2001		49038-71	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	68	%RECOVERY		
42828-CONC-11-B	48401-79-08	BCO	NORMAL	7/14/2001	10/29/2001	11/8/2001		49038-71	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	66	%RECOVERY		
42828-CONC-11-B	48401-79-08	BCO	NORMAL	7/14/2001	10/29/2001	11/8/2001		49038-71	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	52	%RECOVERY		
42828-CONC-1-B	48401-79-05	BCO	MS	7/14/2001	10/29/2001	11/8/2001		49038-71	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	88	%RECOVERY		
42828-CONC-1-B	48401-79-05	BCO	MS	7/14/2001	10/29/2001	11/8/2001		49038-71	HCX	38178-99-3	DIOXIN	MOD 1613B	139	%RECOVERY		
42828-CONC-1-B	48401-79-05	BCO	MS	7/14/2001	10/29/2001	11/8/2001		49038-71	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	74	%RECOVERY		
42828-CONC-1-B	48401-79-05	BCO	MS	7/14/2001	10/29/2001	11/8/2001		49038-71	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	76	%RECOVERY		
42828-CONC-1-B	48401-79-05	BCO	MS	7/14/2001	10/29/2001	11/8/2001		49038-71	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	62	%RECOVERY		
	48514-77-06	BCO	SRM		10/29/2001	11/8/2001		49038-71	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	3.6	%DIFFERENCE		
	48514-77-06	BCO	SRM		10/29/2001	11/8/2001		49038-71	HCX	38178-99-3	DIOXIN	MOD 1613B	NA	%DIFFERENCE		
	48514-77-06	BCO	SRM		10/29/2001	11/8/2001		49038-71	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	75	%RECOVERY		
	48514-77-06	BCO	SRM		10/29/2001	11/8/2001		49038-71	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	82	%RECOVERY		
	48514-77-06	BCO	SRM		10/29/2001	11/8/2001		49038-71	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	65	%RECOVERY		
	48401-44-03	BCO	LCS		10/29/2001	11/6/2001		49038-71	2,3,7,8-TCDD	1746-01-6	DIOXIN	MOD 1613B	93	%RECOVERY		
	48401-44-03	BCO	LCS		10/29/2001	11/6/2001		49038-71	HCX	38178-99-3	DIOXIN	MOD 1613B	127	%RECOVERY		
	48401-44-03	BCO	LCS		10/29/2001	11/6/2001		49038-71	13C-2,3,7,8-TCDD	76523-40-5	DIOXIN	MOD 1613B	77	%RECOVERY		

SAMPLE_NO	LAB_ID	MDL	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
42828-CONC-4-B	48401-78-24			1.00	NA	Lab Extraction ID = 49038-71-13	1.2189	G_WET				T
42828-CONC-2-B	48401-79-11	4.92		1.00	NA	Lab Extraction ID = 49038-71-16	1.0157	G_WET	599.84			T
42828-CONC-2-B	48401-79-11	196.91		1.00	NA	Lab Extraction ID = 49038-71-16	1.0157	G_WET	171.21	J		T
42828-CONC-2-B	48401-79-11			1.00	NA	Lab Extraction ID = 49038-71-16	1.0157	G_WET				T
42828-CONC-2-B	48401-79-11			1.00	NA	Lab Extraction ID = 49038-71-16	1.0157	G_WET				T
42828-CONC-2-B	48401-79-11			1.00	NA	Lab Extraction ID = 49038-71-16	1.0157	G_WET				T
42828-CONC-2-C	48401-79-12	12.67		1.00	NA	Lab Extraction ID = 49038-71-17	0.3946	G_WET	1254.24			T
42828-CONC-2-C	48401-79-12	506.84		1.00	NA	Lab Extraction ID = 49038-71-17	0.3946	G_WET	365.79	J		T
42828-CONC-2-C	48401-79-12			1.00	NA	Lab Extraction ID = 49038-71-17	0.3946	G_WET				T
42828-CONC-2-C	48401-79-12			1.00	NA	Lab Extraction ID = 49038-71-17	0.3946	G_WET				T
42828-CONC-2-C	48401-79-12			1.00	NA	Lab Extraction ID = 49038-71-17	0.3946	G_WET				T
42828-CONC-2-C	48401-79-12	12.52		1.00	NA	Lab Extraction ID = 49038-71-18	0.3993	G_WET				T
42828-CONC-2-C	48401-79-12	500.88		1.00	NA	Lab Extraction ID = 49038-71-18	0.3993	G_WET				T
42828-CONC-2-C	48401-79-12			1.00	NA	Lab Extraction ID = 49038-71-18	0.3993	G_WET				T
42828-CONC-2-C	48401-79-12			1.00	NA	Lab Extraction ID = 49038-71-18	0.3993	G_WET				T
42828-CONC-2-C	48401-79-12			1.00	NA	Lab Extraction ID = 49038-71-18	0.3993	G_WET				T
42828-CONC-1-A	48401-79-04	6.07		1.00	NA	Lab Extraction ID = 49038-71-19	0.8235	G_WET	346.79			T
42828-CONC-1-A	48401-79-04	242.87		1.00	NA	Lab Extraction ID = 49038-71-19	0.8235	G_WET	86.13	J		T
42828-CONC-1-A	48401-79-04			1.00	NA	Lab Extraction ID = 49038-71-19	0.8235	G_WET				T
42828-CONC-1-A	48401-79-04			1.00	NA	Lab Extraction ID = 49038-71-19	0.8235	G_WET				T
42828-CONC-1-A	48401-79-04			1.00	NA	Lab Extraction ID = 49038-71-19	0.8235	G_WET				T
42828-CONC-1-B	48401-79-05	11.68		1.00	NA	Lab Extraction ID = 49038-71-20	0.4282	G_WET	369.72			T
42828-CONC-1-B	48401-79-05	467.07		1.00	NA	Lab Extraction ID = 49038-71-20	0.4282	G_WET	312.03	J		T
42828-CONC-1-B	48401-79-05			1.00	NA	Lab Extraction ID = 49038-71-20	0.4282	G_WET				T
42828-CONC-1-B	48401-79-05			1.00	NA	Lab Extraction ID = 49038-71-20	0.4282	G_WET				T
42828-CONC-1-B	48401-79-05			1.00	NA	Lab Extraction ID = 49038-71-20	0.4282	G_WET				T
42828-CONC-1-C	48401-79-06	6.23		1.00	NA	Lab Extraction ID = 49038-71-22	0.8027	G_WET	496.73			T
42828-CONC-1-C	48401-79-06	249.16		1.00	NA	Lab Extraction ID = 49038-71-22	0.8027	G_WET	256.63	J		T
42828-CONC-1-C	48401-79-06			1.00	NA	Lab Extraction ID = 49038-71-22	0.8027	G_WET				T
42828-CONC-1-C	48401-79-06			1.00	NA	Lab Extraction ID = 49038-71-22	0.8027	G_WET				T
42828-CONC-1-C	48401-79-06			1.00	NA	Lab Extraction ID = 49038-71-22	0.8027	G_WET				T
42828-CONC-4-C	48401-78-25	4.78		1.00	NA	Lab Extraction ID = 49038-71-14	1.0459	G_WET	87.84			T
42828-CONC-4-C	48401-78-25	191.22		1.00	NA	Lab Extraction ID = 49038-71-14	1.0459	G_WET	191.22	UJ		T
42828-CONC-4-C	48401-78-25			1.00	NA	Lab Extraction ID = 49038-71-14	1.0459	G_WET				T
42828-CONC-4-C	48401-78-25			1.00	NA	Lab Extraction ID = 49038-71-14	1.0459	G_WET				T
42828-CONC-4-C	48401-78-25			1.00	NA	Lab Extraction ID = 49038-71-14	1.0459	G_WET				T
42828-CONC-2-A	48401-79-10	4.82		1.00	NA	Lab Extraction ID = 49038-71-15	1.0374	G_WET	738.14			T
42828-CONC-2-A	48401-79-10	192.79		1.00	NA	Lab Extraction ID = 49038-71-15	1.0374	G_WET	207.13	J		T
42828-CONC-2-A	48401-79-10			1.00	NA	Lab Extraction ID = 49038-71-15	1.0374	G_WET				T
42828-CONC-2-A	48401-79-10			1.00	NA	Lab Extraction ID = 49038-71-15	1.0374	G_WET				T
42828-CONC-2-A	48401-79-10			1.00	NA	Lab Extraction ID = 49038-71-15	1.0374	G_WET				T
42828-CONC-11-B	48401-79-08	25.60		4.00	NA	Lab Extraction ID = 49038-71-04	0.7807	G_WET	809			T
42828-CONC-11-B	48401-79-08	1024.72		4.00	NA	Lab Extraction ID = 49038-71-04	0.7807	G_WET	309.15	J		T
42828-CONC-11-B	48401-79-08			4.00	NA	Lab Extraction ID = 49038-71-04	0.7807	G_WET				T
42828-CONC-11-B	48401-79-08			4.00	NA	Lab Extraction ID = 49038-71-04	0.7807	G_WET				T
42828-CONC-11-B	48401-79-08			4.00	NA	Lab Extraction ID = 49038-71-04	0.7807	G_WET				T
42828-CONC-1-B	48401-79-05			1.00	NA	Lab Extraction ID = 49038-71-21	0.3673	G_WET				T
42828-CONC-1-B	48401-79-05			1.00	NA	Lab Extraction ID = 49038-71-21	0.3673	G_WET				T
42828-CONC-1-B	48401-79-05			1.00	NA	Lab Extraction ID = 49038-71-21	0.3673	G_WET				T
42828-CONC-1-B	48401-79-05			1.00	NA	Lab Extraction ID = 49038-71-21	0.3673	G_WET				T
42828-CONC-1-B	48401-79-05			1.00	NA	Lab Extraction ID = 49038-71-21	0.3673	G_WET				T
	48514-77-06	4.92		1.00	NA	Lab Extraction ID = 49038-71-23	1.0165	G_WET				T
	48514-77-06	196.75		1.00	NA	Lab Extraction ID = 49038-71-23	1.0165	G_WET				T
	48514-77-06			1.00	NA	Lab Extraction ID = 49038-71-23	1.0165	G_WET				T
	48514-77-06			1.00	NA	Lab Extraction ID = 49038-71-23	1.0165	G_WET				T
	48514-77-06			1.00	NA	Lab Extraction ID = 49038-71-23	1.0165	G_WET				T
	48401-44-03			1.00	NA	Lab Extraction ID = 49038-71-24	0.5146	G_WET				T
	48401-44-03			1.00	NA	Lab Extraction ID = 49038-71-24	0.5146	G_WET				T
	48401-44-03			1.00	NA	Lab Extraction ID = 49038-71-24	0.5146	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL
	48401-44-03	BCO	LCS		10/29/2001	11/6/2001		49038-71	13C-1,2,3,7,8,9-HxCDF	116843-04-0	DIOXIN	MOD 1613B	81	%RECOVERY		
	48401-44-03	BCO	LCS		10/29/2001	11/6/2001		49038-71	37Cl-2,3,7,8-TCDD	85508-50-5	DIOXIN	MOD 1613B	34	%RECOVERY		

SAMPLE_NO	LAB_ID	MDL	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
	48401-44-03			1.00	NA	Lab Extraction ID = 49038-71-24	0.5146	G_WET				T
	48401-44-03			1.00	NA	Lab Extraction ID = 49038-71-24	0.5146	G_WET				T

Section 2
12 WHO PCB Congener Results

QA/QC Narratives
ELS Tissue and QC Results

QA/QC Narratives

12 WHO PCB QA/QC SUMMARY
QC Batch 49038-60 – ELS Egg

PROJECT: USACE NAE Delivery Order #01 Centredale

PARAMETER: 12 WHO PCB congeners by High Resolution Mass Spectrometry (HRMS)

LABORATORY: Battelle, Columbus, OH

MATRIX: ELS Egg Tissue

SAMPLE CUSTODY: ELS egg samples were received at Battelle Columbus on July 17, 2001 for 2,3,7,8-TCDD/HCX and 12 WHO PCB congener analyses.

Samples were received in good condition and the cooler temperature upon receipt was 2.0 °C.

QA/QC MEASUREMENT PERFORMANCE CRITERIA:

	Reference Method	Blank	Surrogate Recovery	LCS/MS Recovery	SRM % Diff.	Replicate Relative Precision	Achieved RL (pg/g wet)	Project Goals * (pg/g wet)
12 WHO PCB	L-23 Battelle SOP ASAT.II-001-02	<5× MDL, or associated samples >10× blank values	25-150% Recovery	*LCS:* 50-150%[a] *MS:* 50-150% Recovery for at least 90% of congeners [b]	≤30% PD[c]	≤30% RPD for at least 90% of analytes [b, d]	MDL listed for each sample is EML from 1688A table 2 adjusted for the amount of sample extracted	Selected congeners range from 0.007-61.6, most do not have an available goal

[a] Method 1668A, Table 6 OPR requirements for native PCBs.
[b] Analyte concentration in MS/MSD must be >5× background to be used for data quality assessment.
[c] Certified values must be >3× the EML.
[d] *Sample replicate precision:* concentrations in sample replicate must be >3× the EML.
* = Range of HH and ECO goal from Table #9b of QAPP (pp 85-86 of 509)

METHOD: ELS egg tissue samples were processed and analyzed for the 12 WHO PCB congeners following methods described in Battelle's Quality Assurance Project Plan (Battelle 2001). Briefly,

Sample Preparation – The samples were processed in batch 49038-60. Aliquots of each homogenized tissue were weighed into individual jars and mixed with Hydromatrix drying agent. Approximately 1-2 g wet weight of each tissue sample was used. Twenty tissues plus five QC samples were prepared for 2,3,7,8-TCDD, HCX, and the 12 WHO PCB congeners. The tissue/Hydromatrix mixtures were placed into Accelerated Solvent Extraction (ASE) cells and spiked with $^{13}C_{12}$-labeled PCDD/PCDF and PCB internal standard solutions. Matrix spike and the laboratory control spike (LCS) samples were spiked with native PCDD/PCDF, HCX and PCB at this time. Note that the samples were spiked with both internal and matrix spike standards at twice the usual level to accommodate the sample being split in half for separate PCB and 2,3,7,8-TCDD/HCX cleanup. The samples were ASE extracted using $MeCl_2$: hexane (1:1). Each extract was then spiked $^{13}C_{12}$-labeled PCB cleanup standards for monitoring recovery of analytes through the cleanup procedures. Each field sample was

METHOD (cont):

rotovapped and brought up in 1 mL hexane. The samples were transferred to pre-weighed concentrator tubes and blown down under nitrogen until all solvent was removed to determine the percent lipid content. The samples were brought back up to 3 mL with hexane and transferred back to their original round bottoms. Each extract was acid washed. After the acid wash step, the samples were split in half. Half of each extract was submitted for PCB cleanup which included acid/base silica, alumina, followed by additional acid/base silica cleanup columns. The tissue extracts were spiked with $^{13}C_{12}$-labeled PCB recovery standards and concentrated to a final sample volume of 50 µL.

PCB Analysis – Each extract was analyzed by gas chromatography/high resolution mass spectrometry (GC/HRMS) in the selected ion-monitoring mode at a resolution of 10,000 or greater. An SPB-Octyl column was used for analysis of the PCB congeners.

The continuing calibration met Method criteria at all times.

The following revisions to Method 1668A as well as several items to note specifically related to these analyses are summarized below:

1. Quality control samples processed with this batch of samples included one method blank, one LCS, one fish standard reference material, one matrix spike, and one sample prepared in duplicate.

2. The GC/HRMS instrumentation was calibrated for PCBs using a 6-point calibration of a subset of PCB congers, which include all 12 of the WHO congeners, to assess linearity of the calibration range and generate a response factor. The calibration range corresponds to the following levels in the samples assuming an average sample wet weight of 1.0 g (taking into account the sample split) of tissue and a final sample volume of 50 µL: 10.0 to 100,000 pg/g wet.

Any additional minor revisions to Method 1668A are fully documented in the analytical record.

HOLDING TIMES:

Samples were prepared for analysis in one analytical batch. Samples were extracted within 4 months of collection and analyzed within 2 months of extraction.

Batch	Extraction Date	Analysis Date
49038-60	10/17/2001	12/05-07/2001

DETECTION LIMITS:

PCB results are reported relative to the sample-specific reporting limits (also referred to as QL in the QAPP) for that compound. The sample-specific RL is based on the EML and adjusted for sample specific processing factors and volumes, as follow:

RL = (EML)/ Sample size

Where,
EML = (pg/g EML value from Method 1668A, Table 2) × 10
to adjust for an assumed sample volume of 10 g in the table
Sample Size = approximately 1.0-g wet

Limited project detection limit goals were available for the PCB congeners. For congeners which had a detection limit goal, achieved RLs did not meet the goals in many instances. As noted in the QAPP, the project detection limit goals are provided for perspective rather than as a requirement for the analytical methods. If detection limits cannot be achieved, this will be addressed in the uncertainty discussions in the risk assessment.

12 WHO PCB QA/QC SUMMARY
QC Batch 49038-60 – ELS Egg

BLANKS:

One laboratory method blank was processed with the analytical batch. Blanks are analyzed to ensure that the sample extraction and analysis methods were free of contamination.

49038-60– All of the 12 WHO congeners were detected at a trace level as is common in low-level HRMS PCB analysis due to prevalence of PCBs in the environment contributing to the background; however the levels were below the reporting level for all.

LABORATORY CONTROL SAMPLE

A laboratory control sample (LCS) was prepared with the analytical batch. The percent recoveries of target compounds were calculated to measure data quality in terms of accuracy.

49038-60 – The recovery of PCBs in the LCS sample were within the 50-150% critera found in Table 6 of Method 1668A.

MATRIX SPIKES:

One matrix spike (MS) sample set was prepared with the batch to measure data quality in terms of accuracy and precision. The MS was fortified with target compounds to monitor data quality in terms of accuracy and precision.

49038-60 – Matrix spike recoveries for PCBs spiked >5× background concentration were within the 50-150% limits all of the analytes.

INTERNAL STANDARDS:

Twenty-seven internal standards were added to each sample prior to processing, three standards were added after extraction and prior to sample cleanup. Note that only the internal standards that correlate to the 12 WHO congeners are reported. Internal standard recoveries were calculated to measure data quality in terms of accuracy (sample processing efficiency).

49038-60 – Recoveries of internal standards were within 25-150% for all samples.

REPLICATES:

A laboratory duplicate was prepared with the batch. The RPD between laboratory replicate analyses for target compounds was calculated to measure data quality in terms of precision.

49038-60– All of the PCB congeners detected above the action level of >3× EML were within the <30% RPD goal.

SRM:

A standard reference material (CIL EDF 2526) was prepared with the analytical batch. The percent difference (PD) between detected concentrations and certified values was calculated to measure data quality in terms of accuracy.

49038-60– Most of the analytes in the SRM were found to be within the limit of 30% difference from consensus values. PCB 126 was slightly above the limit (30.2%) and PCB 118 was found to have a percent difference of 54.3%. The high recovery of PCB 118 may be due to the background level of this congener.

REFERENCES:

Battelle 2001. *Centredale Manor Restoration Project Superfund Site Baseline Risk Assessment, Initial Project Planning and Support.* Tasks 19-22 QAPP prepared under contract to USACE NAE. Delivery Order #59. May 23, 2001. 509pp + apps.

QUALITY ASSURANCE STATEMENT

Project Title: **USACE/NED, Centredale Manor Task 22 ELS Egg Tissue Samples, Batch 1 of 2**

Project Number: **G487002-22F2**

Description of Data: **Egg tissue samples for PCBs**

Description of audit and review activities:
1)Reviewed sample preparation Laboratory Record Books (LRB). Tracked COC from sample receipt to analytical injection. Reviewed standard/spike preparation records. Resolved all resulting LRB numbers (i.e. sample tracking numbers) with analytical designations. Reviewed data package for data recording consistent with Good Laboratory Practices (GLP's).

2)Reviewed analytical (HRMS) data. Reviewed all hand-entered parameters (e.g. sample masses, sample names, calibration curve date, etc) for each analytical run. Reviewed calibrations results to ensure that Relative Response Factors (RRF) were ±20% of calibration RRF. Reviewed 10% data transfer to spreadsheets. Reviewed confirmation runs and accurate data transfer.

3)Reviewed spreadsheets. Accessed e-file of excel spreadsheets and reviewed formula and relative and absolute cell addresses to ensure accurate data transposition.

4)Reviewed report. Ensured report accurately reflected raw data and resulting spreadsheets. OK MW

Description of outstanding issues or deficiencies which may affect data quality:
1) Minor QC issues were submitted to the analytical staff for correction, no outstanding issues present.

Zachary Willenberg
Quality Assurance Specialist
Atmospheric Science and Applied Technology
Battelle

1-02-02
Date

12 WHO PCB QA/QC SUMMARY
QC Batch 49038-71 – ELS Egg

PROJECT: USACE NAE Delivery Order #01 Centredale

PARAMETER: 12 WHO PCB congeners by High Resolution Mass Spectrometry (HRMS)

LABORATORY: Battelle, Columbus, OH

MATRIX: ELS Egg Tissue

SAMPLE CUSTODY: ELS egg samples were received at Battelle Columbus on July 17, 2001 for 2,3,7,8-TCDD/HCX and PCB congener analyses.

Samples were received in good condition and the cooler temperature upon receipt was 2.0 °C.

QA/QC MEASUREMENT PERFORMANCE CRITERIA:

	Reference Method	Blank	Surrogate Recovery	LCS/MS Recovery	SRM % Diff.	Replicate Relative Precision	Achieved RL (pg/g wet)	Project Goals * (pg/g wet)
12 WHO PCB	L-23 Battelle SOP ASAT.II-001-02	<5× MDL, or associated samples > 10× blank values	25-150% Recovery	*LCS*: 50-150%[a] *MS:* 50-150% Recovery for at least 90% of congeners [b]	≤30% PD[c]	≤30% RPD for at least 90% of analytes [b, d]	MDL listed for each sample is EML from 1688A table 2 adjusted for the amount of sample extracted	Selected congeners range from 0.007-61.6, most do not have an available goal

[a] Method 1668A, Table 6 OPR requirements for native PCBs.
[b] Analyte concentration in MS/MSD must be >5× background to be used for data quality assessment.
[c] Certified values must be >3× the EML.
[d] *Sample replicate precision:* concentrations in sample replicate must be >3× the EML.
* = Range of HH and ECO goal from Table #9b of QAPP (pp 85-86 of 509)

METHOD: ELS egg tissue samples were processed and analyzed for the 12 WHO PCB congeners following methods described in Battelle's Quality Assurance Project Plan (Battelle 2001). Briefly,

Sample Preparation – The samples were processed in batch 49038-71. Aliquots of each homogenized tissue were weighed into individual jars and mixed with Hydromatrix drying agent. Approximately 1-2 g wet weight of each tissue sample was used. Nineteen tissues plus five QC samples were prepared for analysis of 2,3,7,8-TCDD, HCX, and the 12 WHO PCB congeners. The tissue/Hydromatrix mixtures were placed into Accelerated Solvent Extraction (ASE) cells and spiked with $^{13}C_{12}$-labeled PCDD/PCDF and PCB internal standard solutions. Matrix spike and the laboratory control spike (LCS) samples were spiked with native PCDD/PCDF, HCX and PCB at this time. Note that the samples were spiked with both internal and matrix spike standards at twice the usual level to accommodate the sample being split in half for separate PCB and 2,3,7,8-TCDD/HCX cleanup. The samples were ASE extracted using $MeCl_2$: hexane (1:1). Each extract was then spiked with $^{13}C_{12}$-labeled PCB cleanup standards for monitoring recovery of analytes through the cleanup procedures. Each

METHOD (cont):

field sample was rotovapped and brought up in 1 mL hexane. The samples were transferred to pre-weighed concentrator tubes and blown down under nitrogen until all solvent was removed to determine the percent lipid content.

During the percent lipid determination step the sample extracts were left exposed in the laboratory longer than intended due to an unplanned emergency evacuation. The samples were brought back up to 3 mL with hexane and transferred back to their original round bottoms. Each extract was acid washed. After the acid wash step, the samples were split in half. Half of each extract was submitted for PCB cleanup which included acid/base silica, alumina, followed by additional acid/base silica cleanup columns.

During the alumina column cleanup step, columns for the MS, 42828-CONC-1-C, SRM, LCS, and the Blank (samples 49038-71-21 to 49038-71-25) were inadvertently rinsed with the wrong solvent initially. This column rinse was placed in a round bottom. The alumina column was then re-eluted with methlyene chlroride, which was collected in a separate round bottom. The fisrt round bottom was concentrated to approximately 1 mL, combined with the methylene chloride round bottom which was then concentrated to approximately 1 mL.

In addition, approximately 40% of the matrix spike (49038-71-21) was lost during a concentration step. The tissue extracts were spiked with $^{13}C_{12}$-labeled PCB recovery standards and concentrated to a final sample volume of 50 µL.

Of the 12 WHO PCB analyzed for in these samples, PCBs 77 and 126 are the only two that were included in the spike for early life-stage test.

PCB Analysis – Each extract was analyzed by gas chromatography/high resolution mass spectrometry (GC/HRMS) in the selected ion-monitoring mode at a resolution of 10,000 or greater. An SPB-Octyl column was used for analysis of the PCB congeners.

The continuing calibration met Method criteria at all times.

The following revisions to Method 1668A as well as several items to note specifically related to these analyses are summarized below:

1. Quality control samples processed with this batch of samples included one method blank, one LCS, one fish standard reference material, one matrix spike, and one sample prepared in duplicate.

2. The GC/HRMS instrumentation was calibrated for PCBs using a 6-point calibration of a subset of PCB congers, which include all 12 of the WHO congeners, to assess linearity of the calibration range and generate a response factor. The calibration range corresponds to the following levels in the samples assuming an average sample wet weight of 1.0 g (taking into account the sample split) of tissue and a final sample volume of 50 µL: 10.0 to 100,000 pg/g wet.

Any additional minor revisions to Method 1668A are fully documented in the analytical record.

HOLDING TIMES:

Samples were prepared for analysis in one analytical batch. Samples were extracted within 4 months of collection and analyzed within 2 months of extraction.

Batch	Extraction Date	Analysis Date
49038-71	10/29/2001	12/12-14/2001

DETECTION LIMITS:

PCB results are reported relative to the sample-specific reporting limits (also referred to as QL in the QAPP) for that compound. The sample-specific RL is based on the EML and adjusted for sample specific processing factors and volumes, as follows:

RL = (EML)/ Sample size

Where,
EML = (pg/g EML value from Method 1668A, Table 2) × 10
to adjust for an assumed sample volume of 10 g in the table
Sample Size = approximately 1.0-g wet

Limited project detection limit goals were available for the PCB congeners. For congeners which had a detection limit goal, achieved RLs did not meet the goals in many instances. As noted in the QAPP, the project detection limit goals are provided for perspective rather than as a requirement for the analytical methods. If detection limits cannot be achieved, this will be addressed in the uncertainty discussions in the risk assessment.

BLANKS:

One laboratory method blank was processed with the analytical batch. Blanks are analyzed to ensure that the sample extraction and analysis methods were free of contamination.

49038-71– All of the 12 WHO congeners were detected at a trace level as is common in low-level HRMS PCB analysis due to the prevalence of PCBs in the environment contributing to the background; however the levels were below the reporting level for all except PCB118 and PCB105. PCBs 118 and 105 were less than the action level (< 5×MDL).

Note that PCB-77 was detected at a level <RL in the blank; PCB-126 was undetected in the blank.

LABORATORY CONTROL SAMPLE

A laboratory control sample (LCS) was prepared with the analytical batch. The percent recoveries of target compounds were calculated to measure data quality in terms of accuracy.

49038-71– The recovery of PCBs in the LCS sample were within the 50-150% for natives and 30-140% for labeled PCBs criteria found in Table 6 of Method 1668A, except for PCB-77, PCB-118, PCB-105, ^{13}C-PCB-167, ^{13}C-PCB-111, and ^{13}C-PCB-178.

The out-of-limit results may be due to either 1) the extended exposure to air while in the preparation laboratory due to a laboratory evacuation during the percent lipid determination or 2) from the wrong solvent inadvertently initially being used during the alumina column cleanup step.

Note that the recovery for PCB-77 and PCB-126 was 158% and 102%, respectively.

12 WHO PCB QA/QC SUMMARY
QC Batch 49038-71 – ELS Egg

MATRIX SPIKES:

One matrix spike (MS) sample set was prepared with the batch to measure data quality in terms of accuracy and precision. The MS was fortified with target compounds to monitor data quality in terms of accuracy and precision.

49038-71– Recoveries for PCBs spiked >5× background concentration were within the 50-150% limits for 44% of the analytes. The remaining 56% of the analytes had recoveries above the 50-150% limit.

The out-of-limit results may be due to 1) the loss of approximately 40% of the MS during one of the concentration steps, 2) the extended exposure to air while in the preparation laboratory due to a laboratory evacuation during the percent lipid determination, or 3) from the wrong solvent inadvertently initially being used during the alumina column cleanup step.

Note that the recovery for PCB-77 and PCB-126 was 110% and 119%, respectively.

INTERNAL STANDARDS:

Twenty-seven internal standards were added to each sample prior to processing, three standards were added after extraction and prior to sample cleanup. Note that only the internal standards that correlate to the 12 WHO congeners are reported. Internal standard recoveries were calculated to measure data quality in terms of accuracy (sample processing efficiency).

49038-71– Recoveries of internal standards were within 25-150% for most of the analytes in most of the samples. Seven samples had some internal standard recoveries that were below the 25-150% limits, most notably the matrix spike (49038-71-21), which lost approximately 40% of the sample during a concentration step.

REPLICATES:

A laboratory duplicate was prepared with the batch. The RPD between laboratory replicate analyses for target compounds was calculated to measure data quality in terms of precision.

49038-71– None of the PCB congeners were detected above the action level of >3× EML.

SRM:

A standard reference material (CIL EDF 2526) was prepared with the analytical batch. The percent difference (PD) between detected concentrations and certified values was calculated to measure data quality in terms of accuracy.

49038-71– PCB-126 in the SRM was found to be within the limit of 30% difference from consensus value. PCBs 77, 118 and 105 were found to have percent differences greater than the 30% limit.

The high recoveries of PCBs 118 and 105 may be due to the background levels of these congeners. Other QC exceedences may be due to either 1) the extended exposure to air while in the preparation laboratory due to a laboratory evacuation during the percent lipid determination or 2) from the wrong solvent inadvertently initially being used during the alumina column cleanup step.

Note that the percent difference for PCB-77 and PCB-126 was 41.2% and 7.9%, respectively.

REFERENCES:

Battelle 2001. *Centredale Manor Restoration Project Superfund Site Baseline Risk Assessment, Initial Project Planning and Support.* Tasks 19-22 QAPP prepared under contract to USACE NAE. Delivery Order #59. May 23, 2001. 509pp + apps.

QUALITY ASSURANCE STATEMENT

Project Title: **USACE/NED, Centredale Manor Task 22 ELS Egg Tissue Samples, Batch 2 of 2**

Project Number: **G487002-22F2**

Description of Data: **Egg tissue samples for PCBs**

Description of audit and review activities:
1)Reviewed sample preparation Laboratory Record Books (LRB). Tracked COC from sample receipt to analytical injection. Reviewed standard/spike preparation records. Resolved all resulting LRB numbers (i.e. sample tracking numbers) with analytical designations. Reviewed data package for data recording consistent with Good Laboratory Practices (GLP's).

2)Reviewed analytical (HRMS) data. Reviewed all hand-entered parameters (e.g. sample masses, sample names, calibration curve date, etc) for each analytical run. Reviewed calibrations results to ensure that Relative Response Factors (RRF) were ±20% of calibration RRF. Reviewed 10% data transfer to spreadsheets. Reviewed confirmation runs and accurate data transfer.

3)Reviewed spreadsheets. Accessed e-file of excel spreadsheets and reviewed formula and relative and absolute cell addresses to ensure accurate data transposition.

4)Reviewed report. Ensured report accurately reflected raw data and resulting spreadsheets.

Description of outstanding issues or deficiencies which may affect data quality:
1) Minor QC issues were submitted to the analytical staff for correction, no outstanding issues present.

Zachary Willenberg
Quality Assurance Specialist
Atmospheric Science and Applied Technology
Battelle

1-03-02
Date

ELS Tissue and QC Results

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
	48401-44-03	BCO	M_BLANK		10/17/2001	12/5/2001		49038-60	PCB-81	70362-50-4	PCB	MOD 1668A	8.99	pg/g - Wet Wt	J		500.00
	48401-44-03	BCO	M_BLANK		10/17/2001	12/5/2001		49038-60	PCB-77	32598-13-3	PCB	MOD 1668A	18.87	pg/g - Wet Wt	J		500.00
	48401-44-03	BCO	M_BLANK		10/17/2001	12/5/2001		49038-60	PCB-106	70424-69-0	PCB	MOD 1668A	9.89	pg/g - Wet Wt	JC		1000.00
	48401-44-03	BCO	M_BLANK		10/17/2001	12/5/2001		49038-60	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		1000.00
	48401-44-03	BCO	M_BLANK		10/17/2001	12/5/2001		49038-60	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		500.00
	48401-44-03	BCO	M_BLANK		10/17/2001	12/5/2001		49038-60	PCB-118	31508-00-6	PCB	MOD 1668A	360.24	pg/g - Wet Wt	J		500.00
	48401-44-03	BCO	M_BLANK		10/17/2001	12/5/2001		49038-60	PCB-114	74472-37-0	PCB	MOD 1668A	10.60	pg/g - Wet Wt	J		500.00
	48401-44-03	BCO	M_BLANK		10/17/2001	12/5/2001		49038-60	PCB-105	32598-14-4	PCB	MOD 1668A	157.90	pg/g - Wet Wt	J		200.00
	48401-44-03	BCO	M_BLANK		10/17/2001	12/5/2001		49038-60	PCB-126	57465-28-8	PCB	MOD 1668A	8.66	pg/g - Wet Wt	J		1000.00
	48401-44-03	BCO	M_BLANK		10/17/2001	12/5/2001		49038-60	PCB-167	52663-72-6	PCB	MOD 1668A	16.15	pg/g - Wet Wt	J		500.00
	48401-44-03	BCO	M_BLANK		10/17/2001	12/5/2001		49038-60	PCB-156	38380-08-4	PCB	MOD 1668A	40.30	pg/g - Wet Wt	JC		500.00
	48401-44-03	BCO	M_BLANK		10/17/2001	12/5/2001		49038-60	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	C156		500.00
	48401-44-03	BCO	M_BLANK		10/17/2001	12/5/2001		49038-60	PCB-169	32774-16-6	PCB	MOD 1668A	6.54	pg/g - Wet Wt	J		500.00
	48401-44-03	BCO	M_BLANK		10/17/2001	12/5/2001		49038-60	PCB-189	39635-31-9	PCB	MOD 1668A	4.04	pg/g - Wet Wt	J		500.00
	48401-44-03	BCO	M_BLANK		10/17/2001	12/5/2001		49038-60	13C-PCB-81	70362-50-4	PCB	MOD 1668A	62	%RECOVERY			
	48401-44-03	BCO	M_BLANK		10/17/2001	12/5/2001		49038-60	13C-PCB-77	32598-13-3	PCB	MOD 1668A	61	%RECOVERY			
	48401-44-03	BCO	M_BLANK		10/17/2001	12/5/2001		49038-60	13C-PCB-123	65510-44-3	PCB	MOD 1668A	61	%RECOVERY			
	48401-44-03	BCO	M_BLANK		10/17/2001	12/5/2001		49038-60	13C-PCB-118	31508-00-6	PCB	MOD 1668A	61	%RECOVERY			
	48401-44-03	BCO	M_BLANK		10/17/2001	12/5/2001		49038-60	13C-PCB-114	74472-37-0	PCB	MOD 1668A	56	%RECOVERY			
	48401-44-03	BCO	M_BLANK		10/17/2001	12/5/2001		49038-60	13C-PCB-105	32598-14-4	PCB	MOD 1668A	65	%RECOVERY			
	48401-44-03	BCO	M_BLANK		10/17/2001	12/5/2001		49038-60	13C-PCB-126	57465-28-8	PCB	MOD 1668A	64	%RECOVERY			
	48401-44-03	BCO	M_BLANK		10/17/2001	12/5/2001		49038-60	13C-PCB-167	52663-72-6	PCB	MOD 1668A	60	%RECOVERY			
	48401-44-03	BCO	M_BLANK		10/17/2001	12/5/2001		49038-60	13C-PCB-156	38380-08-4	PCB	MOD 1668A	64	%RECOVERY			
	48401-44-03	BCO	M_BLANK		10/17/2001	12/5/2001		49038-60	13C-PCB-157	69782-90-7	PCB	MOD 1668A	64	%RECOVERY			
	48401-44-03	BCO	M_BLANK		10/17/2001	12/5/2001		49038-60	13C-PCB-169	32774-16-6	PCB	MOD 1668A	69	%RECOVERY			
	48401-44-03	BCO	M_BLANK		10/17/2001	12/5/2001		49038-60	13C-PCB-189	39635-31-9	PCB	MOD 1668A	63	%RECOVERY			
	48401-44-03	BCO	M_BLANK		10/17/2001	12/5/2001		49038-60	13C-PCB-28	7012-37-5	PCB	MOD 1668A	85	%RECOVERY			
	48401-44-03	BCO	M_BLANK		10/17/2001	12/5/2001		49038-60	13C-PCB-111	39635-32-0	PCB	MOD 1668A	47	%RECOVERY			
	48401-44-03	BCO	M_BLANK		10/17/2001	12/5/2001		49038-60	13C-PCB-178	52663-67-9	PCB	MOD 1668A	59	%RECOVERY			
42828-CONC-7A	48401-78-05	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-81	70362-50-4	PCB	MOD 1668A	7.11	pg/g - Wet Wt	J		565.42
42828-CONC-7A	48401-78-05	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-77	32598-13-3	PCB	MOD 1668A	240.83	pg/g - Wet Wt	J		565.42
42828-CONC-7A	48401-78-05	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-106	70424-69-0	PCB	MOD 1668A	10.55	pg/g - Wet Wt	JC		1130.84
42828-CONC-7A	48401-78-05	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		1130.84
42828-CONC-7A	48401-78-05	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		565.42
42828-CONC-7A	48401-78-05	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-118	31508-00-6	PCB	MOD 1668A	493.12	pg/g - Wet Wt	J		565.42
42828-CONC-7A	48401-78-05	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-114	74472-37-0	PCB	MOD 1668A	13.21	pg/g - Wet Wt	J		565.42
42828-CONC-7A	48401-78-05	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-105	32598-14-4	PCB	MOD 1668A	172.15	pg/g - Wet Wt	J		226.17
42828-CONC-7A	48401-78-05	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-126	57465-28-8	PCB	MOD 1668A	253.30	pg/g - Wet Wt	J		1130.84
42828-CONC-7A	48401-78-05	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-167	52663-72-6	PCB	MOD 1668A	33.37	pg/g - Wet Wt	J		565.42
42828-CONC-7A	48401-78-05	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-156	38380-08-4	PCB	MOD 1668A	41.60	pg/g - Wet Wt	JC		565.42
42828-CONC-7A	48401-78-05	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	C156		565.42
42828-CONC-7A	48401-78-05	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-169	32774-16-6	PCB	MOD 1668A	3.39	pg/g - Wet Wt	J		565.42
42828-CONC-7A	48401-78-05	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-189	39635-31-9	PCB	MOD 1668A	565.42	pg/g - Wet Wt	U		565.42
42828-CONC-7A	48401-78-05	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-81	70362-50-4	PCB	MOD 1668A	68	%RECOVERY			
42828-CONC-7A	48401-78-05	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-77	32598-13-3	PCB	MOD 1668A	67	%RECOVERY			
42828-CONC-7A	48401-78-05	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-123	65510-44-3	PCB	MOD 1668A	59	%RECOVERY			
42828-CONC-7A	48401-78-05	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-118	31508-00-6	PCB	MOD 1668A	57	%RECOVERY			
42828-CONC-7A	48401-78-05	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-114	74472-37-0	PCB	MOD 1668A	52	%RECOVERY			
42828-CONC-7A	48401-78-05	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-105	32598-14-4	PCB	MOD 1668A	59	%RECOVERY			
42828-CONC-7A	48401-78-05	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-126	57465-28-8	PCB	MOD 1668A	62	%RECOVERY			
42828-CONC-7A	48401-78-05	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-167	52663-72-6	PCB	MOD 1668A	58	%RECOVERY			
42828-CONC-7A	48401-78-05	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-156	38380-08-4	PCB	MOD 1668A	54	%RECOVERY			
42828-CONC-7A	48401-78-05	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-157	69782-90-7	PCB	MOD 1668A	54	%RECOVERY			
42828-CONC-7A	48401-78-05	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-169	32774-16-6	PCB	MOD 1668A	69	%RECOVERY			
42828-CONC-7A	48401-78-05	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-189	39635-31-9	PCB	MOD 1668A	91	%RECOVERY			

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
	48401-44-03		1.00		Lab Extraction ID =49038-60-26	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-26	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-26	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-26	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-26	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-26	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-26	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-26	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-26	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-26	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-26	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-26	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-26	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-26	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-26	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-26	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-26	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-26	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-26	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-26	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-26	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-26	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-26	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-26	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-26	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-26	1.00	G_WET				T
42828-CONC-7A	48401-78-05		1.00		Lab Extraction ID =49038-60-02	0.8843	G_WET	7.11	U		T
42828-CONC-7A	48401-78-05		1.00		Lab Extraction ID =49038-60-02	0.8843	G_WET	240.83	J		T
42828-CONC-7A	48401-78-05		1.00		Lab Extraction ID =49038-60-02	0.8843	G_WET	10.55	U		T
42828-CONC-7A	48401-78-05		1.00		Lab Extraction ID =49038-60-02	0.8843	G_WET				T
42828-CONC-7A	48401-78-05		1.00		Lab Extraction ID =49038-60-02	0.8843	G_WET				T
42828-CONC-7A	48401-78-05		1.00		Lab Extraction ID =49038-60-02	0.8843	G_WET	493.12	UJ		T
42828-CONC-7A	48401-78-05		1.00		Lab Extraction ID =49038-60-02	0.8843	G_WET	13.21	U		T
42828-CONC-7A	48401-78-05		1.00		Lab Extraction ID =49038-60-02	0.8843	G_WET	172.15	U		T
42828-CONC-7A	48401-78-05		1.00		Lab Extraction ID =49038-60-02	0.8843	G_WET	253.3	J		T
42828-CONC-7A	48401-78-05		1.00		Lab Extraction ID =49038-60-02	0.8843	G_WET	33.37	U		T
42828-CONC-7A	48401-78-05		1.00		Lab Extraction ID =49038-60-02	0.8843	G_WET	41.6	U		T
42828-CONC-7A	48401-78-05		1.00		Lab Extraction ID =49038-60-02	0.8843	G_WET				T
42828-CONC-7A	48401-78-05		1.00		Lab Extraction ID =49038-60-02	0.8843	G_WET	3.39	U		T
42828-CONC-7A	48401-78-05		1.00		Lab Extraction ID =49038-60-02	0.8843	G_WET	565.42	U		T
42828-CONC-7A	48401-78-05		1.00		Lab Extraction ID =49038-60-02	0.8843	G_WET				T
42828-CONC-7A	48401-78-05		1.00		Lab Extraction ID =49038-60-02	0.8843	G_WET				T
42828-CONC-7A	48401-78-05		1.00		Lab Extraction ID =49038-60-02	0.8843	G_WET				T
42828-CONC-7A	48401-78-05		1.00		Lab Extraction ID =49038-60-02	0.8843	G_WET				T
42828-CONC-7A	48401-78-05		1.00		Lab Extraction ID =49038-60-02	0.8843	G_WET				T
42828-CONC-7A	48401-78-05		1.00		Lab Extraction ID =49038-60-02	0.8843	G_WET				T
42828-CONC-7A	48401-78-05		1.00		Lab Extraction ID =49038-60-02	0.8843	G_WET				T
42828-CONC-7A	48401-78-05		1.00		Lab Extraction ID =49038-60-02	0.8843	G_WET				T
42828-CONC-7A	48401-78-05		1.00		Lab Extraction ID =49038-60-02	0.8843	G_WET				T
42828-CONC-7A	48401-78-05		1.00		Lab Extraction ID =49038-60-02	0.8843	G_WET				T
42828-CONC-7A	48401-78-05		1.00		Lab Extraction ID =49038-60-02	0.8843	G_WET				T
42828-CONC-7A	48401-78-05		1.00		Lab Extraction ID =49038-60-02	0.8843	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
42828-CONC-7A	48401-78-05	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-28	7012-37-5	PCB	MOD 1668A	78	%RECOVERY			
42828-CONC-7A	48401-78-05	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-111	39635-32-0	PCB	MOD 1668A	61	%RECOVERY			
42828-CONC-7A	48401-78-05	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-178	52663-67-9	PCB	MOD 1668A	61	%RECOVERY			
42828-CONC-7B	48401-78-06	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-81	70362-50-4	PCB	MOD 1668A	472.01	pg/g - Wet Wt	U		472.01
42828-CONC-7B	48401-78-06	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-77	32598-13-3	PCB	MOD 1668A	212.27	pg/g - Wet Wt	J		472.01
42828-CONC-7B	48401-78-06	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-106	70424-69-0	PCB	MOD 1668A	9.08	pg/g - Wet Wt	JC		944.02
42828-CONC-7B	48401-78-06	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		944.02
42828-CONC-7B	48401-78-06	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		472.01
42828-CONC-7B	48401-78-06	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-118	31508-00-6	PCB	MOD 1668A	346.72	pg/g - Wet Wt	J		472.01
42828-CONC-7B	48401-78-06	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-114	74472-37-0	PCB	MOD 1668A	7.83	pg/g - Wet Wt	J		472.01
42828-CONC-7B	48401-78-06	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-105	32598-14-4	PCB	MOD 1668A	108.98	pg/g - Wet Wt	J		188.80
42828-CONC-7B	48401-78-06	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-126	57465-28-8	PCB	MOD 1668A	211.02	pg/g - Wet Wt	J		944.02
42828-CONC-7B	48401-78-06	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-167	52663-72-6	PCB	MOD 1668A	26.90	pg/g - Wet Wt	J		472.01
42828-CONC-7B	48401-78-06	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-156	38380-08-4	PCB	MOD 1668A	25.80	pg/g - Wet Wt	JC		472.01
42828-CONC-7B	48401-78-06	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	C156		472.01
42828-CONC-7B	48401-78-06	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-169	32774-16-6	PCB	MOD 1668A	4.47	pg/g - Wet Wt	J		472.01
42828-CONC-7B	48401-78-06	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-189	39635-31-9	PCB	MOD 1668A	2.20	pg/g - Wet Wt	J		472.01
42828-CONC-7B	48401-78-06	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-81	70362-50-4	PCB	MOD 1668A	83	%RECOVERY			
42828-CONC-7B	48401-78-06	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-77	32598-13-3	PCB	MOD 1668A	83	%RECOVERY			
42828-CONC-7B	48401-78-06	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-123	65510-44-3	PCB	MOD 1668A	80	%RECOVERY			
42828-CONC-7B	48401-78-06	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-118	31508-00-6	PCB	MOD 1668A	75	%RECOVERY			
42828-CONC-7B	48401-78-06	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-114	74472-37-0	PCB	MOD 1668A	72	%RECOVERY			
42828-CONC-7B	48401-78-06	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-105	32598-14-4	PCB	MOD 1668A	80	%RECOVERY			
42828-CONC-7B	48401-78-06	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-126	57465-28-8	PCB	MOD 1668A	82	%RECOVERY			
42828-CONC-7B	48401-78-06	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-167	52663-72-6	PCB	MOD 1668A	76	%RECOVERY			
42828-CONC-7B	48401-78-06	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-156	38380-08-4	PCB	MOD 1668A	70	%RECOVERY			
42828-CONC-7B	48401-78-06	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-157	69782-90-7	PCB	MOD 1668A	70	%RECOVERY			
42828-CONC-7B	48401-78-06	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-169	32774-16-6	PCB	MOD 1668A	90	%RECOVERY			
42828-CONC-7B	48401-78-06	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-189	39635-31-9	PCB	MOD 1668A	101	%RECOVERY			
42828-CONC-7B	48401-78-06	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-28	7012-37-5	PCB	MOD 1668A	89	%RECOVERY			
42828-CONC-7B	48401-78-06	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-111	39635-32-0	PCB	MOD 1668A	82	%RECOVERY			
42828-CONC-7B	48401-78-06	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-178	52663-67-9	PCB	MOD 1668A	79	%RECOVERY			
42828-CONC-7C	48401-78-07	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-81	70362-50-4	PCB	MOD 1668A	4.25	pg/g - Wet Wt	J		621.81
42828-CONC-7C	48401-78-07	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-77	32598-13-3	PCB	MOD 1668A	302.42	pg/g - Wet Wt	J		621.81
42828-CONC-7C	48401-78-07	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-106	70424-69-0	PCB	MOD 1668A	36.10	pg/g - Wet Wt	JC		1243.62
42828-CONC-7C	48401-78-07	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		1243.62
42828-CONC-7C	48401-78-07	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		621.81
42828-CONC-7C	48401-78-07	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-118	31508-00-6	PCB	MOD 1668A	579.80	pg/g - Wet Wt	J		621.81
42828-CONC-7C	48401-78-07	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-114	74472-37-0	PCB	MOD 1668A	11.94	pg/g - Wet Wt	J		621.81
42828-CONC-7C	48401-78-07	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-105	32598-14-4	PCB	MOD 1668A	175.82	pg/g - Wet Wt	J		248.73
42828-CONC-7C	48401-78-07	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-126	57465-28-8	PCB	MOD 1668A	311.44	pg/g - Wet Wt	J		1243.63
42828-CONC-7C	48401-78-07	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-167	52663-72-6	PCB	MOD 1668A	36.94	pg/g - Wet Wt	J		621.81
42828-CONC-7C	48401-78-07	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-156	38380-08-4	PCB	MOD 1668A	39.54	pg/g - Wet Wt	JC		621.81
42828-CONC-7C	48401-78-07	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	C156		621.81
42828-CONC-7C	48401-78-07	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-169	32774-16-6	PCB	MOD 1668A	7.04	pg/g - Wet Wt	J		621.81
42828-CONC-7C	48401-78-07	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-189	39635-31-9	PCB	MOD 1668A	621.81	pg/g - Wet Wt	U		621.81
42828-CONC-7C	48401-78-07	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-81	70362-50-4	PCB	MOD 1668A	84	%RECOVERY			
42828-CONC-7C	48401-78-07	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-77	32598-13-3	PCB	MOD 1668A	84	%RECOVERY			
42828-CONC-7C	48401-78-07	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-123	65510-44-3	PCB	MOD 1668A	74	%RECOVERY			
42828-CONC-7C	48401-78-07	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-118	31508-00-6	PCB	MOD 1668A	73	%RECOVERY			
42828-CONC-7C	48401-78-07	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-114	74472-37-0	PCB	MOD 1668A	67	%RECOVERY			
42828-CONC-7C	48401-78-07	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-105	32598-14-4	PCB	MOD 1668A	76	%RECOVERY			
42828-CONC-7C	48401-78-07	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-126	57465-28-8	PCB	MOD 1668A	79	%RECOVERY			
42828-CONC-7C	48401-78-07	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-167	52663-72-6	PCB	MOD 1668A	77	%RECOVERY			
42828-CONC-7C	48401-78-07	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-156	38380-08-4	PCB	MOD 1668A	71	%RECOVERY			

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
42828-CONC-7A	48401-78-05		1.00		Lab Extraction ID =49038-60-02	0.8843	G_WET				T
42828-CONC-7A	48401-78-05		1.00		Lab Extraction ID =49038-60-02	0.8843	G_WET				T
42828-CONC-7A	48401-78-05		1.00		Lab Extraction ID =49038-60-02	0.8843	G_WET				T
42828-CONC-7B	48401-78-06		1.00		Lab Extraction ID =49038-60-03	1.0593	G_WET	472.01	U		T
42828-CONC-7B	48401-78-06		1.00		Lab Extraction ID =49038-60-03	1.0593	G_WET	212.27	J		T
42828-CONC-7B	48401-78-06		1.00		Lab Extraction ID =49038-60-03	1.0593	G_WET	9.08	U		T
42828-CONC-7B	48401-78-06		1.00		Lab Extraction ID =49038-60-03	1.0593	G_WET				T
42828-CONC-7B	48401-78-06		1.00		Lab Extraction ID =49038-60-03	1.0593	G_WET				T
42828-CONC-7B	48401-78-06		1.00		Lab Extraction ID =49038-60-03	1.0593	G_WET	346.72	UJ		T
42828-CONC-7B	48401-78-06		1.00		Lab Extraction ID =49038-60-03	1.0593	G_WET	7.83	U		T
42828-CONC-7B	48401-78-06		1.00		Lab Extraction ID =49038-60-03	1.0593	G_WET	108.98	U		T
42828-CONC-7B	48401-78-06		1.00		Lab Extraction ID =49038-60-03	1.0593	G_WET	211.02	J		T
42828-CONC-7B	48401-78-06		1.00		Lab Extraction ID =49038-60-03	1.0593	G_WET	26.9	U		T
42828-CONC-7B	48401-78-06		1.00		Lab Extraction ID =49038-60-03	1.0593	G_WET	25.8	U		T
42828-CONC-7B	48401-78-06		1.00		Lab Extraction ID =49038-60-03	1.0593	G_WET				T
42828-CONC-7B	48401-78-06		1.00		Lab Extraction ID =49038-60-03	1.0593	G_WET	4.47	U		T
42828-CONC-7B	48401-78-06		1.00		Lab Extraction ID =49038-60-03	1.0593	G_WET	2.2	U		T
42828-CONC-7B	48401-78-06		1.00		Lab Extraction ID =49038-60-03	1.0593	G_WET				T
42828-CONC-7B	48401-78-06		1.00		Lab Extraction ID =49038-60-03	1.0593	G_WET				T
42828-CONC-7B	48401-78-06		1.00		Lab Extraction ID =49038-60-03	1.0593	G_WET				T
42828-CONC-7B	48401-78-06		1.00		Lab Extraction ID =49038-60-03	1.0593	G_WET				T
42828-CONC-7B	48401-78-06		1.00		Lab Extraction ID =49038-60-03	1.0593	G_WET				T
42828-CONC-7B	48401-78-06		1.00		Lab Extraction ID =49038-60-03	1.0593	G_WET				T
42828-CONC-7B	48401-78-06		1.00		Lab Extraction ID =49038-60-03	1.0593	G_WET				T
42828-CONC-7B	48401-78-06		1.00		Lab Extraction ID =49038-60-03	1.0593	G_WET				T
42828-CONC-7B	48401-78-06		1.00		Lab Extraction ID =49038-60-03	1.0593	G_WET				T
42828-CONC-7B	48401-78-06		1.00		Lab Extraction ID =49038-60-03	1.0593	G_WET				T
42828-CONC-7B	48401-78-06		1.00		Lab Extraction ID =49038-60-03	1.0593	G_WET				T
42828-CONC-7B	48401-78-06		1.00		Lab Extraction ID =49038-60-03	1.0593	G_WET				T
42828-CONC-7B	48401-78-06		1.00		Lab Extraction ID =49038-60-03	1.0593	G_WET				T
42828-CONC-7C	48401-78-07		1.00		Lab Extraction ID =49038-60-04	0.8041	G_WET	4.25	U		T
42828-CONC-7C	48401-78-07		1.00		Lab Extraction ID =49038-60-04	0.8041	G_WET	302.42	J		T
42828-CONC-7C	48401-78-07		1.00		Lab Extraction ID =49038-60-04	0.8041	G_WET	36.1	U		T
42828-CONC-7C	48401-78-07		1.00		Lab Extraction ID =49038-60-04	0.8041	G_WET				T
42828-CONC-7C	48401-78-07		1.00		Lab Extraction ID =49038-60-04	0.8041	G_WET				T
42828-CONC-7C	48401-78-07		1.00		Lab Extraction ID =49038-60-04	0.8041	G_WET	579.8	UJ		T
42828-CONC-7C	48401-78-07		1.00		Lab Extraction ID =49038-60-04	0.8041	G_WET	11.94	U		T
42828-CONC-7C	48401-78-07		1.00		Lab Extraction ID =49038-60-04	0.8041	G_WET	175.82	U		T
42828-CONC-7C	48401-78-07		1.00		Lab Extraction ID =49038-60-04	0.8041	G_WET	311.44	J		T
42828-CONC-7C	48401-78-07		1.00		Lab Extraction ID =49038-60-04	0.8041	G_WET	36.94	U		T
42828-CONC-7C	48401-78-07		1.00		Lab Extraction ID =49038-60-04	0.8041	G_WET	39.54	U		T
42828-CONC-7C	48401-78-07		1.00		Lab Extraction ID =49038-60-04	0.8041	G_WET				T
42828-CONC-7C	48401-78-07		1.00		Lab Extraction ID =49038-60-04	0.8041	G_WET	7.04	U		T
42828-CONC-7C	48401-78-07		1.00		Lab Extraction ID =49038-60-04	0.8041	G_WET	621.81	U		T
42828-CONC-7C	48401-78-07		1.00		Lab Extraction ID =49038-60-04	0.8041	G_WET				T
42828-CONC-7C	48401-78-07		1.00		Lab Extraction ID =49038-60-04	0.8041	G_WET				T
42828-CONC-7C	48401-78-07		1.00		Lab Extraction ID =49038-60-04	0.8041	G_WET				T
42828-CONC-7C	48401-78-07		1.00		Lab Extraction ID =49038-60-04	0.8041	G_WET				T
42828-CONC-7C	48401-78-07		1.00		Lab Extraction ID =49038-60-04	0.8041	G_WET				T
42828-CONC-7C	48401-78-07		1.00		Lab Extraction ID =49038-60-04	0.8041	G_WET				T
42828-CONC-7C	48401-78-07		1.00		Lab Extraction ID =49038-60-04	0.8041	G_WET				T
42828-CONC-7C	48401-78-07		1.00		Lab Extraction ID =49038-60-04	0.8041	G_WET				T
42828-CONC-7C	48401-78-07		1.00		Lab Extraction ID =49038-60-04	0.8041	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
42828-CONC-7C	48401-78-07	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-157	69782-90-7	PCB	MOD 1668A	71	%RECOVERY			
42828-CONC-7C	48401-78-07	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-169	32774-16-6	PCB	MOD 1668A	93	%RECOVERY			
42828-CONC-7C	48401-78-07	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-189	39635-31-9	PCB	MOD 1668A	94	%RECOVERY			
42828-CONC-7C	48401-78-07	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-28	7012-37-5	PCB	MOD 1668A	85	%RECOVERY			
42828-CONC-7C	48401-78-07	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-111	39635-32-0	PCB	MOD 1668A	75	%RECOVERY			
42828-CONC-7C	48401-78-07	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-178	52663-67-9	PCB	MOD 1668A	78	%RECOVERY			
42828-CONC-10A	48401-78-08	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-81	70362-50-4	PCB	MOD 1668A	1.80	pg/g - Wet Wt	J		458.76
42828-CONC-10A	48401-78-08	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-77	32598-13-3	PCB	MOD 1668A	217.15	pg/g - Wet Wt	J		458.76
42828-CONC-10A	48401-78-08	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-106	70424-69-0	PCB	MOD 1668A	917.52	pg/g - Wet Wt	UC		917.52
42828-CONC-10A	48401-78-08	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		917.52
42828-CONC-10A	48401-78-08	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		458.76
42828-CONC-10A	48401-78-08	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-118	31508-00-6	PCB	MOD 1668A	332.03	pg/g - Wet Wt	J		458.76
42828-CONC-10A	48401-78-08	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-114	74472-37-0	PCB	MOD 1668A	8.52	pg/g - Wet Wt	J		458.76
42828-CONC-10A	48401-78-08	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-105	32598-14-4	PCB	MOD 1668A	109.94	pg/g - Wet Wt	J		183.50
42828-CONC-10A	48401-78-08	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-126	57465-28-8	PCB	MOD 1668A	244.73	pg/g - Wet Wt	J		917.52
42828-CONC-10A	48401-78-08	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-167	52663-72-6	PCB	MOD 1668A	21.46	pg/g - Wet Wt	J		458.76
42828-CONC-10A	48401-78-08	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-156	38380-08-4	PCB	MOD 1668A	25.80	pg/g - Wet Wt	JC		458.76
42828-CONC-10A	48401-78-08	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	C156		458.76
42828-CONC-10A	48401-78-08	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-169	32774-16-6	PCB	MOD 1668A	3.07	pg/g - Wet Wt	J		458.76
42828-CONC-10A	48401-78-08	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-189	39635-31-9	PCB	MOD 1668A	1.23	pg/g - Wet Wt	J		458.76
42828-CONC-10A	48401-78-08	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-81	70362-50-4	PCB	MOD 1668A	88	%RECOVERY			
42828-CONC-10A	48401-78-08	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-77	32598-13-3	PCB	MOD 1668A	90	%RECOVERY			
42828-CONC-10A	48401-78-08	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-123	65510-44-3	PCB	MOD 1668A	78	%RECOVERY			
42828-CONC-10A	48401-78-08	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-118	31508-00-6	PCB	MOD 1668A	78	%RECOVERY			
42828-CONC-10A	48401-78-08	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-114	74472-37-0	PCB	MOD 1668A	72	%RECOVERY			
42828-CONC-10A	48401-78-08	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-105	32598-14-4	PCB	MOD 1668A	80	%RECOVERY			
42828-CONC-10A	48401-78-08	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-126	57465-28-8	PCB	MOD 1668A	83	%RECOVERY			
42828-CONC-10A	48401-78-08	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-167	52663-72-6	PCB	MOD 1668A	82	%RECOVERY			
42828-CONC-10A	48401-78-08	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-156	38380-08-4	PCB	MOD 1668A	77	%RECOVERY			
42828-CONC-10A	48401-78-08	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-157	69782-90-7	PCB	MOD 1668A	77	%RECOVERY			
42828-CONC-10A	48401-78-08	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-169	32774-16-6	PCB	MOD 1668A	100	%RECOVERY			
42828-CONC-10A	48401-78-08	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-189	39635-31-9	PCB	MOD 1668A	93	%RECOVERY			
42828-CONC-10A	48401-78-08	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-28	7012-37-5	PCB	MOD 1668A	83	%RECOVERY			
42828-CONC-10A	48401-78-08	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-111	39635-32-0	PCB	MOD 1668A	80	%RECOVERY			
42828-CONC-10A	48401-78-08	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-178	52663-67-9	PCB	MOD 1668A	85	%RECOVERY			
42828-CONC-10B	48401-78-09	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-81	70362-50-4	PCB	MOD 1668A	650.96	pg/g - Wet Wt	U		650.96
42828-CONC-10B	48401-78-09	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-77	32598-13-3	PCB	MOD 1668A	444.74	pg/g - Wet Wt	J		650.96
42828-CONC-10B	48401-78-09	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-106	70424-69-0	PCB	MOD 1668A	12.15	pg/g - Wet Wt	JC		1301.92
42828-CONC-10B	48401-78-09	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		1301.92
42828-CONC-10B	48401-78-09	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		650.96
42828-CONC-10B	48401-78-09	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-118	31508-00-6	PCB	MOD 1668A	538.49	pg/g - Wet Wt	J		650.96
42828-CONC-10B	48401-78-09	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-114	74472-37-0	PCB	MOD 1668A	16.32	pg/g - Wet Wt	J		650.96
42828-CONC-10B	48401-78-09	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-105	32598-14-4	PCB	MOD 1668A	168.34	pg/g - Wet Wt	J		260.38
42828-CONC-10B	48401-78-09	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-126	57465-28-8	PCB	MOD 1668A	471.07	pg/g - Wet Wt	J		1301.91
42828-CONC-10B	48401-78-09	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-167	52663-72-6	PCB	MOD 1668A	42.63	pg/g - Wet Wt	J		650.96
42828-CONC-10B	48401-78-09	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-156	38380-08-4	PCB	MOD 1668A	46.56	pg/g - Wet Wt	JC		650.96
42828-CONC-10B	48401-78-09	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	C156		650.96
42828-CONC-10B	48401-78-09	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-169	32774-16-6	PCB	MOD 1668A	650.96	pg/g - Wet Wt	U		650.96
42828-CONC-10B	48401-78-09	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-189	39635-31-9	PCB	MOD 1668A	3.41	pg/g - Wet Wt	J		650.96
42828-CONC-10B	48401-78-09	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-81	70362-50-4	PCB	MOD 1668A	70	%RECOVERY			
42828-CONC-10B	48401-78-09	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-77	32598-13-3	PCB	MOD 1668A	70	%RECOVERY			
42828-CONC-10B	48401-78-09	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-123	65510-44-3	PCB	MOD 1668A	68	%RECOVERY			
42828-CONC-10B	48401-78-09	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-118	31508-00-6	PCB	MOD 1668A	67	%RECOVERY			
42828-CONC-10B	48401-78-09	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-114	74472-37-0	PCB	MOD 1668A	62	%RECOVERY			
42828-CONC-10B	48401-78-09	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-105	32598-14-4	PCB	MOD 1668A	71	%RECOVERY			

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
42828-CONC-7C	48401-78-07		1.00		Lab Extraction ID =49038-60-04	0.8041	G_WET				T
42828-CONC-7C	48401-78-07		1.00		Lab Extraction ID =49038-60-04	0.8041	G_WET				T
42828-CONC-7C	48401-78-07		1.00		Lab Extraction ID =49038-60-04	0.8041	G_WET				T
42828-CONC-7C	48401-78-07		1.00		Lab Extraction ID =49038-60-04	0.8041	G_WET				T
42828-CONC-7C	48401-78-07		1.00		Lab Extraction ID =49038-60-04	0.8041	G_WET				T
42828-CONC-7C	48401-78-07		1.00		Lab Extraction ID =49038-60-04	0.8041	G_WET				T
42828-CONC-10A	48401-78-08		1.00		Lab Extraction ID =49038-60-05	1.0899	G_WET	1.8	U		T
42828-CONC-10A	48401-78-08		1.00		Lab Extraction ID =49038-60-05	1.0899	G_WET	217.15	J		T
42828-CONC-10A	48401-78-08		1.00		Lab Extraction ID =49038-60-05	1.0899	G_WET	917.52	U		T
42828-CONC-10A	48401-78-08		1.00		Lab Extraction ID =49038-60-05	1.0899	G_WET				T
42828-CONC-10A	48401-78-08		1.00		Lab Extraction ID =49038-60-05	1.0899	G_WET				T
42828-CONC-10A	48401-78-08		1.00		Lab Extraction ID =49038-60-05	1.0899	G_WET	332.03	UJ		T
42828-CONC-10A	48401-78-08		1.00		Lab Extraction ID =49038-60-05	1.0899	G_WET	8.52	U		T
42828-CONC-10A	48401-78-08		1.00		Lab Extraction ID =49038-60-05	1.0899	G_WET	109.94	U		T
42828-CONC-10A	48401-78-08		1.00		Lab Extraction ID =49038-60-05	1.0899	G_WET	244.73	J		T
42828-CONC-10A	48401-78-08		1.00		Lab Extraction ID =49038-60-05	1.0899	G_WET	21.46	U		T
42828-CONC-10A	48401-78-08		1.00		Lab Extraction ID =49038-60-05	1.0899	G_WET	25.8	U		T
42828-CONC-10A	48401-78-08		1.00		Lab Extraction ID =49038-60-05	1.0899	G_WET				T
42828-CONC-10A	48401-78-08		1.00		Lab Extraction ID =49038-60-05	1.0899	G_WET	3.07	U		T
42828-CONC-10A	48401-78-08		1.00		Lab Extraction ID =49038-60-05	1.0899	G_WET	1.23	U		T
42828-CONC-10A	48401-78-08		1.00		Lab Extraction ID =49038-60-05	1.0899	G_WET				T
42828-CONC-10A	48401-78-08		1.00		Lab Extraction ID =49038-60-05	1.0899	G_WET				T
42828-CONC-10A	48401-78-08		1.00		Lab Extraction ID =49038-60-05	1.0899	G_WET				T
42828-CONC-10A	48401-78-08		1.00		Lab Extraction ID =49038-60-05	1.0899	G_WET				T
42828-CONC-10A	48401-78-08		1.00		Lab Extraction ID =49038-60-05	1.0899	G_WET				T
42828-CONC-10A	48401-78-08		1.00		Lab Extraction ID =49038-60-05	1.0899	G_WET				T
42828-CONC-10A	48401-78-08		1.00		Lab Extraction ID =49038-60-05	1.0899	G_WET				T
42828-CONC-10A	48401-78-08		1.00		Lab Extraction ID =49038-60-05	1.0899	G_WET				T
42828-CONC-10A	48401-78-08		1.00		Lab Extraction ID =49038-60-05	1.0899	G_WET				T
42828-CONC-10A	48401-78-08		1.00		Lab Extraction ID =49038-60-05	1.0899	G_WET				T
42828-CONC-10A	48401-78-08		1.00		Lab Extraction ID =49038-60-05	1.0899	G_WET				T
42828-CONC-10A	48401-78-08		1.00		Lab Extraction ID =49038-60-05	1.0899	G_WET				T
42828-CONC-10A	48401-78-08		1.00		Lab Extraction ID =49038-60-05	1.0899	G_WET				T
42828-CONC-10A	48401-78-08		1.00		Lab Extraction ID =49038-60-05	1.0899	G_WET				T
42828-CONC-10B	48401-78-09		1.00		Lab Extraction ID =49038-60-06	0.7681	G_WET	650.96	U		T
42828-CONC-10B	48401-78-09		1.00		Lab Extraction ID =49038-60-06	0.7681	G_WET	444.74	J		T
42828-CONC-10B	48401-78-09		1.00		Lab Extraction ID =49038-60-06	0.7681	G_WET	12.15	U		T
42828-CONC-10B	48401-78-09		1.00		Lab Extraction ID =49038-60-06	0.7681	G_WET				T
42828-CONC-10B	48401-78-09		1.00		Lab Extraction ID =49038-60-06	0.7681	G_WET				T
42828-CONC-10B	48401-78-09		1.00		Lab Extraction ID =49038-60-06	0.7681	G_WET	538.49	UJ		T
42828-CONC-10B	48401-78-09		1.00		Lab Extraction ID =49038-60-06	0.7681	G_WET	16.32	U		T
42828-CONC-10B	48401-78-09		1.00		Lab Extraction ID =49038-60-06	0.7681	G_WET	168.34	U		T
42828-CONC-10B	48401-78-09		1.00		Lab Extraction ID =49038-60-06	0.7681	G_WET	471.07	J		T
42828-CONC-10B	48401-78-09		1.00		Lab Extraction ID =49038-60-06	0.7681	G_WET	42.63	U		T
42828-CONC-10B	48401-78-09		1.00		Lab Extraction ID =49038-60-06	0.7681	G_WET	46.56	U		T
42828-CONC-10B	48401-78-09		1.00		Lab Extraction ID =49038-60-06	0.7681	G_WET				T
42828-CONC-10B	48401-78-09		1.00		Lab Extraction ID =49038-60-06	0.7681	G_WET	650.96	U		T
42828-CONC-10B	48401-78-09		1.00		Lab Extraction ID =49038-60-06	0.7681	G_WET	3.41	U		T
42828-CONC-10B	48401-78-09		1.00		Lab Extraction ID =49038-60-06	0.7681	G_WET				T
42828-CONC-10B	48401-78-09		1.00		Lab Extraction ID =49038-60-06	0.7681	G_WET				T
42828-CONC-10B	48401-78-09		1.00		Lab Extraction ID =49038-60-06	0.7681	G_WET				T
42828-CONC-10B	48401-78-09		1.00		Lab Extraction ID =49038-60-06	0.7681	G_WET				T
42828-CONC-10B	48401-78-09		1.00		Lab Extraction ID =49038-60-06	0.7681	G_WET				T
42828-CONC-10B	48401-78-09		1.00		Lab Extraction ID =49038-60-06	0.7681	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
42828-CONC-10B	48401-78-09	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-126	57465-28-8	PCB	MOD 1668A	65	%RECOVERY			
42828-CONC-10B	48401-78-09	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-167	52663-72-6	PCB	MOD 1668A	70	%RECOVERY			
42828-CONC-10B	48401-78-09	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-156	38380-08-4	PCB	MOD 1668A	66	%RECOVERY			
42828-CONC-10B	48401-78-09	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-157	69782-90-7	PCB	MOD 1668A	66	%RECOVERY			
42828-CONC-10B	48401-78-09	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-169	32774-16-6	PCB	MOD 1668A	78	%RECOVERY			
42828-CONC-10B	48401-78-09	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-189	39635-31-9	PCB	MOD 1668A	74	%RECOVERY			
42828-CONC-10B	48401-78-09	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-28	7012-37-5	PCB	MOD 1668A	73	%RECOVERY			
42828-CONC-10B	48401-78-09	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-111	39635-32-0	PCB	MOD 1668A	66	%RECOVERY			
42828-CONC-10B	48401-78-09	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-178	52663-67-9	PCB	MOD 1668A	70	%RECOVERY			
42828-CONC-10C	48401-78-10	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-81	70362-50-4	PCB	MOD 1668A	6.59	pg/g - Wet Wt	J		99.93
42828-CONC-10C	48401-78-10	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-77	32598-13-3	PCB	MOD 1668A	250.35	pg/g - Wet Wt			99.93
42828-CONC-10C	48401-78-10	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-106	70424-69-0	PCB	MOD 1668A	12.48	pg/g - Wet Wt	JC		199.86
42828-CONC-10C	48401-78-10	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		199.86
42828-CONC-10C	48401-78-10	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		99.93
42828-CONC-10C	48401-78-10	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-118	31508-00-6	PCB	MOD 1668A	381.50	pg/g - Wet Wt			99.93
42828-CONC-10C	48401-78-10	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-114	74472-37-0	PCB	MOD 1668A	11.21	pg/g - Wet Wt	J		99.93
42828-CONC-10C	48401-78-10	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-105	32598-14-4	PCB	MOD 1668A	131.21	pg/g - Wet Wt			39.97
42828-CONC-10C	48401-78-10	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-126	57465-28-8	PCB	MOD 1668A	267.61	pg/g - Wet Wt			199.85
42828-CONC-10C	48401-78-10	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-167	52663-72-6	PCB	MOD 1668A	19.05	pg/g - Wet Wt	J		99.93
42828-CONC-10C	48401-78-10	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-156	38380-08-4	PCB	MOD 1668A	30.00	pg/g - Wet Wt	JC		99.93
42828-CONC-10C	48401-78-10	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	C156		99.93
42828-CONC-10C	48401-78-10	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-169	32774-16-6	PCB	MOD 1668A	4.16	pg/g - Wet Wt	J		99.93
42828-CONC-10C	48401-78-10	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-189	39635-31-9	PCB	MOD 1668A	2.90	pg/g - Wet Wt	J		99.93
42828-CONC-10C	48401-78-10	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-81	70362-50-4	PCB	MOD 1668A	88	%RECOVERY			
42828-CONC-10C	48401-78-10	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-77	32598-13-3	PCB	MOD 1668A	86	%RECOVERY			
42828-CONC-10C	48401-78-10	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-123	65510-44-3	PCB	MOD 1668A	75	%RECOVERY			
42828-CONC-10C	48401-78-10	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-118	31508-00-6	PCB	MOD 1668A	74	%RECOVERY			
42828-CONC-10C	48401-78-10	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-114	74472-37-0	PCB	MOD 1668A	67	%RECOVERY			
42828-CONC-10C	48401-78-10	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-105	32598-14-4	PCB	MOD 1668A	86	%RECOVERY			
42828-CONC-10C	48401-78-10	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-126	57465-28-8	PCB	MOD 1668A	80	%RECOVERY			
42828-CONC-10C	48401-78-10	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-167	52663-72-6	PCB	MOD 1668A	77	%RECOVERY			
42828-CONC-10C	48401-78-10	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-156	38380-08-4	PCB	MOD 1668A	72	%RECOVERY			
42828-CONC-10C	48401-78-10	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-157	69782-90-7	PCB	MOD 1668A	72	%RECOVERY			
42828-CONC-10C	48401-78-10	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-169	32774-16-6	PCB	MOD 1668A	93	%RECOVERY			
42828-CONC-10C	48401-78-10	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-189	39635-31-9	PCB	MOD 1668A	83	%RECOVERY			
42828-CONC-10C	48401-78-10	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-28	7012-37-5	PCB	MOD 1668A	88	%RECOVERY			
42828-CONC-10C	48401-78-10	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-111	39635-32-0	PCB	MOD 1668A	80	%RECOVERY			
42828-CONC-10C	48401-78-10	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-178	52663-67-9	PCB	MOD 1668A	83	%RECOVERY			
42828-CONC-14A	48401-78-11	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-81	70362-50-4	PCB	MOD 1668A	589.48	pg/g - Wet Wt	U		589.48
42828-CONC-14A	48401-78-11	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-77	32598-13-3	PCB	MOD 1668A	786.44	pg/g - Wet Wt			589.48
42828-CONC-14A	48401-78-11	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-106	70424-69-0	PCB	MOD 1668A	8.51	pg/g - Wet Wt	JC		1178.96
42828-CONC-14A	48401-78-11	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		1178.96
42828-CONC-14A	48401-78-11	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		589.48
42828-CONC-14A	48401-78-11	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-118	31508-00-6	PCB	MOD 1668A	480.39	pg/g - Wet Wt	J		589.48
42828-CONC-14A	48401-78-11	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-114	74472-37-0	PCB	MOD 1668A	9.36	pg/g - Wet Wt	J		589.48
42828-CONC-14A	48401-78-11	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-105	32598-14-4	PCB	MOD 1668A	150.26	pg/g - Wet Wt	J		235.79
42828-CONC-14A	48401-78-11	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-126	57465-28-8	PCB	MOD 1668A	754.11	pg/g - Wet Wt	J		1178.97
42828-CONC-14A	48401-78-11	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-167	52663-72-6	PCB	MOD 1668A	36.57	pg/g - Wet Wt	J		589.48
42828-CONC-14A	48401-78-11	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-156	38380-08-4	PCB	MOD 1668A	32.96	pg/g - Wet Wt	JC		589.48
42828-CONC-14A	48401-78-11	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	C156		589.48
42828-CONC-14A	48401-78-11	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-169	32774-16-6	PCB	MOD 1668A	2.56	pg/g - Wet Wt	J		589.48
42828-CONC-14A	48401-78-11	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-189	39635-31-9	PCB	MOD 1668A	589.48	pg/g - Wet Wt	U		589.48
42828-CONC-14A	48401-78-11	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-81	70362-50-4	PCB	MOD 1668A	56	%RECOVERY			
42828-CONC-14A	48401-78-11	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-77	32598-13-3	PCB	MOD 1668A	56	%RECOVERY			
42828-CONC-14A	48401-78-11	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-123	65510-44-3	PCB	MOD 1668A	47	%RECOVERY			

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
42828-CONC-10B	48401-78-09		1.00		Lab Extraction ID =49038-60-06	0.7681	G_WET				T
42828-CONC-10B	48401-78-09		1.00		Lab Extraction ID =49038-60-06	0.7681	G_WET				T
42828-CONC-10B	48401-78-09		1.00		Lab Extraction ID =49038-60-06	0.7681	G_WET				T
42828-CONC-10B	48401-78-09		1.00		Lab Extraction ID =49038-60-06	0.7681	G_WET				T
42828-CONC-10B	48401-78-09		1.00		Lab Extraction ID =49038-60-06	0.7681	G_WET				T
42828-CONC-10B	48401-78-09		1.00		Lab Extraction ID =49038-60-06	0.7681	G_WET				T
42828-CONC-10B	48401-78-09		1.00		Lab Extraction ID =49038-60-06	0.7681	G_WET				T
42828-CONC-10B	48401-78-09		1.00		Lab Extraction ID =49038-60-06	0.7681	G_WET				T
42828-CONC-10B	48401-78-09		1.00		Lab Extraction ID =49038-60-06	0.7681	G_WET				T
42828-CONC-10C	48401-78-10		1.00		Lab Extraction ID =49038-60-07	0.8598	G_WET	6.59	U		T
42828-CONC-10C	48401-78-10		1.00		Lab Extraction ID =49038-60-07	0.8598	G_WET	250.35			T
42828-CONC-10C	48401-78-10		1.00		Lab Extraction ID =49038-60-07	0.8598	G_WET	12.48	U		T
42828-CONC-10C	48401-78-10		1.00		Lab Extraction ID =49038-60-07	0.8598	G_WET				T
42828-CONC-10C	48401-78-10		1.00		Lab Extraction ID =49038-60-07	0.8598	G_WET				T
42828-CONC-10C	48401-78-10		1.00		Lab Extraction ID =49038-60-07	0.8598	G_WET	381.5	UJ		T
42828-CONC-10C	48401-78-10		1.00		Lab Extraction ID =49038-60-07	0.8598	G_WET	11.21	U		T
42828-CONC-10C	48401-78-10		1.00		Lab Extraction ID =49038-60-07	0.8598	G_WET	131.21	U		T
42828-CONC-10C	48401-78-10		1.00		Lab Extraction ID =49038-60-07	0.8598	G_WET	267.61			T
42828-CONC-10C	48401-78-10		1.00		Lab Extraction ID =49038-60-07	0.8598	G_WET	19.05	U		T
42828-CONC-10C	48401-78-10		1.00		Lab Extraction ID =49038-60-07	0.8598	G_WET	30	U		T
42828-CONC-10C	48401-78-10		1.00		Lab Extraction ID =49038-60-07	0.8598	G_WET				T
42828-CONC-10C	48401-78-10		1.00		Lab Extraction ID =49038-60-07	0.8598	G_WET	4.16	U		T
42828-CONC-10C	48401-78-10		1.00		Lab Extraction ID =49038-60-07	0.8598	G_WET	2.9	U		T
42828-CONC-10C	48401-78-10		1.00		Lab Extraction ID =49038-60-07	0.8598	G_WET				T
42828-CONC-10C	48401-78-10		1.00		Lab Extraction ID =49038-60-07	0.8598	G_WET				T
42828-CONC-10C	48401-78-10		1.00		Lab Extraction ID =49038-60-07	0.8598	G_WET				T
42828-CONC-10C	48401-78-10		1.00		Lab Extraction ID =49038-60-07	0.8598	G_WET				T
42828-CONC-10C	48401-78-10		1.00		Lab Extraction ID =49038-60-07	0.8598	G_WET				T
42828-CONC-10C	48401-78-10		1.00		Lab Extraction ID =49038-60-07	0.8598	G_WET				T
42828-CONC-10C	48401-78-10		1.00		Lab Extraction ID =49038-60-07	0.8598	G_WET				T
42828-CONC-10C	48401-78-10		1.00		Lab Extraction ID =49038-60-07	0.8598	G_WET				T
42828-CONC-10C	48401-78-10		1.00		Lab Extraction ID =49038-60-07	0.8598	G_WET				T
42828-CONC-10C	48401-78-10		1.00		Lab Extraction ID =49038-60-07	0.8598	G_WET				T
42828-CONC-10C	48401-78-10		1.00		Lab Extraction ID =49038-60-07	0.8598	G_WET				T
42828-CONC-10C	48401-78-10		1.00		Lab Extraction ID =49038-60-07	0.8598	G_WET				T
42828-CONC-10C	48401-78-10		1.00		Lab Extraction ID =49038-60-07	0.8598	G_WET				T
42828-CONC-14A	48401-78-11		1.00		Lab Extraction ID =49038-60-08	0.8482	G_WET	589.48	U		T
42828-CONC-14A	48401-78-11		1.00		Lab Extraction ID =49038-60-08	0.8482	G_WET	786.44			T
42828-CONC-14A	48401-78-11		1.00		Lab Extraction ID =49038-60-08	0.8482	G_WET	8.51	U		T
42828-CONC-14A	48401-78-11		1.00		Lab Extraction ID =49038-60-08	0.8482	G_WET				T
42828-CONC-14A	48401-78-11		1.00		Lab Extraction ID =49038-60-08	0.8482	G_WET				T
42828-CONC-14A	48401-78-11		1.00		Lab Extraction ID =49038-60-08	0.8482	G_WET	480.39	UJ		T
42828-CONC-14A	48401-78-11		1.00		Lab Extraction ID =49038-60-08	0.8482	G_WET	9.36	U		T
42828-CONC-14A	48401-78-11		1.00		Lab Extraction ID =49038-60-08	0.8482	G_WET	150.26	U		T
42828-CONC-14A	48401-78-11		1.00		Lab Extraction ID =49038-60-08	0.8482	G_WET	754.11	J		T
42828-CONC-14A	48401-78-11		1.00		Lab Extraction ID =49038-60-08	0.8482	G_WET	36.57	U		T
42828-CONC-14A	48401-78-11		1.00		Lab Extraction ID =49038-60-08	0.8482	G_WET	32.96	U		T
42828-CONC-14A	48401-78-11		1.00		Lab Extraction ID =49038-60-08	0.8482	G_WET				T
42828-CONC-14A	48401-78-11		1.00		Lab Extraction ID =49038-60-08	0.8482	G_WET	2.56	U		T
42828-CONC-14A	48401-78-11		1.00		Lab Extraction ID =49038-60-08	0.8482	G_WET	589.48	U		T
42828-CONC-14A	48401-78-11		1.00		Lab Extraction ID =49038-60-08	0.8482	G_WET				T
42828-CONC-14A	48401-78-11		1.00		Lab Extraction ID =49038-60-08	0.8482	G_WET				T
42828-CONC-14A	48401-78-11		1.00		Lab Extraction ID =49038-60-08	0.8482	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
42828-CONC-14A	48401-78-11	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-118	31508-00-6	PCB	MOD 1668A	46	%RECOVERY			
42828-CONC-14A	48401-78-11	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-114	74472-37-0	PCB	MOD 1668A	42	%RECOVERY			
42828-CONC-14A	48401-78-11	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-105	32598-14-4	PCB	MOD 1668A	48	%RECOVERY			
42828-CONC-14A	48401-78-11	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-126	57465-28-8	PCB	MOD 1668A	51	%RECOVERY			
42828-CONC-14A	48401-78-11	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-167	52663-72-6	PCB	MOD 1668A	47	%RECOVERY			
42828-CONC-14A	48401-78-11	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-156	38380-08-4	PCB	MOD 1668A	45	%RECOVERY			
42828-CONC-14A	48401-78-11	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-157	69782-90-7	PCB	MOD 1668A	45	%RECOVERY			
42828-CONC-14A	48401-78-11	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-169	32774-16-6	PCB	MOD 1668A	63	%RECOVERY			
42828-CONC-14A	48401-78-11	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-189	39635-31-9	PCB	MOD 1668A	59	%RECOVERY			
42828-CONC-14A	48401-78-11	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-28	7012-37-5	PCB	MOD 1668A	56	%RECOVERY			
42828-CONC-14A	48401-78-11	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-111	39635-32-0	PCB	MOD 1668A	47	%RECOVERY			
42828-CONC-14A	48401-78-11	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-178	52663-67-9	PCB	MOD 1668A	50	%RECOVERY			
42828-CONC-14B	48401-78-12	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-81	70362-50-4	PCB	MOD 1668A	1.30	pg/g - Wet Wt	J		455.46
42828-CONC-14B	48401-78-12	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-77	32598-13-3	PCB	MOD 1668A	355.70	pg/g - Wet Wt	J		455.46
42828-CONC-14B	48401-78-12	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-106	70424-69-0	PCB	MOD 1668A	8.65	pg/g - Wet Wt	JC		910.92
42828-CONC-14B	48401-78-12	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		910.92
42828-CONC-14B	48401-78-12	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		455.46
42828-CONC-14B	48401-78-12	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-118	31508-00-6	PCB	MOD 1668A	480.96	pg/g - Wet Wt			455.46
42828-CONC-14B	48401-78-12	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-114	74472-37-0	PCB	MOD 1668A	8.75	pg/g - Wet Wt	J		455.46
42828-CONC-14B	48401-78-12	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-105	32598-14-4	PCB	MOD 1668A	142.94	pg/g - Wet Wt	J		182.18
42828-CONC-14B	48401-78-12	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-126	57465-28-8	PCB	MOD 1668A	355.61	pg/g - Wet Wt	J		910.91
42828-CONC-14B	48401-78-12	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-167	52663-72-6	PCB	MOD 1668A	27.54	pg/g - Wet Wt	J		455.46
42828-CONC-14B	48401-78-12	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-156	38380-08-4	PCB	MOD 1668A	40.24	pg/g - Wet Wt	JC		455.46
42828-CONC-14B	48401-78-12	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	C156		455.46
42828-CONC-14B	48401-78-12	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-169	32774-16-6	PCB	MOD 1668A	455.46	pg/g - Wet Wt	U		455.46
42828-CONC-14B	48401-78-12	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-189	39635-31-9	PCB	MOD 1668A	1.30	pg/g - Wet Wt	J		455.46
42828-CONC-14B	48401-78-12	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-81	70362-50-4	PCB	MOD 1668A	92	%RECOVERY			
42828-CONC-14B	48401-78-12	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-77	32598-13-3	PCB	MOD 1668A	92	%RECOVERY			
42828-CONC-14B	48401-78-12	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-123	65510-44-3	PCB	MOD 1668A	80	%RECOVERY			
42828-CONC-14B	48401-78-12	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-118	31508-00-6	PCB	MOD 1668A	76	%RECOVERY			
42828-CONC-14B	48401-78-12	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-114	74472-37-0	PCB	MOD 1668A	71	%RECOVERY			
42828-CONC-14B	48401-78-12	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-105	32598-14-4	PCB	MOD 1668A	81	%RECOVERY			
42828-CONC-14B	48401-78-12	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-126	57465-28-8	PCB	MOD 1668A	80	%RECOVERY			
42828-CONC-14B	48401-78-12	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-167	52663-72-6	PCB	MOD 1668A	76	%RECOVERY			
42828-CONC-14B	48401-78-12	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-156	38380-08-4	PCB	MOD 1668A	72	%RECOVERY			
42828-CONC-14B	48401-78-12	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-157	69782-90-7	PCB	MOD 1668A	72	%RECOVERY			
42828-CONC-14B	48401-78-12	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-169	32774-16-6	PCB	MOD 1668A	94	%RECOVERY			
42828-CONC-14B	48401-78-12	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-189	39635-31-9	PCB	MOD 1668A	97	%RECOVERY			
42828-CONC-14B	48401-78-12	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-28	7012-37-5	PCB	MOD 1668A	93	%RECOVERY			
42828-CONC-14B	48401-78-12	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-111	39635-32-0	PCB	MOD 1668A	79	%RECOVERY			
42828-CONC-14B	48401-78-12	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-178	52663-67-9	PCB	MOD 1668A	83	%RECOVERY			
42828-CONC-14C	48401-78-13	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-81	70362-50-4	PCB	MOD 1668A	2.83	pg/g - Wet Wt	J		577.97
42828-CONC-14C	48401-78-13	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-77	32598-13-3	PCB	MOD 1668A	420.57	pg/g - Wet Wt	J		577.97
42828-CONC-14C	48401-78-13	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-106	70424-69-0	PCB	MOD 1668A	11.66	pg/g - Wet Wt	JC		1155.94
42828-CONC-14C	48401-78-13	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		1155.94
42828-CONC-14C	48401-78-13	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		577.97
42828-CONC-14C	48401-78-13	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-118	31508-00-6	PCB	MOD 1668A	491.06	pg/g - Wet Wt	J		577.97
42828-CONC-14C	48401-78-13	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-114	74472-37-0	PCB	MOD 1668A	9.29	pg/g - Wet Wt	J		577.97
42828-CONC-14C	48401-78-13	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-105	32598-14-4	PCB	MOD 1668A	162.96	pg/g - Wet Wt	J		231.19
42828-CONC-14C	48401-78-13	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-126	57465-28-8	PCB	MOD 1668A	424.21	pg/g - Wet Wt	J		1155.94
42828-CONC-14C	48401-78-13	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-167	52663-72-6	PCB	MOD 1668A	33.23	pg/g - Wet Wt	J		577.97
42828-CONC-14C	48401-78-13	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-156	38380-08-4	PCB	MOD 1668A	33.00	pg/g - Wet Wt	JC		577.97
42828-CONC-14C	48401-78-13	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	C156		577.97
42828-CONC-14C	48401-78-13	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-169	32774-16-6	PCB	MOD 1668A	2.34	pg/g - Wet Wt	J		577.97
42828-CONC-14C	48401-78-13	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-189	39635-31-9	PCB	MOD 1668A	1.58	pg/g - Wet Wt	J		577.97

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
42828-CONC-14A	48401-78-11		1.00		Lab Extraction ID =49038-60-08	0.8482	G_WET				T
42828-CONC-14A	48401-78-11		1.00		Lab Extraction ID =49038-60-08	0.8482	G_WET				T
42828-CONC-14A	48401-78-11		1.00		Lab Extraction ID =49038-60-08	0.8482	G_WET				T
42828-CONC-14A	48401-78-11		1.00		Lab Extraction ID =49038-60-08	0.8482	G_WET				T
42828-CONC-14A	48401-78-11		1.00		Lab Extraction ID =49038-60-08	0.8482	G_WET				T
42828-CONC-14A	48401-78-11		1.00		Lab Extraction ID =49038-60-08	0.8482	G_WET				T
42828-CONC-14A	48401-78-11		1.00		Lab Extraction ID =49038-60-08	0.8482	G_WET				T
42828-CONC-14A	48401-78-11		1.00		Lab Extraction ID =49038-60-08	0.8482	G_WET				T
42828-CONC-14A	48401-78-11		1.00		Lab Extraction ID =49038-60-08	0.8482	G_WET				T
42828-CONC-14A	48401-78-11		1.00		Lab Extraction ID =49038-60-08	0.8482	G_WET				T
42828-CONC-14A	48401-78-11		1.00		Lab Extraction ID =49038-60-08	0.8482	G_WET				T
42828-CONC-14B	48401-78-12		1.00		Lab Extraction ID =49038-60-09	1.0978	G_WET	1.3	U		T
42828-CONC-14B	48401-78-12		1.00		Lab Extraction ID =49038-60-09	1.0978	G_WET	355.7	J		T
42828-CONC-14B	48401-78-12		1.00		Lab Extraction ID =49038-60-09	1.0978	G_WET	8.65	U		T
42828-CONC-14B	48401-78-12		1.00		Lab Extraction ID =49038-60-09	1.0978	G_WET				T
42828-CONC-14B	48401-78-12		1.00		Lab Extraction ID =49038-60-09	1.0978	G_WET				T
42828-CONC-14B	48401-78-12		1.00		Lab Extraction ID =49038-60-09	1.0978	G_WET	480.96	UJ		T
42828-CONC-14B	48401-78-12		1.00		Lab Extraction ID =49038-60-09	1.0978	G_WET	8.75	U		T
42828-CONC-14B	48401-78-12		1.00		Lab Extraction ID =49038-60-09	1.0978	G_WET	142.94	U		T
42828-CONC-14B	48401-78-12		1.00		Lab Extraction ID =49038-60-09	1.0978	G_WET	355.61	J		T
42828-CONC-14B	48401-78-12		1.00		Lab Extraction ID =49038-60-09	1.0978	G_WET	27.54	U		T
42828-CONC-14B	48401-78-12		1.00		Lab Extraction ID =49038-60-09	1.0978	G_WET	40.24	U		T
42828-CONC-14B	48401-78-12		1.00		Lab Extraction ID =49038-60-09	1.0978	G_WET				T
42828-CONC-14B	48401-78-12		1.00		Lab Extraction ID =49038-60-09	1.0978	G_WET	455.46	U		T
42828-CONC-14B	48401-78-12		1.00		Lab Extraction ID =49038-60-09	1.0978	G_WET	1.3	U		T
42828-CONC-14B	48401-78-12		1.00		Lab Extraction ID =49038-60-09	1.0978	G_WET				T
42828-CONC-14B	48401-78-12		1.00		Lab Extraction ID =49038-60-09	1.0978	G_WET				T
42828-CONC-14B	48401-78-12		1.00		Lab Extraction ID =49038-60-09	1.0978	G_WET				T
42828-CONC-14B	48401-78-12		1.00		Lab Extraction ID =49038-60-09	1.0978	G_WET				T
42828-CONC-14B	48401-78-12		1.00		Lab Extraction ID =49038-60-09	1.0978	G_WET				T
42828-CONC-14B	48401-78-12		1.00		Lab Extraction ID =49038-60-09	1.0978	G_WET				T
42828-CONC-14B	48401-78-12		1.00		Lab Extraction ID =49038-60-09	1.0978	G_WET				T
42828-CONC-14B	48401-78-12		1.00		Lab Extraction ID =49038-60-09	1.0978	G_WET				T
42828-CONC-14B	48401-78-12		1.00		Lab Extraction ID =49038-60-09	1.0978	G_WET				T
42828-CONC-14B	48401-78-12		1.00		Lab Extraction ID =49038-60-09	1.0978	G_WET				T
42828-CONC-14B	48401-78-12		1.00		Lab Extraction ID =49038-60-09	1.0978	G_WET				T
42828-CONC-14B	48401-78-12		1.00		Lab Extraction ID =49038-60-09	1.0978	G_WET				T
42828-CONC-14B	48401-78-12		1.00		Lab Extraction ID =49038-60-09	1.0978	G_WET				T
42828-CONC-14C	48401-78-13		1.00		Lab Extraction ID =49038-60-10	0.8651	G_WET	2.83	U		T
42828-CONC-14C	48401-78-13		1.00		Lab Extraction ID =49038-60-10	0.8651	G_WET	420.57	J		T
42828-CONC-14C	48401-78-13		1.00		Lab Extraction ID =49038-60-10	0.8651	G_WET	11.66	U		T
42828-CONC-14C	48401-78-13		1.00		Lab Extraction ID =49038-60-10	0.8651	G_WET				T
42828-CONC-14C	48401-78-13		1.00		Lab Extraction ID =49038-60-10	0.8651	G_WET				T
42828-CONC-14C	48401-78-13		1.00		Lab Extraction ID =49038-60-10	0.8651	G_WET	491.06	UJ		T
42828-CONC-14C	48401-78-13		1.00		Lab Extraction ID =49038-60-10	0.8651	G_WET	9.29	U		T
42828-CONC-14C	48401-78-13		1.00		Lab Extraction ID =49038-60-10	0.8651	G_WET	162.96	U		T
42828-CONC-14C	48401-78-13		1.00		Lab Extraction ID =49038-60-10	0.8651	G_WET	424.21	J		T
42828-CONC-14C	48401-78-13		1.00		Lab Extraction ID =49038-60-10	0.8651	G_WET	33.23	U		T
42828-CONC-14C	48401-78-13		1.00		Lab Extraction ID =49038-60-10	0.8651	G_WET	33	U		T
42828-CONC-14C	48401-78-13		1.00		Lab Extraction ID =49038-60-10	0.8651	G_WET				T
42828-CONC-14C	48401-78-13		1.00		Lab Extraction ID =49038-60-10	0.8651	G_WET	2.34	U		T
42828-CONC-14C	48401-78-13		1.00		Lab Extraction ID =49038-60-10	0.8651	G_WET	1.58	U		T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
42828-CONC-14C	48401-78-13	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-81	70362-50-4	PCB	MOD 1668A	92	%RECOVERY			
42828-CONC-14C	48401-78-13	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-77	32598-13-3	PCB	MOD 1668A	88	%RECOVERY			
42828-CONC-14C	48401-78-13	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-123	65510-44-3	PCB	MOD 1668A	77	%RECOVERY			
42828-CONC-14C	48401-78-13	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-118	31508-00-6	PCB	MOD 1668A	79	%RECOVERY			
42828-CONC-14C	48401-78-13	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-114	74472-37-0	PCB	MOD 1668A	73	%RECOVERY			
42828-CONC-14C	48401-78-13	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-105	32598-14-4	PCB	MOD 1668A	80	%RECOVERY			
42828-CONC-14C	48401-78-13	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-126	57465-28-8	PCB	MOD 1668A	85	%RECOVERY			
42828-CONC-14C	48401-78-13	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-167	52663-72-6	PCB	MOD 1668A	80	%RECOVERY			
42828-CONC-14C	48401-78-13	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-156	38380-08-4	PCB	MOD 1668A	77	%RECOVERY			
42828-CONC-14C	48401-78-13	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-157	69782-90-7	PCB	MOD 1668A	77	%RECOVERY			
42828-CONC-14C	48401-78-13	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-169	32774-16-6	PCB	MOD 1668A	91	%RECOVERY			
42828-CONC-14C	48401-78-13	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-189	39635-31-9	PCB	MOD 1668A	81	%RECOVERY			
42828-CONC-14C	48401-78-13	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-28	7012-37-5	PCB	MOD 1668A	86	%RECOVERY			
42828-CONC-14C	48401-78-13	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-111	39635-32-0	PCB	MOD 1668A	74	%RECOVERY			
42828-CONC-14C	48401-78-13	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-178	52663-67-9	PCB	MOD 1668A	84	%RECOVERY			
42828-CONC-6A	48401-78-14	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-81	70362-50-4	PCB	MOD 1668A	2.86	pg/g - Wet Wt	J		669.43
42828-CONC-6A	48401-78-14	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-77	32598-13-3	PCB	MOD 1668A	998.88	pg/g - Wet Wt			669.43
42828-CONC-6A	48401-78-14	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-106	70424-69-0	PCB	MOD 1668A	9.94	pg/g - Wet Wt	JC		1338.86
42828-CONC-6A	48401-78-14	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		1338.86
42828-CONC-6A	48401-78-14	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		669.43
42828-CONC-6A	48401-78-14	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-118	31508-00-6	PCB	MOD 1668A	568.87	pg/g - Wet Wt	J		669.43
42828-CONC-6A	48401-78-14	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-114	74472-37-0	PCB	MOD 1668A	12.40	pg/g - Wet Wt	J		669.43
42828-CONC-6A	48401-78-14	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-105	32598-14-4	PCB	MOD 1668A	182.63	pg/g - Wet Wt	J		267.77
42828-CONC-6A	48401-78-14	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-126	57465-28-8	PCB	MOD 1668A	1184.38	pg/g - Wet Wt	J		1338.87
42828-CONC-6A	48401-78-14	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-167	52663-72-6	PCB	MOD 1668A	37.88	pg/g - Wet Wt	J		669.43
42828-CONC-6A	48401-78-14	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-156	38380-08-4	PCB	MOD 1668A	38.56	pg/g - Wet Wt	JC		669.43
42828-CONC-6A	48401-78-14	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	C156		669.43
42828-CONC-6A	48401-78-14	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-169	32774-16-6	PCB	MOD 1668A	2.78	pg/g - Wet Wt	J		669.43
42828-CONC-6A	48401-78-14	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-189	39635-31-9	PCB	MOD 1668A	2.48	pg/g - Wet Wt	J		669.43
42828-CONC-6A	48401-78-14	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-81	70362-50-4	PCB	MOD 1668A	77	%RECOVERY			
42828-CONC-6A	48401-78-14	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-77	32598-13-3	PCB	MOD 1668A	79	%RECOVERY			
42828-CONC-6A	48401-78-14	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-123	65510-44-3	PCB	MOD 1668A	72	%RECOVERY			
42828-CONC-6A	48401-78-14	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-118	31508-00-6	PCB	MOD 1668A	73	%RECOVERY			
42828-CONC-6A	48401-78-14	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-114	74472-37-0	PCB	MOD 1668A	67	%RECOVERY			
42828-CONC-6A	48401-78-14	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-105	32598-14-4	PCB	MOD 1668A	77	%RECOVERY			
42828-CONC-6A	48401-78-14	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-126	57465-28-8	PCB	MOD 1668A	79	%RECOVERY			
42828-CONC-6A	48401-78-14	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-167	52663-72-6	PCB	MOD 1668A	74	%RECOVERY			
42828-CONC-6A	48401-78-14	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-156	38380-08-4	PCB	MOD 1668A	70	%RECOVERY			
42828-CONC-6A	48401-78-14	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-157	69782-90-7	PCB	MOD 1668A	70	%RECOVERY			
42828-CONC-6A	48401-78-14	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-169	32774-16-6	PCB	MOD 1668A	87	%RECOVERY			
42828-CONC-6A	48401-78-14	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-189	39635-31-9	PCB	MOD 1668A	74	%RECOVERY			
42828-CONC-6A	48401-78-14	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-28	7012-37-5	PCB	MOD 1668A	82	%RECOVERY			
42828-CONC-6A	48401-78-14	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-111	39635-32-0	PCB	MOD 1668A	78	%RECOVERY			
42828-CONC-6A	48401-78-14	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-178	52663-67-9	PCB	MOD 1668A	85	%RECOVERY			
42828-CONC-6B	48401-78-15	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-81	70362-50-4	PCB	MOD 1668A	2.88	pg/g - Wet Wt	J		643.67
42828-CONC-6B	48401-78-15	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-77	32598-13-3	PCB	MOD 1668A	955.91	pg/g - Wet Wt			643.67
42828-CONC-6B	48401-78-15	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-106	70424-69-0	PCB	MOD 1668A	10.81	pg/g - Wet Wt	JC		1287.34
42828-CONC-6B	48401-78-15	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		1287.34
42828-CONC-6B	48401-78-15	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		643.67
42828-CONC-6B	48401-78-15	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-118	31508-00-6	PCB	MOD 1668A	555.29	pg/g - Wet Wt	J		643.67
42828-CONC-6B	48401-78-15	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-114	74472-37-0	PCB	MOD 1668A	10.08	pg/g - Wet Wt	J		643.67
42828-CONC-6B	48401-78-15	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-105	32598-14-4	PCB	MOD 1668A	222.40	pg/g - Wet Wt	J		257.47
42828-CONC-6B	48401-78-15	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-126	57465-28-8	PCB	MOD 1668A	1068.58	pg/g - Wet Wt	J		1287.33
42828-CONC-6B	48401-78-15	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-167	52663-72-6	PCB	MOD 1668A	40.45	pg/g - Wet Wt	J		643.67
42828-CONC-6B	48401-78-15	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-156	38380-08-4	PCB	MOD 1668A	55.30	pg/g - Wet Wt	JC		643.67

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
42828-CONC-14C	48401-78-13		1.00		Lab Extraction ID =49038-60-10	0.8651	G_WET				T
42828-CONC-14C	48401-78-13		1.00		Lab Extraction ID =49038-60-10	0.8651	G_WET				T
42828-CONC-14C	48401-78-13		1.00		Lab Extraction ID =49038-60-10	0.8651	G_WET				T
42828-CONC-14C	48401-78-13		1.00		Lab Extraction ID =49038-60-10	0.8651	G_WET				T
42828-CONC-14C	48401-78-13		1.00		Lab Extraction ID =49038-60-10	0.8651	G_WET				T
42828-CONC-14C	48401-78-13		1.00		Lab Extraction ID =49038-60-10	0.8651	G_WET				T
42828-CONC-14C	48401-78-13		1.00		Lab Extraction ID =49038-60-10	0.8651	G_WET				T
42828-CONC-14C	48401-78-13		1.00		Lab Extraction ID =49038-60-10	0.8651	G_WET				T
42828-CONC-14C	48401-78-13		1.00		Lab Extraction ID =49038-60-10	0.8651	G_WET				T
42828-CONC-14C	48401-78-13		1.00		Lab Extraction ID =49038-60-10	0.8651	G_WET				T
42828-CONC-14C	48401-78-13		1.00		Lab Extraction ID =49038-60-10	0.8651	G_WET				T
42828-CONC-14C	48401-78-13		1.00		Lab Extraction ID =49038-60-10	0.8651	G_WET				T
42828-CONC-14C	48401-78-13		1.00		Lab Extraction ID =49038-60-10	0.8651	G_WET				T
42828-CONC-14C	48401-78-13		1.00		Lab Extraction ID =49038-60-10	0.8651	G_WET				T
42828-CONC-6A	48401-78-14		1.00		Lab Extraction ID =49038-60-11	0.7469	G_WET	2.86	U		T
42828-CONC-6A	48401-78-14		1.00		Lab Extraction ID =49038-60-11	0.7469	G_WET	998.88			T
42828-CONC-6A	48401-78-14		1.00		Lab Extraction ID =49038-60-11	0.7469	G_WET	9.94	U		T
42828-CONC-6A	48401-78-14		1.00		Lab Extraction ID =49038-60-11	0.7469	G_WET				T
42828-CONC-6A	48401-78-14		1.00		Lab Extraction ID =49038-60-11	0.7469	G_WET				T
42828-CONC-6A	48401-78-14		1.00		Lab Extraction ID =49038-60-11	0.7469	G_WET	568.87	UJ		T
42828-CONC-6A	48401-78-14		1.00		Lab Extraction ID =49038-60-11	0.7469	G_WET	12.4	U		T
42828-CONC-6A	48401-78-14		1.00		Lab Extraction ID =49038-60-11	0.7469	G_WET	182.63	U		T
42828-CONC-6A	48401-78-14		1.00		Lab Extraction ID =49038-60-11	0.7469	G_WET	1184.38	J		T
42828-CONC-6A	48401-78-14		1.00		Lab Extraction ID =49038-60-11	0.7469	G_WET	37.88	U		T
42828-CONC-6A	48401-78-14		1.00		Lab Extraction ID =49038-60-11	0.7469	G_WET	38.56	U		T
42828-CONC-6A	48401-78-14		1.00		Lab Extraction ID =49038-60-11	0.7469	G_WET				T
42828-CONC-6A	48401-78-14		1.00		Lab Extraction ID =49038-60-11	0.7469	G_WET	2.78	U		T
42828-CONC-6A	48401-78-14		1.00		Lab Extraction ID =49038-60-11	0.7469	G_WET	2.48	U		T
42828-CONC-6A	48401-78-14		1.00		Lab Extraction ID =49038-60-11	0.7469	G_WET				T
42828-CONC-6A	48401-78-14		1.00		Lab Extraction ID =49038-60-11	0.7469	G_WET				T
42828-CONC-6A	48401-78-14		1.00		Lab Extraction ID =49038-60-11	0.7469	G_WET				T
42828-CONC-6A	48401-78-14		1.00		Lab Extraction ID =49038-60-11	0.7469	G_WET				T
42828-CONC-6A	48401-78-14		1.00		Lab Extraction ID =49038-60-11	0.7469	G_WET				T
42828-CONC-6A	48401-78-14		1.00		Lab Extraction ID =49038-60-11	0.7469	G_WET				T
42828-CONC-6A	48401-78-14		1.00		Lab Extraction ID =49038-60-11	0.7469	G_WET				T
42828-CONC-6A	48401-78-14		1.00		Lab Extraction ID =49038-60-11	0.7469	G_WET				T
42828-CONC-6A	48401-78-14		1.00		Lab Extraction ID =49038-60-11	0.7469	G_WET				T
42828-CONC-6A	48401-78-14		1.00		Lab Extraction ID =49038-60-11	0.7469	G_WET				T
42828-CONC-6A	48401-78-14		1.00		Lab Extraction ID =49038-60-11	0.7469	G_WET				T
42828-CONC-6A	48401-78-14		1.00		Lab Extraction ID =49038-60-11	0.7469	G_WET				T
42828-CONC-6A	48401-78-14		1.00		Lab Extraction ID =49038-60-11	0.7469	G_WET				T
42828-CONC-6A	48401-78-14		1.00		Lab Extraction ID =49038-60-11	0.7469	G_WET				T
42828-CONC-6A	48401-78-14		1.00		Lab Extraction ID =49038-60-11	0.7469	G_WET				T
42828-CONC-6B	48401-78-15		1.00		Lab Extraction ID =49038-60-12	0.7768	G_WET	2.88	U		T
42828-CONC-6B	48401-78-15		1.00		Lab Extraction ID =49038-60-12	0.7768	G_WET	955.91			T
42828-CONC-6B	48401-78-15		1.00		Lab Extraction ID =49038-60-12	0.7768	G_WET	10.81	U		T
42828-CONC-6B	48401-78-15		1.00		Lab Extraction ID =49038-60-12	0.7768	G_WET				T
42828-CONC-6B	48401-78-15		1.00		Lab Extraction ID =49038-60-12	0.7768	G_WET				T
42828-CONC-6B	48401-78-15		1.00		Lab Extraction ID =49038-60-12	0.7768	G_WET	555.29	UJ		T
42828-CONC-6B	48401-78-15		1.00		Lab Extraction ID =49038-60-12	0.7768	G_WET	10.08	U		T
42828-CONC-6B	48401-78-15		1.00		Lab Extraction ID =49038-60-12	0.7768	G_WET	222.4	U		T
42828-CONC-6B	48401-78-15		1.00		Lab Extraction ID =49038-60-12	0.7768	G_WET	1068.58	J		T
42828-CONC-6B	48401-78-15		1.00		Lab Extraction ID =49038-60-12	0.7768	G_WET	40.45	U		T
42828-CONC-6B	48401-78-15		1.00		Lab Extraction ID =49038-60-12	0.7768	G_WET	55.3	U		T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
42828-CONC-6B	48401-78-15	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	C156		643.67
42828-CONC-6B	48401-78-15	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-169	32774-16-6	PCB	MOD 1668A	5.59	pg/g - Wet Wt	J		643.67
42828-CONC-6B	48401-78-15	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-189	39635-31-9	PCB	MOD 1668A	4.14	pg/g - Wet Wt	J		643.67
42828-CONC-6B	48401-78-15	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-81	70362-50-4	PCB	MOD 1668A	55	%RECOVERY			
42828-CONC-6B	48401-78-15	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-77	32598-13-3	PCB	MOD 1668A	55	%RECOVERY			
42828-CONC-6B	48401-78-15	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-123	65510-44-3	PCB	MOD 1668A	50	%RECOVERY			
42828-CONC-6B	48401-78-15	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-118	31508-00-6	PCB	MOD 1668A	49	%RECOVERY			
42828-CONC-6B	48401-78-15	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-114	74472-37-0	PCB	MOD 1668A	45	%RECOVERY			
42828-CONC-6B	48401-78-15	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-105	32598-14-4	PCB	MOD 1668A	52	%RECOVERY			
42828-CONC-6B	48401-78-15	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-126	57465-28-8	PCB	MOD 1668A	55	%RECOVERY			
42828-CONC-6B	48401-78-15	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-167	52663-72-6	PCB	MOD 1668A	51	%RECOVERY			
42828-CONC-6B	48401-78-15	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-156	38380-08-4	PCB	MOD 1668A	49	%RECOVERY			
42828-CONC-6B	48401-78-15	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-157	69782-90-7	PCB	MOD 1668A	49	%RECOVERY			
42828-CONC-6B	48401-78-15	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-169	32774-16-6	PCB	MOD 1668A	61	%RECOVERY			
42828-CONC-6B	48401-78-15	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-189	39635-31-9	PCB	MOD 1668A	51	%RECOVERY			
42828-CONC-6B	48401-78-15	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-28	7012-37-5	PCB	MOD 1668A	58	%RECOVERY			
42828-CONC-6B	48401-78-15	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-111	39635-32-0	PCB	MOD 1668A	49	%RECOVERY			
42828-CONC-6B	48401-78-15	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-178	52663-67-9	PCB	MOD 1668A	54	%RECOVERY			
42828-CONC-6C	48401-78-16	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-81	70362-50-4	PCB	MOD 1668A	437.10	pg/g - Wet Wt	U		437.10
42828-CONC-6C	48401-78-16	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-77	32598-13-3	PCB	MOD 1668A	718.95	pg/g - Wet Wt			437.10
42828-CONC-6C	48401-78-16	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-106	70424-69-0	PCB	MOD 1668A	7.61	pg/g - Wet Wt	JC		874.20
42828-CONC-6C	48401-78-16	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		874.20
42828-CONC-6C	48401-78-16	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		437.10
42828-CONC-6C	48401-78-16	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-118	31508-00-6	PCB	MOD 1668A	389.32	pg/g - Wet Wt	J		437.10
42828-CONC-6C	48401-78-16	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-114	74472-37-0	PCB	MOD 1668A	7.44	pg/g - Wet Wt	J		437.10
42828-CONC-6C	48401-78-16	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-105	32598-14-4	PCB	MOD 1668A	128.05	pg/g - Wet Wt	J		174.84
42828-CONC-6C	48401-78-16	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-126	57465-28-8	PCB	MOD 1668A	874.51	pg/g - Wet Wt			874.20
42828-CONC-6C	48401-78-16	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-167	52663-72-6	PCB	MOD 1668A	22.63	pg/g - Wet Wt	J		437.10
42828-CONC-6C	48401-78-16	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-156	38380-08-4	PCB	MOD 1668A	30.32	pg/g - Wet Wt	JC		437.10
42828-CONC-6C	48401-78-16	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	C156		437.10
42828-CONC-6C	48401-78-16	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-169	32774-16-6	PCB	MOD 1668A	3.09	pg/g - Wet Wt	J		437.10
42828-CONC-6C	48401-78-16	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	PCB-189	39635-31-9	PCB	MOD 1668A	2.30	pg/g - Wet Wt	J		437.10
42828-CONC-6C	48401-78-16	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-81	70362-50-4	PCB	MOD 1668A	73	%RECOVERY			
42828-CONC-6C	48401-78-16	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-77	32598-13-3	PCB	MOD 1668A	64	%RECOVERY			
42828-CONC-6C	48401-78-16	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-123	65510-44-3	PCB	MOD 1668A	68	%RECOVERY			
42828-CONC-6C	48401-78-16	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-118	31508-00-6	PCB	MOD 1668A	67	%RECOVERY			
42828-CONC-6C	48401-78-16	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-114	74472-37-0	PCB	MOD 1668A	62	%RECOVERY			
42828-CONC-6C	48401-78-16	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-105	32598-14-4	PCB	MOD 1668A	68	%RECOVERY			
42828-CONC-6C	48401-78-16	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-126	57465-28-8	PCB	MOD 1668A	64	%RECOVERY			
42828-CONC-6C	48401-78-16	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-167	52663-72-6	PCB	MOD 1668A	69	%RECOVERY			
42828-CONC-6C	48401-78-16	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-156	38380-08-4	PCB	MOD 1668A	65	%RECOVERY			
42828-CONC-6C	48401-78-16	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-157	69782-90-7	PCB	MOD 1668A	65	%RECOVERY			
42828-CONC-6C	48401-78-16	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-169	32774-16-6	PCB	MOD 1668A	72	%RECOVERY			
42828-CONC-6C	48401-78-16	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-189	39635-31-9	PCB	MOD 1668A	78	%RECOVERY			
42828-CONC-6C	48401-78-16	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-28	7012-37-5	PCB	MOD 1668A	79	%RECOVERY			
42828-CONC-6C	48401-78-16	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-111	39635-32-0	PCB	MOD 1668A	71	%RECOVERY			
42828-CONC-6C	48401-78-16	BCO	NORMAL	07/14/01	10/17/2001	12/6/2001		49038-60	13C-PCB-178	52663-67-9	PCB	MOD 1668A	75	%RECOVERY			
42828-CONC-9A	48401-78-17	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-81	70362-50-4	PCB	MOD 1668A	1.81	pg/g - Wet Wt	J		565.42
42828-CONC-9A	48401-78-17	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-77	32598-13-3	PCB	MOD 1668A	1338.00	pg/g - Wet Wt			565.42
42828-CONC-9A	48401-78-17	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-106	70424-69-0	PCB	MOD 1668A	9.37	pg/g - Wet Wt	JC		1130.84
42828-CONC-9A	48401-78-17	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		1130.84
42828-CONC-9A	48401-78-17	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		565.42
42828-CONC-9A	48401-78-17	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-118	31508-00-6	PCB	MOD 1668A	539.62	pg/g - Wet Wt	J		565.42
42828-CONC-9A	48401-78-17	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-114	74472-37-0	PCB	MOD 1668A	7.33	pg/g - Wet Wt	J		565.42
42828-CONC-9A	48401-78-17	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-105	32598-14-4	PCB	MOD 1668A	179.02	pg/g - Wet Wt	J		226.17

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
42828-CONC-6B	48401-78-15		1.00		Lab Extraction ID =49038-60-12	0.7768	G_WET				T
42828-CONC-6B	48401-78-15		1.00		Lab Extraction ID =49038-60-12	0.7768	G_WET	5.59	U		T
42828-CONC-6B	48401-78-15		1.00		Lab Extraction ID =49038-60-12	0.7768	G_WET	4.14	U		T
42828-CONC-6B	48401-78-15		1.00		Lab Extraction ID =49038-60-12	0.7768	G_WET				T
42828-CONC-6B	48401-78-15		1.00		Lab Extraction ID =49038-60-12	0.7768	G_WET				T
42828-CONC-6B	48401-78-15		1.00		Lab Extraction ID =49038-60-12	0.7768	G_WET				T
42828-CONC-6B	48401-78-15		1.00		Lab Extraction ID =49038-60-12	0.7768	G_WET				T
42828-CONC-6B	48401-78-15		1.00		Lab Extraction ID =49038-60-12	0.7768	G_WET				T
42828-CONC-6B	48401-78-15		1.00		Lab Extraction ID =49038-60-12	0.7768	G_WET				T
42828-CONC-6B	48401-78-15		1.00		Lab Extraction ID =49038-60-12	0.7768	G_WET				T
42828-CONC-6B	48401-78-15		1.00		Lab Extraction ID =49038-60-12	0.7768	G_WET				T
42828-CONC-6B	48401-78-15		1.00		Lab Extraction ID =49038-60-12	0.7768	G_WET				T
42828-CONC-6B	48401-78-15		1.00		Lab Extraction ID =49038-60-12	0.7768	G_WET				T
42828-CONC-6B	48401-78-15		1.00		Lab Extraction ID =49038-60-12	0.7768	G_WET				T
42828-CONC-6B	48401-78-15		1.00		Lab Extraction ID =49038-60-12	0.7768	G_WET				T
42828-CONC-6B	48401-78-15		1.00		Lab Extraction ID =49038-60-12	0.7768	G_WET				T
42828-CONC-6B	48401-78-15		1.00		Lab Extraction ID =49038-60-12	0.7768	G_WET				T
42828-CONC-6C	48401-78-16		1.00		Lab Extraction ID =49038-60-13	1.1439	G_WET	437.1	U		T
42828-CONC-6C	48401-78-16		1.00		Lab Extraction ID =49038-60-13	1.1439	G_WET	718.95			T
42828-CONC-6C	48401-78-16		1.00		Lab Extraction ID =49038-60-13	1.1439	G_WET	7.61	U		T
42828-CONC-6C	48401-78-16		1.00		Lab Extraction ID =49038-60-13	1.1439	G_WET				T
42828-CONC-6C	48401-78-16		1.00		Lab Extraction ID =49038-60-13	1.1439	G_WET				T
42828-CONC-6C	48401-78-16		1.00		Lab Extraction ID =49038-60-13	1.1439	G_WET	389.32	UJ		T
42828-CONC-6C	48401-78-16		1.00		Lab Extraction ID =49038-60-13	1.1439	G_WET	7.44	U		T
42828-CONC-6C	48401-78-16		1.00		Lab Extraction ID =49038-60-13	1.1439	G_WET	128.05	U		T
42828-CONC-6C	48401-78-16		1.00		Lab Extraction ID =49038-60-13	1.1439	G_WET	874.51			T
42828-CONC-6C	48401-78-16		1.00		Lab Extraction ID =49038-60-13	1.1439	G_WET	22.63	U		T
42828-CONC-6C	48401-78-16		1.00		Lab Extraction ID =49038-60-13	1.1439	G_WET	30.32	U		T
42828-CONC-6C	48401-78-16		1.00		Lab Extraction ID =49038-60-13	1.1439	G_WET				T
42828-CONC-6C	48401-78-16		1.00		Lab Extraction ID =49038-60-13	1.1439	G_WET	3.09	U		T
42828-CONC-6C	48401-78-16		1.00		Lab Extraction ID =49038-60-13	1.1439	G_WET	2.3	U		T
42828-CONC-6C	48401-78-16		1.00		Lab Extraction ID =49038-60-13	1.1439	G_WET				T
42828-CONC-6C	48401-78-16		1.00		Lab Extraction ID =49038-60-13	1.1439	G_WET				T
42828-CONC-6C	48401-78-16		1.00		Lab Extraction ID =49038-60-13	1.1439	G_WET				T
42828-CONC-6C	48401-78-16		1.00		Lab Extraction ID =49038-60-13	1.1439	G_WET				T
42828-CONC-6C	48401-78-16		1.00		Lab Extraction ID =49038-60-13	1.1439	G_WET				T
42828-CONC-6C	48401-78-16		1.00		Lab Extraction ID =49038-60-13	1.1439	G_WET				T
42828-CONC-6C	48401-78-16		1.00		Lab Extraction ID =49038-60-13	1.1439	G_WET				T
42828-CONC-6C	48401-78-16		1.00		Lab Extraction ID =49038-60-13	1.1439	G_WET				T
42828-CONC-6C	48401-78-16		1.00		Lab Extraction ID =49038-60-13	1.1439	G_WET				T
42828-CONC-6C	48401-78-16		1.00		Lab Extraction ID =49038-60-13	1.1439	G_WET				T
42828-CONC-6C	48401-78-16		1.00		Lab Extraction ID =49038-60-13	1.1439	G_WET				T
42828-CONC-6C	48401-78-16		1.00		Lab Extraction ID =49038-60-13	1.1439	G_WET				T
42828-CONC-9A	48401-78-17		1.00		Lab Extraction ID =49038-60-14	0.8843	G_WET	1.81	U		T
42828-CONC-9A	48401-78-17		1.00		Lab Extraction ID =49038-60-14	0.8843	G_WET	1338			T
42828-CONC-9A	48401-78-17		1.00		Lab Extraction ID =49038-60-14	0.8843	G_WET	9.37	U		T
42828-CONC-9A	48401-78-17		1.00		Lab Extraction ID =49038-60-14	0.8843	G_WET				T
42828-CONC-9A	48401-78-17		1.00		Lab Extraction ID =49038-60-14	0.8843	G_WET				T
42828-CONC-9A	48401-78-17		1.00		Lab Extraction ID =49038-60-14	0.8843	G_WET	539.62	UJ		T
42828-CONC-9A	48401-78-17		1.00		Lab Extraction ID =49038-60-14	0.8843	G_WET	7.33	U		T
42828-CONC-9A	48401-78-17		1.00		Lab Extraction ID =49038-60-14	0.8843	G_WET	179.02	U		T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
42828-CONC-9A	48401-78-17	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-126	57465-28-8	PCB	MOD 1668A	1084.91	pg/g - Wet Wt	J		1130.84
42828-CONC-9A	48401-78-17	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-167	52663-72-6	PCB	MOD 1668A	31.12	pg/g - Wet Wt	J		565.42
42828-CONC-9A	48401-78-17	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-156	38380-08-4	PCB	MOD 1668A	35.78	pg/g - Wet Wt	JC		565.42
42828-CONC-9A	48401-78-17	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	C156		565.42
42828-CONC-9A	48401-78-17	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-169	32774-16-6	PCB	MOD 1668A	2.49	pg/g - Wet Wt	J		565.42
42828-CONC-9A	48401-78-17	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-189	39635-31-9	PCB	MOD 1668A	1.77	pg/g - Wet Wt	J		565.42
42828-CONC-9A	48401-78-17	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-81	70362-50-4	PCB	MOD 1668A	102	%RECOVERY			
42828-CONC-9A	48401-78-17	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-77	32598-13-3	PCB	MOD 1668A	92	%RECOVERY			
42828-CONC-9A	48401-78-17	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-123	65510-44-3	PCB	MOD 1668A	83	%RECOVERY			
42828-CONC-9A	48401-78-17	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-118	31508-00-6	PCB	MOD 1668A	83	%RECOVERY			
42828-CONC-9A	48401-78-17	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-114	74472-37-0	PCB	MOD 1668A	75	%RECOVERY			
42828-CONC-9A	48401-78-17	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-105	32598-14-4	PCB	MOD 1668A	83	%RECOVERY			
42828-CONC-9A	48401-78-17	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-126	57465-28-8	PCB	MOD 1668A	93	%RECOVERY			
42828-CONC-9A	48401-78-17	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-167	52663-72-6	PCB	MOD 1668A	83	%RECOVERY			
42828-CONC-9A	48401-78-17	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-156	38380-08-4	PCB	MOD 1668A	78	%RECOVERY			
42828-CONC-9A	48401-78-17	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-157	69782-90-7	PCB	MOD 1668A	78	%RECOVERY			
42828-CONC-9A	48401-78-17	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-169	32774-16-6	PCB	MOD 1668A	106	%RECOVERY			
42828-CONC-9A	48401-78-17	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-189	39635-31-9	PCB	MOD 1668A	95	%RECOVERY			
42828-CONC-9A	48401-78-17	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-28	7012-37-5	PCB	MOD 1668A	95	%RECOVERY			
42828-CONC-9A	48401-78-17	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-111	39635-32-0	PCB	MOD 1668A	82	%RECOVERY			
42828-CONC-9A	48401-78-17	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-178	52663-67-9	PCB	MOD 1668A	88	%RECOVERY			
42828-CONC-9B	48401-78-18	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-81	70362-50-4	PCB	MOD 1668A	529.83	pg/g - Wet Wt	U		529.83
42828-CONC-9B	48401-78-18	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-77	32598-13-3	PCB	MOD 1668A	1177.07	pg/g - Wet Wt			529.83
42828-CONC-9B	48401-78-18	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-106	70424-69-0	PCB	MOD 1668A	9.24	pg/g - Wet Wt	JC		1059.66
42828-CONC-9B	48401-78-18	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		1059.66
42828-CONC-9B	48401-78-18	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		529.83
42828-CONC-9B	48401-78-18	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-118	31508-00-6	PCB	MOD 1668A	447.60	pg/g - Wet Wt	J		529.83
42828-CONC-9B	48401-78-18	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-114	74472-37-0	PCB	MOD 1668A	8.00	pg/g - Wet Wt	J		529.83
42828-CONC-9B	48401-78-18	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-105	32598-14-4	PCB	MOD 1668A	149.01	pg/g - Wet Wt	J		211.93
42828-CONC-9B	48401-78-18	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-126	57465-28-8	PCB	MOD 1668A	1460.03	pg/g - Wet Wt			1059.66
42828-CONC-9B	48401-78-18	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-167	52663-72-6	PCB	MOD 1668A	26.87	pg/g - Wet Wt	J		529.83
42828-CONC-9B	48401-78-18	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-156	38380-08-4	PCB	MOD 1668A	39.82	pg/g - Wet Wt	JC		529.83
42828-CONC-9B	48401-78-18	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	C156		529.83
42828-CONC-9B	48401-78-18	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-169	32774-16-6	PCB	MOD 1668A	1.39	pg/g - Wet Wt	J		529.83
42828-CONC-9B	48401-78-18	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-189	39635-31-9	PCB	MOD 1668A	6.35	pg/g - Wet Wt	J		529.83
42828-CONC-9B	48401-78-18	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-81	70362-50-4	PCB	MOD 1668A	90	%RECOVERY			
42828-CONC-9B	48401-78-18	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-77	32598-13-3	PCB	MOD 1668A	73	%RECOVERY			
42828-CONC-9B	48401-78-18	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-123	65510-44-3	PCB	MOD 1668A	72	%RECOVERY			
42828-CONC-9B	48401-78-18	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-118	31508-00-6	PCB	MOD 1668A	73	%RECOVERY			
42828-CONC-9B	48401-78-18	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-114	74472-37-0	PCB	MOD 1668A	67	%RECOVERY			
42828-CONC-9B	48401-78-18	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-105	32598-14-4	PCB	MOD 1668A	74	%RECOVERY			
42828-CONC-9B	48401-78-18	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-126	57465-28-8	PCB	MOD 1668A	81	%RECOVERY			
42828-CONC-9B	48401-78-18	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-167	52663-72-6	PCB	MOD 1668A	76	%RECOVERY			
42828-CONC-9B	48401-78-18	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-156	38380-08-4	PCB	MOD 1668A	71	%RECOVERY			
42828-CONC-9B	48401-78-18	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-157	69782-90-7	PCB	MOD 1668A	71	%RECOVERY			
42828-CONC-9B	48401-78-18	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-169	32774-16-6	PCB	MOD 1668A	93	%RECOVERY			
42828-CONC-9B	48401-78-18	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-189	39635-31-9	PCB	MOD 1668A	78	%RECOVERY			
42828-CONC-9B	48401-78-18	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-28	7012-37-5	PCB	MOD 1668A	75	%RECOVERY			
42828-CONC-9B	48401-78-18	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-111	39635-32-0	PCB	MOD 1668A	70	%RECOVERY			
42828-CONC-9B	48401-78-18	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-178	52663-67-9	PCB	MOD 1668A	76	%RECOVERY			
42828-CONC-9C	48401-78-19	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-81	70362-50-4	PCB	MOD 1668A	1.68	pg/g - Wet Wt	J		646.50
42828-CONC-9C	48401-78-19	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-77	32598-13-3	PCB	MOD 1668A	1813.44	pg/g - Wet Wt			646.50
42828-CONC-9C	48401-78-19	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-106	70424-69-0	PCB	MOD 1668A	11.00	pg/g - Wet Wt	JC		1293.00
42828-CONC-9C	48401-78-19	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		1293.00
42828-CONC-9C	48401-78-19	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		646.50

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
42828-CONC-9A	48401-78-17		1.00		Lab Extraction ID =49038-60-14	0.8843	G_WET	1084.91	J		T
42828-CONC-9A	48401-78-17		1.00		Lab Extraction ID =49038-60-14	0.8843	G_WET	31.12	U		T
42828-CONC-9A	48401-78-17		1.00		Lab Extraction ID =49038-60-14	0.8843	G_WET	35.78	U		T
42828-CONC-9A	48401-78-17		1.00		Lab Extraction ID =49038-60-14	0.8843	G_WET				T
42828-CONC-9A	48401-78-17		1.00		Lab Extraction ID =49038-60-14	0.8843	G_WET	2.49	U		T
42828-CONC-9A	48401-78-17		1.00		Lab Extraction ID =49038-60-14	0.8843	G_WET	1.77	U		T
42828-CONC-9A	48401-78-17		1.00		Lab Extraction ID =49038-60-14	0.8843	G_WET				T
42828-CONC-9A	48401-78-17		1.00		Lab Extraction ID =49038-60-14	0.8843	G_WET				T
42828-CONC-9A	48401-78-17		1.00		Lab Extraction ID =49038-60-14	0.8843	G_WET				T
42828-CONC-9A	48401-78-17		1.00		Lab Extraction ID =49038-60-14	0.8843	G_WET				T
42828-CONC-9A	48401-78-17		1.00		Lab Extraction ID =49038-60-14	0.8843	G_WET				T
42828-CONC-9A	48401-78-17		1.00		Lab Extraction ID =49038-60-14	0.8843	G_WET				T
42828-CONC-9A	48401-78-17		1.00		Lab Extraction ID =49038-60-14	0.8843	G_WET				T
42828-CONC-9A	48401-78-17		1.00		Lab Extraction ID =49038-60-14	0.8843	G_WET				T
42828-CONC-9A	48401-78-17		1.00		Lab Extraction ID =49038-60-14	0.8843	G_WET				T
42828-CONC-9A	48401-78-17		1.00		Lab Extraction ID =49038-60-14	0.8843	G_WET				T
42828-CONC-9A	48401-78-17		1.00		Lab Extraction ID =49038-60-14	0.8843	G_WET				T
42828-CONC-9A	48401-78-17		1.00		Lab Extraction ID =49038-60-14	0.8843	G_WET				T
42828-CONC-9B	48401-78-18		1.00		Lab Extraction ID =49038-60-15	0.9437	G_WET	529.83	U		T
42828-CONC-9B	48401-78-18		1.00		Lab Extraction ID =49038-60-15	0.9437	G_WET	1177.07			T
42828-CONC-9B	48401-78-18		1.00		Lab Extraction ID =49038-60-15	0.9437	G_WET	9.24	U		T
42828-CONC-9B	48401-78-18		1.00		Lab Extraction ID =49038-60-15	0.9437	G_WET				T
42828-CONC-9B	48401-78-18		1.00		Lab Extraction ID =49038-60-15	0.9437	G_WET				T
42828-CONC-9B	48401-78-18		1.00		Lab Extraction ID =49038-60-15	0.9437	G_WET	447.6	UJ		T
42828-CONC-9B	48401-78-18		1.00		Lab Extraction ID =49038-60-15	0.9437	G_WET	8	U		T
42828-CONC-9B	48401-78-18		1.00		Lab Extraction ID =49038-60-15	0.9437	G_WET	149.01	U		T
42828-CONC-9B	48401-78-18		1.00		Lab Extraction ID =49038-60-15	0.9437	G_WET	1460.03			T
42828-CONC-9B	48401-78-18		1.00		Lab Extraction ID =49038-60-15	0.9437	G_WET	26.87	U		T
42828-CONC-9B	48401-78-18		1.00		Lab Extraction ID =49038-60-15	0.9437	G_WET	39.82	U		T
42828-CONC-9B	48401-78-18		1.00		Lab Extraction ID =49038-60-15	0.9437	G_WET				T
42828-CONC-9B	48401-78-18		1.00		Lab Extraction ID =49038-60-15	0.9437	G_WET	1.39	U		T
42828-CONC-9B	48401-78-18		1.00		Lab Extraction ID =49038-60-15	0.9437	G_WET	6.35	U		T
42828-CONC-9B	48401-78-18		1.00		Lab Extraction ID =49038-60-15	0.9437	G_WET				T
42828-CONC-9B	48401-78-18		1.00		Lab Extraction ID =49038-60-15	0.9437	G_WET				T
42828-CONC-9B	48401-78-18		1.00		Lab Extraction ID =49038-60-15	0.9437	G_WET				T
42828-CONC-9B	48401-78-18		1.00		Lab Extraction ID =49038-60-15	0.9437	G_WET				T
42828-CONC-9B	48401-78-18		1.00		Lab Extraction ID =49038-60-15	0.9437	G_WET				T
42828-CONC-9B	48401-78-18		1.00		Lab Extraction ID =49038-60-15	0.9437	G_WET				T
42828-CONC-9B	48401-78-18		1.00		Lab Extraction ID =49038-60-15	0.9437	G_WET				T
42828-CONC-9B	48401-78-18		1.00		Lab Extraction ID =49038-60-15	0.9437	G_WET				T
42828-CONC-9B	48401-78-18		1.00		Lab Extraction ID =49038-60-15	0.9437	G_WET				T
42828-CONC-9B	48401-78-18		1.00		Lab Extraction ID =49038-60-15	0.9437	G_WET				T
42828-CONC-9B	48401-78-18		1.00		Lab Extraction ID =49038-60-15	0.9437	G_WET				T
42828-CONC-9B	48401-78-18		1.00		Lab Extraction ID =49038-60-15	0.9437	G_WET				T
42828-CONC-9B	48401-78-18		1.00		Lab Extraction ID =49038-60-15	0.9437	G_WET				T
42828-CONC-9C	48401-78-19		1.00		Lab Extraction ID =49038-60-16	0.7734	G_WET	1.68	U		T
42828-CONC-9C	48401-78-19		1.00		Lab Extraction ID =49038-60-16	0.7734	G_WET	1813.44			T
42828-CONC-9C	48401-78-19		1.00		Lab Extraction ID =49038-60-16	0.7734	G_WET	11	U		T
42828-CONC-9C	48401-78-19		1.00		Lab Extraction ID =49038-60-16	0.7734	G_WET				T
42828-CONC-9C	48401-78-19		1.00		Lab Extraction ID =49038-60-16	0.7734	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
42828-CONC-9C	48401-78-19	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-118	31508-00-6	PCB	MOD 1668A	643.67	pg/g - Wet Wt	J		646.50
42828-CONC-9C	48401-78-19	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-114	74472-37-0	PCB	MOD 1668A	13.72	pg/g - Wet Wt	J		646.50
42828-CONC-9C	48401-78-19	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-105	32598-14-4	PCB	MOD 1668A	222.61	pg/g - Wet Wt	J		258.60
42828-CONC-9C	48401-78-19	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-126	57465-28-8	PCB	MOD 1668A	2249.44	pg/g - Wet Wt			1292.99
42828-CONC-9C	48401-78-19	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-167	52663-72-6	PCB	MOD 1668A	33.22	pg/g - Wet Wt	J		646.50
42828-CONC-9C	48401-78-19	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-156	38380-08-4	PCB	MOD 1668A	43.66	pg/g - Wet Wt	JC		646.50
42828-CONC-9C	48401-78-19	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	C156		646.50
42828-CONC-9C	48401-78-19	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-169	32774-16-6	PCB	MOD 1668A	3.60	pg/g - Wet Wt	J		646.50
42828-CONC-9C	48401-78-19	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-189	39635-31-9	PCB	MOD 1668A	1.32	pg/g - Wet Wt	J		646.50
42828-CONC-9C	48401-78-19	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-81	70362-50-4	PCB	MOD 1668A	86	%RECOVERY			
42828-CONC-9C	48401-78-19	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-77	32598-13-3	PCB	MOD 1668A	75	%RECOVERY			
42828-CONC-9C	48401-78-19	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-123	65510-44-3	PCB	MOD 1668A	70	%RECOVERY			
42828-CONC-9C	48401-78-19	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-118	31508-00-6	PCB	MOD 1668A	69	%RECOVERY			
42828-CONC-9C	48401-78-19	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-114	74472-37-0	PCB	MOD 1668A	62	%RECOVERY			
42828-CONC-9C	48401-78-19	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-105	32598-14-4	PCB	MOD 1668A	71	%RECOVERY			
42828-CONC-9C	48401-78-19	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-126	57465-28-8	PCB	MOD 1668A	76	%RECOVERY			
42828-CONC-9C	48401-78-19	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-167	52663-72-6	PCB	MOD 1668A	67	%RECOVERY			
42828-CONC-9C	48401-78-19	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-156	38380-08-4	PCB	MOD 1668A	65	%RECOVERY			
42828-CONC-9C	48401-78-19	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-157	69782-90-7	PCB	MOD 1668A	65	%RECOVERY			
42828-CONC-9C	48401-78-19	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-169	32774-16-6	PCB	MOD 1668A	84	%RECOVERY			
42828-CONC-9C	48401-78-19	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-189	39635-31-9	PCB	MOD 1668A	77	%RECOVERY			
42828-CONC-9C	48401-78-19	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-28	7012-37-5	PCB	MOD 1668A	76	%RECOVERY			
42828-CONC-9C	48401-78-19	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-111	39635-32-0	PCB	MOD 1668A	68	%RECOVERY			
42828-CONC-9C	48401-78-19	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-178	52663-67-9	PCB	MOD 1668A	71	%RECOVERY			
42828-CONC-3A	48401-78-02	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-81	70362-50-4	PCB	MOD 1668A	1.60	pg/g - Wet Wt	J		474.02
42828-CONC-3A	48401-78-02	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-77	32598-13-3	PCB	MOD 1668A	13.16	pg/g - Wet Wt	J		474.02
42828-CONC-3A	48401-78-02	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-106	70424-69-0	PCB	MOD 1668A	7.40	pg/g - Wet Wt	JC		948.04
42828-CONC-3A	48401-78-02	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		948.04
42828-CONC-3A	48401-78-02	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		474.02
42828-CONC-3A	48401-78-02	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-118	31508-00-6	PCB	MOD 1668A	424.60	pg/g - Wet Wt	J		474.02
42828-CONC-3A	48401-78-02	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-114	74472-37-0	PCB	MOD 1668A	7.02	pg/g - Wet Wt	J		474.02
42828-CONC-3A	48401-78-02	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-105	32598-14-4	PCB	MOD 1668A	145.91	pg/g - Wet Wt	J		189.61
42828-CONC-3A	48401-78-02	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-126	57465-28-8	PCB	MOD 1668A	3.22	pg/g - Wet Wt	J		948.05
42828-CONC-3A	48401-78-02	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-167	52663-72-6	PCB	MOD 1668A	23.07	pg/g - Wet Wt	J		474.02
42828-CONC-3A	48401-78-02	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-156	38380-08-4	PCB	MOD 1668A	27.16	pg/g - Wet Wt	JC		474.02
42828-CONC-3A	48401-78-02	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	C156		474.02
42828-CONC-3A	48401-78-02	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-169	32774-16-6	PCB	MOD 1668A	1.55	pg/g - Wet Wt	J		474.02
42828-CONC-3A	48401-78-02	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-189	39635-31-9	PCB	MOD 1668A	1.59	pg/g - Wet Wt	J		474.02
42828-CONC-3A	48401-78-02	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-81	70362-50-4	PCB	MOD 1668A	94	%RECOVERY			
42828-CONC-3A	48401-78-02	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-77	32598-13-3	PCB	MOD 1668A	88	%RECOVERY			
42828-CONC-3A	48401-78-02	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-123	65510-44-3	PCB	MOD 1668A	78	%RECOVERY			
42828-CONC-3A	48401-78-02	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-118	31508-00-6	PCB	MOD 1668A	73	%RECOVERY			
42828-CONC-3A	48401-78-02	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-114	74472-37-0	PCB	MOD 1668A	68	%RECOVERY			
42828-CONC-3A	48401-78-02	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-105	32598-14-4	PCB	MOD 1668A	76	%RECOVERY			
42828-CONC-3A	48401-78-02	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-126	57465-28-8	PCB	MOD 1668A	81	%RECOVERY			
42828-CONC-3A	48401-78-02	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-167	52663-72-6	PCB	MOD 1668A	73	%RECOVERY			
42828-CONC-3A	48401-78-02	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-156	38380-08-4	PCB	MOD 1668A	69	%RECOVERY			
42828-CONC-3A	48401-78-02	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-157	69782-90-7	PCB	MOD 1668A	69	%RECOVERY			
42828-CONC-3A	48401-78-02	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-169	32774-16-6	PCB	MOD 1668A	89	%RECOVERY			
42828-CONC-3A	48401-78-02	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-189	39635-31-9	PCB	MOD 1668A	100	%RECOVERY			
42828-CONC-3A	48401-78-02	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-28	7012-37-5	PCB	MOD 1668A	86	%RECOVERY			
42828-CONC-3A	48401-78-02	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-111	39635-32-0	PCB	MOD 1668A	74	%RECOVERY			
42828-CONC-3A	48401-78-02	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-178	52663-67-9	PCB	MOD 1668A	79	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-81	70362-50-4	PCB	MOD 1668A	1257.55	pg/g - Wet Wt	U		1257.55
42828-CONC-3B	48401-78-03	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-77	32598-13-3	PCB	MOD 1668A	25.42	pg/g - Wet Wt	J		1257.55

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
42828-CONC-9C	48401-78-19		1.00		Lab Extraction ID =49038-60-16	0.7734	G_WET	643.67	UJ		T
42828-CONC-9C	48401-78-19		1.00		Lab Extraction ID =49038-60-16	0.7734	G_WET	13.72	U		T
42828-CONC-9C	48401-78-19		1.00		Lab Extraction ID =49038-60-16	0.7734	G_WET	222.61	U		T
42828-CONC-9C	48401-78-19		1.00		Lab Extraction ID =49038-60-16	0.7734	G_WET	2249.44			T
42828-CONC-9C	48401-78-19		1.00		Lab Extraction ID =49038-60-16	0.7734	G_WET	33.22	U		T
42828-CONC-9C	48401-78-19		1.00		Lab Extraction ID =49038-60-16	0.7734	G_WET	43.66	U		T
42828-CONC-9C	48401-78-19		1.00		Lab Extraction ID =49038-60-16	0.7734	G_WET				T
42828-CONC-9C	48401-78-19		1.00		Lab Extraction ID =49038-60-16	0.7734	G_WET	3.6	U		T
42828-CONC-9C	48401-78-19		1.00		Lab Extraction ID =49038-60-16	0.7734	G_WET	1.32	U		T
42828-CONC-9C	48401-78-19		1.00		Lab Extraction ID =49038-60-16	0.7734	G_WET				T
42828-CONC-9C	48401-78-19		1.00		Lab Extraction ID =49038-60-16	0.7734	G_WET				T
42828-CONC-9C	48401-78-19		1.00		Lab Extraction ID =49038-60-16	0.7734	G_WET				T
42828-CONC-9C	48401-78-19		1.00		Lab Extraction ID =49038-60-16	0.7734	G_WET				T
42828-CONC-9C	48401-78-19		1.00		Lab Extraction ID =49038-60-16	0.7734	G_WET				T
42828-CONC-9C	48401-78-19		1.00		Lab Extraction ID =49038-60-16	0.7734	G_WET				T
42828-CONC-9C	48401-78-19		1.00		Lab Extraction ID =49038-60-16	0.7734	G_WET				T
42828-CONC-9C	48401-78-19		1.00		Lab Extraction ID =49038-60-16	0.7734	G_WET				T
42828-CONC-9C	48401-78-19		1.00		Lab Extraction ID =49038-60-16	0.7734	G_WET				T
42828-CONC-9C	48401-78-19		1.00		Lab Extraction ID =49038-60-16	0.7734	G_WET				T
42828-CONC-9C	48401-78-19		1.00		Lab Extraction ID =49038-60-16	0.7734	G_WET				T
42828-CONC-9C	48401-78-19		1.00		Lab Extraction ID =49038-60-16	0.7734	G_WET				T
42828-CONC-3A	48401-78-02		1.00		Lab Extraction ID =49038-60-17	1.0548	G_WET	1.6	U		T
42828-CONC-3A	48401-78-02		1.00		Lab Extraction ID =49038-60-17	1.0548	G_WET	13.16	U		T
42828-CONC-3A	48401-78-02		1.00		Lab Extraction ID =49038-60-17	1.0548	G_WET	7.4	U		T
42828-CONC-3A	48401-78-02		1.00		Lab Extraction ID =49038-60-17	1.0548	G_WET				T
42828-CONC-3A	48401-78-02		1.00		Lab Extraction ID =49038-60-17	1.0548	G_WET				T
42828-CONC-3A	48401-78-02		1.00		Lab Extraction ID =49038-60-17	1.0548	G_WET	424.6	UJ		T
42828-CONC-3A	48401-78-02		1.00		Lab Extraction ID =49038-60-17	1.0548	G_WET	7.02	U		T
42828-CONC-3A	48401-78-02		1.00		Lab Extraction ID =49038-60-17	1.0548	G_WET	145.91	U		T
42828-CONC-3A	48401-78-02		1.00		Lab Extraction ID =49038-60-17	1.0548	G_WET	3.22	U		T
42828-CONC-3A	48401-78-02		1.00		Lab Extraction ID =49038-60-17	1.0548	G_WET	23.07	U		T
42828-CONC-3A	48401-78-02		1.00		Lab Extraction ID =49038-60-17	1.0548	G_WET	27.16	U		T
42828-CONC-3A	48401-78-02		1.00		Lab Extraction ID =49038-60-17	1.0548	G_WET				T
42828-CONC-3A	48401-78-02		1.00		Lab Extraction ID =49038-60-17	1.0548	G_WET	1.55	U		T
42828-CONC-3A	48401-78-02		1.00		Lab Extraction ID =49038-60-17	1.0548	G_WET	1.59	U		T
42828-CONC-3A	48401-78-02		1.00		Lab Extraction ID =49038-60-17	1.0548	G_WET				T
42828-CONC-3A	48401-78-02		1.00		Lab Extraction ID =49038-60-17	1.0548	G_WET				T
42828-CONC-3A	48401-78-02		1.00		Lab Extraction ID =49038-60-17	1.0548	G_WET				T
42828-CONC-3A	48401-78-02		1.00		Lab Extraction ID =49038-60-17	1.0548	G_WET				T
42828-CONC-3A	48401-78-02		1.00		Lab Extraction ID =49038-60-17	1.0548	G_WET				T
42828-CONC-3A	48401-78-02		1.00		Lab Extraction ID =49038-60-17	1.0548	G_WET				T
42828-CONC-3A	48401-78-02		1.00		Lab Extraction ID =49038-60-17	1.0548	G_WET				T
42828-CONC-3A	48401-78-02		1.00		Lab Extraction ID =49038-60-17	1.0548	G_WET				T
42828-CONC-3A	48401-78-02		1.00		Lab Extraction ID =49038-60-17	1.0548	G_WET				T
42828-CONC-3A	48401-78-02		1.00		Lab Extraction ID =49038-60-17	1.0548	G_WET				T
42828-CONC-3A	48401-78-02		1.00		Lab Extraction ID =49038-60-17	1.0548	G_WET				T
42828-CONC-3A	48401-78-02		1.00		Lab Extraction ID =49038-60-17	1.0548	G_WET				T
42828-CONC-3A	48401-78-02		1.00		Lab Extraction ID =49038-60-17	1.0548	G_WET				T
42828-CONC-3A	48401-78-02		1.00		Lab Extraction ID =49038-60-17	1.0548	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-18	0.3976	G_WET	1257.55	U		T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-18	0.3976	G_WET	25.42	U		T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
42828-CONC-3B	48401-78-03	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-106	70424-69-0	PCB	MOD 1668A	16.93	pg/g - Wet Wt	JC		2515.10
42828-CONC-3B	48401-78-03	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		2515.10
42828-CONC-3B	48401-78-03	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		1257.55
42828-CONC-3B	48401-78-03	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-118	31508-00-6	PCB	MOD 1668A	789.11	pg/g - Wet Wt	J		1257.55
42828-CONC-3B	48401-78-03	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-114	74472-37-0	PCB	MOD 1668A	15.24	pg/g - Wet Wt	J		1257.55
42828-CONC-3B	48401-78-03	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-105	32598-14-4	PCB	MOD 1668A	274.56	pg/g - Wet Wt	J		503.02
42828-CONC-3B	48401-78-03	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-126	57465-28-8	PCB	MOD 1668A	14.01	pg/g - Wet Wt	J		2515.09
42828-CONC-3B	48401-78-03	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-167	52663-72-6	PCB	MOD 1668A	39.85	pg/g - Wet Wt	J		1257.55
42828-CONC-3B	48401-78-03	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-156	38380-08-4	PCB	MOD 1668A	53.48	pg/g - Wet Wt	JC		1257.55
42828-CONC-3B	48401-78-03	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	C156		1257.55
42828-CONC-3B	48401-78-03	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-169	32774-16-6	PCB	MOD 1668A	6.38	pg/g - Wet Wt	J		1257.55
42828-CONC-3B	48401-78-03	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-189	39635-31-9	PCB	MOD 1668A	8.10	pg/g - Wet Wt	J		1257.55
42828-CONC-3B	48401-78-03	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-81	70362-50-4	PCB	MOD 1668A	92	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-77	32598-13-3	PCB	MOD 1668A	89	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-123	65510-44-3	PCB	MOD 1668A	73	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-118	31508-00-6	PCB	MOD 1668A	71	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-114	74472-37-0	PCB	MOD 1668A	65	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-105	32598-14-4	PCB	MOD 1668A	73	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-126	57465-28-8	PCB	MOD 1668A	78	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-167	52663-72-6	PCB	MOD 1668A	69	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-156	38380-08-4	PCB	MOD 1668A	67	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-157	69782-90-7	PCB	MOD 1668A	67	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-169	32774-16-6	PCB	MOD 1668A	84	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-189	39635-31-9	PCB	MOD 1668A	82	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-28	7012-37-5	PCB	MOD 1668A	76	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-111	39635-32-0	PCB	MOD 1668A	71	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-178	52663-67-9	PCB	MOD 1668A	76	%RECOVERY			
42828-CONC-3C	48401-78-04	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-81	70362-50-4	PCB	MOD 1668A	1.99	pg/g - Wet Wt	J		615.69
42828-CONC-3C	48401-78-04	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-77	32598-13-3	PCB	MOD 1668A	14.76	pg/g - Wet Wt	J		615.69
42828-CONC-3C	48401-78-04	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-106	70424-69-0	PCB	MOD 1668A	11.08	pg/g - Wet Wt	JC		1231.38
42828-CONC-3C	48401-78-04	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		1231.38
42828-CONC-3C	48401-78-04	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		615.69
42828-CONC-3C	48401-78-04	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-118	31508-00-6	PCB	MOD 1668A	634.88	pg/g - Wet Wt			615.69
42828-CONC-3C	48401-78-04	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-114	74472-37-0	PCB	MOD 1668A	9.56	pg/g - Wet Wt	J		615.69
42828-CONC-3C	48401-78-04	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-105	32598-14-4	PCB	MOD 1668A	192.08	pg/g - Wet Wt	J		246.28
42828-CONC-3C	48401-78-04	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-126	57465-28-8	PCB	MOD 1668A	6.55	pg/g - Wet Wt	J		1231.38
42828-CONC-3C	48401-78-04	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-167	52663-72-6	PCB	MOD 1668A	38.42	pg/g - Wet Wt	J		615.69
42828-CONC-3C	48401-78-04	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-156	38380-08-4	PCB	MOD 1668A	53.10	pg/g - Wet Wt	JC		615.69
42828-CONC-3C	48401-78-04	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	C156		615.69
42828-CONC-3C	48401-78-04	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-169	32774-16-6	PCB	MOD 1668A	2.48	pg/g - Wet Wt	J		615.69
42828-CONC-3C	48401-78-04	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-189	39635-31-9	PCB	MOD 1668A	2.55	pg/g - Wet Wt	J		615.69
42828-CONC-3C	48401-78-04	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-81	70362-50-4	PCB	MOD 1668A	111	%RECOVERY			
42828-CONC-3C	48401-78-04	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-77	32598-13-3	PCB	MOD 1668A	104	%RECOVERY			
42828-CONC-3C	48401-78-04	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-123	65510-44-3	PCB	MOD 1668A	80	%RECOVERY			
42828-CONC-3C	48401-78-04	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-118	31508-00-6	PCB	MOD 1668A	82	%RECOVERY			
42828-CONC-3C	48401-78-04	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-114	74472-37-0	PCB	MOD 1668A	74	%RECOVERY			
42828-CONC-3C	48401-78-04	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-105	32598-14-4	PCB	MOD 1668A	85	%RECOVERY			
42828-CONC-3C	48401-78-04	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-126	57465-28-8	PCB	MOD 1668A	89	%RECOVERY			
42828-CONC-3C	48401-78-04	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-167	52663-72-6	PCB	MOD 1668A	76	%RECOVERY			
42828-CONC-3C	48401-78-04	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-156	38380-08-4	PCB	MOD 1668A	75	%RECOVERY			
42828-CONC-3C	48401-78-04	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-157	69782-90-7	PCB	MOD 1668A	75	%RECOVERY			
42828-CONC-3C	48401-78-04	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-169	32774-16-6	PCB	MOD 1668A	97	%RECOVERY			
42828-CONC-3C	48401-78-04	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-189	39635-31-9	PCB	MOD 1668A	106	%RECOVERY			
42828-CONC-3C	48401-78-04	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-28	7012-37-5	PCB	MOD 1668A	85	%RECOVERY			
42828-CONC-3C	48401-78-04	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-111	39635-32-0	PCB	MOD 1668A	75	%RECOVERY			

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-18	0.3976	G_WET	16.93	U		T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-18	0.3976	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-18	0.3976	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-18	0.3976	G_WET	789.11	UJ		T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-18	0.3976	G_WET	15.24	U		T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-18	0.3976	G_WET	274.56	U		T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-18	0.3976	G_WET	14.01	U		T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-18	0.3976	G_WET	39.85	U		T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-18	0.3976	G_WET	53.48	U		T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-18	0.3976	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-18	0.3976	G_WET	6.38	U		T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-18	0.3976	G_WET	8.1	U		T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-18	0.3976	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-18	0.3976	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-18	0.3976	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-18	0.3976	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-18	0.3976	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-18	0.3976	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-18	0.3976	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-18	0.3976	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-18	0.3976	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-18	0.3976	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-18	0.3976	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-18	0.3976	G_WET				T
42828-CONC-3C	48401-78-04		1.00		Lab Extraction ID =49038-60-20	0.8121	G_WET	1.99	U		T
42828-CONC-3C	48401-78-04		1.00		Lab Extraction ID =49038-60-20	0.8121	G_WET	14.76	U		T
42828-CONC-3C	48401-78-04		1.00		Lab Extraction ID =49038-60-20	0.8121	G_WET	11.08	U		T
42828-CONC-3C	48401-78-04		1.00		Lab Extraction ID =49038-60-20	0.8121	G_WET				T
42828-CONC-3C	48401-78-04		1.00		Lab Extraction ID =49038-60-20	0.8121	G_WET				T
42828-CONC-3C	48401-78-04		1.00		Lab Extraction ID =49038-60-20	0.8121	G_WET	634.88	UJ		T
42828-CONC-3C	48401-78-04		1.00		Lab Extraction ID =49038-60-20	0.8121	G_WET	9.56	U		T
42828-CONC-3C	48401-78-04		1.00		Lab Extraction ID =49038-60-20	0.8121	G_WET	192.08	U		T
42828-CONC-3C	48401-78-04		1.00		Lab Extraction ID =49038-60-20	0.8121	G_WET	6.55	U		T
42828-CONC-3C	48401-78-04		1.00		Lab Extraction ID =49038-60-20	0.8121	G_WET	38.42	U		T
42828-CONC-3C	48401-78-04		1.00		Lab Extraction ID =49038-60-20	0.8121	G_WET	53.1	U		T
42828-CONC-3C	48401-78-04		1.00		Lab Extraction ID =49038-60-20	0.8121	G_WET				T
42828-CONC-3C	48401-78-04		1.00		Lab Extraction ID =49038-60-20	0.8121	G_WET	2.48	U		T
42828-CONC-3C	48401-78-04		1.00		Lab Extraction ID =49038-60-20	0.8121	G_WET	2.55	U		T
42828-CONC-3C	48401-78-04		1.00		Lab Extraction ID =49038-60-20	0.8121	G_WET				T
42828-CONC-3C	48401-78-04		1.00		Lab Extraction ID =49038-60-20	0.8121	G_WET				T
42828-CONC-3C	48401-78-04		1.00		Lab Extraction ID =49038-60-20	0.8121	G_WET				T
42828-CONC-3C	48401-78-04		1.00		Lab Extraction ID =49038-60-20	0.8121	G_WET				T
42828-CONC-3C	48401-78-04		1.00		Lab Extraction ID =49038-60-20	0.8121	G_WET				T
42828-CONC-3C	48401-78-04		1.00		Lab Extraction ID =49038-60-20	0.8121	G_WET				T
42828-CONC-3C	48401-78-04		1.00		Lab Extraction ID =49038-60-20	0.8121	G_WET				T
42828-CONC-3C	48401-78-04		1.00		Lab Extraction ID =49038-60-20	0.8121	G_WET				T
42828-CONC-3C	48401-78-04		1.00		Lab Extraction ID =49038-60-20	0.8121	G_WET				T
42828-CONC-3C	48401-78-04		1.00		Lab Extraction ID =49038-60-20	0.8121	G_WET				T
42828-CONC-3C	48401-78-04		1.00		Lab Extraction ID =49038-60-20	0.8121	G_WET				T
42828-CONC-3C	48401-78-04		1.00		Lab Extraction ID =49038-60-20	0.8121	G_WET				T
42828-CONC-3C	48401-78-04		1.00		Lab Extraction ID =49038-60-20	0.8121	G_WET				T
42828-CONC-3C	48401-78-04		1.00		Lab Extraction ID =49038-60-20	0.8121	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
42828-CONC-3C	48401-78-04	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-178	52663-67-9	PCB	MOD 1668A	81	%RECOVERY			
42828-CONC-12A	48401-78-20	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-81	70362-50-4	PCB	MOD 1668A	2.24	pg/g - Wet Wt	J		602.19
42828-CONC-12A	48401-78-20	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-77	32598-13-3	PCB	MOD 1668A	2609.00	pg/g - Wet Wt			602.19
42828-CONC-12A	48401-78-20	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-106	70424-69-0	PCB	MOD 1668A	23.91	pg/g - Wet Wt	JC		1204.38
42828-CONC-12A	48401-78-20	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		1204.38
42828-CONC-12A	48401-78-20	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		602.19
42828-CONC-12A	48401-78-20	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-118	31508-00-6	PCB	MOD 1668A	726.22	pg/g - Wet Wt			602.19
42828-CONC-12A	48401-78-20	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-114	74472-37-0	PCB	MOD 1668A	13.96	pg/g - Wet Wt	J		602.19
42828-CONC-12A	48401-78-20	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-105	32598-14-4	PCB	MOD 1668A	240.72	pg/g - Wet Wt	J		240.88
42828-CONC-12A	48401-78-20	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-126	57465-28-8	PCB	MOD 1668A	2782.78	pg/g - Wet Wt			1204.38
42828-CONC-12A	48401-78-20	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-167	52663-72-6	PCB	MOD 1668A	37.11	pg/g - Wet Wt	J		602.19
42828-CONC-12A	48401-78-20	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-156	38380-08-4	PCB	MOD 1668A	42.26	pg/g - Wet Wt	JC		602.19
42828-CONC-12A	48401-78-20	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	C156		602.19
42828-CONC-12A	48401-78-20	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-169	32774-16-6	PCB	MOD 1668A	602.19	pg/g - Wet Wt	U		602.19
42828-CONC-12A	48401-78-20	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-189	39635-31-9	PCB	MOD 1668A	2.80	pg/g - Wet Wt	J		602.19
42828-CONC-12A	48401-78-20	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-81	70362-50-4	PCB	MOD 1668A	97	%RECOVERY			
42828-CONC-12A	48401-78-20	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-77	32598-13-3	PCB	MOD 1668A	98	%RECOVERY			
42828-CONC-12A	48401-78-20	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-123	65510-44-3	PCB	MOD 1668A	73	%RECOVERY			
42828-CONC-12A	48401-78-20	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-118	31508-00-6	PCB	MOD 1668A	75	%RECOVERY			
42828-CONC-12A	48401-78-20	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-114	74472-37-0	PCB	MOD 1668A	69	%RECOVERY			
42828-CONC-12A	48401-78-20	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-105	32598-14-4	PCB	MOD 1668A	82	%RECOVERY			
42828-CONC-12A	48401-78-20	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-126	57465-28-8	PCB	MOD 1668A	87	%RECOVERY			
42828-CONC-12A	48401-78-20	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-167	52663-72-6	PCB	MOD 1668A	66	%RECOVERY			
42828-CONC-12A	48401-78-20	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-156	38380-08-4	PCB	MOD 1668A	69	%RECOVERY			
42828-CONC-12A	48401-78-20	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-157	69782-90-7	PCB	MOD 1668A	69	%RECOVERY			
42828-CONC-12A	48401-78-20	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-169	32774-16-6	PCB	MOD 1668A	82	%RECOVERY			
42828-CONC-12A	48401-78-20	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-189	39635-31-9	PCB	MOD 1668A	77	%RECOVERY			
42828-CONC-12A	48401-78-20	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-28	7012-37-5	PCB	MOD 1668A	55	%RECOVERY			
42828-CONC-12A	48401-78-20	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-111	39635-32-0	PCB	MOD 1668A	60	%RECOVERY			
42828-CONC-12A	48401-78-20	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-178	52663-67-9	PCB	MOD 1668A	68	%RECOVERY			
42828-CONC-12B	48401-78-21	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-81	70362-50-4	PCB	MOD 1668A	4.75	pg/g - Wet Wt	J		1992.83
42828-CONC-12B	48401-78-21	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-77	32598-13-3	PCB	MOD 1668A	1293.59	pg/g - Wet Wt	J		1992.83
42828-CONC-12B	48401-78-21	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-106	70424-69-0	PCB	MOD 1668A	29.80	pg/g - Wet Wt	JC		3985.66
42828-CONC-12B	48401-78-21	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		3985.66
42828-CONC-12B	48401-78-21	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		1992.83
42828-CONC-12B	48401-78-21	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-118	31508-00-6	PCB	MOD 1668A	1196.78	pg/g - Wet Wt	J		1992.83
42828-CONC-12B	48401-78-21	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-114	74472-37-0	PCB	MOD 1668A	31.81	pg/g - Wet Wt	J		1992.83
42828-CONC-12B	48401-78-21	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-105	32598-14-4	PCB	MOD 1668A	413.68	pg/g - Wet Wt	J		797.13
42828-CONC-12B	48401-78-21	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-126	57465-28-8	PCB	MOD 1668A	1420.16	pg/g - Wet Wt	J		3985.65
42828-CONC-12B	48401-78-21	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-167	52663-72-6	PCB	MOD 1668A	36.45	pg/g - Wet Wt	J		1992.83
42828-CONC-12B	48401-78-21	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-156	38380-08-4	PCB	MOD 1668A	92.16	pg/g - Wet Wt	JC		1992.83
42828-CONC-12B	48401-78-21	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	C156		1992.83
42828-CONC-12B	48401-78-21	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-169	32774-16-6	PCB	MOD 1668A	1.19	pg/g - Wet Wt	J		1992.83
42828-CONC-12B	48401-78-21	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-189	39635-31-9	PCB	MOD 1668A	6.91	pg/g - Wet Wt	J		1992.83
42828-CONC-12B	48401-78-21	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-81	70362-50-4	PCB	MOD 1668A	80	%RECOVERY			
42828-CONC-12B	48401-78-21	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-77	32598-13-3	PCB	MOD 1668A	80	%RECOVERY			
42828-CONC-12B	48401-78-21	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-123	65510-44-3	PCB	MOD 1668A	65	%RECOVERY			
42828-CONC-12B	48401-78-21	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-118	31508-00-6	PCB	MOD 1668A	65	%RECOVERY			
42828-CONC-12B	48401-78-21	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-114	74472-37-0	PCB	MOD 1668A	60	%RECOVERY			
42828-CONC-12B	48401-78-21	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-105	32598-14-4	PCB	MOD 1668A	72	%RECOVERY			
42828-CONC-12B	48401-78-21	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-126	57465-28-8	PCB	MOD 1668A	76	%RECOVERY			
42828-CONC-12B	48401-78-21	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-167	52663-72-6	PCB	MOD 1668A	59	%RECOVERY			
42828-CONC-12B	48401-78-21	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-156	38380-08-4	PCB	MOD 1668A	60	%RECOVERY			
42828-CONC-12B	48401-78-21	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-157	69782-90-7	PCB	MOD 1668A	60	%RECOVERY			
42828-CONC-12B	48401-78-21	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-169	32774-16-6	PCB	MOD 1668A	70	%RECOVERY			

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
42828-CONC-3C	48401-78-04		1.00		Lab Extraction ID =49038-60-20	0.8121	G_WET				T
42828-CONC-12A	48401-78-20		1.00		Lab Extraction ID =49038-60-21	0.8303	G_WET	2.24	U		T
42828-CONC-12A	48401-78-20		1.00		Lab Extraction ID =49038-60-21	0.8303	G_WET	2609			T
42828-CONC-12A	48401-78-20		1.00		Lab Extraction ID =49038-60-21	0.8303	G_WET	2.9123.9	U		T
42828-CONC-12A	48401-78-20		1.00		Lab Extraction ID =49038-60-21	0.8303	G_WET	23.91			T
42828-CONC-12A	48401-78-20		1.00		Lab Extraction ID =49038-60-21	0.8303	G_WET				T
42828-CONC-12A	48401-78-20		1.00		Lab Extraction ID =49038-60-21	0.8303	G_WET	726.22	UJ		T
42828-CONC-12A	48401-78-20		1.00		Lab Extraction ID =49038-60-21	0.8303	G_WET	13.96	U		T
42828-CONC-12A	48401-78-20		1.00		Lab Extraction ID =49038-60-21	0.8303	G_WET	240.72	U		T
42828-CONC-12A	48401-78-20		1.00		Lab Extraction ID =49038-60-21	0.8303	G_WET	2782.78			T
42828-CONC-12A	48401-78-20		1.00		Lab Extraction ID =49038-60-21	0.8303	G_WET	37.11	U		T
42828-CONC-12A	48401-78-20		1.00		Lab Extraction ID =49038-60-21	0.8303	G_WET	42.26	U		T
42828-CONC-12A	48401-78-20		1.00		Lab Extraction ID =49038-60-21	0.8303	G_WET				T
42828-CONC-12A	48401-78-20		1.00		Lab Extraction ID =49038-60-21	0.8303	G_WET	602.19	U		T
42828-CONC-12A	48401-78-20		1.00		Lab Extraction ID =49038-60-21	0.8303	G_WET	2.8	U		T
42828-CONC-12A	48401-78-20		1.00		Lab Extraction ID =49038-60-21	0.8303	G_WET				T
42828-CONC-12A	48401-78-20		1.00		Lab Extraction ID =49038-60-21	0.8303	G_WET				T
42828-CONC-12A	48401-78-20		1.00		Lab Extraction ID =49038-60-21	0.8303	G_WET				T
42828-CONC-12A	48401-78-20		1.00		Lab Extraction ID =49038-60-21	0.8303	G_WET				T
42828-CONC-12A	48401-78-20		1.00		Lab Extraction ID =49038-60-21	0.8303	G_WET				T
42828-CONC-12A	48401-78-20		1.00		Lab Extraction ID =49038-60-21	0.8303	G_WET				T
42828-CONC-12A	48401-78-20		1.00		Lab Extraction ID =49038-60-21	0.8303	G_WET				T
42828-CONC-12A	48401-78-20		1.00		Lab Extraction ID =49038-60-21	0.8303	G_WET				T
42828-CONC-12A	48401-78-20		1.00		Lab Extraction ID =49038-60-21	0.8303	G_WET				T
42828-CONC-12A	48401-78-20		1.00		Lab Extraction ID =49038-60-21	0.8303	G_WET				T
42828-CONC-12A	48401-78-20		1.00		Lab Extraction ID =49038-60-21	0.8303	G_WET				T
42828-CONC-12A	48401-78-20		1.00		Lab Extraction ID =49038-60-21	0.8303	G_WET				T
42828-CONC-12A	48401-78-20		1.00		Lab Extraction ID =49038-60-21	0.8303	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-22	0.2509	G_WET	4.75	U		T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-22	0.2509	G_WET	1293.59	J		T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-22	0.2509	G_WET	29.8	U		T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-22	0.2509	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-22	0.2509	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-22	0.2509	G_WET	1196.78	UJ		T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-22	0.2509	G_WET	31.81	U		T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-22	0.2509	G_WET	413.68	U		T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-22	0.2509	G_WET	1420.16	J		T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-22	0.2509	G_WET	36.45	U		T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-22	0.2509	G_WET	92.16	U		T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-22	0.2509	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-22	0.2509	G_WET	1.19	U		T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-22	0.2509	G_WET	6.91	U		T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-22	0.2509	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-22	0.2509	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-22	0.2509	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-22	0.2509	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-22	0.2509	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-22	0.2509	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-22	0.2509	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-22	0.2509	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-22	0.2509	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-22	0.2509	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
42828-CONC-12B	48401-78-21	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-189	39635-31-9	PCB	MOD 1668A	66	%RECOVERY			
42828-CONC-12B	48401-78-21	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-28	7012-37-5	PCB	MOD 1668A	51	%RECOVERY			
42828-CONC-12B	48401-78-21	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-111	39635-32-0	PCB	MOD 1668A	55	%RECOVERY			
42828-CONC-12B	48401-78-21	BCO	NORMAL	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-178	52663-67-9	PCB	MOD 1668A	63	%RECOVERY			
42828-CONC-12B	48401-78-21	BCO	DUPLICATE	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-81	70362-50-4	PCB	MOD 1668A	4.64	pg/g - Wet Wt	J		1909.13
42828-CONC-12B	48401-78-21	BCO	DUPLICATE	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-77	32598-13-3	PCB	MOD 1668A	1577.73	pg/g - Wet Wt	J		1909.13
42828-CONC-12B	48401-78-21	BCO	DUPLICATE	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-106	70424-69-0	PCB	MOD 1668A	19.44	pg/g - Wet Wt	JC		3818.26
42828-CONC-12B	48401-78-21	BCO	DUPLICATE	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		3818.26
42828-CONC-12B	48401-78-21	BCO	DUPLICATE	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		1909.13
42828-CONC-12B	48401-78-21	BCO	DUPLICATE	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-118	31508-00-6	PCB	MOD 1668A	908.11	pg/g - Wet Wt	J		1909.13
42828-CONC-12B	48401-78-21	BCO	DUPLICATE	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-114	74472-37-0	PCB	MOD 1668A	22.61	pg/g - Wet Wt	J		1909.13
42828-CONC-12B	48401-78-21	BCO	DUPLICATE	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-105	32598-14-4	PCB	MOD 1668A	349.12	pg/g - Wet Wt	J		763.65
42828-CONC-12B	48401-78-21	BCO	DUPLICATE	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-126	57465-28-8	PCB	MOD 1668A	1582.22	pg/g - Wet Wt	J		3818.25
42828-CONC-12B	48401-78-21	BCO	DUPLICATE	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-167	52663-72-6	PCB	MOD 1668A	39.88	pg/g - Wet Wt	J		1909.13
42828-CONC-12B	48401-78-21	BCO	DUPLICATE	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-156	38380-08-4	PCB	MOD 1668A	73.18	pg/g - Wet Wt	JC		1909.13
42828-CONC-12B	48401-78-21	BCO	DUPLICATE	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	C156		1909.13
42828-CONC-12B	48401-78-21	BCO	DUPLICATE	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-169	32774-16-6	PCB	MOD 1668A	5.92	pg/g - Wet Wt	J		1909.13
42828-CONC-12B	48401-78-21	BCO	DUPLICATE	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-189	39635-31-9	PCB	MOD 1668A	1909.13	pg/g - Wet Wt	U		1909.13
42828-CONC-12B	48401-78-21	BCO	DUPLICATE	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-81	70362-50-4	PCB	MOD 1668A	77	%RECOVERY			
42828-CONC-12B	48401-78-21	BCO	DUPLICATE	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-77	32598-13-3	PCB	MOD 1668A	77	%RECOVERY			
42828-CONC-12B	48401-78-21	BCO	DUPLICATE	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-123	65510-44-3	PCB	MOD 1668A	60	%RECOVERY			
42828-CONC-12B	48401-78-21	BCO	DUPLICATE	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-118	31508-00-6	PCB	MOD 1668A	62	%RECOVERY			
42828-CONC-12B	48401-78-21	BCO	DUPLICATE	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-114	74472-37-0	PCB	MOD 1668A	54	%RECOVERY			
42828-CONC-12B	48401-78-21	BCO	DUPLICATE	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-105	32598-14-4	PCB	MOD 1668A	65	%RECOVERY			
42828-CONC-12B	48401-78-21	BCO	DUPLICATE	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-126	57465-28-8	PCB	MOD 1668A	71	%RECOVERY			
42828-CONC-12B	48401-78-21	BCO	DUPLICATE	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-167	52663-72-6	PCB	MOD 1668A	57	%RECOVERY			
42828-CONC-12B	48401-78-21	BCO	DUPLICATE	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-156	38380-08-4	PCB	MOD 1668A	57	%RECOVERY			
42828-CONC-12B	48401-78-21	BCO	DUPLICATE	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-157	69782-90-7	PCB	MOD 1668A	57	%RECOVERY			
42828-CONC-12B	48401-78-21	BCO	DUPLICATE	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-169	32774-16-6	PCB	MOD 1668A	70	%RECOVERY			
42828-CONC-12B	48401-78-21	BCO	DUPLICATE	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-189	39635-31-9	PCB	MOD 1668A	60	%RECOVERY			
42828-CONC-12B	48401-78-21	BCO	DUPLICATE	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-28	7012-37-5	PCB	MOD 1668A	53	%RECOVERY			
42828-CONC-12B	48401-78-21	BCO	DUPLICATE	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-111	39635-32-0	PCB	MOD 1668A	51	%RECOVERY			
42828-CONC-12B	48401-78-21	BCO	DUPLICATE	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-178	52663-67-9	PCB	MOD 1668A	59	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	MS	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-81	70362-50-4	PCB	MOD 1668A	100	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	MS	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-77	32598-13-3	PCB	MOD 1668A	96	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	MS	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-106	70424-69-0	PCB	MOD 1668A	99	%RECOVERY	C		
42828-CONC-3B	48401-78-03	BCO	MS	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-107	70724-68-9	PCB	MOD 1668A		%RECOVERY	C106		
42828-CONC-3B	48401-78-03	BCO	MS	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-123	65510-44-3	PCB	MOD 1668A		%RECOVERY	C106		
42828-CONC-3B	48401-78-03	BCO	MS	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-118	31508-00-6	PCB	MOD 1668A	104	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	MS	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-114	74472-37-0	PCB	MOD 1668A	98	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	MS	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-105	32598-14-4	PCB	MOD 1668A	100	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	MS	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-126	57465-28-8	PCB	MOD 1668A	92	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	MS	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-167	52663-72-6	PCB	MOD 1668A	100	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	MS	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-156	38380-08-4	PCB	MOD 1668A	102	%RECOVERY	C		
42828-CONC-3B	48401-78-03	BCO	MS	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-157	69782-90-7	PCB	MOD 1668A		%RECOVERY	C156		
42828-CONC-3B	48401-78-03	BCO	MS	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-169	32774-16-6	PCB	MOD 1668A	95	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	MS	07/14/01	10/17/2001	12/7/2001		49038-60	PCB-189	39635-31-9	PCB	MOD 1668A	102	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	MS	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-81	70362-50-4	PCB	MOD 1668A	94	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	MS	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-77	32598-13-3	PCB	MOD 1668A	93	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	MS	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-123	65510-44-3	PCB	MOD 1668A	76	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	MS	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-118	31508-00-6	PCB	MOD 1668A	77	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	MS	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-114	74472-37-0	PCB	MOD 1668A	71	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	MS	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-105	32598-14-4	PCB	MOD 1668A	81	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	MS	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-126	57465-28-8	PCB	MOD 1668A	84	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	MS	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-167	52663-72-6	PCB	MOD 1668A	73	%RECOVERY			

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-22	0.2509	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-22	0.2509	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-22	0.2509	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-22	0.2509	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-23	0.2619	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-23	0.2619	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-23	0.2619	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-23	0.2619	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-23	0.2619	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-23	0.2619	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-23	0.2619	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-23	0.2619	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-23	0.2619	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-23	0.2619	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-23	0.2619	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-23	0.2619	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-23	0.2619	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-23	0.2619	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-23	0.2619	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-23	0.2619	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-23	0.2619	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-23	0.2619	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-23	0.2619	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-23	0.2619	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-23	0.2619	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-23	0.2619	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-23	0.2619	G_WET				T
42828-CONC-12B	48401-78-21		1.00		Lab Extraction ID =49038-60-23	0.2619	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-19	0.3882	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-19	0.3882	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-19	0.3882	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-19	0.3882	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-19	0.3882	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-19	0.3882	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-19	0.3882	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-19	0.3882	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-19	0.3882	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-19	0.3882	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-19	0.3882	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-19	0.3882	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-19	0.3882	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-19	0.3882	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-19	0.3882	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-19	0.3882	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-19	0.3882	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-19	0.3882	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-19	0.3882	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-19	0.3882	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-19	0.3882	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
42828-CONC-3B	48401-78-03	BCO	MS	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-156	38380-08-4	PCB	MOD 1668A	69	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	MS	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-157	69782-90-7	PCB	MOD 1668A	69	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	MS	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-169	32774-16-6	PCB	MOD 1668A	85	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	MS	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-189	39635-31-9	PCB	MOD 1668A	77	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	MS	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-28	7012-37-5	PCB	MOD 1668A	75	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	MS	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-111	39635-32-0	PCB	MOD 1668A	73	%RECOVERY			
42828-CONC-3B	48401-78-03	BCO	MS	07/14/01	10/17/2001	12/7/2001		49038-60	13C-PCB-178	52663-67-9	PCB	MOD 1668A	74	%RECOVERY			
	48514-78-03	BCO	SRM		10/17/2001	12/7/2001		49038-60	PCB-81	70362-50-4	PCB	MOD 1668A	NA	%DIFFERENCE			495.98
	48514-78-03	BCO	SRM		10/17/2001	12/7/2001		49038-60	PCB-77	32598-13-3	PCB	MOD 1668A	28.5	%DIFFERENCE			495.98
	48514-78-03	BCO	SRM		10/17/2001	12/7/2001		49038-60	PCB-106	70424-69-0	PCB	MOD 1668A		%DIFFERENCE	C		991.96
	48514-78-03	BCO	SRM		10/17/2001	12/7/2001		49038-60	PCB-107	70724-68-9	PCB	MOD 1668A		%DIFFERENCE	C106		991.96
	48514-78-03	BCO	SRM		10/17/2001	12/7/2001		49038-60	PCB-123	65510-44-3	PCB	MOD 1668A		%DIFFERENCE	C106NA		495.98
	48514-78-03	BCO	SRM		10/17/2001	12/7/2001		49038-60	PCB-118	31508-00-6	PCB	MOD 1668A	54.3	%DIFFERENCE	&		495.98
	48514-78-03	BCO	SRM		10/17/2001	12/7/2001		49038-60	PCB-114	74472-37-0	PCB	MOD 1668A	NA	%DIFFERENCE			495.98
	48514-78-03	BCO	SRM		10/17/2001	12/7/2001		49038-60	PCB-105	32598-14-4	PCB	MOD 1668A	18.8	%DIFFERENCE			198.39
	48514-78-03	BCO	SRM		10/17/2001	12/7/2001		49038-60	PCB-126	57465-28-8	PCB	MOD 1668A	30.2	%DIFFERENCE	&		991.97
	48514-78-03	BCO	SRM		10/17/2001	12/7/2001		49038-60	PCB-167	52663-72-6	PCB	MOD 1668A	NA	%DIFFERENCE			495.98
	48514-78-03	BCO	SRM		10/17/2001	12/7/2001		49038-60	PCB-156	38380-08-4	PCB	MOD 1668A	NA	%DIFFERENCE			495.98
	48514-78-03	BCO	SRM		10/17/2001	12/7/2001		49038-60	PCB-157	69782-90-7	PCB	MOD 1668A	NA	%DIFFERENCE			495.98
	48514-78-03	BCO	SRM		10/17/2001	12/7/2001		49038-60	PCB-169	32774-16-6	PCB	MOD 1668A	25.2	%DIFFERENCE			495.98
	48514-78-03	BCO	SRM		10/17/2001	12/7/2001		49038-60	PCB-189	39635-31-9	PCB	MOD 1668A	NA	%DIFFERENCE			495.98
	48514-78-03	BCO	SRM		10/17/2001	12/7/2001		49038-60	13C-PCB-81	70362-50-4	PCB	MOD 1668A	79	%RECOVERY			
	48514-78-03	BCO	SRM		10/17/2001	12/7/2001		49038-60	13C-PCB-77	32598-13-3	PCB	MOD 1668A	71	%RECOVERY			
	48514-78-03	BCO	SRM		10/17/2001	12/7/2001		49038-60	13C-PCB-123	65510-44-3	PCB	MOD 1668A	67	%RECOVERY			
	48514-78-03	BCO	SRM		10/17/2001	12/7/2001		49038-60	13C-PCB-118	31508-00-6	PCB	MOD 1668A	67	%RECOVERY			
	48514-78-03	BCO	SRM		10/17/2001	12/7/2001		49038-60	13C-PCB-114	74472-37-0	PCB	MOD 1668A	62	%RECOVERY			
	48514-78-03	BCO	SRM		10/17/2001	12/7/2001		49038-60	13C-PCB-105	32598-14-4	PCB	MOD 1668A	69	%RECOVERY			
	48514-78-03	BCO	SRM		10/17/2001	12/7/2001		49038-60	13C-PCB-126	57465-28-8	PCB	MOD 1668A	85	%RECOVERY			
	48514-78-03	BCO	SRM		10/17/2001	12/7/2001		49038-60	13C-PCB-167	52663-72-6	PCB	MOD 1668A	65	%RECOVERY			
	48514-78-03	BCO	SRM		10/17/2001	12/7/2001		49038-60	13C-PCB-156	38380-08-4	PCB	MOD 1668A	67	%RECOVERY			
	48514-78-03	BCO	SRM		10/17/2001	12/7/2001		49038-60	13C-PCB-157	69782-90-7	PCB	MOD 1668A	67	%RECOVERY			
	48514-78-03	BCO	SRM		10/17/2001	12/7/2001		49038-60	13C-PCB-169	32774-16-6	PCB	MOD 1668A	82	%RECOVERY			
	48514-78-03	BCO	SRM		10/17/2001	12/7/2001		49038-60	13C-PCB-189	39635-31-9	PCB	MOD 1668A	61	%RECOVERY			
	48514-78-03	BCO	SRM		10/17/2001	12/7/2001		49038-60	13C-PCB-28	7012-37-5	PCB	MOD 1668A	73	%RECOVERY			
	48514-78-03	BCO	SRM		10/17/2001	12/7/2001		49038-60	13C-PCB-111	39635-32-0	PCB	MOD 1668A	54	%RECOVERY			
	48514-78-03	BCO	SRM		10/17/2001	12/7/2001		49038-60	13C-PCB-178	52663-67-9	PCB	MOD 1668A	65	%RECOVERY			
	48401-44-03	BCO	LCS		10/17/2001	12/5/2001		49038-60	PCB-81	70362-50-4	PCB	MOD 1668A	101	%RECOVERY			
	48401-44-03	BCO	LCS		10/17/2001	12/5/2001		49038-60	PCB-77	32598-13-3	PCB	MOD 1668A	102	%RECOVERY			
	48401-44-03	BCO	LCS		10/17/2001	12/5/2001		49038-60	PCB-106	70424-69-0	PCB	MOD 1668A	103	%RECOVERY	C		
	48401-44-03	BCO	LCS		10/17/2001	12/5/2001		49038-60	PCB-107	70724-68-9	PCB	MOD 1668A		%RECOVERY	C106		
	48401-44-03	BCO	LCS		10/17/2001	12/5/2001		49038-60	PCB-123	65510-44-3	PCB	MOD 1668A		%RECOVERY	C106		
	48401-44-03	BCO	LCS		10/17/2001	12/5/2001		49038-60	PCB-118	31508-00-6	PCB	MOD 1668A	127	%RECOVERY			
	48401-44-03	BCO	LCS		10/17/2001	12/5/2001		49038-60	PCB-114	74472-37-0	PCB	MOD 1668A	102	%RECOVERY			
	48401-44-03	BCO	LCS		10/17/2001	12/5/2001		49038-60	PCB-105	32598-14-4	PCB	MOD 1668A	113	%RECOVERY			
	48401-44-03	BCO	LCS		10/17/2001	12/5/2001		49038-60	PCB-126	57465-28-8	PCB	MOD 1668A	98	%RECOVERY			
	48401-44-03	BCO	LCS		10/17/2001	12/5/2001		49038-60	PCB-167	52663-72-6	PCB	MOD 1668A	103	%RECOVERY			
	48401-44-03	BCO	LCS		10/17/2001	12/5/2001		49038-60	PCB-156	38380-08-4	PCB	MOD 1668A	105	%RECOVERY	C		
	48401-44-03	BCO	LCS		10/17/2001	12/5/2001		49038-60	PCB-157	69782-90-7	PCB	MOD 1668A		%RECOVERY	C156		
	48401-44-03	BCO	LCS		10/17/2001	12/5/2001		49038-60	PCB-169	32774-16-6	PCB	MOD 1668A	102	%RECOVERY			
	48401-44-03	BCO	LCS		10/17/2001	12/5/2001		49038-60	PCB-189	39635-31-9	PCB	MOD 1668A	103	%RECOVERY			
	48401-44-03	BCO	LCS		10/17/2001	12/5/2001		49038-60	13C-PCB-81	70362-50-4	PCB	MOD 1668A	62	%RECOVERY			
	48401-44-03	BCO	LCS		10/17/2001	12/5/2001		49038-60	13C-PCB-77	32598-13-3	PCB	MOD 1668A	61	%RECOVERY			
	48401-44-03	BCO	LCS		10/17/2001	12/5/2001		49038-60	13C-PCB-123	65510-44-3	PCB	MOD 1668A	68	%RECOVERY			
	48401-44-03	BCO	LCS		10/17/2001	12/5/2001		49038-60	13C-PCB-118	31508-00-6	PCB	MOD 1668A	67	%RECOVERY			
	48401-44-03	BCO	LCS		10/17/2001	12/5/2001		49038-60	13C-PCB-114	74472-37-0	PCB	MOD 1668A	62	%RECOVERY			

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-19	0.3882	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-19	0.3882	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-19	0.3882	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-19	0.3882	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-19	0.3882	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-19	0.3882	G_WET				T
42828-CONC-3B	48401-78-03		1.00		Lab Extraction ID =49038-60-19	0.3882	G_WET				T
	48514-78-03		1.00		Lab Extraction ID =49038-60-24	1.0081	G_WET				T
	48514-78-03		1.00		Lab Extraction ID =49038-60-24	1.0081	G_WET				T
	48514-78-03		1.00		Lab Extraction ID =49038-60-24	1.0081	G_WET				T
	48514-78-03		1.00		Lab Extraction ID =49038-60-24	1.0081	G_WET				T
	48514-78-03		1.00		Lab Extraction ID =49038-60-24	1.0081	G_WET				T
	48514-78-03		1.00		Lab Extraction ID =49038-60-24	1.0081	G_WET				T
	48514-78-03		1.00		Lab Extraction ID =49038-60-24	1.0081	G_WET				T
	48514-78-03		1.00		Lab Extraction ID =49038-60-24	1.0081	G_WET				T
	48514-78-03		1.00		Lab Extraction ID =49038-60-24	1.0081	G_WET				T
	48514-78-03		1.00		Lab Extraction ID =49038-60-24	1.0081	G_WET				T
	48514-78-03		1.00		Lab Extraction ID =49038-60-24	1.0081	G_WET				T
	48514-78-03		1.00		Lab Extraction ID =49038-60-24	1.0081	G_WET				T
	48514-78-03		1.00		Lab Extraction ID =49038-60-24	1.0081	G_WET				T
	48514-78-03		1.00		Lab Extraction ID =49038-60-24	1.0081	G_WET				T
	48514-78-03		1.00		Lab Extraction ID =49038-60-24	1.0081	G_WET				T
	48514-78-03		1.00		Lab Extraction ID =49038-60-24	1.0081	G_WET				T
	48514-78-03		1.00		Lab Extraction ID =49038-60-24	1.0081	G_WET				T
	48514-78-03		1.00		Lab Extraction ID =49038-60-24	1.0081	G_WET				T
	48514-78-03		1.00		Lab Extraction ID =49038-60-24	1.0081	G_WET				T
	48514-78-03		1.00		Lab Extraction ID =49038-60-24	1.0081	G_WET				T
	48514-78-03		1.00		Lab Extraction ID =49038-60-24	1.0081	G_WET				T
	48514-78-03		1.00		Lab Extraction ID =49038-60-24	1.0081	G_WET				T
	48514-78-03		1.00		Lab Extraction ID =49038-60-24	1.0081	G_WET				T
	48514-78-03		1.00		Lab Extraction ID =49038-60-24	1.0081	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-25	0.5103	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-25	0.5103	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-25	0.5103	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-25	0.5103	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-25	0.5103	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-25	0.5103	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-25	0.5103	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-25	0.5103	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-25	0.5103	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-25	0.5103	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-25	0.5103	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-25	0.5103	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-25	0.5103	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-25	0.5103	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-25	0.5103	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-25	0.5103	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-25	0.5103	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-25	0.5103	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
	48401-44-03	BCO	LCS		10/17/2001	12/5/2001		49038-60	13C-PCB-105	32598-14-4	PCB	MOD 1668A	68	%RECOVERY			
	48401-44-03	BCO	LCS		10/17/2001	12/5/2001		49038-60	13C-PCB-126	57465-28-8	PCB	MOD 1668A	66	%RECOVERY			
	48401-44-03	BCO	LCS		10/17/2001	12/5/2001		49038-60	13C-PCB-167	52663-72-6	PCB	MOD 1668A	75	%RECOVERY			
	48401-44-03	BCO	LCS		10/17/2001	12/5/2001		49038-60	13C-PCB-156	38380-08-4	PCB	MOD 1668A	72	%RECOVERY			
	48401-44-03	BCO	LCS		10/17/2001	12/5/2001		49038-60	13C-PCB-157	69782-90-7	PCB	MOD 1668A	72	%RECOVERY			
	48401-44-03	BCO	LCS		10/17/2001	12/5/2001		49038-60	13C-PCB-169	32774-16-6	PCB	MOD 1668A	73	%RECOVERY			
	48401-44-03	BCO	LCS		10/17/2001	12/5/2001		49038-60	13C-PCB-189	39635-31-9	PCB	MOD 1668A	76	%RECOVERY			
	48401-44-03	BCO	LCS		10/17/2001	12/5/2001		49038-60	13C-PCB-28	7012-37-5	PCB	MOD 1668A	74	%RECOVERY			
	48401-44-03	BCO	LCS		10/17/2001	12/5/2001		49038-60	13C-PCB-111	39635-32-0	PCB	MOD 1668A	64	%RECOVERY			
	48401-44-03	BCO	LCS		10/17/2001	12/5/2001		49038-60	13C-PCB-178	52663-67-9	PCB	MOD 1668A	73	%RECOVERY			

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
	48401-44-03		1.00		Lab Extraction ID =49038-60-25	0.5103	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-25	0.5103	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-25	0.5103	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-25	0.5103	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-25	0.5103	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-25	0.5103	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-25	0.5103	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-25	0.5103	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-25	0.5103	G_WET				T
	48401-44-03		1.00		Lab Extraction ID =49038-60-25	0.5103	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
	48401-44-03	BCO	M_BLANK		10/29/01	12/12/01		49038-71	PCB-81	70362-50-4	PCB	MOD 1668A	17.06	pg/g - Wet Wt	J		500.00
	48401-44-03	BCO	M_BLANK		10/29/01	12/12/01		49038-71	PCB-77	32598-13-3	PCB	MOD 1668A	25.80	pg/g - Wet Wt	J		500.00
	48401-44-03	BCO	M_BLANK		10/29/01	12/12/01		49038-71	PCB-106	70424-69-0	PCB	MOD 1668A	1000.00	pg/g - Wet Wt	UC		1000.00
	48401-44-03	BCO	M_BLANK		10/29/01	12/12/01		49038-71	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		1000.00
	48401-44-03	BCO	M_BLANK		10/29/01	12/12/01		49038-71	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		500.00
	48401-44-03	BCO	M_BLANK		10/29/01	12/12/01		49038-71	PCB-118	31508-00-6	PCB	MOD 1668A	728.66	pg/g - Wet Wt			500.00
	48401-44-03	BCO	M_BLANK		10/29/01	12/12/01		49038-71	PCB-114	74472-37-0	PCB	MOD 1668A	15.56	pg/g - Wet Wt	J		500.00
	48401-44-03	BCO	M_BLANK		10/29/01	12/12/01		49038-71	PCB-105	32598-14-4	PCB	MOD 1668A	264.92	pg/g - Wet Wt			200.00
	48401-44-03	BCO	M_BLANK		10/29/01	12/12/01		49038-71	PCB-126	57465-28-8	PCB	MOD 1668A	1000.00	pg/g - Wet Wt	U		1000.00
	48401-44-03	BCO	M_BLANK		10/29/01	12/12/01		49038-71	PCB-167	52663-72-6	PCB	MOD 1668A	16.28	pg/g - Wet Wt	J		500.00
	48401-44-03	BCO	M_BLANK		10/29/01	12/12/01		49038-71	PCB-156	38380-08-4	PCB	MOD 1668A	44.12	pg/g - Wet Wt	JC		500.00
	48401-44-03	BCO	M_BLANK		10/29/01	12/12/01		49038-71	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	C156		500.00
	48401-44-03	BCO	M_BLANK		10/29/01	12/12/01		49038-71	PCB-169	32774-16-6	PCB	MOD 1668A	500.00	pg/g - Wet Wt	U		500.00
	48401-44-03	BCO	M_BLANK		10/29/01	12/12/01		49038-71	PCB-189	39635-31-9	PCB	MOD 1668A	500.00	pg/g - Wet Wt	U		500.00
	48401-44-03	BCO	M_BLANK		10/29/01	12/12/01		49038-71	13C-PCB-81	70362-50-4	PCB	MOD 1668A	64	%RECOVERY			
	48401-44-03	BCO	M_BLANK		10/29/01	12/12/01		49038-71	13C-PCB-77	32598-13-3	PCB	MOD 1668A	69	%RECOVERY			
	48401-44-03	BCO	M_BLANK		10/29/01	12/12/01		49038-71	13C-PCB-123	65510-44-3	PCB	MOD 1668A	56	%RECOVERY			
	48401-44-03	BCO	M_BLANK		10/29/01	12/12/01		49038-71	13C-PCB-118	31508-00-6	PCB	MOD 1668A	55	%RECOVERY			
	48401-44-03	BCO	M_BLANK		10/29/01	12/12/01		49038-71	13C-PCB-114	74472-37-0	PCB	MOD 1668A	50	%RECOVERY			
	48401-44-03	BCO	M_BLANK		10/29/01	12/12/01		49038-71	13C-PCB-105	32598-14-4	PCB	MOD 1668A	62	%RECOVERY			
	48401-44-03	BCO	M_BLANK		10/29/01	12/12/01		49038-71	13C-PCB-126	57465-28-8	PCB	MOD 1668A	64	%RECOVERY			
	48401-44-03	BCO	M_BLANK		10/29/01	12/12/01		49038-71	13C-PCB-167	52663-72-6	PCB	MOD 1668A	46	%RECOVERY			
	48401-44-03	BCO	M_BLANK		10/29/01	12/12/01		49038-71	13C-PCB-156	38380-08-4	PCB	MOD 1668A	57	%RECOVERY			
	48401-44-03	BCO	M_BLANK		10/29/01	12/12/01		49038-71	13C-PCB-157	69782-90-7	PCB	MOD 1668A	57	%RECOVERY			
	48401-44-03	BCO	M_BLANK		10/29/01	12/12/01		49038-71	13C-PCB-169	32774-16-6	PCB	MOD 1668A	57	%RECOVERY			
	48401-44-03	BCO	M_BLANK		10/29/01	12/12/01		49038-71	13C-PCB-189	39635-31-9	PCB	MOD 1668A	49	%RECOVERY			
	48401-44-03	BCO	M_BLANK		10/29/01	12/12/01		49038-71	13C-PCB-28	7012-37-5	PCB	MOD 1668A	60	%RECOVERY			
	48401-44-03	BCO	M_BLANK		10/29/01	12/12/01		49038-71	13C-PCB-111	39635-32-0	PCB	MOD 1668A	31	%RECOVERY			
	48401-44-03	BCO	M_BLANK		10/29/01	12/12/01		49038-71	13C-PCB-178	52663-67-9	PCB	MOD 1668A	42	%RECOVERY			
42828-CONC-12-C	48401-78-22	BCO	NORMAL	07/14/01	10/29/01	12/12/01		49038-71	PCB-81	70362-50-4	PCB	MOD 1668A	634.76	pg/g - Wet Wt	U		634.76
42828-CONC-12-C	48401-78-22	BCO	NORMAL	07/14/01	10/29/01	12/12/01		49038-71	PCB-77	32598-13-3	PCB	MOD 1668A	2424.29	pg/g - Wet Wt			634.76
42828-CONC-12-C	48401-78-22	BCO	NORMAL	07/14/01	10/29/01	12/12/01		49038-71	PCB-106	70424-69-0	PCB	MOD 1668A	12.90	pg/g - Wet Wt	JC		1269.52
42828-CONC-12-C	48401-78-22	BCO	NORMAL	07/14/01	10/29/01	12/12/01		49038-71	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		1269.52
42828-CONC-12-C	48401-78-22	BCO	NORMAL	07/14/01	10/29/01	12/12/01		49038-71	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		634.76
42828-CONC-12-C	48401-78-22	BCO	NORMAL	07/14/01	10/29/01	12/12/01		49038-71	PCB-118	31508-00-6	PCB	MOD 1668A	1117.25	pg/g - Wet Wt			634.76
42828-CONC-12-C	48401-78-22	BCO	NORMAL	07/14/01	10/29/01	12/12/01		49038-71	PCB-114	74472-37-0	PCB	MOD 1668A	24.09	pg/g - Wet Wt	J		634.76
42828-CONC-12-C	48401-78-22	BCO	NORMAL	07/14/01	10/29/01	12/12/01		49038-71	PCB-105	32598-14-4	PCB	MOD 1668A	330.51	pg/g - Wet Wt			253.90
42828-CONC-12-C	48401-78-22	BCO	NORMAL	07/14/01	10/29/01	12/12/01		49038-71	PCB-126	57465-28-8	PCB	MOD 1668A	2476.43	pg/g - Wet Wt			1269.52
42828-CONC-12-C	48401-78-22	BCO	NORMAL	07/14/01	10/29/01	12/12/01		49038-71	PCB-167	52663-72-6	PCB	MOD 1668A	37.98	pg/g - Wet Wt	J		634.76
42828-CONC-12-C	48401-78-22	BCO	NORMAL	07/14/01	10/29/01	12/12/01		49038-71	PCB-156	38380-08-4	PCB	MOD 1668A	49.26	pg/g - Wet Wt	JC		634.76
42828-CONC-12-C	48401-78-22	BCO	NORMAL	07/14/01	10/29/01	12/12/01		49038-71	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	JC156		634.76
42828-CONC-12-C	48401-78-22	BCO	NORMAL	07/14/01	10/29/01	12/12/01		49038-71	PCB-169	32774-16-6	PCB	MOD 1668A	4.13	pg/g - Wet Wt	J		634.76
42828-CONC-12-C	48401-78-22	BCO	NORMAL	07/14/01	10/29/01	12/12/01		49038-71	PCB-189	39635-31-9	PCB	MOD 1668A	2.67	pg/g - Wet Wt	J		634.76
42828-CONC-12-C	48401-78-22	BCO	NORMAL	07/14/01	10/29/01	12/12/01		49038-71	13C-PCB-81	70362-50-4	PCB	MOD 1668A	97	%RECOVERY			
42828-CONC-12-C	48401-78-22	BCO	NORMAL	07/14/01	10/29/01	12/12/01		49038-71	13C-PCB-77	32598-13-3	PCB	MOD 1668A	92	%RECOVERY			
42828-CONC-12-C	48401-78-22	BCO	NORMAL	07/14/01	10/29/01	12/12/01		49038-71	13C-PCB-123	65510-44-3	PCB	MOD 1668A	84	%RECOVERY			
42828-CONC-12-C	48401-78-22	BCO	NORMAL	07/14/01	10/29/01	12/12/01		49038-71	13C-PCB-118	31508-00-6	PCB	MOD 1668A	85	%RECOVERY			
42828-CONC-12-C	48401-78-22	BCO	NORMAL	07/14/01	10/29/01	12/12/01		49038-71	13C-PCB-114	74472-37-0	PCB	MOD 1668A	78	%RECOVERY			
42828-CONC-12-C	48401-78-22	BCO	NORMAL	07/14/01	10/29/01	12/12/01		49038-71	13C-PCB-105	32598-14-4	PCB	MOD 1668A	84	%RECOVERY			
42828-CONC-12-C	48401-78-22	BCO	NORMAL	07/14/01	10/29/01	12/12/01		49038-71	13C-PCB-126	57465-28-8	PCB	MOD 1668A	86	%RECOVERY			
42828-CONC-12-C	48401-78-22	BCO	NORMAL	07/14/01	10/29/01	12/12/01		49038-71	13C-PCB-167	52663-72-6	PCB	MOD 1668A	88	%RECOVERY			
42828-CONC-12-C	48401-78-22	BCO	NORMAL	07/14/01	10/29/01	12/12/01		49038-71	13C-PCB-156	38380-08-4	PCB	MOD 1668A	83	%RECOVERY			
42828-CONC-12-C	48401-78-22	BCO	NORMAL	07/14/01	10/29/01	12/12/01		49038-71	13C-PCB-157	69782-90-7	PCB	MOD 1668A	83	%RECOVERY			
42828-CONC-12-C	48401-78-22	BCO	NORMAL	07/14/01	10/29/01	12/12/01		49038-71	13C-PCB-169	32774-16-6	PCB	MOD 1668A	71	%RECOVERY			
42828-CONC-12-C	48401-78-22	BCO	NORMAL	07/14/01	10/29/01	12/12/01		49038-71	13C-PCB-189	39635-31-9	PCB	MOD 1668A	99	%RECOVERY			

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
	48401-44-03		1.00		Lab Extraction ID = 49038-71-25	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-25	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-25	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-25	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-25	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-25	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-25	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-25	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-25	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-25	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-25	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-25	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-25	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-25	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-25	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-25	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-25	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-25	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-25	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-25	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-25	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-25	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-25	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-25	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-25	1.00	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-25	1.00	G_WET				T
42828-CONC-12-C	48401-78-22		1.00		Lab Extraction ID = 49038-71-02	0.7877	G_WET	634.76	UJ		T
42828-CONC-12-C	48401-78-22		1.00		Lab Extraction ID = 49038-71-02	0.7877	G_WET	2424.29	J		T
42828-CONC-12-C	48401-78-22		1.00		Lab Extraction ID = 49038-71-02	0.7877	G_WET	12.9	UJ		T
42828-CONC-12-C	48401-78-22		1.00		Lab Extraction ID = 49038-71-02	0.7877	G_WET				T
42828-CONC-12-C	48401-78-22		1.00		Lab Extraction ID = 49038-71-02	0.7877	G_WET				T
42828-CONC-12-C	48401-78-22		1.00		Lab Extraction ID = 49038-71-02	0.7877	G_WET	1117.25	UJ		T
42828-CONC-12-C	48401-78-22		1.00		Lab Extraction ID = 49038-71-02	0.7877	G_WET	24.09	UJ		T
42828-CONC-12-C	48401-78-22		1.00		Lab Extraction ID = 49038-71-02	0.7877	G_WET	330.51	UJ		T
42828-CONC-12-C	48401-78-22		1.00		Lab Extraction ID = 49038-71-02	0.7877	G_WET	2476.43	J		T
42828-CONC-12-C	48401-78-22		1.00		Lab Extraction ID = 49038-71-02	0.7877	G_WET	37.98	UJ		T
42828-CONC-12-C	48401-78-22		1.00		Lab Extraction ID = 49038-71-02	0.7877	G_WET	49.26	UJ		T
42828-CONC-12-C	48401-78-22		1.00		Lab Extraction ID = 49038-71-02	0.7877	G_WET				T
42828-CONC-12-C	48401-78-22		1.00		Lab Extraction ID = 49038-71-02	0.7877	G_WET	4.13	UJ		T
42828-CONC-12-C	48401-78-22		1.00		Lab Extraction ID = 49038-71-02	0.7877	G_WET	2.67	UJ		T
42828-CONC-12-C	48401-78-22		1.00		Lab Extraction ID = 49038-71-02	0.7877	G_WET				T
42828-CONC-12-C	48401-78-22		1.00		Lab Extraction ID = 49038-71-02	0.7877	G_WET				T
42828-CONC-12-C	48401-78-22		1.00		Lab Extraction ID = 49038-71-02	0.7877	G_WET				T
42828-CONC-12-C	48401-78-22		1.00		Lab Extraction ID = 49038-71-02	0.7877	G_WET				T
42828-CONC-12-C	48401-78-22		1.00		Lab Extraction ID = 49038-71-02	0.7877	G_WET				T
42828-CONC-12-C	48401-78-22		1.00		Lab Extraction ID = 49038-71-02	0.7877	G_WET				T
42828-CONC-12-C	48401-78-22		1.00		Lab Extraction ID = 49038-71-02	0.7877	G_WET				T
42828-CONC-12-C	48401-78-22		1.00		Lab Extraction ID = 49038-71-02	0.7877	G_WET				T
42828-CONC-12-C	48401-78-22		1.00		Lab Extraction ID = 49038-71-02	0.7877	G_WET				T
42828-CONC-12-C	48401-78-22		1.00		Lab Extraction ID = 49038-71-02	0.7877	G_WET				T
42828-CONC-12-C	48401-78-22		1.00		Lab Extraction ID = 49038-71-02	0.7877	G_WET				T
42828-CONC-12-C	48401-78-22		1.00		Lab Extraction ID = 49038-71-02	0.7877	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
42828-CONC-12-C	48401-78-22	BCO	NORMAL	07/14/01	10/29/01	12/12/01		49038-71	13C-PCB-28	7012-37-5	PCB	MOD 1668A	88	%RECOVERY			
42828-CONC-12-C	48401-78-22	BCO	NORMAL	07/14/01	10/29/01	12/12/01		49038-71	13C-PCB-111	39635-32-0	PCB	MOD 1668A	75	%RECOVERY			
42828-CONC-12-C	48401-78-22	BCO	NORMAL	07/14/01	10/29/01	12/12/01		49038-71	13C-PCB-178	52663-67-9	PCB	MOD 1668A	75	%RECOVERY			
42828-CONC-11-A	48401-79-07	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-81	70362-50-4	PCB	MOD 1668A	632.51	pg/g - Wet Wt	U		632.51
42828-CONC-11-A	48401-79-07	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-77	32598-13-3	PCB	MOD 1668A	1602.19	pg/g - Wet Wt			632.51
42828-CONC-11-A	48401-79-07	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-106	70424-69-0	PCB	MOD 1668A	14.83	pg/g - Wet Wt	JC		1265.02
42828-CONC-11-A	48401-79-07	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		1265.02
42828-CONC-11-A	48401-79-07	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		632.51
42828-CONC-11-A	48401-79-07	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-118	31508-00-6	PCB	MOD 1668A	1059.94	pg/g - Wet Wt			632.51
42828-CONC-11-A	48401-79-07	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-114	74472-37-0	PCB	MOD 1668A	17.97	pg/g - Wet Wt	J		632.51
42828-CONC-11-A	48401-79-07	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-105	32598-14-4	PCB	MOD 1668A	314.82	pg/g - Wet Wt			253.00
42828-CONC-11-A	48401-79-07	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-126	57465-28-8	PCB	MOD 1668A	2000.43	pg/g - Wet Wt			1265.02
42828-CONC-11-A	48401-79-07	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-167	52663-72-6	PCB	MOD 1668A	43.52	pg/g - Wet Wt	J		632.51
42828-CONC-11-A	48401-79-07	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-156	38380-08-4	PCB	MOD 1668A	52.14	pg/g - Wet Wt	JC		632.51
42828-CONC-11-A	48401-79-07	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	JC156		632.51
42828-CONC-11-A	48401-79-07	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-169	32774-16-6	PCB	MOD 1668A	4.96	pg/g - Wet Wt	J		632.51
42828-CONC-11-A	48401-79-07	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-189	39635-31-9	PCB	MOD 1668A	2.00	pg/g - Wet Wt	J		632.51
42828-CONC-11-A	48401-79-07	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-81	70362-50-4	PCB	MOD 1668A	73	%RECOVERY			
42828-CONC-11-A	48401-79-07	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-77	32598-13-3	PCB	MOD 1668A	70	%RECOVERY			
42828-CONC-11-A	48401-79-07	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-123	65510-44-3	PCB	MOD 1668A	65	%RECOVERY			
42828-CONC-11-A	48401-79-07	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-118	31508-00-6	PCB	MOD 1668A	65	%RECOVERY			
42828-CONC-11-A	48401-79-07	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-114	74472-37-0	PCB	MOD 1668A	59	%RECOVERY			
42828-CONC-11-A	48401-79-07	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-105	32598-14-4	PCB	MOD 1668A	62	%RECOVERY			
42828-CONC-11-A	48401-79-07	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-126	57465-28-8	PCB	MOD 1668A	66	%RECOVERY			
42828-CONC-11-A	48401-79-07	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-167	52663-72-6	PCB	MOD 1668A	64	%RECOVERY			
42828-CONC-11-A	48401-79-07	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-156	38380-08-4	PCB	MOD 1668A	61	%RECOVERY			
42828-CONC-11-A	48401-79-07	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-157	69782-90-7	PCB	MOD 1668A	61	%RECOVERY			
42828-CONC-11-A	48401-79-07	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-169	32774-16-6	PCB	MOD 1668A	58	%RECOVERY			
42828-CONC-11-A	48401-79-07	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-189	39635-31-9	PCB	MOD 1668A	76	%RECOVERY			
42828-CONC-11-A	48401-79-07	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-28	7012-37-5	PCB	MOD 1668A	84	%RECOVERY			
42828-CONC-11-A	48401-79-07	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-111	39635-32-0	PCB	MOD 1668A	71	%RECOVERY			
42828-CONC-11-A	48401-79-07	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-178	52663-67-9	PCB	MOD 1668A	72	%RECOVERY			
42828-CONC-11-B	48401-79-08	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-81	70362-50-4	PCB	MOD 1668A	640.45	pg/g - Wet Wt	U		640.45
42828-CONC-11-B	48401-79-08	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-77	32598-13-3	PCB	MOD 1668A	1689.25	pg/g - Wet Wt			640.45
42828-CONC-11-B	48401-79-08	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-106	70424-69-0	PCB	MOD 1668A	43.98	pg/g - Wet Wt	JC		1280.90
42828-CONC-11-B	48401-79-08	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		1280.90
42828-CONC-11-B	48401-79-08	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		640.45
42828-CONC-11-B	48401-79-08	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-118	31508-00-6	PCB	MOD 1668A	818.89	pg/g - Wet Wt			640.45
42828-CONC-11-B	48401-79-08	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-114	74472-37-0	PCB	MOD 1668A	14.29	pg/g - Wet Wt	J		640.45
42828-CONC-11-B	48401-79-08	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-105	32598-14-4	PCB	MOD 1668A	243.83	pg/g - Wet Wt	J		256.18
42828-CONC-11-B	48401-79-08	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-126	57465-28-8	PCB	MOD 1668A	2118.70	pg/g - Wet Wt			1280.90
42828-CONC-11-B	48401-79-08	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-167	52663-72-6	PCB	MOD 1668A	36.20	pg/g - Wet Wt	J		640.45
42828-CONC-11-B	48401-79-08	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-156	38380-08-4	PCB	MOD 1668A	36.26	pg/g - Wet Wt	JC		640.45
42828-CONC-11-B	48401-79-08	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	JC156		640.45
42828-CONC-11-B	48401-79-08	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-169	32774-16-6	PCB	MOD 1668A	640.45	pg/g - Wet Wt	U		640.45
42828-CONC-11-B	48401-79-08	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-189	39635-31-9	PCB	MOD 1668A	1.27	pg/g - Wet Wt	J		640.45
42828-CONC-11-B	48401-79-08	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-81	70362-50-4	PCB	MOD 1668A	93	%RECOVERY			
42828-CONC-11-B	48401-79-08	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-77	32598-13-3	PCB	MOD 1668A	84	%RECOVERY			
42828-CONC-11-B	48401-79-08	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-123	65510-44-3	PCB	MOD 1668A	81	%RECOVERY			
42828-CONC-11-B	48401-79-08	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-118	31508-00-6	PCB	MOD 1668A	76	%RECOVERY			
42828-CONC-11-B	48401-79-08	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-114	74472-37-0	PCB	MOD 1668A	73	%RECOVERY			
42828-CONC-11-B	48401-79-08	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-105	32598-14-4	PCB	MOD 1668A	75	%RECOVERY			
42828-CONC-11-B	48401-79-08	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-126	57465-28-8	PCB	MOD 1668A	81	%RECOVERY			
42828-CONC-11-B	48401-79-08	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-167	52663-72-6	PCB	MOD 1668A	78	%RECOVERY			
42828-CONC-11-B	48401-79-08	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-156	38380-08-4	PCB	MOD 1668A	72	%RECOVERY			

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
42828-CONC-12-C	48401-78-22		1.00		Lab Extraction ID = 49038-71-02	0.7877	G_WET				T
42828-CONC-12-C	48401-78-22		1.00		Lab Extraction ID = 49038-71-02	0.7877	G_WET				T
42828-CONC-12-C	48401-78-22		1.00		Lab Extraction ID = 49038-71-02	0.7877	G_WET				T
42828-CONC-11-A	48401-79-07		1.00		Lab Extraction ID = 49038-71-03	0.7905	G_WET	632.51	UJ		T
42828-CONC-11-A	48401-79-07		1.00		Lab Extraction ID = 49038-71-03	0.7905	G_WET	1602.19	J		T
42828-CONC-11-A	48401-79-07		1.00		Lab Extraction ID = 49038-71-03	0.7905	G_WET	14.83	UJ		T
42828-CONC-11-A	48401-79-07		1.00		Lab Extraction ID = 49038-71-03	0.7905	G_WET				T
42828-CONC-11-A	48401-79-07		1.00		Lab Extraction ID = 49038-71-03	0.7905	G_WET				T
42828-CONC-11-A	48401-79-07		1.00		Lab Extraction ID = 49038-71-03	0.7905	G_WET	1059.94	UJ		T
42828-CONC-11-A	48401-79-07		1.00		Lab Extraction ID = 49038-71-03	0.7905	G_WET	17.97	UJ		T
42828-CONC-11-A	48401-79-07		1.00		Lab Extraction ID = 49038-71-03	0.7905	G_WET	314.82	UJ		T
42828-CONC-11-A	48401-79-07		1.00		Lab Extraction ID = 49038-71-03	0.7905	G_WET	2000.43	J		T
42828-CONC-11-A	48401-79-07		1.00		Lab Extraction ID = 49038-71-03	0.7905	G_WET	43.52	UJ		T
42828-CONC-11-A	48401-79-07		1.00		Lab Extraction ID = 49038-71-03	0.7905	G_WET	52.14	UJ		T
42828-CONC-11-A	48401-79-07		1.00		Lab Extraction ID = 49038-71-03	0.7905	G_WET				T
42828-CONC-11-A	48401-79-07		1.00		Lab Extraction ID = 49038-71-03	0.7905	G_WET	4.96	UJ		T
42828-CONC-11-A	48401-79-07		1.00		Lab Extraction ID = 49038-71-03	0.7905	G_WET	2	UJ		T
42828-CONC-11-A	48401-79-07		1.00		Lab Extraction ID = 49038-71-03	0.7905	G_WET				T
42828-CONC-11-A	48401-79-07		1.00		Lab Extraction ID = 49038-71-03	0.7905	G_WET				T
42828-CONC-11-A	48401-79-07		1.00		Lab Extraction ID = 49038-71-03	0.7905	G_WET				T
42828-CONC-11-A	48401-79-07		1.00		Lab Extraction ID = 49038-71-03	0.7905	G_WET				T
42828-CONC-11-A	48401-79-07		1.00		Lab Extraction ID = 49038-71-03	0.7905	G_WET				T
42828-CONC-11-A	48401-79-07		1.00		Lab Extraction ID = 49038-71-03	0.7905	G_WET				T
42828-CONC-11-A	48401-79-07		1.00		Lab Extraction ID = 49038-71-03	0.7905	G_WET				T
42828-CONC-11-A	48401-79-07		1.00		Lab Extraction ID = 49038-71-03	0.7905	G_WET				T
42828-CONC-11-A	48401-79-07		1.00		Lab Extraction ID = 49038-71-03	0.7905	G_WET				T
42828-CONC-11-A	48401-79-07		1.00		Lab Extraction ID = 49038-71-03	0.7905	G_WET				T
42828-CONC-11-A	48401-79-07		1.00		Lab Extraction ID = 49038-71-03	0.7905	G_WET				T
42828-CONC-11-A	48401-79-07		1.00		Lab Extraction ID = 49038-71-03	0.7905	G_WET				T
42828-CONC-11-A	48401-79-07		1.00		Lab Extraction ID = 49038-71-03	0.7905	G_WET				T
42828-CONC-11-B	48401-79-08		1.00		Lab Extraction ID = 49038-71-04	0.7807	G_WET	640.45	UJ		T
42828-CONC-11-B	48401-79-08		1.00		Lab Extraction ID = 49038-71-04	0.7807	G_WET	1689.25	J		T
42828-CONC-11-B	48401-79-08		1.00		Lab Extraction ID = 49038-71-04	0.7807	G_WET	43.98	UJ		T
42828-CONC-11-B	48401-79-08		1.00		Lab Extraction ID = 49038-71-04	0.7807	G_WET				T
42828-CONC-11-B	48401-79-08		1.00		Lab Extraction ID = 49038-71-04	0.7807	G_WET				T
42828-CONC-11-B	48401-79-08		1.00		Lab Extraction ID = 49038-71-04	0.7807	G_WET	818.89	UJ		T
42828-CONC-11-B	48401-79-08		1.00		Lab Extraction ID = 49038-71-04	0.7807	G_WET	14.29	UJ		T
42828-CONC-11-B	48401-79-08		1.00		Lab Extraction ID = 49038-71-04	0.7807	G_WET	243.83	UJ		T
42828-CONC-11-B	48401-79-08		1.00		Lab Extraction ID = 49038-71-04	0.7807	G_WET	2118.7	J		T
42828-CONC-11-B	48401-79-08		1.00		Lab Extraction ID = 49038-71-04	0.7807	G_WET	36.2	UJ		T
42828-CONC-11-B	48401-79-08		1.00		Lab Extraction ID = 49038-71-04	0.7807	G_WET	36.26	UJ		T
42828-CONC-11-B	48401-79-08		1.00		Lab Extraction ID = 49038-71-04	0.7807	G_WET				T
42828-CONC-11-B	48401-79-08		1.00		Lab Extraction ID = 49038-71-04	0.7807	G_WET	640.45	UJ		T
42828-CONC-11-B	48401-79-08		1.00		Lab Extraction ID = 49038-71-04	0.7807	G_WET	1.27	UJ		T
42828-CONC-11-B	48401-79-08		1.00		Lab Extraction ID = 49038-71-04	0.7807	G_WET				T
42828-CONC-11-B	48401-79-08		1.00		Lab Extraction ID = 49038-71-04	0.7807	G_WET				T
42828-CONC-11-B	48401-79-08		1.00		Lab Extraction ID = 49038-71-04	0.7807	G_WET				T
42828-CONC-11-B	48401-79-08		1.00		Lab Extraction ID = 49038-71-04	0.7807	G_WET				T
42828-CONC-11-B	48401-79-08		1.00		Lab Extraction ID = 49038-71-04	0.7807	G_WET				T
42828-CONC-11-B	48401-79-08		1.00		Lab Extraction ID = 49038-71-04	0.7807	G_WET				T
42828-CONC-11-B	48401-79-08		1.00		Lab Extraction ID = 49038-71-04	0.7807	G_WET				T
42828-CONC-11-B	48401-79-08		1.00		Lab Extraction ID = 49038-71-04	0.7807	G_WET				T
42828-CONC-11-B	48401-79-08		1.00		Lab Extraction ID = 49038-71-04	0.7807	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
42828-CONC-11-B	48401-79-08	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-157	69782-90-7	PCB	MOD 1668A	72	%RECOVERY			
42828-CONC-11-B	48401-79-08	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-169	32774-16-6	PCB	MOD 1668A	58	%RECOVERY			
42828-CONC-11-B	48401-79-08	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-189	39635-31-9	PCB	MOD 1668A	104	%RECOVERY			
42828-CONC-11-B	48401-79-08	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-28	7012-37-5	PCB	MOD 1668A	80	%RECOVERY			
42828-CONC-11-B	48401-79-08	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-111	39635-32-0	PCB	MOD 1668A	72	%RECOVERY			
42828-CONC-11-B	48401-79-08	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-178	52663-67-9	PCB	MOD 1668A	66	%RECOVERY			
42828-CONC-11-C	48401-79-09	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-81	70362-50-4	PCB	MOD 1668A	686.72	pg/g - Wet Wt	U		686.72
42828-CONC-11-C	48401-79-09	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-77	32598-13-3	PCB	MOD 1668A	1413.73	pg/g - Wet Wt			686.72
42828-CONC-11-C	48401-79-09	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-106	70424-69-0	PCB	MOD 1668A	15.39	pg/g - Wet Wt	JC		1373.44
42828-CONC-11-C	48401-79-09	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		1373.44
42828-CONC-11-C	48401-79-09	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		686.72
42828-CONC-11-C	48401-79-09	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-118	31508-00-6	PCB	MOD 1668A	908.25	pg/g - Wet Wt			686.72
42828-CONC-11-C	48401-79-09	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-114	74472-37-0	PCB	MOD 1668A	17.14	pg/g - Wet Wt	J		686.72
42828-CONC-11-C	48401-79-09	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-105	32598-14-4	PCB	MOD 1668A	249.75	pg/g - Wet Wt	J		274.69
42828-CONC-11-C	48401-79-09	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-126	57465-28-8	PCB	MOD 1668A	1487.35	pg/g - Wet Wt			1373.44
42828-CONC-11-C	48401-79-09	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-167	52663-72-6	PCB	MOD 1668A	34.50	pg/g - Wet Wt	J		686.72
42828-CONC-11-C	48401-79-09	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-156	38380-08-4	PCB	MOD 1668A	34.66	pg/g - Wet Wt	JC		686.72
42828-CONC-11-C	48401-79-09	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	JC156		686.72
42828-CONC-11-C	48401-79-09	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-169	32774-16-6	PCB	MOD 1668A	2.32	pg/g - Wet Wt	J		686.72
42828-CONC-11-C	48401-79-09	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-189	39635-31-9	PCB	MOD 1668A	686.72	pg/g - Wet Wt	U		686.72
42828-CONC-11-C	48401-79-09	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-81	70362-50-4	PCB	MOD 1668A	60	%RECOVERY			
42828-CONC-11-C	48401-79-09	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-77	32598-13-3	PCB	MOD 1668A	57	%RECOVERY			
42828-CONC-11-C	48401-79-09	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-123	65510-44-3	PCB	MOD 1668A	53	%RECOVERY			
42828-CONC-11-C	48401-79-09	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-118	31508-00-6	PCB	MOD 1668A	53	%RECOVERY			
42828-CONC-11-C	48401-79-09	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-114	74472-37-0	PCB	MOD 1668A	49	%RECOVERY			
42828-CONC-11-C	48401-79-09	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-105	32598-14-4	PCB	MOD 1668A	71	%RECOVERY			
42828-CONC-11-C	48401-79-09	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-126	57465-28-8	PCB	MOD 1668A	54	%RECOVERY			
42828-CONC-11-C	48401-79-09	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-167	52663-72-6	PCB	MOD 1668A	35	%RECOVERY			
42828-CONC-11-C	48401-79-09	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-156	38380-08-4	PCB	MOD 1668A	52	%RECOVERY			
42828-CONC-11-C	48401-79-09	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-157	69782-90-7	PCB	MOD 1668A	52	%RECOVERY			
42828-CONC-11-C	48401-79-09	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-169	32774-16-6	PCB	MOD 1668A	41	%RECOVERY			
42828-CONC-11-C	48401-79-09	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-189	39635-31-9	PCB	MOD 1668A	43	%RECOVERY			
42828-CONC-11-C	48401-79-09	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-28	7012-37-5	PCB	MOD 1668A	55	%RECOVERY			
42828-CONC-11-C	48401-79-09	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-111	39635-32-0	PCB	MOD 1668A	23	%RECOVERY	&		
42828-CONC-11-C	48401-79-09	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-178	52663-67-9	PCB	MOD 1668A	30	%RECOVERY			
42828-CONC-8-A	48401-78-26	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-81	70362-50-4	PCB	MOD 1668A	500.55	pg/g - Wet Wt	U		500.55
42828-CONC-8-A	48401-78-26	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-77	32598-13-3	PCB	MOD 1668A	243.21	pg/g - Wet Wt	J		500.55
42828-CONC-8-A	48401-78-26	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-106	70424-69-0	PCB	MOD 1668A	13.20	pg/g - Wet Wt	JC		1001.10
42828-CONC-8-A	48401-78-26	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		1001.10
42828-CONC-8-A	48401-78-26	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		500.55
42828-CONC-8-A	48401-78-26	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-118	31508-00-6	PCB	MOD 1668A	623.53	pg/g - Wet Wt			500.55
42828-CONC-8-A	48401-78-26	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-114	74472-37-0	PCB	MOD 1668A	14.81	pg/g - Wet Wt	J		500.55
42828-CONC-8-A	48401-78-26	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-105	32598-14-4	PCB	MOD 1668A	182.87	pg/g - Wet Wt	J		200.22
42828-CONC-8-A	48401-78-26	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-126	57465-28-8	PCB	MOD 1668A	229.82	pg/g - Wet Wt	J		1001.10
42828-CONC-8-A	48401-78-26	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-167	52663-72-6	PCB	MOD 1668A	30.35	pg/g - Wet Wt	J		500.55
42828-CONC-8-A	48401-78-26	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-156	38380-08-4	PCB	MOD 1668A	28.34	pg/g - Wet Wt	JC		500.55
42828-CONC-8-A	48401-78-26	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	JC156		500.55
42828-CONC-8-A	48401-78-26	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-169	32774-16-6	PCB	MOD 1668A	500.55	pg/g - Wet Wt	U		500.55
42828-CONC-8-A	48401-78-26	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-189	39635-31-9	PCB	MOD 1668A	500.55	pg/g - Wet Wt	U		500.55
42828-CONC-8-A	48401-78-26	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-81	70362-50-4	PCB	MOD 1668A	62	%RECOVERY			
42828-CONC-8-A	48401-78-26	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-77	32598-13-3	PCB	MOD 1668A	80	%RECOVERY			
42828-CONC-8-A	48401-78-26	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-123	65510-44-3	PCB	MOD 1668A	29	%RECOVERY			
42828-CONC-8-A	48401-78-26	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-118	31508-00-6	PCB	MOD 1668A	32	%RECOVERY			
42828-CONC-8-A	48401-78-26	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-114	74472-37-0	PCB	MOD 1668A	27	%RECOVERY			
42828-CONC-8-A	48401-78-26	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-105	32598-14-4	PCB	MOD 1668A	68	%RECOVERY			

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
42828-CONC-11-B	48401-79-08		1.00		Lab Extraction ID = 49038-71-04	0.7807	G_WET				T
42828-CONC-11-B	48401-79-08		1.00		Lab Extraction ID = 49038-71-04	0.7807	G_WET				T
42828-CONC-11-B	48401-79-08		1.00		Lab Extraction ID = 49038-71-04	0.7807	G_WET				T
42828-CONC-11-B	48401-79-08		1.00		Lab Extraction ID = 49038-71-04	0.7807	G_WET				T
42828-CONC-11-B	48401-79-08		1.00		Lab Extraction ID = 49038-71-04	0.7807	G_WET				T
42828-CONC-11-B	48401-79-08		1.00		Lab Extraction ID = 49038-71-04	0.7807	G_WET				T
42828-CONC-11-C	48401-79-09		1.00		Lab Extraction ID = 49038-71-05	0.7281	G_WET	686.72	UJ		T
42828-CONC-11-C	48401-79-09		1.00		Lab Extraction ID = 49038-71-05	0.7281	G_WET	1413.73	J		T
42828-CONC-11-C	48401-79-09		1.00		Lab Extraction ID = 49038-71-05	0.7281	G_WET	15.39	UJ		T
42828-CONC-11-C	48401-79-09		1.00		Lab Extraction ID = 49038-71-05	0.7281	G_WET				T
42828-CONC-11-C	48401-79-09		1.00		Lab Extraction ID = 49038-71-05	0.7281	G_WET				T
42828-CONC-11-C	48401-79-09		1.00		Lab Extraction ID = 49038-71-05	0.7281	G_WET	908.25	UJ		T
42828-CONC-11-C	48401-79-09		1.00		Lab Extraction ID = 49038-71-05	0.7281	G_WET	17.14	UJ		T
42828-CONC-11-C	48401-79-09		1.00		Lab Extraction ID = 49038-71-05	0.7281	G_WET	249.75	UJ		T
42828-CONC-11-C	48401-79-09		1.00		Lab Extraction ID = 49038-71-05	0.7281	G_WET	1487.35	J		T
42828-CONC-11-C	48401-79-09		1.00		Lab Extraction ID = 49038-71-05	0.7281	G_WET	34.5	UJ		T
42828-CONC-11-C	48401-79-09		1.00		Lab Extraction ID = 49038-71-05	0.7281	G_WET	34.66	UJ		T
42828-CONC-11-C	48401-79-09		1.00		Lab Extraction ID = 49038-71-05	0.7281	G_WET				T
42828-CONC-11-C	48401-79-09		1.00		Lab Extraction ID = 49038-71-05	0.7281	G_WET	2.32	UJ		T
42828-CONC-11-C	48401-79-09		1.00		Lab Extraction ID = 49038-71-05	0.7281	G_WET	686.72	UJ		T
42828-CONC-11-C	48401-79-09		1.00		Lab Extraction ID = 49038-71-05	0.7281	G_WET				T
42828-CONC-11-C	48401-79-09		1.00		Lab Extraction ID = 49038-71-05	0.7281	G_WET				T
42828-CONC-11-C	48401-79-09		1.00		Lab Extraction ID = 49038-71-05	0.7281	G_WET				T
42828-CONC-11-C	48401-79-09		1.00		Lab Extraction ID = 49038-71-05	0.7281	G_WET				T
42828-CONC-11-C	48401-79-09		1.00		Lab Extraction ID = 49038-71-05	0.7281	G_WET				T
42828-CONC-11-C	48401-79-09		1.00		Lab Extraction ID = 49038-71-05	0.7281	G_WET				T
42828-CONC-11-C	48401-79-09		1.00		Lab Extraction ID = 49038-71-05	0.7281	G_WET				T
42828-CONC-11-C	48401-79-09		1.00		Lab Extraction ID = 49038-71-05	0.7281	G_WET				T
42828-CONC-11-C	48401-79-09		1.00		Lab Extraction ID = 49038-71-05	0.7281	G_WET				T
42828-CONC-11-C	48401-79-09		1.00		Lab Extraction ID = 49038-71-05	0.7281	G_WET				T
42828-CONC-11-C	48401-79-09		1.00		Lab Extraction ID = 49038-71-05	0.7281	G_WET				T
42828-CONC-11-C	48401-79-09		1.00		Lab Extraction ID = 49038-71-05	0.7281	G_WET				T
42828-CONC-11-C	48401-79-09		1.00		Lab Extraction ID = 49038-71-05	0.7281	G_WET				T
42828-CONC-8-A	48401-78-26		1.00		Lab Extraction ID = 49038-71-06	0.9989	G_WET		R		T
42828-CONC-8-A	48401-78-26		1.00		Lab Extraction ID = 49038-71-06	0.9989	G_WET	243.21	J		T
42828-CONC-8-A	48401-78-26		1.00		Lab Extraction ID = 49038-71-06	0.9989	G_WET	13.2	UJ		T
42828-CONC-8-A	48401-78-26		1.00		Lab Extraction ID = 49038-71-06	0.9989	G_WET				T
42828-CONC-8-A	48401-78-26		1.00		Lab Extraction ID = 49038-71-06	0.9989	G_WET				T
42828-CONC-8-A	48401-78-26		1.00		Lab Extraction ID = 49038-71-06	0.9989	G_WET	623.53	UJ		T
42828-CONC-8-A	48401-78-26		1.00		Lab Extraction ID = 49038-71-06	0.9989	G_WET	14.81	UJ		T
42828-CONC-8-A	48401-78-26		1.00		Lab Extraction ID = 49038-71-06	0.9989	G_WET	182.87	UJ		T
42828-CONC-8-A	48401-78-26		1.00		Lab Extraction ID = 49038-71-06	0.9989	G_WET	229.82	J		T
42828-CONC-8-A	48401-78-26		1.00		Lab Extraction ID = 49038-71-06	0.9989	G_WET	30.35	UJ		T
42828-CONC-8-A	48401-78-26		1.00		Lab Extraction ID = 49038-71-06	0.9989	G_WET	28.34	UJ		T
42828-CONC-8-A	48401-78-26		1.00		Lab Extraction ID = 49038-71-06	0.9989	G_WET				T
42828-CONC-8-A	48401-78-26		1.00		Lab Extraction ID = 49038-71-06	0.9989	G_WET		R		T
42828-CONC-8-A	48401-78-26		1.00		Lab Extraction ID = 49038-71-06	0.9989	G_WET		R		T
42828-CONC-8-A	48401-78-26		1.00		Lab Extraction ID = 49038-71-06	0.9989	G_WET				T
42828-CONC-8-A	48401-78-26		1.00		Lab Extraction ID = 49038-71-06	0.9989	G_WET				T
42828-CONC-8-A	48401-78-26		1.00		Lab Extraction ID = 49038-71-06	0.9989	G_WET				T
42828-CONC-8-A	48401-78-26		1.00		Lab Extraction ID = 49038-71-06	0.9989	G_WET				T
42828-CONC-8-A	48401-78-26		1.00		Lab Extraction ID = 49038-71-06	0.9989	G_WET				T
42828-CONC-8-A	48401-78-26		1.00		Lab Extraction ID = 49038-71-06	0.9989	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
42828-CONC-8-A	48401-78-26	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-126	57465-28-8	PCB	MOD 1668A	67	%RECOVERY			
42828-CONC-8-A	48401-78-26	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-167	52663-72-6	PCB	MOD 1668A	12	%RECOVERY	&		
42828-CONC-8-A	48401-78-26	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-156	38380-08-4	PCB	MOD 1668A	44	%RECOVERY			
42828-CONC-8-A	48401-78-26	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-157	69782-90-7	PCB	MOD 1668A	44	%RECOVERY			
42828-CONC-8-A	48401-78-26	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-169	32774-16-6	PCB	MOD 1668A	38	%RECOVERY			
42828-CONC-8-A	48401-78-26	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-189	39635-31-9	PCB	MOD 1668A	16	%RECOVERY	&		
42828-CONC-8-A	48401-78-26	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-28	7012-37-5	PCB	MOD 1668A	47	%RECOVERY			
42828-CONC-8-A	48401-78-26	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-111	39635-32-0	PCB	MOD 1668A	5	%RECOVERY	&		
42828-CONC-8-A	48401-78-26	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-178	52663-67-9	PCB	MOD 1668A	11	%RECOVERY	&		
42828-CONC-8-B	48401-78-27	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-81	70362-50-4	PCB	MOD 1668A	21.91	pg/g - Wet Wt	J		617.51
42828-CONC-8-B	48401-78-27	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-77	32598-13-3	PCB	MOD 1668A	362.72	pg/g - Wet Wt	J		617.51
42828-CONC-8-B	48401-78-27	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-106	70424-69-0	PCB	MOD 1668A	12.57	pg/g - Wet Wt	JC		1235.02
42828-CONC-8-B	48401-78-27	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		1235.02
42828-CONC-8-B	48401-78-27	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		617.51
42828-CONC-8-B	48401-78-27	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-118	31508-00-6	PCB	MOD 1668A	901.66	pg/g - Wet Wt			617.51
42828-CONC-8-B	48401-78-27	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-114	74472-37-0	PCB	MOD 1668A	24.63	pg/g - Wet Wt	J		617.51
42828-CONC-8-B	48401-78-27	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-105	32598-14-4	PCB	MOD 1668A	250.34	pg/g - Wet Wt			247.01
42828-CONC-8-B	48401-78-27	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-126	57465-28-8	PCB	MOD 1668A	445.37	pg/g - Wet Wt	J		1235.03
42828-CONC-8-B	48401-78-27	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-167	52663-72-6	PCB	MOD 1668A	34.45	pg/g - Wet Wt	J		617.51
42828-CONC-8-B	48401-78-27	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-156	38380-08-4	PCB	MOD 1668A	32.82	pg/g - Wet Wt	JC		617.51
42828-CONC-8-B	48401-78-27	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	JC156		617.51
42828-CONC-8-B	48401-78-27	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-169	32774-16-6	PCB	MOD 1668A	617.51	pg/g - Wet Wt	U		617.51
42828-CONC-8-B	48401-78-27	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-189	39635-31-9	PCB	MOD 1668A	617.51	pg/g - Wet Wt	U		617.51
42828-CONC-8-B	48401-78-27	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-81	70362-50-4	PCB	MOD 1668A	56	%RECOVERY			
42828-CONC-8-B	48401-78-27	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-77	32598-13-3	PCB	MOD 1668A	61	%RECOVERY			
42828-CONC-8-B	48401-78-27	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-123	65510-44-3	PCB	MOD 1668A	39	%RECOVERY			
42828-CONC-8-B	48401-78-27	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-118	31508-00-6	PCB	MOD 1668A	43	%RECOVERY			
42828-CONC-8-B	48401-78-27	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-114	74472-37-0	PCB	MOD 1668A	37	%RECOVERY			
42828-CONC-8-B	48401-78-27	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-105	32598-14-4	PCB	MOD 1668A	54	%RECOVERY			
42828-CONC-8-B	48401-78-27	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-126	57465-28-8	PCB	MOD 1668A	57	%RECOVERY			
42828-CONC-8-B	48401-78-27	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-167	52663-72-6	PCB	MOD 1668A	25	%RECOVERY			
42828-CONC-8-B	48401-78-27	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-156	38380-08-4	PCB	MOD 1668A	44	%RECOVERY			
42828-CONC-8-B	48401-78-27	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-157	69782-90-7	PCB	MOD 1668A	44	%RECOVERY			
42828-CONC-8-B	48401-78-27	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-169	32774-16-6	PCB	MOD 1668A	43	%RECOVERY			
42828-CONC-8-B	48401-78-27	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-189	39635-31-9	PCB	MOD 1668A	31	%RECOVERY			
42828-CONC-8-B	48401-78-27	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-28	7012-37-5	PCB	MOD 1668A	41	%RECOVERY			
42828-CONC-8-B	48401-78-27	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-111	39635-32-0	PCB	MOD 1668A	15	%RECOVERY	&		
42828-CONC-8-B	48401-78-27	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-178	52663-67-9	PCB	MOD 1668A	22	%RECOVERY	&		
42828-CONC-8-C	48401-78-28	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-81	70362-50-4	PCB	MOD 1668A	489.96	pg/g - Wet Wt	U		489.96
42828-CONC-8-C	48401-78-28	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-77	32598-13-3	PCB	MOD 1668A	430.51	pg/g - Wet Wt	J		489.96
42828-CONC-8-C	48401-78-28	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-106	70424-69-0	PCB	MOD 1668A	10.30	pg/g - Wet Wt	JC		979.92
42828-CONC-8-C	48401-78-28	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		979.92
42828-CONC-8-C	48401-78-28	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		489.96
42828-CONC-8-C	48401-78-28	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-118	31508-00-6	PCB	MOD 1668A	584.97	pg/g - Wet Wt			489.96
42828-CONC-8-C	48401-78-28	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-114	74472-37-0	PCB	MOD 1668A	11.02	pg/g - Wet Wt	J		489.96
42828-CONC-8-C	48401-78-28	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-105	32598-14-4	PCB	MOD 1668A	168.01	pg/g - Wet Wt	J		195.98
42828-CONC-8-C	48401-78-28	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-126	57465-28-8	PCB	MOD 1668A	429.91	pg/g - Wet Wt	J		979.91
42828-CONC-8-C	48401-78-28	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-167	52663-72-6	PCB	MOD 1668A	25.47	pg/g - Wet Wt	J		489.96
42828-CONC-8-C	48401-78-28	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-156	38380-08-4	PCB	MOD 1668A	28.00	pg/g - Wet Wt	JC		489.96
42828-CONC-8-C	48401-78-28	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	JC156		489.96
42828-CONC-8-C	48401-78-28	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-169	32774-16-6	PCB	MOD 1668A	0.79	pg/g - Wet Wt	J		489.96
42828-CONC-8-C	48401-78-28	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-189	39635-31-9	PCB	MOD 1668A	1.21	pg/g - Wet Wt	J		489.96
42828-CONC-8-C	48401-78-28	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-81	70362-50-4	PCB	MOD 1668A	72	%RECOVERY			
42828-CONC-8-C	48401-78-28	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-77	32598-13-3	PCB	MOD 1668A	67	%RECOVERY			
42828-CONC-8-C	48401-78-28	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-123	65510-44-3	PCB	MOD 1668A	62	%RECOVERY			

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
42828-CONC-8-A	48401-78-26		1.00		Lab Extraction ID = 49038-71-06	0.9989	G_WET				T
42828-CONC-8-A	48401-78-26		1.00		Lab Extraction ID = 49038-71-06	0.9989	G_WET				T
42828-CONC-8-A	48401-78-26		1.00		Lab Extraction ID = 49038-71-06	0.9989	G_WET				T
42828-CONC-8-A	48401-78-26		1.00		Lab Extraction ID = 49038-71-06	0.9989	G_WET				T
42828-CONC-8-A	48401-78-26		1.00		Lab Extraction ID = 49038-71-06	0.9989	G_WET				T
42828-CONC-8-A	48401-78-26		1.00		Lab Extraction ID = 49038-71-06	0.9989	G_WET				T
42828-CONC-8-A	48401-78-26		1.00		Lab Extraction ID = 49038-71-06	0.9989	G_WET				T
42828-CONC-8-A	48401-78-26		1.00		Lab Extraction ID = 49038-71-06	0.9989	G_WET				T
42828-CONC-8-A	48401-78-26		1.00		Lab Extraction ID = 49038-71-06	0.9989	G_WET				T
42828-CONC-8-B	48401-78-27		1.00		Lab Extraction ID = 49038-71-07	0.8097	G_WET	21.91	UJ		T
42828-CONC-8-B	48401-78-27		1.00		Lab Extraction ID = 49038-71-07	0.8097	G_WET	362.72	J		T
42828-CONC-8-B	48401-78-27		1.00		Lab Extraction ID = 49038-71-07	0.8097	G_WET	12.57	UJ		T
42828-CONC-8-B	48401-78-27		1.00		Lab Extraction ID = 49038-71-07	0.8097	G_WET				T
42828-CONC-8-B	48401-78-27		1.00		Lab Extraction ID = 49038-71-07	0.8097	G_WET				T
42828-CONC-8-B	48401-78-27		1.00		Lab Extraction ID = 49038-71-07	0.8097	G_WET	901.66	UJ		T
42828-CONC-8-B	48401-78-27		1.00		Lab Extraction ID = 49038-71-07	0.8097	G_WET	24.63	UJ		T
42828-CONC-8-B	48401-78-27		1.00		Lab Extraction ID = 49038-71-07	0.8097	G_WET	250.34	UJ		T
42828-CONC-8-B	48401-78-27		1.00		Lab Extraction ID = 49038-71-07	0.8097	G_WET	445.37	J		T
42828-CONC-8-B	48401-78-27		1.00		Lab Extraction ID = 49038-71-07	0.8097	G_WET	34.45	UJ		T
42828-CONC-8-B	48401-78-27		1.00		Lab Extraction ID = 49038-71-07	0.8097	G_WET	32.82	UJ		T
42828-CONC-8-B	48401-78-27		1.00		Lab Extraction ID = 49038-71-07	0.8097	G_WET				T
42828-CONC-8-B	48401-78-27		1.00		Lab Extraction ID = 49038-71-07	0.8097	G_WET	617.51	UJ		T
42828-CONC-8-B	48401-78-27		1.00		Lab Extraction ID = 49038-71-07	0.8097	G_WET	617.51	UJ		T
42828-CONC-8-B	48401-78-27		1.00		Lab Extraction ID = 49038-71-07	0.8097	G_WET				T
42828-CONC-8-B	48401-78-27		1.00		Lab Extraction ID = 49038-71-07	0.8097	G_WET				T
42828-CONC-8-B	48401-78-27		1.00		Lab Extraction ID = 49038-71-07	0.8097	G_WET				T
42828-CONC-8-B	48401-78-27		1.00		Lab Extraction ID = 49038-71-07	0.8097	G_WET				T
42828-CONC-8-B	48401-78-27		1.00		Lab Extraction ID = 49038-71-07	0.8097	G_WET				T
42828-CONC-8-B	48401-78-27		1.00		Lab Extraction ID = 49038-71-07	0.8097	G_WET				T
42828-CONC-8-B	48401-78-27		1.00		Lab Extraction ID = 49038-71-07	0.8097	G_WET				T
42828-CONC-8-B	48401-78-27		1.00		Lab Extraction ID = 49038-71-07	0.8097	G_WET				T
42828-CONC-8-B	48401-78-27		1.00		Lab Extraction ID = 49038-71-07	0.8097	G_WET				T
42828-CONC-8-B	48401-78-27		1.00		Lab Extraction ID = 49038-71-07	0.8097	G_WET				T
42828-CONC-8-B	48401-78-27		1.00		Lab Extraction ID = 49038-71-07	0.8097	G_WET				T
42828-CONC-8-B	48401-78-27		1.00		Lab Extraction ID = 49038-71-07	0.8097	G_WET				T
42828-CONC-8-B	48401-78-27		1.00		Lab Extraction ID = 49038-71-07	0.8097	G_WET				T
42828-CONC-8-C	48401-78-28		1.00		Lab Extraction ID = 49038-71-08	1.0205	G_WET	489.96	UJ		T
42828-CONC-8-C	48401-78-28		1.00		Lab Extraction ID = 49038-71-08	1.0205	G_WET	430.51	J		T
42828-CONC-8-C	48401-78-28		1.00		Lab Extraction ID = 49038-71-08	1.0205	G_WET	10.3	UJ		T
42828-CONC-8-C	48401-78-28		1.00		Lab Extraction ID = 49038-71-08	1.0205	G_WET				T
42828-CONC-8-C	48401-78-28		1.00		Lab Extraction ID = 49038-71-08	1.0205	G_WET				T
42828-CONC-8-C	48401-78-28		1.00		Lab Extraction ID = 49038-71-08	1.0205	G_WET	584.97	UJ		T
42828-CONC-8-C	48401-78-28		1.00		Lab Extraction ID = 49038-71-08	1.0205	G_WET	11.02	UJ		T
42828-CONC-8-C	48401-78-28		1.00		Lab Extraction ID = 49038-71-08	1.0205	G_WET	168.01	UJ		T
42828-CONC-8-C	48401-78-28		1.00		Lab Extraction ID = 49038-71-08	1.0205	G_WET	429.91	J		T
42828-CONC-8-C	48401-78-28		1.00		Lab Extraction ID = 49038-71-08	1.0205	G_WET	25.47	UJ		T
42828-CONC-8-C	48401-78-28		1.00		Lab Extraction ID = 49038-71-08	1.0205	G_WET	28	UJ		T
42828-CONC-8-C	48401-78-28		1.00		Lab Extraction ID = 49038-71-08	1.0205	G_WET				T
42828-CONC-8-C	48401-78-28		1.00		Lab Extraction ID = 49038-71-08	1.0205	G_WET	0.79	UJ		T
42828-CONC-8-C	48401-78-28		1.00		Lab Extraction ID = 49038-71-08	1.0205	G_WET	1.21	UJ		T
42828-CONC-8-C	48401-78-28		1.00		Lab Extraction ID = 49038-71-08	1.0205	G_WET				T
42828-CONC-8-C	48401-78-28		1.00		Lab Extraction ID = 49038-71-08	1.0205	G_WET				T
42828-CONC-8-C	48401-78-28		1.00		Lab Extraction ID = 49038-71-08	1.0205	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
42828-CONC-8-C	48401-78-28	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-118	31508-00-6	PCB	MOD 1668A	65	%RECOVERY			
42828-CONC-8-C	48401-78-28	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-114	74472-37-0	PCB	MOD 1668A	59	%RECOVERY			
42828-CONC-8-C	48401-78-28	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-105	32598-14-4	PCB	MOD 1668A	63	%RECOVERY			
42828-CONC-8-C	48401-78-28	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-126	57465-28-8	PCB	MOD 1668A	68	%RECOVERY			
42828-CONC-8-C	48401-78-28	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-167	52663-72-6	PCB	MOD 1668A	58	%RECOVERY			
42828-CONC-8-C	48401-78-28	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-156	38380-08-4	PCB	MOD 1668A	62	%RECOVERY			
42828-CONC-8-C	48401-78-28	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-157	69782-90-7	PCB	MOD 1668A	62	%RECOVERY			
42828-CONC-8-C	48401-78-28	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-169	32774-16-6	PCB	MOD 1668A	61	%RECOVERY			
42828-CONC-8-C	48401-78-28	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-189	39635-31-9	PCB	MOD 1668A	82	%RECOVERY			
42828-CONC-8-C	48401-78-28	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-28	7012-37-5	PCB	MOD 1668A	58	%RECOVERY			
42828-CONC-8-C	48401-78-28	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-111	39635-32-0	PCB	MOD 1668A	59	%RECOVERY			
42828-CONC-8-C	48401-78-28	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-178	52663-67-9	PCB	MOD 1668A	55	%RECOVERY			
42828-CONC-5-A	48401-78-29	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-81	70362-50-4	PCB	MOD 1668A	604.45	pg/g - Wet Wt	U		604.45
42828-CONC-5-A	48401-78-29	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-77	32598-13-3	PCB	MOD 1668A	403.50	pg/g - Wet Wt	J		604.45
42828-CONC-5-A	48401-78-29	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-106	70424-69-0	PCB	MOD 1668A	11.05	pg/g - Wet Wt	JC		1208.90
42828-CONC-5-A	48401-78-29	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		1208.90
42828-CONC-5-A	48401-78-29	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		604.45
42828-CONC-5-A	48401-78-29	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-118	31508-00-6	PCB	MOD 1668A	772.52	pg/g - Wet Wt			604.45
42828-CONC-5-A	48401-78-29	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-114	74472-37-0	PCB	MOD 1668A	14.16	pg/g - Wet Wt	J		604.45
42828-CONC-5-A	48401-78-29	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-105	32598-14-4	PCB	MOD 1668A	251.93	pg/g - Wet Wt			241.78
42828-CONC-5-A	48401-78-29	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-126	57465-28-8	PCB	MOD 1668A	518.40	pg/g - Wet Wt	J		1208.90
42828-CONC-5-A	48401-78-29	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-167	52663-72-6	PCB	MOD 1668A	32.11	pg/g - Wet Wt	J		604.45
42828-CONC-5-A	48401-78-29	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-156	38380-08-4	PCB	MOD 1668A	33.22	pg/g - Wet Wt	JC		604.45
42828-CONC-5-A	48401-78-29	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	JC156		604.45
42828-CONC-5-A	48401-78-29	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-169	32774-16-6	PCB	MOD 1668A	604.45	pg/g - Wet Wt	U		604.45
42828-CONC-5-A	48401-78-29	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-189	39635-31-9	PCB	MOD 1668A	1.10	pg/g - Wet Wt	J		604.45
42828-CONC-5-A	48401-78-29	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-81	70362-50-4	PCB	MOD 1668A	68	%RECOVERY			
42828-CONC-5-A	48401-78-29	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-77	32598-13-3	PCB	MOD 1668A	72	%RECOVERY			
42828-CONC-5-A	48401-78-29	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-123	65510-44-3	PCB	MOD 1668A	61	%RECOVERY			
42828-CONC-5-A	48401-78-29	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-118	31508-00-6	PCB	MOD 1668A	60	%RECOVERY			
42828-CONC-5-A	48401-78-29	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-114	74472-37-0	PCB	MOD 1668A	56	%RECOVERY			
42828-CONC-5-A	48401-78-29	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-105	32598-14-4	PCB	MOD 1668A	63	%RECOVERY			
42828-CONC-5-A	48401-78-29	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-126	57465-28-8	PCB	MOD 1668A	75	%RECOVERY			
42828-CONC-5-A	48401-78-29	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-167	52663-72-6	PCB	MOD 1668A	49	%RECOVERY			
42828-CONC-5-A	48401-78-29	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-156	38380-08-4	PCB	MOD 1668A	52	%RECOVERY			
42828-CONC-5-A	48401-78-29	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-157	69782-90-7	PCB	MOD 1668A	52	%RECOVERY			
42828-CONC-5-A	48401-78-29	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-169	32774-16-6	PCB	MOD 1668A	59	%RECOVERY			
42828-CONC-5-A	48401-78-29	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-189	39635-31-9	PCB	MOD 1668A	61	%RECOVERY			
42828-CONC-5-A	48401-78-29	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-28	7012-37-5	PCB	MOD 1668A	51	%RECOVERY			
42828-CONC-5-A	48401-78-29	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-111	39635-32-0	PCB	MOD 1668A	39	%RECOVERY			
42828-CONC-5-A	48401-78-29	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-178	52663-67-9	PCB	MOD 1668A	46	%RECOVERY			
42828-CONC-5-B	48401-79-02	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-81	70362-50-4	PCB	MOD 1668A	15.02	pg/g - Wet Wt	J		649.10
42828-CONC-5-B	48401-79-02	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-77	32598-13-3	PCB	MOD 1668A	807.16	pg/g - Wet Wt			649.10
42828-CONC-5-B	48401-79-02	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-106	70424-69-0	PCB	MOD 1668A	16.08	pg/g - Wet Wt	JC		1298.20
42828-CONC-5-B	48401-79-02	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		1298.20
42828-CONC-5-B	48401-79-02	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		649.10
42828-CONC-5-B	48401-79-02	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-118	31508-00-6	PCB	MOD 1668A	906.23	pg/g - Wet Wt			649.10
42828-CONC-5-B	48401-79-02	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-114	74472-37-0	PCB	MOD 1668A	16.77	pg/g - Wet Wt	J		649.10
42828-CONC-5-B	48401-79-02	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-105	32598-14-4	PCB	MOD 1668A	245.26	pg/g - Wet Wt	J		259.64
42828-CONC-5-B	48401-79-02	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-126	57465-28-8	PCB	MOD 1668A	927.42	pg/g - Wet Wt	J		1298.20
42828-CONC-5-B	48401-79-02	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-167	52663-72-6	PCB	MOD 1668A	38.37	pg/g - Wet Wt	J		649.10
42828-CONC-5-B	48401-79-02	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-156	38380-08-4	PCB	MOD 1668A	37.06	pg/g - Wet Wt	JC		649.10
42828-CONC-5-B	48401-79-02	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	JC156		649.10
42828-CONC-5-B	48401-79-02	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-169	32774-16-6	PCB	MOD 1668A	649.10	pg/g - Wet Wt	U		649.10
42828-CONC-5-B	48401-79-02	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-189	39635-31-9	PCB	MOD 1668A	649.10	pg/g - Wet Wt	U		649.10

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
42828-CONC-8-C	48401-78-28		1.00		Lab Extraction ID = 49038-71-08	1.0205	G_WET				T
42828-CONC-8-C	48401-78-28		1.00		Lab Extraction ID = 49038-71-08	1.0205	G_WET				T
42828-CONC-8-C	48401-78-28		1.00		Lab Extraction ID = 49038-71-08	1.0205	G_WET				T
42828-CONC-8-C	48401-78-28		1.00		Lab Extraction ID = 49038-71-08	1.0205	G_WET				T
42828-CONC-8-C	48401-78-28		1.00		Lab Extraction ID = 49038-71-08	1.0205	G_WET				T
42828-CONC-8-C	48401-78-28		1.00		Lab Extraction ID = 49038-71-08	1.0205	G_WET				T
42828-CONC-8-C	48401-78-28		1.00		Lab Extraction ID = 49038-71-08	1.0205	G_WET				T
42828-CONC-8-C	48401-78-28		1.00		Lab Extraction ID = 49038-71-08	1.0205	G_WET				T
42828-CONC-8-C	48401-78-28		1.00		Lab Extraction ID = 49038-71-08	1.0205	G_WET				T
42828-CONC-8-C	48401-78-28		1.00		Lab Extraction ID = 49038-71-08	1.0205	G_WET				T
42828-CONC-8-C	48401-78-28		1.00		Lab Extraction ID = 49038-71-08	1.0205	G_WET				T
42828-CONC-5-A	48401-78-29		1.00		Lab Extraction ID = 49038-71-09	0.8272	G_WET	604.45	UJ		T
42828-CONC-5-A	48401-78-29		1.00		Lab Extraction ID = 49038-71-09	0.8272	G_WET	403.5	J		T
42828-CONC-5-A	48401-78-29		1.00		Lab Extraction ID = 49038-71-09	0.8272	G_WET	11.05	UJ		T
42828-CONC-5-A	48401-78-29		1.00		Lab Extraction ID = 49038-71-09	0.8272	G_WET				T
42828-CONC-5-A	48401-78-29		1.00		Lab Extraction ID = 49038-71-09	0.8272	G_WET				T
42828-CONC-5-A	48401-78-29		1.00		Lab Extraction ID = 49038-71-09	0.8272	G_WET	772.52	UJ		T
42828-CONC-5-A	48401-78-29		1.00		Lab Extraction ID = 49038-71-09	0.8272	G_WET	14.16	UJ		T
42828-CONC-5-A	48401-78-29		1.00		Lab Extraction ID = 49038-71-09	0.8272	G_WET	251.93	UJ		T
42828-CONC-5-A	48401-78-29		1.00		Lab Extraction ID = 49038-71-09	0.8272	G_WET	518.4	J		T
42828-CONC-5-A	48401-78-29		1.00		Lab Extraction ID = 49038-71-09	0.8272	G_WET	32.11	UJ		T
42828-CONC-5-A	48401-78-29		1.00		Lab Extraction ID = 49038-71-09	0.8272	G_WET	33.22	UJ		T
42828-CONC-5-A	48401-78-29		1.00		Lab Extraction ID = 49038-71-09	0.8272	G_WET				T
42828-CONC-5-A	48401-78-29		1.00		Lab Extraction ID = 49038-71-09	0.8272	G_WET	604.45	UJ		T
42828-CONC-5-A	48401-78-29		1.00		Lab Extraction ID = 49038-71-09	0.8272	G_WET	1.1	UJ		T
42828-CONC-5-A	48401-78-29		1.00		Lab Extraction ID = 49038-71-09	0.8272	G_WET				T
42828-CONC-5-A	48401-78-29		1.00		Lab Extraction ID = 49038-71-09	0.8272	G_WET				T
42828-CONC-5-A	48401-78-29		1.00		Lab Extraction ID = 49038-71-09	0.8272	G_WET				T
42828-CONC-5-A	48401-78-29		1.00		Lab Extraction ID = 49038-71-09	0.8272	G_WET				T
42828-CONC-5-A	48401-78-29		1.00		Lab Extraction ID = 49038-71-09	0.8272	G_WET				T
42828-CONC-5-A	48401-78-29		1.00		Lab Extraction ID = 49038-71-09	0.8272	G_WET				T
42828-CONC-5-A	48401-78-29		1.00		Lab Extraction ID = 49038-71-09	0.8272	G_WET				T
42828-CONC-5-A	48401-78-29		1.00		Lab Extraction ID = 49038-71-09	0.8272	G_WET				T
42828-CONC-5-A	48401-78-29		1.00		Lab Extraction ID = 49038-71-09	0.8272	G_WET				T
42828-CONC-5-A	48401-78-29		1.00		Lab Extraction ID = 49038-71-09	0.8272	G_WET				T
42828-CONC-5-A	48401-78-29		1.00		Lab Extraction ID = 49038-71-09	0.8272	G_WET				T
42828-CONC-5-A	48401-78-29		1.00		Lab Extraction ID = 49038-71-09	0.8272	G_WET				T
42828-CONC-5-A	48401-78-29		1.00		Lab Extraction ID = 49038-71-09	0.8272	G_WET				T
42828-CONC-5-B	48401-79-02		1.00		Lab Extraction ID = 49038-71-10	0.7703	G_WET	15.02	UJ		T
42828-CONC-5-B	48401-79-02		1.00		Lab Extraction ID = 49038-71-10	0.7703	G_WET	807.16	J		T
42828-CONC-5-B	48401-79-02		1.00		Lab Extraction ID = 49038-71-10	0.7703	G_WET	16.08	UJ		T
42828-CONC-5-B	48401-79-02		1.00		Lab Extraction ID = 49038-71-10	0.7703	G_WET				T
42828-CONC-5-B	48401-79-02		1.00		Lab Extraction ID = 49038-71-10	0.7703	G_WET				T
42828-CONC-5-B	48401-79-02		1.00		Lab Extraction ID = 49038-71-10	0.7703	G_WET	906.23	UJ		T
42828-CONC-5-B	48401-79-02		1.00		Lab Extraction ID = 49038-71-10	0.7703	G_WET	16.77	UJ		T
42828-CONC-5-B	48401-79-02		1.00		Lab Extraction ID = 49038-71-10	0.7703	G_WET	245.26	UJ		T
42828-CONC-5-B	48401-79-02		1.00		Lab Extraction ID = 49038-71-10	0.7703	G_WET	927.42	J		T
42828-CONC-5-B	48401-79-02		1.00		Lab Extraction ID = 49038-71-10	0.7703	G_WET	38.37	UJ		T
42828-CONC-5-B	48401-79-02		1.00		Lab Extraction ID = 49038-71-10	0.7703	G_WET	37.06	UJ		T
42828-CONC-5-B	48401-79-02		1.00		Lab Extraction ID = 49038-71-10	0.7703	G_WET				T
42828-CONC-5-B	48401-79-02		1.00		Lab Extraction ID = 49038-71-10	0.7703	G_WET	649.1	UJ		T
42828-CONC-5-B	48401-79-02		1.00		Lab Extraction ID = 49038-71-10	0.7703	G_WET	649.1	UJ		T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
42828-CONC-5-B	48401-79-02	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-81	70362-50-4	PCB	MOD 1668A	75	%RECOVERY			
42828-CONC-5-B	48401-79-02	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-77	32598-13-3	PCB	MOD 1668A	77	%RECOVERY			
42828-CONC-5-B	48401-79-02	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-123	65510-44-3	PCB	MOD 1668A	66	%RECOVERY			
42828-CONC-5-B	48401-79-02	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-118	31508-00-6	PCB	MOD 1668A	64	%RECOVERY			
42828-CONC-5-B	48401-79-02	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-114	74472-37-0	PCB	MOD 1668A	61	%RECOVERY			
42828-CONC-5-B	48401-79-02	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-105	32598-14-4	PCB	MOD 1668A	68	%RECOVERY			
42828-CONC-5-B	48401-79-02	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-126	57465-28-8	PCB	MOD 1668A	70	%RECOVERY			
42828-CONC-5-B	48401-79-02	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-167	52663-72-6	PCB	MOD 1668A	67	%RECOVERY			
42828-CONC-5-B	48401-79-02	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-156	38380-08-4	PCB	MOD 1668A	68	%RECOVERY			
42828-CONC-5-B	48401-79-02	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-157	69782-90-7	PCB	MOD 1668A	68	%RECOVERY			
42828-CONC-5-B	48401-79-02	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-169	32774-16-6	PCB	MOD 1668A	74	%RECOVERY			
42828-CONC-5-B	48401-79-02	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-189	39635-31-9	PCB	MOD 1668A	77	%RECOVERY			
42828-CONC-5-B	48401-79-02	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-28	7012-37-5	PCB	MOD 1668A	67	%RECOVERY			
42828-CONC-5-B	48401-79-02	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-111	39635-32-0	PCB	MOD 1668A	47	%RECOVERY			
42828-CONC-5-B	48401-79-02	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-178	52663-67-9	PCB	MOD 1668A	58	%RECOVERY			
42828-CONC-5-C	48401-79-03	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-81	70362-50-4	PCB	MOD 1668A	549.03	pg/g - Wet Wt	U		549.03
42828-CONC-5-C	48401-79-03	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-77	32598-13-3	PCB	MOD 1668A	611.51	pg/g - Wet Wt			549.03
42828-CONC-5-C	48401-79-03	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-106	70424-69-0	PCB	MOD 1668A	11.62	pg/g - Wet Wt	JC		1098.06
42828-CONC-5-C	48401-79-03	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		1098.06
42828-CONC-5-C	48401-79-03	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		549.03
42828-CONC-5-C	48401-79-03	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-118	31508-00-6	PCB	MOD 1668A	696.65	pg/g - Wet Wt			549.03
42828-CONC-5-C	48401-79-03	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-114	74472-37-0	PCB	MOD 1668A	11.94	pg/g - Wet Wt	J		549.03
42828-CONC-5-C	48401-79-03	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-105	32598-14-4	PCB	MOD 1668A	189.72	pg/g - Wet Wt	J		219.61
42828-CONC-5-C	48401-79-03	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-126	57465-28-8	PCB	MOD 1668A	722.15	pg/g - Wet Wt	J		1098.06
42828-CONC-5-C	48401-79-03	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-167	52663-72-6	PCB	MOD 1668A	31.82	pg/g - Wet Wt	J		549.03
42828-CONC-5-C	48401-79-03	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-156	38380-08-4	PCB	MOD 1668A	30.26	pg/g - Wet Wt	JC		549.03
42828-CONC-5-C	48401-79-03	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	JC156		549.03
42828-CONC-5-C	48401-79-03	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-169	32774-16-6	PCB	MOD 1668A	1.40	pg/g - Wet Wt	U		549.03
42828-CONC-5-C	48401-79-03	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-189	39635-31-9	PCB	MOD 1668A	1.22	pg/g - Wet Wt	J		549.03
42828-CONC-5-C	48401-79-03	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-81	70362-50-4	PCB	MOD 1668A	80	%RECOVERY			
42828-CONC-5-C	48401-79-03	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-77	32598-13-3	PCB	MOD 1668A	81	%RECOVERY			
42828-CONC-5-C	48401-79-03	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-123	65510-44-3	PCB	MOD 1668A	72	%RECOVERY			
42828-CONC-5-C	48401-79-03	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-118	31508-00-6	PCB	MOD 1668A	69	%RECOVERY			
42828-CONC-5-C	48401-79-03	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-114	74472-37-0	PCB	MOD 1668A	66	%RECOVERY			
42828-CONC-5-C	48401-79-03	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-105	32598-14-4	PCB	MOD 1668A	75	%RECOVERY			
42828-CONC-5-C	48401-79-03	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-126	57465-28-8	PCB	MOD 1668A	78	%RECOVERY			
42828-CONC-5-C	48401-79-03	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-167	52663-72-6	PCB	MOD 1668A	69	%RECOVERY			
42828-CONC-5-C	48401-79-03	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-156	38380-08-4	PCB	MOD 1668A	73	%RECOVERY			
42828-CONC-5-C	48401-79-03	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-157	69782-90-7	PCB	MOD 1668A	73	%RECOVERY			
42828-CONC-5-C	48401-79-03	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-169	32774-16-6	PCB	MOD 1668A	80	%RECOVERY			
42828-CONC-5-C	48401-79-03	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-189	39635-31-9	PCB	MOD 1668A	75	%RECOVERY			
42828-CONC-5-C	48401-79-03	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-28	7012-37-5	PCB	MOD 1668A	80	%RECOVERY			
42828-CONC-5-C	48401-79-03	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-111	39635-32-0	PCB	MOD 1668A	56	%RECOVERY			
42828-CONC-5-C	48401-79-03	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-178	52663-67-9	PCB	MOD 1668A	68	%RECOVERY			
42828-CONC-4-A	48401-78-23	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-81	70362-50-4	PCB	MOD 1668A	1.67	pg/g - Wet Wt	J		616.22
42828-CONC-4-A	48401-78-23	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-77	32598-13-3	PCB	MOD 1668A	259.64	pg/g - Wet Wt	J		616.22
42828-CONC-4-A	48401-78-23	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-106	70424-69-0	PCB	MOD 1668A	13.71	pg/g - Wet Wt	JC		1212.44
42828-CONC-4-A	48401-78-23	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		1212.44
42828-CONC-4-A	48401-78-23	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		616.22
42828-CONC-4-A	48401-78-23	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-118	31508-00-6	PCB	MOD 1668A	810.54	pg/g - Wet Wt			616.22
42828-CONC-4-A	48401-78-23	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-114	74472-37-0	PCB	MOD 1668A	14.08	pg/g - Wet Wt	J		616.22
42828-CONC-4-A	48401-78-23	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-105	32598-14-4	PCB	MOD 1668A	232.45	pg/g - Wet Wt	J		246.49
42828-CONC-4-A	48401-78-23	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-126	57465-28-8	PCB	MOD 1668A	257.38	pg/g - Wet Wt	J		1232.44
42828-CONC-4-A	48401-78-23	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-167	52663-72-6	PCB	MOD 1668A	33.56	pg/g - Wet Wt	J		616.22
42828-CONC-4-A	48401-78-23	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-156	38380-08-4	PCB	MOD 1668A	34.90	pg/g - Wet Wt	JC		616.22

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
42828-CONC-5-B	48401-79-02		1.00		Lab Extraction ID = 49038-71-10	0.7703	G_WET				T
42828-CONC-5-B	48401-79-02		1.00		Lab Extraction ID = 49038-71-10	0.7703	G_WET				T
42828-CONC-5-B	48401-79-02		1.00		Lab Extraction ID = 49038-71-10	0.7703	G_WET				T
42828-CONC-5-B	48401-79-02		1.00		Lab Extraction ID = 49038-71-10	0.7703	G_WET				T
42828-CONC-5-B	48401-79-02		1.00		Lab Extraction ID = 49038-71-10	0.7703	G_WET				T
42828-CONC-5-B	48401-79-02		1.00		Lab Extraction ID = 49038-71-10	0.7703	G_WET				T
42828-CONC-5-B	48401-79-02		1.00		Lab Extraction ID = 49038-71-10	0.7703	G_WET				T
42828-CONC-5-B	48401-79-02		1.00		Lab Extraction ID = 49038-71-10	0.7703	G_WET				T
42828-CONC-5-B	48401-79-02		1.00		Lab Extraction ID = 49038-71-10	0.7703	G_WET				T
42828-CONC-5-B	48401-79-02		1.00		Lab Extraction ID = 49038-71-10	0.7703	G_WET				T
42828-CONC-5-B	48401-79-02		1.00		Lab Extraction ID = 49038-71-10	0.7703	G_WET				T
42828-CONC-5-B	48401-79-02		1.00		Lab Extraction ID = 49038-71-10	0.7703	G_WET				T
42828-CONC-5-B	48401-79-02		1.00		Lab Extraction ID = 49038-71-10	0.7703	G_WET				T
42828-CONC-5-C	48401-79-03		1.00		Lab Extraction ID = 49038-71-11	0.9107	G_WET	549.03	UJ		T
42828-CONC-5-C	48401-79-03		1.00		Lab Extraction ID = 49038-71-11	0.9107	G_WET	611.51	J		T
42828-CONC-5-C	48401-79-03		1.00		Lab Extraction ID = 49038-71-11	0.9107	G_WET	11.62	UJ		T
42828-CONC-5-C	48401-79-03		1.00		Lab Extraction ID = 49038-71-11	0.9107	G_WET				T
42828-CONC-5-C	48401-79-03		1.00		Lab Extraction ID = 49038-71-11	0.9107	G_WET				T
42828-CONC-5-C	48401-79-03		1.00		Lab Extraction ID = 49038-71-11	0.9107	G_WET	696.65	UJ		T
42828-CONC-5-C	48401-79-03		1.00		Lab Extraction ID = 49038-71-11	0.9107	G_WET	11.94	UJ		T
42828-CONC-5-C	48401-79-03		1.00		Lab Extraction ID = 49038-71-11	0.9107	G_WET	189.72	UJ		T
42828-CONC-5-C	48401-79-03		1.00		Lab Extraction ID = 49038-71-11	0.9107	G_WET	722.15	J		T
42828-CONC-5-C	48401-79-03		1.00		Lab Extraction ID = 49038-71-11	0.9107	G_WET	31.82	UJ		T
42828-CONC-5-C	48401-79-03		1.00		Lab Extraction ID = 49038-71-11	0.9107	G_WET	30.26	UJ		T
42828-CONC-5-C	48401-79-03		1.00		Lab Extraction ID = 49038-71-11	0.9107	G_WET				T
42828-CONC-5-C	48401-79-03		1.00		Lab Extraction ID = 49038-71-11	0.9107	G_WET	1.4	UJ		T
42828-CONC-5-C	48401-79-03		1.00		Lab Extraction ID = 49038-71-11	0.9107	G_WET	1.22	UJ		T
42828-CONC-5-C	48401-79-03		1.00		Lab Extraction ID = 49038-71-11	0.9107	G_WET				T
42828-CONC-5-C	48401-79-03		1.00		Lab Extraction ID = 49038-71-11	0.9107	G_WET				T
42828-CONC-5-C	48401-79-03		1.00		Lab Extraction ID = 49038-71-11	0.9107	G_WET				T
42828-CONC-5-C	48401-79-03		1.00		Lab Extraction ID = 49038-71-11	0.9107	G_WET				T
42828-CONC-5-C	48401-79-03		1.00		Lab Extraction ID = 49038-71-11	0.9107	G_WET				T
42828-CONC-5-C	48401-79-03		1.00		Lab Extraction ID = 49038-71-11	0.9107	G_WET				T
42828-CONC-5-C	48401-79-03		1.00		Lab Extraction ID = 49038-71-11	0.9107	G_WET				T
42828-CONC-5-C	48401-79-03		1.00		Lab Extraction ID = 49038-71-11	0.9107	G_WET				T
42828-CONC-5-C	48401-79-03		1.00		Lab Extraction ID = 49038-71-11	0.9107	G_WET				T
42828-CONC-5-C	48401-79-03		1.00		Lab Extraction ID = 49038-71-11	0.9107	G_WET				T
42828-CONC-5-C	48401-79-03		1.00		Lab Extraction ID = 49038-71-11	0.9107	G_WET				T
42828-CONC-5-C	48401-79-03		1.00		Lab Extraction ID = 49038-71-11	0.9107	G_WET				T
42828-CONC-5-C	48401-79-03		1.00		Lab Extraction ID = 49038-71-11	0.9107	G_WET				T
42828-CONC-5-C	48401-79-03		1.00		Lab Extraction ID = 49038-71-11	0.9107	G_WET				T
42828-CONC-4-A	48401-78-23		1.00		Lab Extraction ID = 49038-71-12	0.8114	G_WET	1.67	UJ		T
42828-CONC-4-A	48401-78-23		1.00		Lab Extraction ID = 49038-71-12	0.8114	G_WET	259.64	J		T
42828-CONC-4-A	48401-78-23		1.00		Lab Extraction ID = 49038-71-12	0.8114	G_WET	13.71	UJ		T
42828-CONC-4-A	48401-78-23		1.00		Lab Extraction ID = 49038-71-12	0.8114	G_WET				T
42828-CONC-4-A	48401-78-23		1.00		Lab Extraction ID = 49038-71-12	0.8114	G_WET				T
42828-CONC-4-A	48401-78-23		1.00		Lab Extraction ID = 49038-71-12	0.8114	G_WET	810.54	UJ		T
42828-CONC-4-A	48401-78-23		1.00		Lab Extraction ID = 49038-71-12	0.8114	G_WET	14.08	UJ		T
42828-CONC-4-A	48401-78-23		1.00		Lab Extraction ID = 49038-71-12	0.8114	G_WET	232.45	UJ		T
42828-CONC-4-A	48401-78-23		1.00		Lab Extraction ID = 49038-71-12	0.8114	G_WET	257.38	J		T
42828-CONC-4-A	48401-78-23		1.00		Lab Extraction ID = 49038-71-12	0.8114	G_WET	33.56	UJ		T
42828-CONC-4-A	48401-78-23		1.00		Lab Extraction ID = 49038-71-12	0.8114	G_WET	34.9	UJ		T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
42828-CONC-4-A	48401-78-23	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	JC156		616.22
42828-CONC-4-A	48401-78-23	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-169	32774-16-6	PCB	MOD 1668A	1.59	pg/g - Wet Wt	J		616.22
42828-CONC-4-A	48401-78-23	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	PCB-189	39635-31-9	PCB	MOD 1668A	1.75	pg/g - Wet Wt	J		616.22
42828-CONC-4-A	48401-78-23	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-81	70362-50-4	PCB	MOD 1668A	75	%RECOVERY			
42828-CONC-4-A	48401-78-23	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-77	32598-13-3	PCB	MOD 1668A	73	%RECOVERY			
42828-CONC-4-A	48401-78-23	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-123	65510-44-3	PCB	MOD 1668A	68	%RECOVERY			
42828-CONC-4-A	48401-78-23	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-118	31508-00-6	PCB	MOD 1668A	66	%RECOVERY			
42828-CONC-4-A	48401-78-23	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-114	74472-37-0	PCB	MOD 1668A	62	%RECOVERY			
42828-CONC-4-A	48401-78-23	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-105	32598-14-4	PCB	MOD 1668A	65	%RECOVERY			
42828-CONC-4-A	48401-78-23	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-126	57465-28-8	PCB	MOD 1668A	71	%RECOVERY			
42828-CONC-4-A	48401-78-23	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-167	52663-72-6	PCB	MOD 1668A	68	%RECOVERY			
42828-CONC-4-A	48401-78-23	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-156	38380-08-4	PCB	MOD 1668A	69	%RECOVERY			
42828-CONC-4-A	48401-78-23	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-157	69782-90-7	PCB	MOD 1668A	69	%RECOVERY			
42828-CONC-4-A	48401-78-23	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-169	32774-16-6	PCB	MOD 1668A	76	%RECOVERY			
42828-CONC-4-A	48401-78-23	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-189	39635-31-9	PCB	MOD 1668A	73	%RECOVERY			
42828-CONC-4-A	48401-78-23	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-28	7012-37-5	PCB	MOD 1668A	75	%RECOVERY			
42828-CONC-4-A	48401-78-23	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-111	39635-32-0	PCB	MOD 1668A	54	%RECOVERY			
42828-CONC-4-A	48401-78-23	BCO	NORMAL	07/14/01	10/29/01	12/13/01		49038-71	13C-PCB-178	52663-67-9	PCB	MOD 1668A	67	%RECOVERY			
42828-CONC-4-B	48401-78-24	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-81	70362-50-4	PCB	MOD 1668A	410.21	pg/g - Wet Wt	U		410.21
42828-CONC-4-B	48401-78-24	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-77	32598-13-3	PCB	MOD 1668A	160.95	pg/g - Wet Wt	J		410.21
42828-CONC-4-B	48401-78-24	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-106	70424-69-0	PCB	MOD 1668A	10.05	pg/g - Wet Wt	JC		820.42
42828-CONC-4-B	48401-78-24	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		820.42
42828-CONC-4-B	48401-78-24	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		410.21
42828-CONC-4-B	48401-78-24	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-118	31508-00-6	PCB	MOD 1668A	629.78	pg/g - Wet Wt			410.21
42828-CONC-4-B	48401-78-24	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-114	74472-37-0	PCB	MOD 1668A	11.06	pg/g - Wet Wt	J		410.21
42828-CONC-4-B	48401-78-24	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-105	32598-14-4	PCB	MOD 1668A	192.35	pg/g - Wet Wt			164.08
42828-CONC-4-B	48401-78-24	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-126	57465-28-8	PCB	MOD 1668A	183.10	pg/g - Wet Wt	J		820.41
42828-CONC-4-B	48401-78-24	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-167	52663-72-6	PCB	MOD 1668A	24.68	pg/g - Wet Wt	J		410.21
42828-CONC-4-B	48401-78-24	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-156	38380-08-4	PCB	MOD 1668A	29.36	pg/g - Wet Wt	JC		410.21
42828-CONC-4-B	48401-78-24	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	JC156		410.21
42828-CONC-4-B	48401-78-24	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-169	32774-16-6	PCB	MOD 1668A	1.09	pg/g - Wet Wt	J		410.21
42828-CONC-4-B	48401-78-24	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-189	39635-31-9	PCB	MOD 1668A	1.34	pg/g - Wet Wt	J		410.21
42828-CONC-4-B	48401-78-24	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-81	70362-50-4	PCB	MOD 1668A	70	%RECOVERY			
42828-CONC-4-B	48401-78-24	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-77	32598-13-3	PCB	MOD 1668A	72	%RECOVERY			
42828-CONC-4-B	48401-78-24	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-123	65510-44-3	PCB	MOD 1668A	63	%RECOVERY			
42828-CONC-4-B	48401-78-24	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-118	31508-00-6	PCB	MOD 1668A	57	%RECOVERY			
42828-CONC-4-B	48401-78-24	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-114	74472-37-0	PCB	MOD 1668A	60	%RECOVERY			
42828-CONC-4-B	48401-78-24	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-105	32598-14-4	PCB	MOD 1668A	66	%RECOVERY			
42828-CONC-4-B	48401-78-24	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-126	57465-28-8	PCB	MOD 1668A	65	%RECOVERY			
42828-CONC-4-B	48401-78-24	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-167	52663-72-6	PCB	MOD 1668A	67	%RECOVERY			
42828-CONC-4-B	48401-78-24	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-156	38380-08-4	PCB	MOD 1668A	65	%RECOVERY			
42828-CONC-4-B	48401-78-24	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-157	69782-90-7	PCB	MOD 1668A	65	%RECOVERY			
42828-CONC-4-B	48401-78-24	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-169	32774-16-6	PCB	MOD 1668A	70	%RECOVERY			
42828-CONC-4-B	48401-78-24	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-189	39635-31-9	PCB	MOD 1668A	75	%RECOVERY			
42828-CONC-4-B	48401-78-24	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-28	7012-37-5	PCB	MOD 1668A	64	%RECOVERY			
42828-CONC-4-B	48401-78-24	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-111	39635-32-0	PCB	MOD 1668A	51	%RECOVERY			
42828-CONC-4-B	48401-78-24	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-178	52663-67-9	PCB	MOD 1668A	56	%RECOVERY			
42828-CONC-4-C	48401-78-25	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-81	70362-50-4	PCB	MOD 1668A	2.12	pg/g - Wet Wt	J		478.06
42828-CONC-4-C	48401-78-25	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-77	32598-13-3	PCB	MOD 1668A	223.53	pg/g - Wet Wt	J		478.06
42828-CONC-4-C	48401-78-25	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-106	70424-69-0	PCB	MOD 1668A	14.27	pg/g - Wet Wt	JC		956.12
42828-CONC-4-C	48401-78-25	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		956.12
42828-CONC-4-C	48401-78-25	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		478.06
42828-CONC-4-C	48401-78-25	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-118	31508-00-6	PCB	MOD 1668A	704.27	pg/g - Wet Wt			478.06
42828-CONC-4-C	48401-78-25	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-114	74472-37-0	PCB	MOD 1668A	12.66	pg/g - Wet Wt	J		478.06
42828-CONC-4-C	48401-78-25	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-105	32598-14-4	PCB	MOD 1668A	199.67	pg/g - Wet Wt			191.22

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
42828-CONC-4-A	48401-78-23		1.00		Lab Extraction ID = 49038-71-12	0.8114	G_WET				T
42828-CONC-4-A	48401-78-23		1.00		Lab Extraction ID = 49038-71-12	0.8114	G_WET	1.59	UJ		T
42828-CONC-4-A	48401-78-23		1.00		Lab Extraction ID = 49038-71-12	0.8114	G_WET	1.75	UJ		T
42828-CONC-4-A	48401-78-23		1.00		Lab Extraction ID = 49038-71-12	0.8114	G_WET				T
42828-CONC-4-A	48401-78-23		1.00		Lab Extraction ID = 49038-71-12	0.8114	G_WET				T
42828-CONC-4-A	48401-78-23		1.00		Lab Extraction ID = 49038-71-12	0.8114	G_WET				T
42828-CONC-4-A	48401-78-23		1.00		Lab Extraction ID = 49038-71-12	0.8114	G_WET				T
42828-CONC-4-A	48401-78-23		1.00		Lab Extraction ID = 49038-71-12	0.8114	G_WET				T
42828-CONC-4-A	48401-78-23		1.00		Lab Extraction ID = 49038-71-12	0.8114	G_WET				T
42828-CONC-4-A	48401-78-23		1.00		Lab Extraction ID = 49038-71-12	0.8114	G_WET				T
42828-CONC-4-A	48401-78-23		1.00		Lab Extraction ID = 49038-71-12	0.8114	G_WET				T
42828-CONC-4-A	48401-78-23		1.00		Lab Extraction ID = 49038-71-12	0.8114	G_WET				T
42828-CONC-4-A	48401-78-23		1.00		Lab Extraction ID = 49038-71-12	0.8114	G_WET				T
42828-CONC-4-A	48401-78-23		1.00		Lab Extraction ID = 49038-71-12	0.8114	G_WET				T
42828-CONC-4-A	48401-78-23		1.00		Lab Extraction ID = 49038-71-12	0.8114	G_WET				T
42828-CONC-4-A	48401-78-23		1.00		Lab Extraction ID = 49038-71-12	0.8114	G_WET				T
42828-CONC-4-B	48401-78-24		1.00		Lab Extraction ID = 49038-71-13	1.2189	G_WET	410.21	UJ		T
42828-CONC-4-B	48401-78-24		1.00		Lab Extraction ID = 49038-71-13	1.2189	G_WET	160.95	J		T
42828-CONC-4-B	48401-78-24		1.00		Lab Extraction ID = 49038-71-13	1.2189	G_WET	10.05	UJ		T
42828-CONC-4-B	48401-78-24		1.00		Lab Extraction ID = 49038-71-13	1.2189	G_WET				T
42828-CONC-4-B	48401-78-24		1.00		Lab Extraction ID = 49038-71-13	1.2189	G_WET				T
42828-CONC-4-B	48401-78-24		1.00		Lab Extraction ID = 49038-71-13	1.2189	G_WET	629.78	UJ		T
42828-CONC-4-B	48401-78-24		1.00		Lab Extraction ID = 49038-71-13	1.2189	G_WET	11.06	UJ		T
42828-CONC-4-B	48401-78-24		1.00		Lab Extraction ID = 49038-71-13	1.2189	G_WET	192.35	UJ		T
42828-CONC-4-B	48401-78-24		1.00		Lab Extraction ID = 49038-71-13	1.2189	G_WET	183.1	J		T
42828-CONC-4-B	48401-78-24		1.00		Lab Extraction ID = 49038-71-13	1.2189	G_WET	24.68	UJ		T
42828-CONC-4-B	48401-78-24		1.00		Lab Extraction ID = 49038-71-13	1.2189	G_WET	29.36	UJ		T
42828-CONC-4-B	48401-78-24		1.00		Lab Extraction ID = 49038-71-13	1.2189	G_WET				T
42828-CONC-4-B	48401-78-24		1.00		Lab Extraction ID = 49038-71-13	1.2189	G_WET	1.09	UJ		T
42828-CONC-4-B	48401-78-24		1.00		Lab Extraction ID = 49038-71-13	1.2189	G_WET	1.34	UJ		T
42828-CONC-4-B	48401-78-24		1.00		Lab Extraction ID = 49038-71-13	1.2189	G_WET				T
42828-CONC-4-B	48401-78-24		1.00		Lab Extraction ID = 49038-71-13	1.2189	G_WET				T
42828-CONC-4-B	48401-78-24		1.00		Lab Extraction ID = 49038-71-13	1.2189	G_WET				T
42828-CONC-4-B	48401-78-24		1.00		Lab Extraction ID = 49038-71-13	1.2189	G_WET				T
42828-CONC-4-B	48401-78-24		1.00		Lab Extraction ID = 49038-71-13	1.2189	G_WET				T
42828-CONC-4-B	48401-78-24		1.00		Lab Extraction ID = 49038-71-13	1.2189	G_WET				T
42828-CONC-4-B	48401-78-24		1.00		Lab Extraction ID = 49038-71-13	1.2189	G_WET				T
42828-CONC-4-B	48401-78-24		1.00		Lab Extraction ID = 49038-71-13	1.2189	G_WET				T
42828-CONC-4-B	48401-78-24		1.00		Lab Extraction ID = 49038-71-13	1.2189	G_WET				T
42828-CONC-4-B	48401-78-24		1.00		Lab Extraction ID = 49038-71-13	1.2189	G_WET				T
42828-CONC-4-B	48401-78-24		1.00		Lab Extraction ID = 49038-71-13	1.2189	G_WET				T
42828-CONC-4-B	48401-78-24		1.00		Lab Extraction ID = 49038-71-13	1.2189	G_WET				T
42828-CONC-4-C	48401-78-25		1.00		Lab Extraction ID = 49038-71-14	1.0459	G_WET	2.12	UJ		T
42828-CONC-4-C	48401-78-25		1.00		Lab Extraction ID = 49038-71-14	1.0459	G_WET	223.53	J		T
42828-CONC-4-C	48401-78-25		1.00		Lab Extraction ID = 49038-71-14	1.0459	G_WET	14.27	UJ		T
42828-CONC-4-C	48401-78-25		1.00		Lab Extraction ID = 49038-71-14	1.0459	G_WET				T
42828-CONC-4-C	48401-78-25		1.00		Lab Extraction ID = 49038-71-14	1.0459	G_WET				T
42828-CONC-4-C	48401-78-25		1.00		Lab Extraction ID = 49038-71-14	1.0459	G_WET	704.27	UJ		T
42828-CONC-4-C	48401-78-25		1.00		Lab Extraction ID = 49038-71-14	1.0459	G_WET	12.66	UJ		T
42828-CONC-4-C	48401-78-25		1.00		Lab Extraction ID = 49038-71-14	1.0459	G_WET	199.67	UJ		T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
42828-CONC-4-C	48401-78-25	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-126	57465-28-8	PCB	MOD 1668A	218.21	pg/g - Wet Wt	J		956.11
42828-CONC-4-C	48401-78-25	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-167	52663-72-6	PCB	MOD 1668A	29.52	pg/g - Wet Wt	J		478.06
42828-CONC-4-C	48401-78-25	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-156	38380-08-4	PCB	MOD 1668A	28.84	pg/g - Wet Wt	JC		478.06
42828-CONC-4-C	48401-78-25	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	JC156		478.06
42828-CONC-4-C	48401-78-25	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-169	32774-16-6	PCB	MOD 1668A	2.41	pg/g - Wet Wt	J		478.06
42828-CONC-4-C	48401-78-25	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-189	39635-31-9	PCB	MOD 1668A	2.09	pg/g - Wet Wt	J		478.06
42828-CONC-4-C	48401-78-25	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-81	70362-50-4	PCB	MOD 1668A	63	%RECOVERY			
42828-CONC-4-C	48401-78-25	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-77	32598-13-3	PCB	MOD 1668A	73	%RECOVERY			
42828-CONC-4-C	48401-78-25	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-123	65510-44-3	PCB	MOD 1668A	46	%RECOVERY			
42828-CONC-4-C	48401-78-25	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-118	31508-00-6	PCB	MOD 1668A	46	%RECOVERY			
42828-CONC-4-C	48401-78-25	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-114	74472-37-0	PCB	MOD 1668A	40	%RECOVERY			
42828-CONC-4-C	48401-78-25	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-105	32598-14-4	PCB	MOD 1668A	66	%RECOVERY			
42828-CONC-4-C	48401-78-25	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-126	57465-28-8	PCB	MOD 1668A	66	%RECOVERY			
42828-CONC-4-C	48401-78-25	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-167	52663-72-6	PCB	MOD 1668A	31	%RECOVERY			
42828-CONC-4-C	48401-78-25	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-156	38380-08-4	PCB	MOD 1668A	57	%RECOVERY			
42828-CONC-4-C	48401-78-25	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-157	69782-90-7	PCB	MOD 1668A	57	%RECOVERY			
42828-CONC-4-C	48401-78-25	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-169	32774-16-6	PCB	MOD 1668A	55	%RECOVERY			
42828-CONC-4-C	48401-78-25	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-189	39635-31-9	PCB	MOD 1668A	34	%RECOVERY			
42828-CONC-4-C	48401-78-25	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-28	7012-37-5	PCB	MOD 1668A	62	%RECOVERY			
42828-CONC-4-C	48401-78-25	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-111	39635-32-0	PCB	MOD 1668A	17	%RECOVERY	&		
42828-CONC-4-C	48401-78-25	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-178	52663-67-9	PCB	MOD 1668A	31	%RECOVERY			
42828-CONC-2-A	48401-79-10	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-81	70362-50-4	PCB	MOD 1668A	481.97	pg/g - Wet Wt	U		481.97
42828-CONC-2-A	48401-79-10	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-77	32598-13-3	PCB	MOD 1668A	1634.05	pg/g - Wet Wt			481.97
42828-CONC-2-A	48401-79-10	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-106	70424-69-0	PCB	MOD 1668A	12.89	pg/g - Wet Wt	JC		963.94
42828-CONC-2-A	48401-79-10	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		963.94
42828-CONC-2-A	48401-79-10	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		481.97
42828-CONC-2-A	48401-79-10	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-118	31508-00-6	PCB	MOD 1668A	621.47	pg/g - Wet Wt			481.97
42828-CONC-2-A	48401-79-10	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-114	74472-37-0	PCB	MOD 1668A	10.63	pg/g - Wet Wt	J		481.97
42828-CONC-2-A	48401-79-10	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-105	32598-14-4	PCB	MOD 1668A	208.46	pg/g - Wet Wt			192.79
42828-CONC-2-A	48401-79-10	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-126	57465-28-8	PCB	MOD 1668A	2011.30	pg/g - Wet Wt			963.95
42828-CONC-2-A	48401-79-10	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-167	52663-72-6	PCB	MOD 1668A	27.85	pg/g - Wet Wt	J		481.97
42828-CONC-2-A	48401-79-10	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-156	38380-08-4	PCB	MOD 1668A	33.62	pg/g - Wet Wt	JC		481.97
42828-CONC-2-A	48401-79-10	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	JC156		481.97
42828-CONC-2-A	48401-79-10	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-169	32774-16-6	PCB	MOD 1668A	2.51	pg/g - Wet Wt	J		481.97
42828-CONC-2-A	48401-79-10	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-189	39635-31-9	PCB	MOD 1668A	481.97	pg/g - Wet Wt	U		481.97
42828-CONC-2-A	48401-79-10	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-81	70362-50-4	PCB	MOD 1668A	66	%RECOVERY			
42828-CONC-2-A	48401-79-10	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-77	32598-13-3	PCB	MOD 1668A	70	%RECOVERY			
42828-CONC-2-A	48401-79-10	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-123	65510-44-3	PCB	MOD 1668A	67	%RECOVERY			
42828-CONC-2-A	48401-79-10	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-118	31508-00-6	PCB	MOD 1668A	64	%RECOVERY			
42828-CONC-2-A	48401-79-10	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-114	74472-37-0	PCB	MOD 1668A	60	%RECOVERY			
42828-CONC-2-A	48401-79-10	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-105	32598-14-4	PCB	MOD 1668A	66	%RECOVERY			
42828-CONC-2-A	48401-79-10	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-126	57465-28-8	PCB	MOD 1668A	68	%RECOVERY			
42828-CONC-2-A	48401-79-10	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-167	52663-72-6	PCB	MOD 1668A	71	%RECOVERY			
42828-CONC-2-A	48401-79-10	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-156	38380-08-4	PCB	MOD 1668A	68	%RECOVERY			
42828-CONC-2-A	48401-79-10	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-157	69782-90-7	PCB	MOD 1668A	68	%RECOVERY			
42828-CONC-2-A	48401-79-10	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-169	32774-16-6	PCB	MOD 1668A	76	%RECOVERY			
42828-CONC-2-A	48401-79-10	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-189	39635-31-9	PCB	MOD 1668A	78	%RECOVERY			
42828-CONC-2-A	48401-79-10	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-28	7012-37-5	PCB	MOD 1668A	71	%RECOVERY			
42828-CONC-2-A	48401-79-10	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-111	39635-32-0	PCB	MOD 1668A	63	%RECOVERY			
42828-CONC-2-A	48401-79-10	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-178	52663-67-9	PCB	MOD 1668A	76	%RECOVERY			
42828-CONC-2-B	48401-79-11	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-81	70362-50-4	PCB	MOD 1668A	492.27	pg/g - Wet Wt	U		492.27
42828-CONC-2-B	48401-79-11	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-77	32598-13-3	PCB	MOD 1668A	1316.24	pg/g - Wet Wt			492.27
42828-CONC-2-B	48401-79-11	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-106	70424-69-0	PCB	MOD 1668A	8.49	pg/g - Wet Wt	JC		984.54
42828-CONC-2-B	48401-79-11	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		984.54
42828-CONC-2-B	48401-79-11	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		492.27

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
42828-CONC-4-C	48401-78-25		1.00		Lab Extraction ID = 49038-71-14	1.0459	G_WET	218.21	J		T
42828-CONC-4-C	48401-78-25		1.00		Lab Extraction ID = 49038-71-14	1.0459	G_WET	29.52	UJ		T
42828-CONC-4-C	48401-78-25		1.00		Lab Extraction ID = 49038-71-14	1.0459	G_WET	28.84	UJ		T
42828-CONC-4-C	48401-78-25		1.00		Lab Extraction ID = 49038-71-14	1.0459	G_WET				T
42828-CONC-4-C	48401-78-25		1.00		Lab Extraction ID = 49038-71-14	1.0459	G_WET	2.41	UJ		T
42828-CONC-4-C	48401-78-25		1.00		Lab Extraction ID = 49038-71-14	1.0459	G_WET	2.09	UJ		T
42828-CONC-4-C	48401-78-25		1.00		Lab Extraction ID = 49038-71-14	1.0459	G_WET				T
42828-CONC-4-C	48401-78-25		1.00		Lab Extraction ID = 49038-71-14	1.0459	G_WET				T
42828-CONC-4-C	48401-78-25		1.00		Lab Extraction ID = 49038-71-14	1.0459	G_WET				T
42828-CONC-4-C	48401-78-25		1.00		Lab Extraction ID = 49038-71-14	1.0459	G_WET				T
42828-CONC-4-C	48401-78-25		1.00		Lab Extraction ID = 49038-71-14	1.0459	G_WET				T
42828-CONC-4-C	48401-78-25		1.00		Lab Extraction ID = 49038-71-14	1.0459	G_WET				T
42828-CONC-4-C	48401-78-25		1.00		Lab Extraction ID = 49038-71-14	1.0459	G_WET				T
42828-CONC-4-C	48401-78-25		1.00		Lab Extraction ID = 49038-71-14	1.0459	G_WET				T
42828-CONC-4-C	48401-78-25		1.00		Lab Extraction ID = 49038-71-14	1.0459	G_WET				T
42828-CONC-4-C	48401-78-25		1.00		Lab Extraction ID = 49038-71-14	1.0459	G_WET				T
42828-CONC-4-C	48401-78-25		1.00		Lab Extraction ID = 49038-71-14	1.0459	G_WET				T
42828-CONC-4-C	48401-78-25		1.00		Lab Extraction ID = 49038-71-14	1.0459	G_WET				T
42828-CONC-2-A	48401-79-10		1.00		Lab Extraction ID = 49038-71-15	1.0374	G_WET	481.97	UJ		T
42828-CONC-2-A	48401-79-10		1.00		Lab Extraction ID = 49038-71-15	1.0374	G_WET	1634.05	J		T
42828-CONC-2-A	48401-79-10		1.00		Lab Extraction ID = 49038-71-15	1.0374	G_WET	12.89	UJ		T
42828-CONC-2-A	48401-79-10		1.00		Lab Extraction ID = 49038-71-15	1.0374	G_WET				T
42828-CONC-2-A	48401-79-10		1.00		Lab Extraction ID = 49038-71-15	1.0374	G_WET				T
42828-CONC-2-A	48401-79-10		1.00		Lab Extraction ID = 49038-71-15	1.0374	G_WET	621.47	UJ		T
42828-CONC-2-A	48401-79-10		1.00		Lab Extraction ID = 49038-71-15	1.0374	G_WET	10.63	UJ		T
42828-CONC-2-A	48401-79-10		1.00		Lab Extraction ID = 49038-71-15	1.0374	G_WET	208.46	UJ		T
42828-CONC-2-A	48401-79-10		1.00		Lab Extraction ID = 49038-71-15	1.0374	G_WET	2011.3	J		T
42828-CONC-2-A	48401-79-10		1.00		Lab Extraction ID = 49038-71-15	1.0374	G_WET	27.85	UJ		T
42828-CONC-2-A	48401-79-10		1.00		Lab Extraction ID = 49038-71-15	1.0374	G_WET	33.62	UJ		T
42828-CONC-2-A	48401-79-10		1.00		Lab Extraction ID = 49038-71-15	1.0374	G_WET				T
42828-CONC-2-A	48401-79-10		1.00		Lab Extraction ID = 49038-71-15	1.0374	G_WET	2.51	UJ		T
42828-CONC-2-A	48401-79-10		1.00		Lab Extraction ID = 49038-71-15	1.0374	G_WET	481.97	UJ		T
42828-CONC-2-A	48401-79-10		1.00		Lab Extraction ID = 49038-71-15	1.0374	G_WET				T
42828-CONC-2-A	48401-79-10		1.00		Lab Extraction ID = 49038-71-15	1.0374	G_WET				T
42828-CONC-2-A	48401-79-10		1.00		Lab Extraction ID = 49038-71-15	1.0374	G_WET				T
42828-CONC-2-A	48401-79-10		1.00		Lab Extraction ID = 49038-71-15	1.0374	G_WET				T
42828-CONC-2-A	48401-79-10		1.00		Lab Extraction ID = 49038-71-15	1.0374	G_WET				T
42828-CONC-2-A	48401-79-10		1.00		Lab Extraction ID = 49038-71-15	1.0374	G_WET				T
42828-CONC-2-A	48401-79-10		1.00		Lab Extraction ID = 49038-71-15	1.0374	G_WET				T
42828-CONC-2-A	48401-79-10		1.00		Lab Extraction ID = 49038-71-15	1.0374	G_WET				T
42828-CONC-2-A	48401-79-10		1.00		Lab Extraction ID = 49038-71-15	1.0374	G_WET				T
42828-CONC-2-A	48401-79-10		1.00		Lab Extraction ID = 49038-71-15	1.0374	G_WET				T
42828-CONC-2-A	48401-79-10		1.00		Lab Extraction ID = 49038-71-15	1.0374	G_WET				T
42828-CONC-2-A	48401-79-10		1.00		Lab Extraction ID = 49038-71-15	1.0374	G_WET				T
42828-CONC-2-B	48401-79-11		1.00		Lab Extraction ID = 49038-71-16	1.0157	G_WET	492.27	UJ		T
42828-CONC-2-B	48401-79-11		1.00		Lab Extraction ID = 49038-71-16	1.0157	G_WET	1316.24	J		T
42828-CONC-2-B	48401-79-11		1.00		Lab Extraction ID = 49038-71-16	1.0157	G_WET	8.49	UJ		T
42828-CONC-2-B	48401-79-11		1.00		Lab Extraction ID = 49038-71-16	1.0157	G_WET				T
42828-CONC-2-B	48401-79-11		1.00		Lab Extraction ID = 49038-71-16	1.0157	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
42828-CONC-2-B	48401-79-11	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-118	31508-00-6	PCB	MOD 1668A	607.90	pg/g - Wet Wt			492.27
42828-CONC-2-B	48401-79-11	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-114	74472-37-0	PCB	MOD 1668A	10.91	pg/g - Wet Wt	J		492.27
42828-CONC-2-B	48401-79-11	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-105	32598-14-4	PCB	MOD 1668A	193.27	pg/g - Wet Wt	J		196.91
42828-CONC-2-B	48401-79-11	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-126	57465-28-8	PCB	MOD 1668A	1525.14	pg/g - Wet Wt			984.54
42828-CONC-2-B	48401-79-11	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-167	52663-72-6	PCB	MOD 1668A	23.42	pg/g - Wet Wt	J		492.27
42828-CONC-2-B	48401-79-11	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-156	38380-08-4	PCB	MOD 1668A	30.66	pg/g - Wet Wt	JC		492.27
42828-CONC-2-B	48401-79-11	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	JC156		492.27
42828-CONC-2-B	48401-79-11	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-169	32774-16-6	PCB	MOD 1668A	2.22	pg/g - Wet Wt	J		492.27
42828-CONC-2-B	48401-79-11	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-189	39635-31-9	PCB	MOD 1668A	492.27	pg/g - Wet Wt	U		492.27
42828-CONC-2-B	48401-79-11	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-81	70362-50-4	PCB	MOD 1668A	66	%RECOVERY			
42828-CONC-2-B	48401-79-11	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-77	32598-13-3	PCB	MOD 1668A	68	%RECOVERY			
42828-CONC-2-B	48401-79-11	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-123	65510-44-3	PCB	MOD 1668A	56	%RECOVERY			
42828-CONC-2-B	48401-79-11	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-118	31508-00-6	PCB	MOD 1668A	58	%RECOVERY			
42828-CONC-2-B	48401-79-11	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-114	74472-37-0	PCB	MOD 1668A	53	%RECOVERY			
42828-CONC-2-B	48401-79-11	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-105	32598-14-4	PCB	MOD 1668A	64	%RECOVERY			
42828-CONC-2-B	48401-79-11	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-126	57465-28-8	PCB	MOD 1668A	64	%RECOVERY			
42828-CONC-2-B	48401-79-11	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-167	52663-72-6	PCB	MOD 1668A	54	%RECOVERY			
42828-CONC-2-B	48401-79-11	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-156	38380-08-4	PCB	MOD 1668A	61	%RECOVERY			
42828-CONC-2-B	48401-79-11	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-157	69782-90-7	PCB	MOD 1668A	61	%RECOVERY			
42828-CONC-2-B	48401-79-11	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-169	32774-16-6	PCB	MOD 1668A	65	%RECOVERY			
42828-CONC-2-B	48401-79-11	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-189	39635-31-9	PCB	MOD 1668A	60	%RECOVERY			
42828-CONC-2-B	48401-79-11	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-28	7012-37-5	PCB	MOD 1668A	62	%RECOVERY			
42828-CONC-2-B	48401-79-11	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-111	39635-32-0	PCB	MOD 1668A	40	%RECOVERY			
42828-CONC-2-B	48401-79-11	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-178	52663-67-9	PCB	MOD 1668A	55	%RECOVERY			
42828-CONC-2-C	48401-79-12	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-81	70362-50-4	PCB	MOD 1668A		pg/g - Wet Wt	U		1267.11
42828-CONC-2-C	48401-79-12	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-77	32598-13-3	PCB	MOD 1668A	2869.54	pg/g - Wet Wt			1267.11
42828-CONC-2-C	48401-79-12	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-106	70424-69-0	PCB	MOD 1668A	37.99	pg/g - Wet Wt	JC		2534.22
42828-CONC-2-C	48401-79-12	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		2534.22
42828-CONC-2-C	48401-79-12	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		1267.11
42828-CONC-2-C	48401-79-12	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-118	31508-00-6	PCB	MOD 1668A	1795.85	pg/g - Wet Wt			1267.11
42828-CONC-2-C	48401-79-12	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-114	74472-37-0	PCB	MOD 1668A	33.15	pg/g - Wet Wt	J		1267.11
42828-CONC-2-C	48401-79-12	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-105	32598-14-4	PCB	MOD 1668A	623.10	pg/g - Wet Wt			506.84
42828-CONC-2-C	48401-79-12	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-126	57465-28-8	PCB	MOD 1668A	3320.61	pg/g - Wet Wt			2534.21
42828-CONC-2-C	48401-79-12	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-167	52663-72-6	PCB	MOD 1668A	54.75	pg/g - Wet Wt	J		1267.11
42828-CONC-2-C	48401-79-12	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-156	38380-08-4	PCB	MOD 1668A	87.52	pg/g - Wet Wt	JC		1267.11
42828-CONC-2-C	48401-79-12	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	JC156		1267.11
42828-CONC-2-C	48401-79-12	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-169	32774-16-6	PCB	MOD 1668A	1267.11	pg/g - Wet Wt	U		1267.11
42828-CONC-2-C	48401-79-12	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-189	39635-31-9	PCB	MOD 1668A	3.45	pg/g - Wet Wt	J		1267.11
42828-CONC-2-C	48401-79-12	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-81	70362-50-4	PCB	MOD 1668A	66	%RECOVERY			
42828-CONC-2-C	48401-79-12	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-77	32598-13-3	PCB	MOD 1668A	67	%RECOVERY			
42828-CONC-2-C	48401-79-12	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-123	65510-44-3	PCB	MOD 1668A	61	%RECOVERY			
42828-CONC-2-C	48401-79-12	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-118	31508-00-6	PCB	MOD 1668A	62	%RECOVERY			
42828-CONC-2-C	48401-79-12	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-114	74472-37-0	PCB	MOD 1668A	58	%RECOVERY			
42828-CONC-2-C	48401-79-12	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-105	32598-14-4	PCB	MOD 1668A	62	%RECOVERY			
42828-CONC-2-C	48401-79-12	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-126	57465-28-8	PCB	MOD 1668A	65	%RECOVERY			
42828-CONC-2-C	48401-79-12	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-167	52663-72-6	PCB	MOD 1668A	70	%RECOVERY			
42828-CONC-2-C	48401-79-12	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-156	38380-08-4	PCB	MOD 1668A	63	%RECOVERY			
42828-CONC-2-C	48401-79-12	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-157	69782-90-7	PCB	MOD 1668A	63	%RECOVERY			
42828-CONC-2-C	48401-79-12	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-169	32774-16-6	PCB	MOD 1668A	70	%RECOVERY			
42828-CONC-2-C	48401-79-12	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-189	39635-31-9	PCB	MOD 1668A	76	%RECOVERY			
42828-CONC-2-C	48401-79-12	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-28	7012-37-5	PCB	MOD 1668A	64	%RECOVERY			
42828-CONC-2-C	48401-79-12	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-111	39635-32-0	PCB	MOD 1668A	62	%RECOVERY			
42828-CONC-2-C	48401-79-12	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-178	52663-67-9	PCB	MOD 1668A	69	%RECOVERY			
42828-CONC-2-C	48401-79-12	BCO	DUPLICATE	07/14/01	10/29/01	12/14/01		49038-71	PCB-81	70362-50-4	PCB	MOD 1668A	1252.19	pg/g - Wet Wt	U		1252.19
42828-CONC-2-C	48401-79-12	BCO	DUPLICATE	07/14/01	10/29/01	12/14/01		49038-71	PCB-77	32598-13-3	PCB	MOD 1668A	2893.15	pg/g - Wet Wt			1252.19

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
42828-CONC-2-B	48401-79-11		1.00		Lab Extraction ID = 49038-71-16	1.0157	G_WET	607.9	UJ		T
42828-CONC-2-B	48401-79-11		1.00		Lab Extraction ID = 49038-71-16	1.0157	G_WET	10.91	UJ		T
42828-CONC-2-B	48401-79-11		1.00		Lab Extraction ID = 49038-71-16	1.0157	G_WET	193.27	UJ		T
42828-CONC-2-B	48401-79-11		1.00		Lab Extraction ID = 49038-71-16	1.0157	G_WET	1525.14	J		T
42828-CONC-2-B	48401-79-11		1.00		Lab Extraction ID = 49038-71-16	1.0157	G_WET	23.42	UJ		T
42828-CONC-2-B	48401-79-11		1.00		Lab Extraction ID = 49038-71-16	1.0157	G_WET	30.66	UJ		T
42828-CONC-2-B	48401-79-11		1.00		Lab Extraction ID = 49038-71-16	1.0157	G_WET				T
42828-CONC-2-B	48401-79-11		1.00		Lab Extraction ID = 49038-71-16	1.0157	G_WET	2.22	UJ		T
42828-CONC-2-B	48401-79-11		1.00		Lab Extraction ID = 49038-71-16	1.0157	G_WET	492.27	UJ		T
42828-CONC-2-B	48401-79-11		1.00		Lab Extraction ID = 49038-71-16	1.0157	G_WET				T
42828-CONC-2-B	48401-79-11		1.00		Lab Extraction ID = 49038-71-16	1.0157	G_WET				T
42828-CONC-2-B	48401-79-11		1.00		Lab Extraction ID = 49038-71-16	1.0157	G_WET				T
42828-CONC-2-B	48401-79-11		1.00		Lab Extraction ID = 49038-71-16	1.0157	G_WET				T
42828-CONC-2-B	48401-79-11		1.00		Lab Extraction ID = 49038-71-16	1.0157	G_WET				T
42828-CONC-2-B	48401-79-11		1.00		Lab Extraction ID = 49038-71-16	1.0157	G_WET				T
42828-CONC-2-B	48401-79-11		1.00		Lab Extraction ID = 49038-71-16	1.0157	G_WET				T
42828-CONC-2-B	48401-79-11		1.00		Lab Extraction ID = 49038-71-16	1.0157	G_WET				T
42828-CONC-2-B	48401-79-11		1.00		Lab Extraction ID = 49038-71-16	1.0157	G_WET				T
42828-CONC-2-B	48401-79-11		1.00		Lab Extraction ID = 49038-71-16	1.0157	G_WET				T
42828-CONC-2-B	48401-79-11		1.00		Lab Extraction ID = 49038-71-16	1.0157	G_WET				T
42828-CONC-2-B	48401-79-11		1.00		Lab Extraction ID = 49038-71-16	1.0157	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-17	0.3946	G_WET	1267.11	UJ		T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-17	0.3946	G_WET	2869.54	J		T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-17	0.3946	G_WET	37.99	UJ		T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-17	0.3946	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-17	0.3946	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-17	0.3946	G_WET	1795.85	UJ		T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-17	0.3946	G_WET	33.15	UJ		T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-17	0.3946	G_WET	623.1	UJ		T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-17	0.3946	G_WET	3320.61	J		T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-17	0.3946	G_WET	54.75	UJ		T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-17	0.3946	G_WET	87.52	UJ		T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-17	0.3946	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-17	0.3946	G_WET	1267.11	UJ		T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-17	0.3946	G_WET	3.45	UJ		T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-17	0.3946	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-17	0.3946	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-17	0.3946	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-17	0.3946	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-17	0.3946	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-17	0.3946	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-17	0.3946	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-17	0.3946	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-17	0.3946	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-17	0.3946	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-17	0.3946	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-17	0.3946	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-17	0.3946	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-18	0.3993	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-18	0.3993	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
42828-CONC-2-C	48401-79-12	BCO	DUPLICATE	07/14/01	10/29/01	12/14/01		49038-71	PCB-106	70424-69-0	PCB	MOD 1668A	14.64	pg/g - Wet Wt	JC		2504.38
42828-CONC-2-C	48401-79-12	BCO	DUPLICATE	07/14/01	10/29/01	12/14/01		49038-71	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		2504.38
42828-CONC-2-C	48401-79-12	BCO	DUPLICATE	07/14/01	10/29/01	12/14/01		49038-71	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		1252.19
42828-CONC-2-C	48401-79-12	BCO	DUPLICATE	07/14/01	10/29/01	12/14/01		49038-71	PCB-118	31508-00-6	PCB	MOD 1668A	1234.53	pg/g - Wet Wt	J		1252.19
42828-CONC-2-C	48401-79-12	BCO	DUPLICATE	07/14/01	10/29/01	12/14/01		49038-71	PCB-114	74472-37-0	PCB	MOD 1668A	19.37	pg/g - Wet Wt	J		1252.19
42828-CONC-2-C	48401-79-12	BCO	DUPLICATE	07/14/01	10/29/01	12/14/01		49038-71	PCB-105	32598-14-4	PCB	MOD 1668A	381.29	pg/g - Wet Wt	J		500.88
42828-CONC-2-C	48401-79-12	BCO	DUPLICATE	07/14/01	10/29/01	12/14/01		49038-71	PCB-126	57465-28-8	PCB	MOD 1668A	3314.65	pg/g - Wet Wt			2504.38
42828-CONC-2-C	48401-79-12	BCO	DUPLICATE	07/14/01	10/29/01	12/14/01		49038-71	PCB-167	52663-72-6	PCB	MOD 1668A	41.32	pg/g - Wet Wt	J		1252.19
42828-CONC-2-C	48401-79-12	BCO	DUPLICATE	07/14/01	10/29/01	12/14/01		49038-71	PCB-156	38380-08-4	PCB	MOD 1668A	56.16	pg/g - Wet Wt	JC		1252.19
42828-CONC-2-C	48401-79-12	BCO	DUPLICATE	07/14/01	10/29/01	12/14/01		49038-71	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	JC156		1252.19
42828-CONC-2-C	48401-79-12	BCO	DUPLICATE	07/14/01	10/29/01	12/14/01		49038-71	PCB-169	32774-16-6	PCB	MOD 1668A	2.45	pg/g - Wet Wt	J		1252.19
42828-CONC-2-C	48401-79-12	BCO	DUPLICATE	07/14/01	10/29/01	12/14/01		49038-71	PCB-189	39635-31-9	PCB	MOD 1668A	1.77	pg/g - Wet Wt	J		1252.19
42828-CONC-2-C	48401-79-12	BCO	DUPLICATE	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-81	70362-50-4	PCB	MOD 1668A	65	%RECOVERY			
42828-CONC-2-C	48401-79-12	BCO	DUPLICATE	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-77	32598-13-3	PCB	MOD 1668A	62	%RECOVERY			
42828-CONC-2-C	48401-79-12	BCO	DUPLICATE	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-123	65510-44-3	PCB	MOD 1668A	61	%RECOVERY			
42828-CONC-2-C	48401-79-12	BCO	DUPLICATE	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-118	31508-00-6	PCB	MOD 1668A	60	%RECOVERY			
42828-CONC-2-C	48401-79-12	BCO	DUPLICATE	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-114	74472-37-0	PCB	MOD 1668A	57	%RECOVERY			
42828-CONC-2-C	48401-79-12	BCO	DUPLICATE	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-105	32598-14-4	PCB	MOD 1668A	61	%RECOVERY			
42828-CONC-2-C	48401-79-12	BCO	DUPLICATE	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-126	57465-28-8	PCB	MOD 1668A	64	%RECOVERY			
42828-CONC-2-C	48401-79-12	BCO	DUPLICATE	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-167	52663-72-6	PCB	MOD 1668A	72	%RECOVERY			
42828-CONC-2-C	48401-79-12	BCO	DUPLICATE	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-156	38380-08-4	PCB	MOD 1668A	67	%RECOVERY			
42828-CONC-2-C	48401-79-12	BCO	DUPLICATE	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-157	69782-90-7	PCB	MOD 1668A	67	%RECOVERY			
42828-CONC-2-C	48401-79-12	BCO	DUPLICATE	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-169	32774-16-6	PCB	MOD 1668A	73	%RECOVERY			
42828-CONC-2-C	48401-79-12	BCO	DUPLICATE	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-189	39635-31-9	PCB	MOD 1668A	79	%RECOVERY			
42828-CONC-2-C	48401-79-12	BCO	DUPLICATE	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-28	7012-37-5	PCB	MOD 1668A	60	%RECOVERY			
42828-CONC-2-C	48401-79-12	BCO	DUPLICATE	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-111	39635-32-0	PCB	MOD 1668A	60	%RECOVERY			
42828-CONC-2-C	48401-79-12	BCO	DUPLICATE	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-178	52663-67-9	PCB	MOD 1668A	69	%RECOVERY			
42828-CONC-1-A	48401-79-04	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-81	70362-50-4	PCB	MOD 1668A	607.16	pg/g - Wet Wt	U		607.16
42828-CONC-1-A	48401-79-04	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-77	32598-13-3	PCB	MOD 1668A	968.82	pg/g - Wet Wt			607.16
42828-CONC-1-A	48401-79-04	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-106	70424-69-0	PCB	MOD 1668A	13.27	pg/g - Wet Wt	JC		1214.32
42828-CONC-1-A	48401-79-04	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		1214.32
42828-CONC-1-A	48401-79-04	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		607.16
42828-CONC-1-A	48401-79-04	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-118	31508-00-6	PCB	MOD 1668A	845.16	pg/g - Wet Wt			607.16
42828-CONC-1-A	48401-79-04	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-114	74472-37-0	PCB	MOD 1668A	15.60	pg/g - Wet Wt	J		607.16
42828-CONC-1-A	48401-79-04	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-105	32598-14-4	PCB	MOD 1668A	256.21	pg/g - Wet Wt			242.87
42828-CONC-1-A	48401-79-04	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-126	57465-28-8	PCB	MOD 1668A	904.10	pg/g - Wet Wt	J		1214.33
42828-CONC-1-A	48401-79-04	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-167	52663-72-6	PCB	MOD 1668A	40.27	pg/g - Wet Wt	J		607.16
42828-CONC-1-A	48401-79-04	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-156	38380-08-4	PCB	MOD 1668A	44.70	pg/g - Wet Wt	JC		607.16
42828-CONC-1-A	48401-79-04	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	JC156		607.16
42828-CONC-1-A	48401-79-04	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-169	32774-16-6	PCB	MOD 1668A	2.00	pg/g - Wet Wt	J		607.16
42828-CONC-1-A	48401-79-04	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-189	39635-31-9	PCB	MOD 1668A	607.16	pg/g - Wet Wt	U		607.16
42828-CONC-1-A	48401-79-04	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-81	70362-50-4	PCB	MOD 1668A	59	%RECOVERY			
42828-CONC-1-A	48401-79-04	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-77	32598-13-3	PCB	MOD 1668A	59	%RECOVERY			
42828-CONC-1-A	48401-79-04	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-123	65510-44-3	PCB	MOD 1668A	51	%RECOVERY			
42828-CONC-1-A	48401-79-04	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-118	31508-00-6	PCB	MOD 1668A	52	%RECOVERY			
42828-CONC-1-A	48401-79-04	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-114	74472-37-0	PCB	MOD 1668A	47	%RECOVERY			
42828-CONC-1-A	48401-79-04	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-105	32598-14-4	PCB	MOD 1668A	56	%RECOVERY			
42828-CONC-1-A	48401-79-04	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-126	57465-28-8	PCB	MOD 1668A	56	%RECOVERY			
42828-CONC-1-A	48401-79-04	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-167	52663-72-6	PCB	MOD 1668A	47	%RECOVERY			
42828-CONC-1-A	48401-79-04	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-156	38380-08-4	PCB	MOD 1668A	55	%RECOVERY			
42828-CONC-1-A	48401-79-04	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-157	69782-90-7	PCB	MOD 1668A	55	%RECOVERY			
42828-CONC-1-A	48401-79-04	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-169	32774-16-6	PCB	MOD 1668A	56	%RECOVERY			
42828-CONC-1-A	48401-79-04	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-189	39635-31-9	PCB	MOD 1668A	52	%RECOVERY			
42828-CONC-1-A	48401-79-04	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-28	7012-37-5	PCB	MOD 1668A	58	%RECOVERY			
42828-CONC-1-A	48401-79-04	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-111	39635-32-0	PCB	MOD 1668A	34	%RECOVERY			

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-18	0.3993	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-18	0.3993	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-18	0.3993	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-18	0.3993	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-18	0.3993	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-18	0.3993	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-18	0.3993	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-18	0.3993	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-18	0.3993	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-18	0.3993	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-18	0.3993	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-18	0.3993	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-18	0.3993	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-18	0.3993	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-18	0.3993	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-18	0.3993	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-18	0.3993	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-18	0.3993	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-18	0.3993	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-18	0.3993	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-18	0.3993	G_WET				T
42828-CONC-2-C	48401-79-12		1.00		Lab Extraction ID = 49038-71-18	0.3993	G_WET				T
42828-CONC-1-A	48401-79-04		1.00		Lab Extraction ID = 49038-71-19	0.8235	G_WET	607.18	UJ		T
42828-CONC-1-A	48401-79-04		1.00		Lab Extraction ID = 49038-71-19	0.8235	G_WET	968.82	J		T
42828-CONC-1-A	48401-79-04		1.00		Lab Extraction ID = 49038-71-19	0.8235	G_WET	13.27	UJ		T
42828-CONC-1-A	48401-79-04		1.00		Lab Extraction ID = 49038-71-19	0.8235	G_WET				T
42828-CONC-1-A	48401-79-04		1.00		Lab Extraction ID = 49038-71-19	0.8235	G_WET				T
42828-CONC-1-A	48401-79-04		1.00		Lab Extraction ID = 49038-71-19	0.8235	G_WET	845.16	UJ		T
42828-CONC-1-A	48401-79-04		1.00		Lab Extraction ID = 49038-71-19	0.8235	G_WET	15.6	UJ		T
42828-CONC-1-A	48401-79-04		1.00		Lab Extraction ID = 49038-71-19	0.8235	G_WET	256.21	UJ		T
42828-CONC-1-A	48401-79-04		1.00		Lab Extraction ID = 49038-71-19	0.8235	G_WET	904.1	J		T
42828-CONC-1-A	48401-79-04		1.00		Lab Extraction ID = 49038-71-19	0.8235	G_WET	40.27	UJ		T
42828-CONC-1-A	48401-79-04		1.00		Lab Extraction ID = 49038-71-19	0.8235	G_WET	44.7	UJ		T
42828-CONC-1-A	48401-79-04		1.00		Lab Extraction ID = 49038-71-19	0.8235	G_WET				T
42828-CONC-1-A	48401-79-04		1.00		Lab Extraction ID = 49038-71-19	0.8235	G_WET	2	UJ		T
42828-CONC-1-A	48401-79-04		1.00		Lab Extraction ID = 49038-71-19	0.8235	G_WET	607.16	UJ		T
42828-CONC-1-A	48401-79-04		1.00		Lab Extraction ID = 49038-71-19	0.8235	G_WET				T
42828-CONC-1-A	48401-79-04		1.00		Lab Extraction ID = 49038-71-19	0.8235	G_WET				T
42828-CONC-1-A	48401-79-04		1.00		Lab Extraction ID = 49038-71-19	0.8235	G_WET				T
42828-CONC-1-A	48401-79-04		1.00		Lab Extraction ID = 49038-71-19	0.8235	G_WET				T
42828-CONC-1-A	48401-79-04		1.00		Lab Extraction ID = 49038-71-19	0.8235	G_WET				T
42828-CONC-1-A	48401-79-04		1.00		Lab Extraction ID = 49038-71-19	0.8235	G_WET				T
42828-CONC-1-A	48401-79-04		1.00		Lab Extraction ID = 49038-71-19	0.8235	G_WET				T
42828-CONC-1-A	48401-79-04		1.00		Lab Extraction ID = 49038-71-19	0.8235	G_WET				T
42828-CONC-1-A	48401-79-04		1.00		Lab Extraction ID = 49038-71-19	0.8235	G_WET				T
42828-CONC-1-A	48401-79-04		1.00		Lab Extraction ID = 49038-71-19	0.8235	G_WET				T
42828-CONC-1-A	48401-79-04		1.00		Lab Extraction ID = 49038-71-19	0.8235	G_WET				T
42828-CONC-1-A	48401-79-04		1.00		Lab Extraction ID = 49038-71-19	0.8235	G_WET				T
42828-CONC-1-A	48401-79-04		1.00		Lab Extraction ID = 49038-71-19	0.8235	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
42828-CONC-1-A	48401-79-04	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-178	52663-67-9	PCB	MOD 1668A	54	%RECOVERY			
42828-CONC-1-B	48401-79-05	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-81	70362-50-4	PCB	MOD 1668A	1167.68	pg/g - Wet Wt	U		1167.68
42828-CONC-1-B	48401-79-05	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-77	32598-13-3	PCB	MOD 1668A	1070.00	pg/g - Wet Wt	J		1167.68
42828-CONC-1-B	48401-79-05	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-106	70424-69-0	PCB	MOD 1668A	21.82	pg/g - Wet Wt	JC		2335.36
42828-CONC-1-B	48401-79-05	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		2335.36
42828-CONC-1-B	48401-79-05	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		1167.68
42828-CONC-1-B	48401-79-05	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-118	31508-00-6	PCB	MOD 1668A	1153.41	pg/g - Wet Wt	J		1167.68
42828-CONC-1-B	48401-79-05	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-114	74472-37-0	PCB	MOD 1668A	26.88	pg/g - Wet Wt	J		1167.68
42828-CONC-1-B	48401-79-05	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-105	32598-14-4	PCB	MOD 1668A	363.76	pg/g - Wet Wt	J		467.07
42828-CONC-1-B	48401-79-05	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-126	57465-28-8	PCB	MOD 1668A	929.78	pg/g - Wet Wt	J		2335.36
42828-CONC-1-B	48401-79-05	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-167	52663-72-6	PCB	MOD 1668A	44.65	pg/g - Wet Wt	J		1167.68
42828-CONC-1-B	48401-79-05	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-156	38380-08-4	PCB	MOD 1668A	59.60	pg/g - Wet Wt	JC		1167.68
42828-CONC-1-B	48401-79-05	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	JC156		1167.68
42828-CONC-1-B	48401-79-05	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-169	32774-16-6	PCB	MOD 1668A	3.75	pg/g - Wet Wt	J		1167.68
42828-CONC-1-B	48401-79-05	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-189	39635-31-9	PCB	MOD 1668A	4.40	pg/g - Wet Wt	J		1167.68
42828-CONC-1-B	48401-79-05	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-81	70362-50-4	PCB	MOD 1668A	67	%RECOVERY			
42828-CONC-1-B	48401-79-05	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-77	32598-13-3	PCB	MOD 1668A	68	%RECOVERY			
42828-CONC-1-B	48401-79-05	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-123	65510-44-3	PCB	MOD 1668A	60	%RECOVERY			
42828-CONC-1-B	48401-79-05	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-118	31508-00-6	PCB	MOD 1668A	59	%RECOVERY			
42828-CONC-1-B	48401-79-05	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-114	74472-37-0	PCB	MOD 1668A	53	%RECOVERY			
42828-CONC-1-B	48401-79-05	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-105	32598-14-4	PCB	MOD 1668A	70	%RECOVERY			
42828-CONC-1-B	48401-79-05	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-126	57465-28-8	PCB	MOD 1668A	69	%RECOVERY			
42828-CONC-1-B	48401-79-05	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-167	52663-72-6	PCB	MOD 1668A	54	%RECOVERY			
42828-CONC-1-B	48401-79-05	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-156	38380-08-4	PCB	MOD 1668A	64	%RECOVERY			
42828-CONC-1-B	48401-79-05	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-157	69782-90-7	PCB	MOD 1668A	64	%RECOVERY			
42828-CONC-1-B	48401-79-05	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-169	32774-16-6	PCB	MOD 1668A	66	%RECOVERY			
42828-CONC-1-B	48401-79-05	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-189	39635-31-9	PCB	MOD 1668A	61	%RECOVERY			
42828-CONC-1-B	48401-79-05	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-28	7012-37-5	PCB	MOD 1668A	60	%RECOVERY			
42828-CONC-1-B	48401-79-05	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-111	39635-32-0	PCB	MOD 1668A	36	%RECOVERY			
42828-CONC-1-B	48401-79-05	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-178	52663-67-9	PCB	MOD 1668A	55	%RECOVERY			
42828-CONC-1-C	48401-79-06	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-81	70362-50-4	PCB	MOD 1668A	22.94	pg/g - Wet Wt	J		622.90
42828-CONC-1-C	48401-79-06	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-77	32598-13-3	PCB	MOD 1668A	1322.82	pg/g - Wet Wt			622.90
42828-CONC-1-C	48401-79-06	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-106	70424-69-0	PCB	MOD 1668A	33.26	pg/g - Wet Wt	JC		1245.80
42828-CONC-1-C	48401-79-06	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-107	70724-68-9	PCB	MOD 1668A		pg/g - Wet Wt	C106		1245.80
42828-CONC-1-C	48401-79-06	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-123	65510-44-3	PCB	MOD 1668A		pg/g - Wet Wt	C106		622.90
42828-CONC-1-C	48401-79-06	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-118	31508-00-6	PCB	MOD 1668A	1508.54	pg/g - Wet Wt			622.90
42828-CONC-1-C	48401-79-06	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-114	74472-37-0	PCB	MOD 1668A	30.08	pg/g - Wet Wt	J		622.90
42828-CONC-1-C	48401-79-06	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-105	32598-14-4	PCB	MOD 1668A	461.68	pg/g - Wet Wt			249.16
42828-CONC-1-C	48401-79-06	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-126	57465-28-8	PCB	MOD 1668A	1352.00	pg/g - Wet Wt			1245.80
42828-CONC-1-C	48401-79-06	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-167	52663-72-6	PCB	MOD 1668A	58.47	pg/g - Wet Wt	J		622.90
42828-CONC-1-C	48401-79-06	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-156	38380-08-4	PCB	MOD 1668A	76.98	pg/g - Wet Wt	JC		622.90
42828-CONC-1-C	48401-79-06	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-157	69782-90-7	PCB	MOD 1668A		pg/g - Wet Wt	C156		622.90
42828-CONC-1-C	48401-79-06	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-169	32774-16-6	PCB	MOD 1668A	4.32	pg/g - Wet Wt	J		622.90
42828-CONC-1-C	48401-79-06	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	PCB-189	39635-31-9	PCB	MOD 1668A	5.25	pg/g - Wet Wt	J		622.90
42828-CONC-1-C	48401-79-06	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-81	70362-50-4	PCB	MOD 1668A	46	%RECOVERY			
42828-CONC-1-C	48401-79-06	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-77	32598-13-3	PCB	MOD 1668A	54	%RECOVERY			
42828-CONC-1-C	48401-79-06	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-123	65510-44-3	PCB	MOD 1668A	34	%RECOVERY			
42828-CONC-1-C	48401-79-06	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-118	31508-00-6	PCB	MOD 1668A	34	%RECOVERY			
42828-CONC-1-C	48401-79-06	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-114	74472-37-0	PCB	MOD 1668A	30	%RECOVERY			
42828-CONC-1-C	48401-79-06	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-105	32598-14-4	PCB	MOD 1668A	56	%RECOVERY			
42828-CONC-1-C	48401-79-06	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-126	57465-28-8	PCB	MOD 1668A	49	%RECOVERY			
42828-CONC-1-C	48401-79-06	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-167	52663-72-6	PCB	MOD 1668A	25	%RECOVERY			
42828-CONC-1-C	48401-79-06	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-156	38380-08-4	PCB	MOD 1668A	42	%RECOVERY			
42828-CONC-1-C	48401-79-06	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-157	69782-90-7	PCB	MOD 1668A	42	%RECOVERY			
42828-CONC-1-C	48401-79-06	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-169	32774-16-6	PCB	MOD 1668A	36	%RECOVERY			

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
42828-CONC-1-A	48401-79-04		1.00		Lab Extraction ID = 49038-71-19	0.8235	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-20	0.4282	G_WET	1167.68	UJ		T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-20	0.4282	G_WET	1070	J		T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-20	0.4282	G_WET	21.82	UJ		T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-20	0.4282	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-20	0.4282	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-20	0.4282	G_WET	1153.41	UJ		T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-20	0.4282	G_WET	26.88	UJ		T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-20	0.4282	G_WET	363.76	UJ		T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-20	0.4282	G_WET	929.78	J		T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-20	0.4282	G_WET	44.65	UJ		T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-20	0.4282	G_WET	59.6	UJ		T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-20	0.4282	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-20	0.4282	G_WET	3.75	UJ		T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-20	0.4282	G_WET	4.4	UJ		T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-20	0.4282	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-20	0.4282	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-20	0.4282	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-20	0.4282	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-20	0.4282	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-20	0.4282	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-20	0.4282	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-20	0.4282	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-20	0.4282	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-20	0.4282	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-20	0.4282	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-20	0.4282	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-20	0.4282	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-20	0.4282	G_WET				T
42828-CONC-1-C	48401-79-06		1.00		Lab Extraction ID = 49038-71-22	0.8027	G_WET	22.94	UJ		T
42828-CONC-1-C	48401-79-06		1.00		Lab Extraction ID = 49038-71-22	0.8027	G_WET	1322.82	J		T
42828-CONC-1-C	48401-79-06		1.00		Lab Extraction ID = 49038-71-22	0.8027	G_WET	33.26	UJ		T
42828-CONC-1-C	48401-79-06		1.00		Lab Extraction ID = 49038-71-22	0.8027	G_WET				T
42828-CONC-1-C	48401-79-06		1.00		Lab Extraction ID = 49038-71-22	0.8027	G_WET				T
42828-CONC-1-C	48401-79-06		1.00		Lab Extraction ID = 49038-71-22	0.8027	G_WET	1508.54	UJ		T
42828-CONC-1-C	48401-79-06		1.00		Lab Extraction ID = 49038-71-22	0.8027	G_WET	30.08	UJ		T
42828-CONC-1-C	48401-79-06		1.00		Lab Extraction ID = 49038-71-22	0.8027	G_WET	461.68	UJ		T
42828-CONC-1-C	48401-79-06		1.00		Lab Extraction ID = 49038-71-22	0.8027	G_WET	1352	J		T
42828-CONC-1-C	48401-79-06		1.00		Lab Extraction ID = 49038-71-22	0.8027	G_WET	58.47	UJ		T
42828-CONC-1-C	48401-79-06		1.00		Lab Extraction ID = 49038-71-22	0.8027	G_WET	76.98	UJ		T
42828-CONC-1-C	48401-79-06		1.00		Lab Extraction ID = 49038-71-22	0.8027	G_WET				T
42828-CONC-1-C	48401-79-06		1.00		Lab Extraction ID = 49038-71-22	0.8027	G_WET	4.32	UJ		T
42828-CONC-1-C	48401-79-06		1.00		Lab Extraction ID = 49038-71-22	0.8027	G_WET	5.25	UJ		T
42828-CONC-1-C	48401-79-06		1.00		Lab Extraction ID = 49038-71-22	0.8027	G_WET				T
42828-CONC-1-C	48401-79-06		1.00		Lab Extraction ID = 49038-71-22	0.8027	G_WET				T
42828-CONC-1-C	48401-79-06		1.00		Lab Extraction ID = 49038-71-22	0.8027	G_WET				T
42828-CONC-1-C	48401-79-06		1.00		Lab Extraction ID = 49038-71-22	0.8027	G_WET				T
42828-CONC-1-C	48401-79-06		1.00		Lab Extraction ID = 49038-71-22	0.8027	G_WET				T
42828-CONC-1-C	48401-79-06		1.00		Lab Extraction ID = 49038-71-22	0.8027	G_WET				T
42828-CONC-1-C	48401-79-06		1.00		Lab Extraction ID = 49038-71-22	0.8027	G_WET				T
42828-CONC-1-C	48401-79-06		1.00		Lab Extraction ID = 49038-71-22	0.8027	G_WET				T
42828-CONC-1-C	48401-79-06		1.00		Lab Extraction ID = 49038-71-22	0.8027	G_WET				T
42828-CONC-1-C	48401-79-06		1.00		Lab Extraction ID = 49038-71-22	0.8027	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
42828-CONC-1-C	48401-79-06	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-189	39635-31-9	PCB	MOD 1668A	28	%RECOVERY			
42828-CONC-1-C	48401-79-06	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-28	7012-37-5	PCB	MOD 1668A	40	%RECOVERY			
42828-CONC-1-C	48401-79-06	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-111	39635-32-0	PCB	MOD 1668A	15	%RECOVERY	&		
42828-CONC-1-C	48401-79-06	BCO	NORMAL	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-178	52663-67-9	PCB	MOD 1668A	28	%RECOVERY			
42828-CONC-1-B	48401-79-05	BCO	MS	07/14/01	10/29/01	12/14/01		49038-71	PCB-81	70362-50-4	PCB	MOD 1668A	107	%RECOVERY			
42828-CONC-1-B	48401-79-05	BCO	MS	07/14/01	10/29/01	12/14/01		49038-71	PCB-77	32598-13-3	PCB	MOD 1668A	110	%RECOVERY			
42828-CONC-1-B	48401-79-05	BCO	MS	07/14/01	10/29/01	12/14/01		49038-71	PCB-106	70424-69-0	PCB	MOD 1668A	113	%RECOVERY	C		
42828-CONC-1-B	48401-79-05	BCO	MS	07/14/01	10/29/01	12/14/01		49038-71	PCB-107	70724-68-9	PCB	MOD 1668A		%RECOVERY	C106		
42828-CONC-1-B	48401-79-05	BCO	MS	07/14/01	10/29/01	12/14/01		49038-71	PCB-123	65510-44-3	PCB	MOD 1668A		%RECOVERY	C106		
42828-CONC-1-B	48401-79-05	BCO	MS	07/14/01	10/29/01	12/14/01		49038-71	PCB-118	31508-00-6	PCB	MOD 1668A	833	%RECOVERY	-		
42828-CONC-1-B	48401-79-05	BCO	MS	07/14/01	10/29/01	12/14/01		49038-71	PCB-114	74472-37-0	PCB	MOD 1668A	112	%RECOVERY			
42828-CONC-1-B	48401-79-05	BCO	MS	07/14/01	10/29/01	12/14/01		49038-71	PCB-105	32598-14-4	PCB	MOD 1668A	411	%RECOVERY	&		
42828-CONC-1-B	48401-79-05	BCO	MS	07/14/01	10/29/01	12/14/01		49038-71	PCB-126	57465-28-8	PCB	MOD 1668A	119	%RECOVERY			
42828-CONC-1-B	48401-79-05	BCO	MS	07/14/01	10/29/01	12/14/01		49038-71	PCB-167	52663-72-6	PCB	MOD 1668A	614	%RECOVERY	&		
42828-CONC-1-B	48401-79-05	BCO	MS	07/14/01	10/29/01	12/14/01		49038-71	PCB-156	38380-08-4	PCB	MOD 1668A	604	%RECOVERY	&C		
42828-CONC-1-B	48401-79-05	BCO	MS	07/14/01	10/29/01	12/14/01		49038-71	PCB-157	69782-90-7	PCB	MOD 1668A		%RECOVERY	C156		
42828-CONC-1-B	48401-79-05	BCO	MS	07/14/01	10/29/01	12/14/01		49038-71	PCB-169	32774-16-6	PCB	MOD 1668A	153	%RECOVERY	&		
42828-CONC-1-B	48401-79-05	BCO	MS	07/14/01	10/29/01	12/14/01		49038-71	PCB-189	39635-31-9	PCB	MOD 1668A	339	%RECOVERY	&		
42828-CONC-1-B	48401-79-05	BCO	MS	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-81	70362-50-4	PCB	MOD 1668A	23	%RECOVERY	&		
42828-CONC-1-B	48401-79-05	BCO	MS	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-77	32598-13-3	PCB	MOD 1668A	28	%RECOVERY			
42828-CONC-1-B	48401-79-05	BCO	MS	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-123	65510-44-3	PCB	MOD 1668A	18	%RECOVERY	&		
42828-CONC-1-B	48401-79-05	BCO	MS	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-118	31508-00-6	PCB	MOD 1668A	17	%RECOVERY	&		
42828-CONC-1-B	48401-79-05	BCO	MS	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-114	74472-37-0	PCB	MOD 1668A	15	%RECOVERY	&		
42828-CONC-1-B	48401-79-05	BCO	MS	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-105	32598-14-4	PCB	MOD 1668A	26	%RECOVERY			
42828-CONC-1-B	48401-79-05	BCO	MS	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-126	57465-28-8	PCB	MOD 1668A	23	%RECOVERY	&		
42828-CONC-1-B	48401-79-05	BCO	MS	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-167	52663-72-6	PCB	MOD 1668A	13	%RECOVERY	&		
42828-CONC-1-B	48401-79-05	BCO	MS	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-156	38380-08-4	PCB	MOD 1668A	20	%RECOVERY	&		
42828-CONC-1-B	48401-79-05	BCO	MS	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-157	69782-90-7	PCB	MOD 1668A	20	%RECOVERY	&		
42828-CONC-1-B	48401-79-05	BCO	MS	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-169	32774-16-6	PCB	MOD 1668A	18	%RECOVERY	&		
42828-CONC-1-B	48401-79-05	BCO	MS	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-189	39635-31-9	PCB	MOD 1668A	15	%RECOVERY	&		
42828-CONC-1-B	48401-79-05	BCO	MS	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-28	7012-37-5	PCB	MOD 1668A	21	%RECOVERY	&		
42828-CONC-1-B	48401-79-05	BCO	MS	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-111	39635-32-0	PCB	MOD 1668A	9	%RECOVERY	&		
42828-CONC-1-B	48401-79-05	BCO	MS	07/14/01	10/29/01	12/14/01		49038-71	13C-PCB-178	52663-67-9	PCB	MOD 1668A	16	%RECOVERY	&		
	48514-77-06	BCO	SRM		10/29/01	12/14/01		49038-71	PCB-81	70362-50-4	PCB	MOD 1668A	NA	%DIFFERENCE			491.88
	48514-77-06	BCO	SRM		10/29/01	12/14/01		49038-71	PCB-77	32598-13-3	PCB	MOD 1668A	41.2	%DIFFERENCE	&		491.88
	48514-77-06	BCO	SRM		10/29/01	12/14/01		49038-71	PCB-106	70424-69-0	PCB	MOD 1668A		%DIFFERENCE			983.76
	48514-77-06	BCO	SRM		10/29/01	12/14/01		49038-71	PCB-107	70724-68-9	PCB	MOD 1668A		%DIFFERENCE			983.76
	48514-77-06	BCO	SRM		10/29/01	12/14/01		49038-71	PCB-123	65510-44-3	PCB	MOD 1668A	NA	%DIFFERENCE			491.88
	48514-77-06	BCO	SRM		10/29/01	12/14/01		49038-71	PCB-118	31508-00-6	PCB	MOD 1668A	1521.7	%DIFFERENCE	&		491.88
	48514-77-06	BCO	SRM		10/29/01	12/14/01		49038-71	PCB-114	74472-37-0	PCB	MOD 1668A	NA	%DIFFERENCE			491.88
	48514-77-06	BCO	SRM		10/29/01	12/14/01		49038-71	PCB-105	32598-14-4	PCB	MOD 1668A	858.5	%DIFFERENCE	&		196.75
	48514-77-06	BCO	SRM		10/29/01	12/14/01		49038-71	PCB-126	57465-28-8	PCB	MOD 1668A	7.9	%DIFFERENCE			983.77
	48514-77-06	BCO	SRM		10/29/01	12/14/01		49038-71	PCB-167	52663-72-6	PCB	MOD 1668A	NA	%DIFFERENCE			491.88
	48514-77-06	BCO	SRM		10/29/01	12/14/01		49038-71	PCB-156	38380-08-4	PCB	MOD 1668A	NA	%DIFFERENCE			491.88
	48514-77-06	BCO	SRM		10/29/01	12/14/01		49038-71	PCB-157	69782-90-7	PCB	MOD 1668A	NA	%DIFFERENCE			491.88
	48514-77-06	BCO	SRM		10/29/01	12/14/01		49038-71	PCB-169	32774-16-6	PCB	MOD 1668A	65.7	%DIFFERENCE	&		491.88
	48514-77-06	BCO	SRM		10/29/01	12/14/01		49038-71	PCB-189	39635-31-9	PCB	MOD 1668A	NA	%DIFFERENCE			491.88
	48514-77-06	BCO	SRM		10/29/01	12/14/01		49038-71	13C-PCB-81	70362-50-4	PCB	MOD 1668A	50	%RECOVERY			
	48514-77-06	BCO	SRM		10/29/01	12/14/01		49038-71	13C-PCB-77	32598-13-3	PCB	MOD 1668A	47	%RECOVERY			
	48514-77-06	BCO	SRM		10/29/01	12/14/01		49038-71	13C-PCB-123	65510-44-3	PCB	MOD 1668A	54	%RECOVERY			
	48514-77-06	BCO	SRM		10/29/01	12/14/01		49038-71	13C-PCB-118	31508-00-6	PCB	MOD 1668A	53	%RECOVERY			
	48514-77-06	BCO	SRM		10/29/01	12/14/01		49038-71	13C-PCB-114	74472-37-0	PCB	MOD 1668A	49	%RECOVERY			
	48514-77-06	BCO	SRM		10/29/01	12/14/01		49038-71	13C-PCB-105	32598-14-4	PCB	MOD 1668A	53	%RECOVERY			
	48514-77-06	BCO	SRM		10/29/01	12/14/01		49038-71	13C-PCB-126	57465-28-8	PCB	MOD 1668A	52	%RECOVERY			
	48514-77-06	BCO	SRM		10/29/01	12/14/01		49038-71	13C-PCB-167	52663-72-6	PCB	MOD 1668A	52	%RECOVERY			

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
42828-CONC-1-C	48401-79-06		1.00		Lab Extraction ID = 49038-71-22	0.8027	G_WET				T
42828-CONC-1-C	48401-79-06		1.00		Lab Extraction ID = 49038-71-22	0.8027	G_WET				T
42828-CONC-1-C	48401-79-06		1.00		Lab Extraction ID = 49038-71-22	0.8027	G_WET				T
42828-CONC-1-C	48401-79-06		1.00		Lab Extraction ID = 49038-71-22	0.8027	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-21	0.3673	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-21	0.3673	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-21	0.3673	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-21	0.3673	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-21	0.3673	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-21	0.3673	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-21	0.3673	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-21	0.3673	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-21	0.3673	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-21	0.3673	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-21	0.3673	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-21	0.3673	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-21	0.3673	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-21	0.3673	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-21	0.3673	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-21	0.3673	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-21	0.3673	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-21	0.3673	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-21	0.3673	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-21	0.3673	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-21	0.3673	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-21	0.3673	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-21	0.3673	G_WET				T
42828-CONC-1-B	48401-79-05		1.00		Lab Extraction ID = 49038-71-21	0.3673	G_WET				T
	48514-77-06		1.00		Lab Extraction ID = 49038-71-23	1.0165	G_WET				T
	48514-77-06		1.00		Lab Extraction ID = 49038-71-23	1.0165	G_WET				T
	48514-77-06		1.00		Lab Extraction ID = 49038-71-23	1.0165	G_WET				T
	48514-77-06		1.00		Lab Extraction ID = 49038-71-23	1.0165	G_WET				T
	48514-77-06		1.00		Lab Extraction ID = 49038-71-23	1.0165	G_WET				T
	48514-77-06		1.00		Lab Extraction ID = 49038-71-23	1.0165	G_WET				T
	48514-77-06		1.00		Lab Extraction ID = 49038-71-23	1.0165	G_WET				T
	48514-77-06		1.00		Lab Extraction ID = 49038-71-23	1.0165	G_WET				T
	48514-77-06		1.00		Lab Extraction ID = 49038-71-23	1.0165	G_WET				T
	48514-77-06		1.00		Lab Extraction ID = 49038-71-23	1.0165	G_WET				T
	48514-77-06		1.00		Lab Extraction ID = 49038-71-23	1.0165	G_WET				T
	48514-77-06		1.00		Lab Extraction ID = 49038-71-23	1.0165	G_WET				T
	48514-77-06		1.00		Lab Extraction ID = 49038-71-23	1.0165	G_WET				T
	48514-77-06		1.00		Lab Extraction ID = 49038-71-23	1.0165	G_WET				T
	48514-77-06		1.00		Lab Extraction ID = 49038-71-23	1.0165	G_WET				T
	48514-77-06		1.00		Lab Extraction ID = 49038-71-23	1.0165	G_WET				T
	48514-77-06		1.00		Lab Extraction ID = 49038-71-23	1.0165	G_WET				T
	48514-77-06		1.00		Lab Extraction ID = 49038-71-23	1.0165	G_WET				T
	48514-77-06		1.00		Lab Extraction ID = 49038-71-23	1.0165	G_WET				T
	48514-77-06		1.00		Lab Extraction ID = 49038-71-23	1.0165	G_WET				T
	48514-77-06		1.00		Lab Extraction ID = 49038-71-23	1.0165	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
	48514-77-06	BCO	SRM		10/29/01	12/14/01		49038-71	13C-PCB-156	38380-08-4	PCB	MOD 1668A	48	%RECOVERY			
	48514-77-06	BCO	SRM		10/29/01	12/14/01		49038-71	13C-PCB-157	69782-90-7	PCB	MOD 1668A	48	%RECOVERY			
	48514-77-06	BCO	SRM		10/29/01	12/14/01		49038-71	13C-PCB-169	32774-16-6	PCB	MOD 1668A	45	%RECOVERY			
	48514-77-06	BCO	SRM		10/29/01	12/14/01		49038-71	13C-PCB-189	39635-31-9	PCB	MOD 1668A	54	%RECOVERY			
	48514-77-06	BCO	SRM		10/29/01	12/14/01		49038-71	13C-PCB-28	7012-37-5	PCB	MOD 1668A	51	%RECOVERY			
	48514-77-06	BCO	SRM		10/29/01	12/14/01		49038-71	13C-PCB-111	39635-32-0	PCB	MOD 1668A	48	%RECOVERY			
	48514-77-06	BCO	SRM		10/29/01	12/14/01		49038-71	13C-PCB-178	52663-67-9	PCB	MOD 1668A	61	%RECOVERY			
	48401-44-03	BCO	LCS		10/29/01	12/12/01		49038-71	PCB-81	70362-50-4	PCB	MOD 1668A	109	%RECOVERY			
	48401-44-03	BCO	LCS		10/29/01	12/12/01		49038-71	PCB-77	32598-13-3	PCB	MOD 1668A	158	%RECOVERY	&		
	48401-44-03	BCO	LCS		10/29/01	12/12/01		49038-71	PCB-106	70424-69-0	PCB	MOD 1668A	129	%RECOVERY	C		
	48401-44-03	BCO	LCS		10/29/01	12/12/01		49038-71	PCB-107	70724-68-9	PCB	MOD 1668A		%RECOVERY	C106		
	48401-44-03	BCO	LCS		10/29/01	12/12/01		49038-71	PCB-123	65510-44-3	PCB	MOD 1668A		%RECOVERY	C106		
	48401-44-03	BCO	LCS		10/29/01	12/12/01		49038-71	PCB-118	31508-00-6	PCB	MOD 1668A	1334	%RECOVERY	&		
	48401-44-03	BCO	LCS		10/29/01	12/12/01		49038-71	PCB-114	74472-37-0	PCB	MOD 1668A	120	%RECOVERY			
	48401-44-03	BCO	LCS		10/29/01	12/12/01		49038-71	PCB-105	32598-14-4	PCB	MOD 1668A	381	%RECOVERY	&		
	48401-44-03	BCO	LCS		10/29/01	12/12/01		49038-71	PCB-126	57465-28-8	PCB	MOD 1668A	102	%RECOVERY			
	48401-44-03	BCO	LCS		10/29/01	12/12/01		49038-71	PCB-167	52663-72-6	PCB	MOD 1668A	126	%RECOVERY			
	48401-44-03	BCO	LCS		10/29/01	12/12/01		49038-71	PCB-156	38380-08-4	PCB	MOD 1668A	129	%RECOVERY	C		
	48401-44-03	BCO	LCS		10/29/01	12/12/01		49038-71	PCB-157	69782-90-7	PCB	MOD 1668A		%RECOVERY	C156		
	48401-44-03	BCO	LCS		10/29/01	12/12/01		49038-71	PCB-169	32774-16-6	PCB	MOD 1668A	99	%RECOVERY			
	48401-44-03	BCO	LCS		10/29/01	12/12/01		49038-71	PCB-189	39635-31-9	PCB	MOD 1668A	105	%RECOVERY			
	48401-44-03	BCO	LCS		10/29/01	12/12/01		49038-71	13C-PCB-81	70362-50-4	PCB	MOD 1668A	54	%RECOVERY			
	48401-44-03	BCO	LCS		10/29/01	12/12/01		49038-71	13C-PCB-77	32598-13-3	PCB	MOD 1668A	60	%RECOVERY			
	48401-44-03	BCO	LCS		10/29/01	12/12/01		49038-71	13C-PCB-123	65510-44-3	PCB	MOD 1668A	39	%RECOVERY			
	48401-44-03	BCO	LCS		10/29/01	12/12/01		49038-71	13C-PCB-118	31508-00-6	PCB	MOD 1668A	39	%RECOVERY			
	48401-44-03	BCO	LCS		10/29/01	12/12/01		49038-71	13C-PCB-114	74472-37-0	PCB	MOD 1668A	35	%RECOVERY			
	48401-44-03	BCO	LCS		10/29/01	12/12/01		49038-71	13C-PCB-105	32598-14-4	PCB	MOD 1668A	54	%RECOVERY			
	48401-44-03	BCO	LCS		10/29/01	12/12/01		49038-71	13C-PCB-126	57465-28-8	PCB	MOD 1668A	53	%RECOVERY			
	48401-44-03	BCO	LCS		10/29/01	12/12/01		49038-71	13C-PCB-167	52663-72-6	PCB	MOD 1668A	29	%RECOVERY			
	48401-44-03	BCO	LCS		10/29/01	12/12/01		49038-71	13C-PCB-156	38380-08-4	PCB	MOD 1668A	45	%RECOVERY			
	48401-44-03	BCO	LCS		10/29/01	12/12/01		49038-71	13C-PCB-157	69782-90-7	PCB	MOD 1668A	45	%RECOVERY			
	48401-44-03	BCO	LCS		10/29/01	12/12/01		49038-71	13C-PCB-169	32774-16-6	PCB	MOD 1668A	44	%RECOVERY			
	48401-44-03	BCO	LCS		10/29/01	12/12/01		49038-71	13C-PCB-189	39635-31-9	PCB	MOD 1668A	32	%RECOVERY			
	48401-44-03	BCO	LCS		10/29/01	12/12/01		49038-71	13C-PCB-28	7012-37-5	PCB	MOD 1668A	45	%RECOVERY			
	48401-44-03	BCO	LCS		10/29/01	12/12/01		49038-71	13C-PCB-111	39635-32-0	PCB	MOD 1668A	17	%RECOVERY	&		
	48401-44-03	BCO	LCS		10/29/01	12/12/01		49038-71	13C-PCB-178	52663-67-9	PCB	MOD 1668A	23	%RECOVERY	&		

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
	48514-77-06		1.00		Lab Extraction ID = 49038-71-23	1.0165	G_WET				T
	48514-77-06		1.00		Lab Extraction ID = 49038-71-23	1.0165	G_WET				T
	48514-77-06		1.00		Lab Extraction ID = 49038-71-23	1.0165	G_WET				T
	48514-77-06		1.00		Lab Extraction ID = 49038-71-23	1.0165	G_WET				T
	48514-77-06		1.00		Lab Extraction ID = 49038-71-23	1.0165	G_WET				T
	48514-77-06		1.00		Lab Extraction ID = 49038-71-23	1.0165	G_WET				T
	48514-77-06		1.00		Lab Extraction ID = 49038-71-23	1.0165	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-24	0.5146	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-24	0.5146	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-24	0.5146	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-24	0.5146	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-24	0.5146	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-24	0.5146	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-24	0.5146	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-24	0.5146	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-24	0.5146	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-24	0.5146	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-24	0.5146	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-24	0.5146	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-24	0.5146	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-24	0.5146	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-24	0.5146	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-24	0.5146	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-24	0.5146	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-24	0.5146	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-24	0.5146	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-24	0.5146	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-24	0.5146	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-24	0.5146	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-24	0.5146	G_WET				T
	48401-44-03		1.00		Lab Extraction ID = 49038-71-24	0.5146	G_WET				T

Section 3
DCM:Hexane Extractable Lipid Content Results

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL	CRDL_CRQL
42828-CONC-7-A	48401-78-05	BCO	NORMAL	7/14/01	10/17/01	10/18/01		49038-60	Percent Lipid		WET	MOD 1613B	2.68	% - Wet Wt			0.01	
42828-CONC-7-B	48401-78-06	BCO	NORMAL	7/14/01	10/17/01	10/18/01		49038-60	Percent Lipid		WET	MOD 1613B	1.99	% - Wet Wt			0.01	
42828-CONC-7-C	48401-78-07	BCO	NORMAL	7/14/01	10/17/01	10/18/01		49038-60	Percent Lipid		WET	MOD 1613B	2.84	% - Wet Wt			0.01	
42828-CONC-10-A	48401-78-08	BCO	NORMAL	7/14/01	10/17/01	10/18/01		49038-60	Percent Lipid		WET	MOD 1613B	1.42	% - Wet Wt			0.01	
42828-CONC-10-B	48401-78-09	BCO	NORMAL	7/14/01	10/17/01	10/18/01		49038-60	Percent Lipid		WET	MOD 1613B	3.34	% - Wet Wt			0.01	
42828-CONC-10-C	48401-78-10	BCO	NORMAL	7/14/01	10/17/01	10/18/01		49038-60	Percent Lipid		WET	MOD 1613B	1.22	% - Wet Wt			0.01	
42828-CONC-14-A	48401-78-11	BCO	NORMAL	7/14/01	10/17/01	10/18/01		49038-60	Percent Lipid		WET	MOD 1613B	3.07	% - Wet Wt			0.01	
42828-CONC-14-B	48401-78-12	BCO	NORMAL	7/14/01	10/17/01	10/18/01		49038-60	Percent Lipid		WET	MOD 1613B	1.28	% - Wet Wt			0.01	
42828-CONC-14-C	48401-78-13	BCO	NORMAL	7/14/01	10/17/01	10/18/01		49038-60	Percent Lipid		WET	MOD 1613B	2.43	% - Wet Wt			0.01	
42828-CONC-6-A	48401-78-14	BCO	NORMAL	7/14/01	10/17/01	10/18/01		49038-60	Percent Lipid		WET	MOD 1613B	3.38	% - Wet Wt			0.01	
42828-CONC-6-B	48401-78-15	BCO	NORMAL	7/14/01	10/17/01	10/18/01		49038-60	Percent Lipid		WET	MOD 1613B	4.56	% - Wet Wt			0.01	
42828-CONC-6-C	48401-78-16	BCO	NORMAL	7/14/01	10/17/01	10/18/01		49038-60	Percent Lipid		WET	MOD 1613B	1.43	% - Wet Wt			0.01	
42828-CONC-9-A	48401-78-17	BCO	NORMAL	7/14/01	10/17/01	10/18/01		49038-60	Percent Lipid		WET	MOD 1613B	2.67	% - Wet Wt			0.01	
42828-CONC-9-B	48401-78-18	BCO	NORMAL	7/14/01	10/17/01	10/18/01		49038-60	Percent Lipid		WET	MOD 1613B	2.11	% - Wet Wt			0.01	
42828-CONC-9-C	48401-78-19	BCO	NORMAL	7/14/01	10/17/01	10/18/01		49038-60	Percent Lipid		WET	MOD 1613B	3.41	% - Wet Wt			0.01	
42828-CONC-3-A	48401-78-02	BCO	NORMAL	7/14/01	10/17/01	10/18/01		49038-60	Percent Lipid		WET	MOD 1613B	2.07	% - Wet Wt			0.01	
42828-CONC-3-B	48401-78-03	BCO	NORMAL	7/14/01	10/17/01	10/18/01		49038-60	Percent Lipid		WET	MOD 1613B	2.54	% - Wet Wt			0.01	
42828-CONC-3-C	48401-78-04	BCO	NORMAL	7/14/01	10/17/01	10/18/01		49038-60	Percent Lipid		WET	MOD 1613B	3.58	% - Wet Wt			0.01	
42828-CONC-12-A	48401-78-20	BCO	NORMAL	7/14/01	10/17/01	10/18/01		49038-60	Percent Lipid		WET	MOD 1613B	3.15	% - Wet Wt			0.01	
42828-CONC-12-B	48401-78-21	BCO	NORMAL	7/14/01	10/17/01	10/18/01		49038-60	Percent Lipid		WET	MOD 1613B	1.44	% - Wet Wt			0.01	
42828-CONC-12-B	48401-78-21	BCO	DUPLICATE	7/14/01	10/17/01	10/18/01		49038-60	Percent Lipid		WET	MOD 1613B	1.66	% - Wet Wt			0.01	
42828-CONC-3-B	48401-78-03	BCO	MS	7/14/01	10/17/01	10/18/01		49038-60	Percent Lipid		WET	MOD 1613B	2.81	% - Wet Wt			0.01	
42828-CONC-12-C	48401-78-22	BCO	NORMAL	7/14/01	10/29/01	10/31/01		49038-71	Percent Lipid		WET	MOD 1613B	3.26	% - Wet Wt			0.01	
42828-CONC-11-A	48401-79-07	BCO	NORMAL	7/14/01	10/29/01	10/31/01		49038-71	Percent Lipid		WET	MOD 1613B	2.76	% - Wet Wt			0.01	
42828-CONC-11-C	48401-79-09	BCO	NORMAL	7/14/01	10/29/01	10/31/01		49038-71	Percent Lipid		WET	MOD 1613B	3.73	% - Wet Wt			0.01	
42828-CONC-8-A	48401-78-26	BCO	NORMAL	7/14/01	10/29/01	10/31/01		49038-71	Percent Lipid		WET	MOD 1613B	2.25	% - Wet Wt			0.01	
42828-CONC-8-B	48401-78-27	BCO	NORMAL	7/14/01	10/29/01	10/31/01		49038-71	Percent Lipid		WET	MOD 1613B	3.54	% - Wet Wt			0.01	
42828-CONC-8-C	48401-78-28	BCO	NORMAL	7/14/01	10/29/01	10/31/01		49038-71	Percent Lipid		WET	MOD 1613B	2.72	% - Wet Wt			0.01	
42828-CONC-5-A	48401-78-29	BCO	NORMAL	7/14/01	10/29/01	10/31/01		49038-71	Percent Lipid		WET	MOD 1613B	2.99	% - Wet Wt			0.01	
42828-CONC-5-B	48401-79-02	BCO	NORMAL	7/14/01	10/29/01	10/31/01		49038-71	Percent Lipid		WET	MOD 1613B	3.62	% - Wet Wt			0.01	
42828-CONC-5-C	48401-79-03	BCO	NORMAL	7/14/01	10/29/01	10/31/01		49038-71	Percent Lipid		WET	MOD 1613B	2.52	% - Wet Wt			0.01	
42828-CONC-4-A	48401-78-23	BCO	NORMAL	7/14/01	10/29/01	10/31/01		49038-71	Percent Lipid		WET	MOD 1613B	2.90	% - Wet Wt			0.01	
42828-CONC-4-B	48401-78-24	BCO	NORMAL	7/14/01	10/29/01	10/31/01		49038-71	Percent Lipid		WET	MOD 1613B	1.40	% - Wet Wt			0.01	
42828-CONC-2-B	48401-79-11	BCO	NORMAL	7/14/01	10/29/01	10/31/01		49038-71	Percent Lipid		WET	MOD 1613B	1.92	% - Wet Wt			0.01	
42828-CONC-2-C	48401-79-12	BCO	NORMAL	7/14/01	10/29/01	10/31/01		49038-71	Percent Lipid		WET	MOD 1613B	3.72	% - Wet Wt			0.01	
42828-CONC-2-C	48401-79-12	BCO	DUPLICATE	7/14/01	10/29/01	10/31/01		49038-71	Percent Lipid		WET	MOD 1613B	3.68	% - Wet Wt			0.01	
42828-CONC-1-A	48401-79-04	BCO	NORMAL	7/14/01	10/29/01	10/31/01		49038-71	Percent Lipid		WET	MOD 1613B	3.37	% - Wet Wt			0.01	
42828-CONC-1-B	48401-79-05	BCO	NORMAL	7/14/01	10/29/01	10/31/01		49038-71	Percent Lipid		WET	MOD 1613B	3.67	% - Wet Wt			0.01	
42828-CONC-1-C	48401-79-06	BCO	NORMAL	7/14/01	10/29/01	10/31/01		49038-71	Percent Lipid		WET	MOD 1613B	3.48	% - Wet Wt			0.01	
42828-CONC-4-C	48401-78-25	BCO	NORMAL	7/14/01	10/29/01	10/31/01		49038-71	Percent Lipid		WET	MOD 1613B	2.23	% - Wet Wt			0.01	
42828-CONC-2-A	48401-79-10	BCO	NORMAL	7/14/01	10/29/01	10/31/01		49038-71	Percent Lipid		WET	MOD 1613B	1.99	% - Wet Wt			0.01	
42828-CONC-11-B	48401-79-08	BCO	NORMAL	7/14/01	10/29/01	10/31/01		49038-71	Percent Lipid		WET	MOD 1613B	3.54	% - Wet Wt			0.01	
42828-CONC-1-B	48401-79-05	BCO	MS	7/14/01	10/29/01			49038-71	Percent Lipid		WET	MOD 1613B	3.29	% - Wet Wt			0.01	

SAMPLE_NO	LAB_ID	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
42828-CONC-7-A	48401-78-05	1.00	NA	DCM:Hexane extractable lipid content	0.8843	G_WET	2.18			T
42828-CONC-7-B	48401-78-06	1.00	NA	DCM:Hexane extractable lipid content	1.0593	G_WET	1.99			T
42828-CONC-7-C	48401-78-07	1.00	NA	DCM:Hexane extractable lipid content	0.8041	G_WET	2.84			T
42828-CONC-10-A	48401-78-08	1.00	NA	DCM:Hexane extractable lipid content	1.0899	G_WET	1.42			T
42828-CONC-10-B	48401-78-09	1.00	NA	DCM:Hexane extractable lipid content	0.7681	G_WET	3.34			T
42828-CONC-10-C	48401-78-10	1.00	NA	DCM:Hexane extractable lipid content	0.8598	G_WET	1.22			T
42828-CONC-14-A	48401-78-11	1.00	NA	DCM:Hexane extractable lipid content	0.8482	G_WET	3.07			T
42828-CONC-14-B	48401-78-12	1.00	NA	DCM:Hexane extractable lipid content	1.0978	G_WET	1.28			T
42828-CONC-14-C	48401-78-13	1.00	NA	DCM:Hexane extractable lipid content	0.8651	G_WET	2.43			T
42828-CONC-6-A	48401-78-14	1.00	NA	DCM:Hexane extractable lipid content	0.7469	G_WET	3.38			T
42828-CONC-6-B	48401-78-15	1.00	NA	DCM:Hexane extractable lipid content	0.7768	G_WET	4.56			T
42828-CONC-6-C	48401-78-16	1.00	NA	DCM:Hexane extractable lipid content	1.1439	G_WET	1.43			T
42828-CONC-9-A	48401-78-17	1.00	NA	DCM:Hexane extractable lipid content	0.8843	G_WET	2.67			T
42828-CONC-9-B	48401-78-18	1.00	NA	DCM:Hexane extractable lipid content	0.9437	G_WET	2.11			T
42828-CONC-9-C	48401-78-19	1.00	NA	DCM:Hexane extractable lipid content	0.7734	G_WET	3.41			T
42828-CONC-3-A	48401-78-02	1.00	NA	DCM:Hexane extractable lipid content	1.0548	G_WET	2.07			T
42828-CONC-3-B	48401-78-03	1.00	NA	DCM:Hexane extractable lipid content	0.3976	G_WET	2.54			T
42828-CONC-3-C	48401-78-04	1.00	NA	DCM:Hexane extractable lipid content	0.8121	G_WET	3.58			T
42828-CONC-12-A	48401-78-20	1.00	NA	DCM:Hexane extractable lipid content	0.8303	G_WET	3.15			T
42828-CONC-12-B	48401-78-21	4.00	NA	DCM:Hexane extractable lipid content	0.2509	G_WET	1.44			T
42828-CONC-12-B	48401-78-21	1.00	NA	DCM:Hexane extractable lipid content	0.2619	G_WET	1.66			T
42828-CONC-3-B	48401-78-03	1.00	NA	DCM:Hexane extractable lipid content	0.3882	G_WET	2.81			T
42828-CONC-12-C	48401-78-22	1.00	NA	DCM:Hexane extractable lipid content	0.7877	G_WET	3.26			T
42828-CONC-11-A	48401-79-07	1.00	NA	DCM:Hexane extractable lipid content	0.7905	G_WET	2.76			T
42828-CONC-11-C	48401-79-09	1.00	NA	DCM:Hexane extractable lipid content	0.7281	G_WET	3.73			T
42828-CONC-8-A	48401-78-26	1.00	NA	DCM:Hexane extractable lipid content	0.9989	G_WET	2.25			T
42828-CONC-8-B	48401-78-27	1.00	NA	DCM:Hexane extractable lipid content	0.8097	G_WET	3.54			T
42828-CONC-8-C	48401-78-28	1.00	NA	DCM:Hexane extractable lipid content	1.0205	G_WET	2.72			T
42828-CONC-5-A	48401-78-29	1.00	NA	DCM:Hexane extractable lipid content	0.8272	G_WET	2.99			T
42828-CONC-5-B	48401-79-02	1.00	NA	DCM:Hexane extractable lipid content	0.7703	G_WET	3.62			T
42828-CONC-5-C	48401-79-03	1.00	NA	DCM:Hexane extractable lipid content	0.9107	G_WET	2.52			T
42828-CONC-4-A	48401-78-23	1.00	NA	DCM:Hexane extractable lipid content	0.8114	G_WET	2.90			T
42828-CONC-4-B	48401-78-24	1.00	NA	DCM:Hexane extractable lipid content	1.2189	G_WET	1.40			T
42828-CONC-2-B	48401-79-11	1.00	NA	DCM:Hexane extractable lipid content	1.0157	G_WET	1.92			T
42828-CONC-2-C	48401-79-12	1.00	NA	DCM:Hexane extractable lipid content	0.3946	G_WET	3.72			T
42828-CONC-2-C	48401-79-12	1.00	NA	DCM:Hexane extractable lipid content	0.3993	G_WET	3.68			T
42828-CONC-1-A	48401-79-04	1.00	NA	DCM:Hexane extractable lipid content	0.8235	G_WET	3.37			T
42828-CONC-1-B	48401-79-05	1.00	NA	DCM:Hexane extractable lipid content	0.4282	G_WET	3.67			T
42828-CONC-1-C	48401-79-06	1.00	NA	DCM:Hexane extractable lipid content	0.8027	G_WET	3.48			T
42828-CONC-4-C	48401-78-25	1.00	NA	DCM:Hexane extractable lipid content	1.0459	G_WET	2.23			T
42828-CONC-2-A	48401-79-10	1.00	NA	DCM:Hexane extractable lipid content	1.0374	G_WET	1.99			T
42828-CONC-11-B	48401-79-08	4.00	NA	DCM:Hexane extractable lipid content	0.7807	G_WET	3.54			T
42828-CONC-1-B	48401-79-05	1.00	NA	DCM:Hexane extractable lipid content	0.3673	G_WET	3.29			T

Section 4
Third Party Validation Reports

Steve Stodola
US EPA Approval Signature

July 18, 2002
Date
July 17, 2002
L-02-07-Z-02

Ms. Christine Clark
Regional Sample Control Custodian
Office of Environmental Measurement and Evaluation
U.S. EPA Region I
11 Technology Drive
North Chelmsford, Massachusetts 01863

Re: Task Order No. 010, Task No. 2, TDF No. 0455B
Case No. ELS Catfish Fry B1OF1, SDG No. 49038-51 TCDD/HCX
Battelle Laboratories - Columbus, OH
Centredale Manor Site - North Providence, RI

TCDD/HCX: 14/Tissue/42828-1, 42828-2, 42828-3, 42828-4, 42828-5, 42828-6, 42828-7, 42828-8, 42828-9, 42828-10, 42828-11, 42828-12, 42828-13, 42828-14

1/Fish Tissue SRM/CIL EDF 2526

Dear Ms. Clark:

A Tier III data validation was performed on the TCDD and HCX analytical data for 14 ELS catfish fry tissue samples. These samples were purchased from Osage Catfisheries of Missouri. The samples were analyzed according to EPA Method 1613B, September 15, 1997. The samples were validated using first the criteria in the Centredale Manor Tasks 19-22 QAPP (5/23/01) prepared by Battelle Duxbury Operations which include the criteria in EPA Method 1613B, September 15, 1997, defaulting next to Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, December 1996 criteria, and finally to EPA Region I's Environmental Services Assistance Team Dioxin Data Validation SOP ESAT-01-0007 (01/31/01). The criteria for HCX are documented in Battelle's December 7, 2001 letter to EPA. See the Supporting Documentation Section. The data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
- Data Completeness (CSF Audit - Tier I)
- * Preservation and Technical Holding Times
- PE Samples/Accuracy Check
- * Window Defining Mix
- * Initial and Continuing Calibrations
- Chromatographic Resolution
- * Instrument Sensitivity Check
- Blanks
- * Matrix Spike/Matrix Spike Duplicate
- * Laboratory Control Sample/Laboratory Control Sample Duplicate

*	•	Laboratory and Field Duplicates
*	•	Internal/Clean up Standards
*	•	Sample Analysis and Identification
	•	Sample Quantitation
*	•	Estimated Detection Limits (EDL) and Estimated Maximum Possible Concentration (EMPC)
	•	2378-TCDD Toxicity Equivalents (TE) and Isomer Specifity
*	•	Required Sample Reruns and Second Column Confirmation
	•	System Performance

* - All criteria were met for this parameter.

The following information was used to generate the Data Validation Memorandum attachments:

Table I: Recommendation Summary Table - summarizes validation recommendations

Table II: Overall Evaluation of Data - summarizes site objectives and potential usability issues

Data Summary Tables - summarize accepted, qualified, and rejected data

Overall Evaluation of Data and Potential Usability Issues

The following is a summary of the site investigation/assessment objectives as found in Centredale Manor Tasks 19-22 QAPP (5/23/01):

- To generate data of quality sufficient to be used for human health (HHRA) and ecological risk assessments (ERA) at the site.

One Cambridge Isotope Laboratories (CIL) Standard Reference Material (SRM) sample was evaluated for this SDG (CIL EDF 2526 for Dioxin/Furan congeners in fish tissue). The compound of interest for this project, 2378-TCDD, recovered outside the specified criterion of 30%D from the consensus value as specified in the Centredale Manor Tasks 19-22 QAPP (5/23/01). Since 2378-TCDD had low recovery, the results for this congener in all samples were estimated (J, UJ) due to the possibility of biased low results. The SRM sample did not contain hexachloroxanthene (HCX).

The method blank had low level contamination. However, the concentration in the method blank was insignificant when compared to the concentration found in the field samples. Therefore, the method blank contamination does not impact data usability. When the concentration in the field samples is less than the corresponding blank action level, the field sample results reported by the laboratory are qualified as non-detected (U) on the Data Summary Table. See Table I for a summary of the qualifiers applied due to blank contamination.

Data validation indicated minor data quality problems which do not significantly impact the usability of the data. See the discussion below for details. The reported results are usable for the site objectives.

Data Completeness (CSF Audit - Tier I)

The following data or information in the data package had discrepancies and/or was missing:

1. The laboratory was asked to submit the Chain-of-Custody records completed by the sampler and received with this batch of samples.

2. The laboratory was asked to provide internal Chain-of-Custody records showing custody of the samples throughout the laboratory until their arrival at Battelle Columbus, Ohio on September 5, 2001. In addition, the laboratory was asked to provide records indicating conditions/temperature of the sample storage.

3. The laboratory was asked to submit % lipids and % solids for this batch of samples.

4. The laboratory was asked to correct "Sample Date" for the method blank reported as 02/14/01 on page 1143 of the report and to resubmit the corrected form.

The above items were requested via the TOPO on March 6, 2002 (items 1 through 3) and on June 13, 2002 (items 4). The responses were received via the TOPO on April 8, 2002 and on July 5, 2002. All items were adequately addressed.

PE Samples/Accuracy Check

One CIL Standard Reference Material (SRM) sample was evaluated for this SDG (CIL EDF 2526 for Dioxin/Furan congeners in fish tissue). The compound of interest for this project, 2378-TCDD, recovered outside the Centredale Manor Tasks 19-22 QAPP (5/23/01) specified criterion of 30 %D from the consensus value.

The following table summarizes the SRM sample (49038-51-18 FISH SRM) result which did not meet %D criterion and the resulting sample qualifications:

PE Sample Number	Congener	%D	Action	
			Positive Detects	NDs
CIL EDF 2526	2378-TCDD	33.7	J	UJ

Since 2378-TCDD had low recovery, the results for this congener in all samples were estimated (J, UJ) due to possibility of biased low results.

Chromatographic Resolution

The hexachloroxanthene (HCX) peaks exhibit poor chromatography, i.e., broad peak shape. The broad peak shape created irregularities in the response factors used to calculate the concentrations of HCX. Therefore, professional judgement was used to estimate (UJ) the non-detected results for HCX in all samples due to poor chromatography. There were no positive HCX results in this batch of samples.

Blanks

All of the blanks associated with this SDG were evaluated for possible sources of contamination. The following table lists the highest concentration of the contamination that was detected in the blanks. The table lists the contamination found in the blank along with the action levels and the affected samples:

- Method Blanks

Congener	Type of Blank	Blank Concentration (pg/g, wet)	Action Level (pg/g, wet)	Samples Affected
2378-TCDD	Method Blank (1g) (10/09/01)	2.34	11.68	42828-12
2378-TCDD	Method Blank (2g) (10/09/01)	1.17	5.84	42828-4, 42828-5, 42828-7, 42828-8, 42828-10, 42828-13, 42828-14

Blank actions are based on Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, December 1996 and EPA Region I's Environmental Services Assistance Team Dioxin Data Validation SOP ESAT-01-007 (01/31/01) criteria. Blank action levels are calculated as ten times the highest concentration of the contaminant determined in any blank for common contaminants (OCDD/OCDF and Total Homologues) and five times the highest concentration for all other analytes. The positive sample results that are less than or equal to the blank action level are reported as non-detects (U) at the reported concentration on the Data Summary Table.

Sample Quantitation

Concentrations quantitated and reported by the laboratory below the lowest calibration standard are flagged (J) on the Data Summary Table. Quantitation is not accurate when the reported results are below the lowest calibration standard.

2378-TCDD Toxicity Equivalents (TE) and Isomer Specificity

All TE values reported on the Data Summary Tables have been calculated by the ESAT data validator using the validated data discussed above in this report. The validated data accounts for blank contamination. The TE values in the data Summary Table differ slightly from the values

reported by the laboratory. The Fish TEF values used by ESAT are the ones published in Environmental Health Perspectives, Volume 106, Number 12, December 1998. "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife."

System Performance

No trends were noted.

Very truly yours,

LOCKHEED ENVIRONMENTAL

Maria E. Baca
Senior Scientist

Louis Macri
ESAT Program Manager

cc: Cornell Rosiu, EPA RPM (DV Memorandum, Data Summary Table)

Attachments: Table I: Recommendation Summary Table
Table II: Overall Evaluation of Data
Data Summary Tables
Data Validation Worksheets
Analytical Method
PES Score Reports
Communications
Field Notes

Table I
Recommendation Summary Table for TCDD/HCX
Centredale Manor Site - North Providence, RI Site
Case No. ELS Catfish Fry B1OF1, SDG No. 49038-51 TCDD/HCX

Sample Nos.	42828-1	42828-2	42828-3	42828-4	42828-5	42828-6	42828-7
Compound							
2378-TCDD	J[1]	J[1]	J[1]	J[1,3]	J[1,3]	J[1]	J[1,3]
HCX	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]

Sample Nos.	42828-8	42828-9	42828-10	42828-11	42828-12	42828-13	42828-14
Compound							
2378-TCDD	J[1,3]	J[1]	J[1,3]	J[1]	J[1,3]	J[1,3]	J[1,3]
HCX	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]

Table I
Recommendation Summary Table for TCDD/HCX

A	-	Accept results.
J^1	-	SRM %D outside criterion; J detects, UJ non-detects.
J^2	-	Poor chromatography; UJ non-detects.
J^3	-	Method Blank contamination; positive sample results less than the blank action level are reported as non-detects (U) at the reported concentration.

EPA-NE - Data Validation Worksheet

Overall Evaluation of Data - Data Validation Memorandum - Table II

TCDD/HCX ANALYSIS					
DQO (List all DQOs)	Sampling and/or Analytical Method Appropriate Yes or No	Measurement Error		Sampling Variability	Potential Usability Issues
		Analytical Error	Sampling Error*		
To generate data of quality sufficient to be used for human health (HHRA) and ecological risk assessments (ERA) at the site.	Yes, Sampling Method appropriate for all samples. Yes, Analytical Method appropriate for all samples.	Refer to qualification in R/S Key on Table I: J[1,2]	Refer to qualification in R/S Key on Table I: N/A	**	One Cambridge Isotope Laboratories (CIL) Standard Reference Material (SRM) sample was evaluated for this SDG (CIL EDF 2526 for Dioxin/Furan oengeners in fish tissue). The compound of interest for this project, 2378-TCDD, recovered outside the specified criterion of 30%D from the consensus value as specified in the Centredale Manor Tasks 19-22 QAPP (5/23/01). Since 2378-TCDD had low recovery, the results for this congener in all samples were estimated (J, UJ) due to the possibility of biased low results. The SRM sample did not contain hexachloroxanthene (HCX). The method blank had low level contamination. However, the concentration in the method blank was insignificant when compared to the concentration found in the field samples. Therefore, the method blank contamination does not impact data usability. When the concentration in the field samples is less than the corresponding blank action level, the field sample results reported by the laboratory are qualified as non-detected (U) on the Data Summary Table. See Table I for a summary of the qualifiers applied due to blank contamination. Data validation indicated minor data quality problems which do not significantly impact the usability of the data. See the discussion in the data validation memorandum for details. The reported results are usable for the site objectives.

* The evaluation of "sampling error" cannot be completely assessed in the data validation.

** Sampling variability is not assessed in data validation.

Validator: Marie Bare

Date: 7/17/02

Data Summary Table
TCDD/HCX Analysis - Tissue Samples (wet weight)

SITE: Centredale Manor - N. Providence, RI
CASE NO. ELS Catfish Fry B1OF1 SDG No. 49038-51 TCDD/HCX
LABORATORY: BATTELLE

SAMPLE NUMBER:	Toxicity Equivalency Factors (1)	42828-1			42828-2			42828-3			42828-4			42828-5			42828-6		
STATION LOCATION:		42828-1			42828-2			42828-3			42828-4			42828-5			42828-6		
MATRIX:		TISSUE			TISSUE			TISSUE			TISSUE			TISSUE			TISSUE		
TCDD/TCDF CONC.:		ng/Kg		DL/EMPC*	ng/Kg		DL/EMPC*	ng/Kg		DL/EMPC*	ng/Kg		DL/EMPC*	ng/Kg		DL/EMPC*	ng/Kg		DL/EMPC*
2,3,7,8-TCDD	1.0	6.59	J		6.44	J			UJ	0.99		UJ	1.65		UJ	3.76	5.85	J	
HCX - Hexachloroxanthene			UJ	94.99		UJ	96.67		UJ	90.21		UJ	92.52		UJ	91.40		UJ	94.51
TOXIC EQUIVALENT(1):		6.6	J		6.4	J		0.0	UJ		0.0	UJ		0.0	UJ		5.8	J	
PERCENT SOLIDS:		NA			NA			NA			NA			NA			NA		
PERCENT LIPIDS:		NA			NA			NA			NA			NA			NA		
DILUTION FACTOR:		1.0			1.0			1.0			1.0			1.0			1.0		
DATE SAMPLED:		08/14/01			08/14/01			08/14/01			08/14/01			08/14/01			08/14/01		
DATE OF RECEIPT:		09/05/01			09/05/01			09/05/01			09/05/01			09/05/01			09/05/01		
SAMPLE EXTRACTION DATE:		10/09/01			10/09/01			10/09/01			10/09/01			10/09/01			10/09/01		
ANALYSIS DATE:		10/16/01			10/16/01			10/16/01			10/16/01			10/17/01			10/17/01		
LAB SAMPLE ID:		49038-51-02			49038-51-03			49038-51-04			49038-51-05			49038-51-06			49038-51-07		

* = The values in this column are either the Detection Limits (DL) or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are marked with a "*". The DL values are unmarked.
The EMPC values are not qualified with a "J", since they are already estimated.
(1) The Toxic Equivalent concentration is calculated with the Toxicity Equivalency Factors (TEFs) found in "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife", Environmental Health Perspectives, Volume 106, Number (12), December 1998, Table 2, page 780.
Concentrations reported by the laboratory below the lowest standard are flagged (J) on the Data Summary Table as estimated values. All other necessary qualifications are defined in Table I.
NA = Percent solids and percent lipids were not required for this batch of samples.

Data Summary Table
TCDD/HCX Analysis - Tissue Samples (wet weight)

SITE: Centredale Manor - N. Providence, RI
CASE NO. ELS Catfish Fry B1OF1 SDG No. 49038-51 TCDD/HCX
LABORATORY: BATTELLE

SAMPLE NUMBER:	Toxicity Equivalency Factors (1)	42828-7			42828-8			42828-9			42828-10			42828-11			42828-12		
STATION LOCATION:		42828-7			42828-8			42828-9			42828-10			42828-11			42828-12		
MATRIX:		TISSUE			TISSUE			TISSUE			TISSUE			TISSUE			TISSUE		
TCDD/TCDF CONC.:		ng/Kg		DL/EMPC	ng/Kg		DL/EMPC*	ng/Kg		DL/EMPC*	ng/Kg		DL/EMPC*	ng/Kg		DL/EMPC	ng/Kg		DL/EMPC
2,3,7,8-TCDD	1.0		UJ	1.71		UJ	3.14	10.67	J			UJ	2.59	9.24	J			UJ	9.14
HCX - Hexachloroxanthene			UJ	96.53		UJ	95.43		UJ	94.46		UJ	94.10		UJ	90.85		UJ	228.18
TOXIC EQUIVALENT(1):		0.0	UJ		0.0	UJ		11	J		0.0	UJ		9.2	J		0.0	UJ	
PERCENT SOLIDS:		NA			NA			NA			NA			NA			NA		
PERCENT LIPIDS:		NA			NA			NA			NA			NA			NA		
DILUTION FACTOR:		1.0			1.0			1.0			1.0			1.0			1.0		
DATE SAMPLED:		08/14/01			08/14/01			08/14/01			08/14/01			08/14/01			08/14/01		
DATE OF RECEIPT:		09/05/01			09/05/01			09/05/01			09/05/01			09/05/01			09/05/01		
SAMPLE EXTRACTION DATE:		10/09/01			10/09/01			10/09/01			10/09/01			10/09/01			10/09/01		
ANALYSIS DATE:		10/17/01			10/17/01			10/17/01			10/17/01			10/18/01			10/18/01		
LAB SAMPLE ID:		49038-51-08			49038-51-09			49038-51-10			49038-51-11			49038-51-12			49038-51-13		

* = The values in this column are either the Detection Limits (DL) or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are marked with a "*". The DL values are unmarked. The EMPC values are not qualified with a "J", since they are already estimated.

(1) The Toxic Equivalent concentration is calculated with the Toxicity Equivalency Factors (TEFs) found in "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife", Environmental Health Perspectives, Volume 106, Number (12), December 1998, Table 2, page 780.

Concentrations reported by the laboratory below the lowest standard are flagged (J) on the Data Summary Table as estimated values. All other necessary qualifications are defined in Table I.

NA = Percent solids and percent lipids were not required for this batch of samples.

Data Summary Table
TCDD/HCX Analysis - Tissue Samples (wet weight)

SITE: Centredale Manor - N. Providence, RI
CASE NO. ELS Catfish Fry B1OF1 SDG No. 49038-51 TCDD/HCX
LABORATORY: BATTELLE

SAMPLE NUMBER:	Toxicity Equivalency Factors (1)	42828-13			42828-14		
STATION LOCATION:		42828-13			42828-14		
MATRIX:		TISSUE			TISSUE		
TCDD/TCDF CONC.:		ng/Kg		DL/EMPC	ng/Kg		DL/EMPC
2,3,7,8-TCDD	1.0		UJ	3.29		UJ	4.22
HCX - Hexachloroxanthene			UJ	91.33		UJ	85.81
TOXIC EQUIVALENT(1):		0.0	UJ		0.0	UJ	
PERCENT SOLIDS:		NA			NA		
PERCENT LIPIDS:		NA			NA		
DILUTION FACTOR:		1.0			1.0		
DATE SAMPLED:		08/14/01			08/14/01		
DATE OF RECEIPT:		09/05/01			09/05/01		
SAMPLE EXTRACTION DATE:		10/09/01			10/09/01		
ANALYSIS DATE:		10/18/01			10/18/01		
LAB SAMPLE ID:		49038-51-14			49038-51-15		

* = The values in this column are either the Detection Limits (DL) or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are marked with a "*". The DL values are unmarked. The EMPC values are not qualified with a "J", since they are already estimated.

(1) The Toxic Equivalent concentration is calculated with the Toxicity Equivalency Factors (TEFs) found in "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife", Environmental Health Perspectives, Volume 106, Number (12), December 1998, Table 2, page 780.

Concentrations reported by the laboratory below the lowest standard are flagged (J) on the Data Summary Table as estimated values. All other necessary qualifications are defined in Table I.

NA = Percent solids and percent lipids were not required for this batch of samples.

Steve Stodola
US EPA Approval Signature

April 22, 2002
Date

April 12, 2002
B-02-04-Y-5
Revised: April 18, 2002

Ms. Christine Clark
Regional Sample Control Custodian
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11 Technology Drive
North Chelmsford, MA 01863

Re: TO No. 04, Task No. 2, TDF No. 0432
Case No. ELS EGG B1OF2, SDG No. 49038-60 TCDD/HCX
Battelle Laboratories - Columbus, OH
Centredale Manor, North Providence, RI

TCDD/HCX: 20/Egg Tissue/42828-CONC-3A, 42828-CONC-3B, 42828-CONC-3C, 42828-CONC-6A, 42828-CONC-6B, 42828-CONC-6C, 42828-CONC-7A, 42828-CONC-7B, 42828-CONC-7C, 42828-CONC-9A, 42828-CONC-9B, 42828-CONC-9C, 42828-CONC-10A, 42828-CONC-10B, 42828-CONC-10C, 42828-CONC-12A, 42828-CONC-12B, 42828-CONC-14A, 42828-CONC-14B, 42828-CONC-14C

1/Fish Tissue SRM/CIL EDF 2526

Dear Ms. Clark:

A Tier III data validation was performed on the TCDD and HCX analytical data for 20 egg tissue samples. These samples were purchased from Osage Catfishieries of Missouri. The samples were analyzed according to EPA Method 1613B, September 15, 1997. The samples were validated using first the criteria in the Centredale Manor Tasks 19-22 QAPP (5/23/01) prepared by Battelle Duxbury Operations which include the criteria in EPA Method 1613B, September 15, 1997, defaulting next to Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, December 1996 criteria, and to EPA Region I's Environmental Services Assistance Team Dioxin Data Validation SOP ESAT-01-0007 (01/31/01). The criteria for HCX are documented in Battelle's December 7, 2001 letter to EPA. See the Supporting Documentation section. The data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
- Data Completeness (CSF Audit - Tier I)
- * Preservation and Technical Holding Times
- * PE Samples/Accuracy Check
- * Window Defining Mix
- * Initial and Continuing Calibrations

- Chromatographic Resolution
- * Instrument Sensitivity Check
- Blanks
- Matrix Spike/Matrix Spike Duplicate
- Laboratory Control Sample
- * Laboratory and Field Duplicates
- * Internal/Clean-up Standards
- * Sample Analysis and Identification
- Sample Quantitation
- * Estimated Detection Limits (EDL) and Estimated Maximum Possible Concentration (EMPC)
- 2378-TCDD Toxicity Equivalents (TE) and Isomer Specificity
- * Required Sample Reruns and Second Column Confirmation
- System Performance

* - All criteria were met for this parameter.

The following information was used to generate the Data Validation Memorandum attachments:

Table I: Recommendation Summary Table - summarizes validation recommendations

Table II: Overall Evaluation of Data - summarizes site objectives and potential usability issues

Data Summary Tables - summarize accepted, qualified, and rejected data

Overall Evaluation of Data and Potential Usability Issues

The following is a summary of the site investigation/assessment objectives as found in Centredale Manor Tasks 19-22 QAPP (5/23/01):

- To generate data of quality to be used for human health (HHRA) and ecological risk assessments (ERA).

One Cambridge Isotope Laboratories (CIL) Standard Reference Material (SRM) sample was evaluated for this SDG (CIL EDF 2526 for Dioxin/Furan congeners in fish tissue). The compound of interest for this project, 2378-TCDD, recovered within specified criterion of 30%D from the consensus value specified in the Centredale Manor Tasks 19-22 QAPP (5/23/01). The SRM sample did not contain hexachloroxanthene (HCX).

The method blanks exhibited low level contamination. This contamination problem does not have an impact on the usability of the data. Contaminants were found in both the blanks and the field samples. When the analyte concentrations in the field samples are less than the corresponding blank action level, the field sample results reported by the laboratory are qualified as non-detected (U) on the Data Summary Table. See Table I for a summary of the qualifiers applied due to blank contamination.

Data validation indicated minor data quality problems which do not significantly impact the usability of the data. See the discussion below for details. The reported results are usable for the site objectives.

Data Completeness (CSF Audit - Tier I)

The following data or information in the data package had discrepancies and/or were missing:

1. The laboratory was asked to submit the signed Chain-of-Custudy received from the sampler.

2. The laboratory was asked to submit the sample Log-in and Chain-of-Custody records from receipt of the sample at Battelle Columbus from Battelle MSL.

3. The laboratory was asked to submit the % solids for this batch of samples.

4. The laboratory was asked to reconcile the discrepancy between the Form I % lipids and the % lipid log and send the appropriate corrected forms.

Items 1 and 2 were requested via the TOPO on February 20, 2002. Items 3 and 4 were requested via the TOPO on March 21, 2002. Items 1 and 2 were received via the TOPO on March 11, 2002. Items 1 and 2 were received via the TOPO on April 16, 2002. All items were adequately addressed.

Chromatographic Resolution

The hexachloroxanthene (HCX) peaks exhibit poor chromatography, i.e., broad shape. The broad peak shape created irregularities in the response factors used to calculate the concentrations of HCX. Therefore, professional judgement was used to estimate (J,UJ) all HCX results due to the poor chromatography.

Blanks

All of the blanks associated with this SDG were evaluated for possible sources of contamination. The following tables list the highest concentration of contamination that was detected in the blanks. The table lists the action level/action and the sample affected:

Congener	Type of Blank	Blank Concentration ng/Kg	Action Level ng/Kg	Samples Affected
2378-TCDD	Method Blank (10/25/01)	0.46	2.3	42828-CONC-3A

Blank actions are based on Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, December 1996 and EPA Region I's Environmental Services Assistance Team Dioxin Data Validation SOP ESAT-01-0007 (01/31/01) criteria. Blank action levels are calculated as ten times the highest concentration of the contaminant determined in any blank for common contaminants (OCDD/OCDF and Total Homologues) and five times the highest concentration for all other analytes. The positive sample results that are less than the blank action level are reported as non-detects (U) at the reported concentration on

the Data Summary Table.

Matrix Spike/Matrix Spike Duplicate

One MS was evaluated for this SDG: 42828-CONC-3BMS.

The table below summarizes the tissue MS results which did not meet the recovery criteria of 50-120% and/or Relative Percent Difference (RPD) < 30% as documented in the Centredale Manor Tasks 19-22 QAPP (5/23/01).

42828-CONC-3BMS			
Congener	MS % Rec.	Action	
		Positive Detects	NDs
HCX	187	J	A

There were no positive results for HCX, no action is required.

Laboratory Control Sample

The laboratory extracted and analyzed one OPR/LCS with this group of samples. The following table summarizes the Ongoing Precision and Recovery (OPR) result which did not meet Centredale Manor Tasks 19-22 QAPP (5/23/01) recovery criteria and the resulting sample qualifications:

OPR Date	Compound	% Recovery	% Recovery Range	Action		Affected Samples
				Positive Detects	NDs	
10/24/01	HCX	133	50-120	J	A	None

There were no positive results for HCX, no action is required.

Sample Quantitation

Concentrations quantitated below the lowest calibration standard are flagged (J) on the Data Summary Tables. Quantitation is not accurate when the reported results are below the lowest calibration standard.

The detection limits reported for HCX correspond to the concentration in the lowest HCX calibration standard.

2378-TCDD Toxicity Equivalents (TE) and Isomer Specificity

All TE values reported on the Data Summary Tables have been calculated by the ESAT data

validator using the validated data discussed above in this report. As a result, the TE values in the Data Summary Table may differ from the values reported by the laboratory. The validated data accounts for blank contamination and any necessary dilutions. The TE calculations include the reported EMPC values. The Fish TEF values used by ESAT are the ones published in Environmental Health Perspectives, Volume 106, Number 12, December 1998, "Toxic Equivalency factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife."

System Performance

No trends were noted with the 2378-TCDD analysis. Analytical problems with the HCX analysis include poor chromatography and high MS and LCS recoveries.

Very truly yours,

LOCKHEED ENVIRONMENTAL

Janine Bartels
Principal Scientist

Louis Macri
ESAT Program Manager

cc: Cornell Rosiu, EPA RPM (DV Memorandum, Data Summary Table)

Attachments: Table I: Recommendation Summary Table
Table II: Overall Evaluation of Data
Data Summary Tables
Data Validation Worksheets
Analytical Method
PE Scores
Communication/Phone Logs
Field Sampling Notes

Table I
Recommendation Summary Table for TCDD/HCX
Centredale Manor Site
Case No.: ELS EGG B1OF2/SDG No. 49038-60 TCDD/HCX

Sample Nos.	42828-CONC-3A	42828-CONC-3B	42828-CONC-3C	42828-CONC-6A	42828-CONC-6B	42828-CONC-6C	42828-CONC-7A
Compound							
2378-TCDD	J[2]	A	A	A	A	A	A
HCX	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]

Sample Nos.	42828-CONC-7B	42828-CONC-7C	42828-CONC-9A	42828-CONC-9B	42828-CONC-9C	42828-CONC-10A	42828-CONC-10B
Compound							
2378-TCDD	A	A	A	A	A	A	A
HCX	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]

Sample Nos.	42828-CONC-10C	42828-CONC-12A	42828-CONC-12B	42828-CONC-14A	42828-CONC-14B	42828-CONC-14C
Compound						
2378-TCDD	A	A	A	A	A	A
HCX	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]

Table I
Recommendation Summary Table for TCDD/HCX

A	-	Accept results.
J^1	-	Poor chromatography; J detects, UJ non-detects.
J^2	-	Method blank contamination; positive sample results less than the blank action level are reported as non-detects (U) at the concentration reported.

EPA-NE - Data Validation Worksheet

Overall Evaluation of Data - Data Validation Memorandum - Table II

TCDD/HCX ANALYSIS					
DQO (list all DQOs)	Sampling and/or Analytical Method Appropriate Yes or No	Measurement Error		Sampling Variability	Potential Usability Issues
		Analytical Error	Sampling Error*		
The following is a summary of the site investigation/assessment objectives as found in Centredale Manor Tasks 19-22 QAPP (5/23/01): To generate data of quality to be used for human health (HHRA) and ecological risk assessments (ERA).	Yes, Sampling Method appropriate for all samples. Yes, Analytical Method appropriate for all samples.	Refer to qualification in R/S Key on Table I: J[1,2]	Refer to qualification in R/S Key on Table I: NA	**	One Cambridge Isotope Laboratories (CIL) Standard Reference Material (SRM) sample was evaluated for this SDG (CIL EDF 2526 for Dioxin/Furan congeners in fish tissue). The compound of interest for this project, 2378-TCDD, recovered within specified criterion of 30%D from the consensus value specified in the Centredale Manor Tasks 19-22 QAPP (5/23/01). The SRM sample did not contain hexachloroxanthene (HCX). The method blanks exhibited low level contamination. This contamination problem does not have an impact on the usability of the data. Contaminants were found in both the blanks and the field samples. When the analyte concentrations in the field samples are less than the corresponding blank action level, the field sample results reported by the laboratory are qualified as non-detected (U) on the Data Summary Table. See Table I for a summary of the qualifiers applied due to blank contamination. Data validation indicated minor data quality problems which do not significantly impact the usability of the data. See the data validation memorandum for details. The reported results are usable for the site objectives.

* The evaluation of "sampling error" cannot be completely assessed in the data validation.

** Sampling variability is not assessed in data validation.

Validator: [signature]

Date: 4/18/02

Data Summary Table
TCDD/HCX Analysis - ELS EGG Samples

SITE: Centredale Manor - N. Providence, RI
CASE NO. ELS EGG B1OF2 SDG No. 49038-60 TCDD/HCX
LABORATORY: BATTELLE

SAMPLE NUMBER:	Toxicity Equivalency Factors (1)	42828-CONC-3A			42828-CONC-3B			42828-CONC-3C			42828-CONC-6A			42828-CONC-6B			42828-CONC-6C		
STATION LOCATION:		42828-CONC-3A			42828-CONC-3B			42828-CONC-3C			42828-CONC-6A			42828-CONC-6B			42828-CONC-6C		
MATRIX:		TISSUE			TISSUE			TISSUE			TISSUE			TISSUE			TISSUE		
TCDD/TCDF CONC.:		ng/Kg		DL/EMPC	ng/Kg		DL/EMPC	ng/Kg		DL/EMPC	ng/Kg		DL/EMPC	ng/Kg		DL/EMPC	ng/Kg		DL/EMPC
2,3,7,8-TCDD	1.0		U	1.57	4.17	J		3.01	J		482.32			452.90			343.77		
HCX - Hexachloroxanthene			UJ	189.61		UJ	603.02		UJ	246.28		UJ	267.77		UJ	257.47		UJ	174.84
TOXIC EQUIVALENT(1):		0.0	U		4.2	J		3.0	J		480			450			340		
PERCENT SOLIDS:																			
PERCENT LIPIDS:		2.07			2.54			3.58			3.38			4.56			1.43		
DILUTION FACTOR:		1.0			1.0			1.0			1.0			1.0			1.0		
DATE SAMPLED:		07/14/01			07/14/01			07/14/01			07/14/01			07/14/01			07/14/01		
DATE OF RECEIPT:		07/16/01			07/16/01			07/16/01			07/16/01			07/16/01			07/16/01		
SAMPLE EXTRACTION DATE:		10/17/01			10/17/01			10/17/01			10/17/01			10/17/01			10/17/01		
ANALYSIS DATE:		10/26/01			10/26/01			10/26/01			10/25/01			10/26/01			10/26/01		
LAB SAMPLE ID:		49038-60-17			49038-60-18			49038-60-20			49038-60-11			49038-60-12			49038-60-13		

* = The values in this column are either the Detection Limits (DL) or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are marked with a "*". The DL values are unmarked.
The EMPC values are not qualified with a "J", since they are already estimated.
(1) The Toxic Equivalent concentration is calculated with the Toxicity Equivalency Factors (TEFs) found in "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife", Environmental Health Perspectives, Volume 106, Number (12), December 1998, Table 2, page 780.
Concentrations reported by the laboratory below the lowest standard are flagged (J) on the Data Summary Table as estimated values. All other necessary qualifications are defined in Table I.

04/22/2002 MON 11:38 FAX 010/013

Data Summary Table
TCDD/HCX Analysis - ELS EGG Samples

SITE: Centredale Manor - N. Providence, RI
CASE NO. ELS EGG B1DF2 SDG No. 49038-60 TCDD/HCX
LABORATORY: BATTELLE

SAMPLE NUMBER:	Toxicity Equivalency Factors (1)	42828-CONC-7A		42828-CONC-7B		42828-CONC-7C		42828-CONC-9A		42828-CONC-9B		42828-CONC-9C	
STATION LOCATION:		42828-CONC-7A		42828-CONC-7B		42828-CONC-7C		42828-CONC-9A		42828-CONC-9B		42828-CONC-9C	
MATRIX:		TISSUE		TISSUE		TISSUE		TISSUE		TISSUE		TISSUE	
TCDD/TCDF CONC.:		ng/Kg	DL/EMPC*	ng/Kg	DL/EMPC*	ng/Kg	DL/EMPC*	ng/Kg	DL/EMPC*	ng/Kg	DL/EMPC*	ng/Kg	DL/EMPC*
2,3,7,8-TCDD	1.0	91.47		84.68		123.46		535.43		619.65		889.99	
HCX - Hexachloroxanthene		UJ	226.17	UJ	188.80	UJ	248.73	UJ	226.17	UJ	211.93	UJ	258.60
TOXIC EQUIVALENT(1):		91		85		120		540		620		890	
PERCENT SOLIDS:													
PERCENT LIPIDS:		2.18		1.99		2.84		2.67		2.11		3.41	
DILUTION FACTOR:		1.0		1.0		1.0		1.0		1.0		1.0	
DATE SAMPLED:		07/14/01		07/14/01		07/14/01		07/14/01		07/14/01		07/14/01	
DATE OF RECEIPT:		07/16/01		07/16/01		07/16/01		07/16/01		07/16/01		07/16/01	
SAMPLE EXTRACTION DATE:		10/17/01		10/17/01		10/17/01		10/17/01		10/17/01		10/17/01	
ANALYSIS DATE:		10/25/01		10/25/01		10/25/01		10/26/01		10/26/01		10/26/01	
LAB SAMPLE ID:		49038-60-02		49038-60-03		49038-60-04		49038-60-14		49038-60-15		49038-60-16	

* = The values in this column are either the Detection Limits (DL) or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are marked with a "*". The DL values are unmarked.
The EMPC values are not qualified with a "J", since they are already estimated.
(1) The Toxic Equivalent concentration is calculated with the Toxicity Equivalency Factors (TEFs) found in "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife", Environmental Health Perspectives, Volume 106, Number (12), December 1998, Table 2, page 780.
Concentrations reported by the laboratory below the lowest standard are flagged (J) on the Data Summary Table as estimated values. All other necessary qualifications are defined in Table I.

Data Summary Table
TCDD/HCX Analysis - ELS EGG Samples

SITE: Centredale Manor - N. Providence, RI
CASE NO. ELS EGG B1OF2 SDG No. 49038-60 TCDD/HCX
LABORATORY: BATTELLE

SAMPLE NUMBER:	Toxicity	42828-CONC-10A		42828-CONC-10B		42828-CONC-10C		42828-CONC-12A		42828-CONC-12B		42828-CONC-14A	
STATION LOCATION:	Equivalency	42828-CONC-10A		42828-CONC-10B		42828-CONC-10C		42828-CONC-12A		42828-CONC-12B		42828-CONC-14A	
MATRIX:	Factors (1)	TISSUE		TISSUE		TISSUE		TISSUE		TISSUE		TISSUE	
TCDD/TCDF CONC.:		ng/Kg	DL/EMPC	ng/Kg	DL/EMPC	ng/Kg	DL/EMPC	ng/Kg	DL/EMPC	ng/Kg	DL/EMPC*	ng/Kg	DL/EMPC
2,3,7,8-TCDD	1.0	94.94		175.08		103.51		1132.91		611.32		311.88	
HCX - Hexachloroxanthene		UJ	183.50	UJ	260.38	UJ	232.61	UJ	240.88	UJ	3188.52	UJ	285.79
TOXIC EQUIVALENT(1):		95		180		100		1100		610		310	
PERCENT SOLIDS:													
PERCENT LIPIDS:		1.42		3.34		1.22		3.15		1.44		3.07	
DILUTION FACTOR:		1.0		1.0		1.0		4.0		1.0		1.0	
DATE SAMPLED:		07/14/01		07/14/01		07/14/01		07/14/01		07/14/01		07/14/01	
DATE OF RECEIPT:		07/16/01		07/16/01		07/16/01		07/16/01		07/16/01		07/16/01	
SAMPLE EXTRACTION DATE:		10/17/01		10/17/01		10/17/01		10/17/01		10/17/01		10/17/01	
ANALYSIS DATE:		10/25/01		10/25/01		10/25/01		10/27/01		10/27/01		10/25/01	
LAB SAMPLE ID:		49038-60-05		49038-60-06		49038-60-07		49038-60-21		49038-60-22		49038-60-08	

* = The values in this column are either the Detection Limits (DL) or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are marked with a "*". The DL values are unmarked.
The EMPC values are not qualified with a "J", since they are already estimated.
(1) The Toxic Equivalent concentration is calculated with the Toxicity Equivalency Factors (TEFs) found in "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife", Environmental Health Perspectives, Volume 106, Number (12), December 1998, Table 2, page 780.
Concentrations reported by the laboratory below the lowest standard are flagged (J) on the Data Summary Table as estimated values. All other necessary qualifications are defined in Table I.

04/22/2002 MON 11:38 FAX 012/013

Data Summary Table
TCDD/HCX Analysis - ELS EGG Samples

SITE: Centredale Manor - N. Providence, RI
CASE NO. ELS EGG B1OF2 SDG No. 49038-60 TCDD/HCX
LABORATORY: BATTELLE

SAMPLE NUMBER:	Toxicity Equivalency Factors (1)	42828-CONC-14B			42828-CONC-14C		
STATION LOCATION:		42828-CONC-14B			42828-CONC-14C		
MATRIX:		TISSUE			TISSUE		
TCDD/TCDF CONC.:		ng/Kg		DL/EMPC	ng/Kg		DL/EMPC
2,3,7,8-TCDD	1.0	137.33			188.89		
HCX - Hexachloroxanthene			UJ	182.18		UJ	231.19
TOXIC EQUIVALENT(1):		140			190		
PERCENT SOLIDS:							
PERCENT LIPIDS:		1.28			2.43		
DILUTION FACTOR:		1.0			1.0		
DATE SAMPLED:		07/14/01			07/14/01		
DATE OF RECEIPT:		07/16/01			07/16/01		
SAMPLE EXTRACTION DATE:		10/17/01			10/17/01		
ANALYSIS DATE:		10/25/01			10/25/01		
LAB SAMPLE ID:		49038-60-09			49038-60-10		

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(1) The Toxic Equivalent concentration is calculated with the Toxicity Equivalency Factors (TEFs) found in "Toxic Equivalency Factors (TEFs) for *PCBs, PCDDs, PCDFs for Humans and Wildlife*", *Environmental Health Perspectives, Volume 106, Number (12), December 1998, Table 2, page 780.*

Concentrations reported by the laboratory below the lowest standard are flagged (J) on the Data Summary Table as estimated values. All other necessary qualifications are defined in Table I.

Steve Stodola
US EPA Approval Signature

5/2/02
Date

April 22, 2002
L-02-04-Z-11
Revised: May 2, 2002

Ms. Christine Clark
Regional Sample Control Custodian
Office of Environmental Measurement and Evaluation
U.S. EPA Region I
11 Technology Drive
North Chelmsford, Massachusetts 01863

Re: Task Order No. 010, Task No. 2, TDF No. 0433
Case No. ELS Egg B2OF2, SDG No. 49038-71 TCDD/HCX
Battelle Laboratories - Columbus, OH
Centredale Manor Site - North Providence, RI

TCDD/HCX: 19/Egg Tissue/42828- CONC-1A, 42828- CONC-1B, 42828- CONC-1C, 42828- CONC-2A, 42828- CONC-2B, 42828- CONC-2C, 42828- CONC-4A, 42828- CONC-4B, 42828- CONC-4C, 42828- CONC-5A, 42828- CONC-5B, 42828- CONC-5C, 42828- CONC-8A, 42828- CONC-8B, 42828- CONC-8C, 42828- CONC-11A, 42828- CONC-11B, 42828- CONC-11C, 42828-CONC-12C

1/Fish Tissue SRM/CIL EDF 2526

Dear Ms. Clark:

A Tier III data validation was performed on the TCDD and HCX analytical data for 19 egg tissue samples. These samples were purchased from Osage Catfisheries of Missouri. The samples were analyzed according to EPA Method 1613B, September 15, 1997. The samples were validated using first the criteria in the Centredale Manor Tasks 19-22 QAPP (5/23/01) prepared by Battelle Duxbury Operations which include the criteria in EPA Method 1613B, September 15, 1997, defaulting next to Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, December 1996 criteria, and finally to EPA Region I's Environmental Services Assistance Team Dioxin Data Validation SOP ESAT-01-0007 (01/31/01). The criteria for HCX are documented in Battelle's December 7, 2001 letter to EPA. See the Supporting Documentation Section. The data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
- Data Completeness (CSF Audit - Tier I)
- * Preservation and Technical Holding Times
- * PE Samples/Accuracy Check
- * Window Defining Mix
- * Initial and Continuing Calibrations
- Chromatographic Resolution

*	•	Instrument Sensitivity Check
*	•	Blanks
	•	Matrix Spike/Matrix Spike Duplicate
	•	Laboratory Control Sample/Laboratory Control Sample Duplicate
*	•	Laboratory and Field Duplicates
	•	Internal/Clean up Standards
*	•	Sample Analysis and Identification
	•	Sample Quantitation
*	•	Estimated Detection Limits (EDL) and Estimated Maximum Possible Concentration (EMPC)
	•	2378-TCDD Toxicity Equivalents (TE) and Isomer Specifity
*	•	Required Sample Reruns and Second Column Confirmation
	•	System Performance

* - All criteria were met for this parameter.

The following information was used to generate the Data Validation Memorandum attachments:

Table I: Recommendation Summary Table - summarizes validation recommendations

Table II: Overall Evaluation of Data - summarizes site objectives and potential usability issues

Data Summary Tables - summarize accepted, qualified, and rejected data

Overall Evaluation of Data and Potential Usability Issues

The following is a summary of the site investigation/assessment objectives as found in Centredale Manor Tasks 19-22 QAPP (5/23/01):

- To generate data of quality sufficient to be used for human health (HHRA) and ecological risk assessments (ERA) at the site.

One Cambridge Isotope Laboratories (CIL) Standard Reference Material (SRM) sample was evaluated for this SDG (CIL EDF 2526 for Dioxin/Furan congeners in fish tissue). The compound of interest for this project, 2378-TCDD, was recovered within the specified criterion of 30%D from the consensus value as specified in the Centredale Manor Tasks 19-22 QAPP (5/23/01). The SRM sample did not contain hexachloroxanthene (HCX).

Data validation indicated minor data quality problems which do not significantly impact the usability of the data. See the discussion below for details. The reported results are usable for the site objectives.

Data Completeness (CSF Audit - Tier I)

The following data or information in the data package had discrepancies and/or was missing:

1. The laboratory was asked to submit the Chain-of-Custody records completed by the sampler and received with this batch of samples.

2. The data validator could not duplicate percent recovery of 2378-TCDD in the matrix spike reported on page 1391. The laboratory was asked to recheck the calculations, resubmit corrected form and/or provide an example of calculation for that result.

3. The laboratory did not report the positive result for HCX for sample number 42828-CONC-1C on page 1387. According to the raw data (page 1136), HCX was found at a concentration of 256.627 pg/g (wet) in that sample. The laboratory was asked to resubmit the Form I with corrected HCX result.

4. The laboratory was asked to provide % solids for this batch of samples.

5. The laboratory was asked to clarify "collection date" for this batch of samples.

The above items were requested via the TOPO on February 20, 2002 (items 1 through 3) and on March 20, 2002 (items 4 and 5). The responses were received via the TOPO on March 13, 2002 and on April 16, 2002. All items were adequately addressed.

Chromatographic Resolution

The hexachloroxanthene (HCX) peaks exhibit poor chromatography, i.e., broad peak shape. The broad peak shape created irregularities in the response factors used to calculate the concentrations of HCX. Therefore, professional judgement was used to estimate (J, UJ) all HCX results due to poor chromatography.

Matrix Spike/Matrix Spike Duplicate

One Matrix Spike (MS) sample was evaluated for this SDG: 42828-CONC-1BMS.

The table below summarizes the tissue MS result which did not meet the recovery criterion of 50-120% as documented in the Centredale Manor Tasks 19-22 QAPP (5/23/01).

42828-CONC-1B			
Compound	MS % Rec.	Action	
		Positive Detects	NDs
HCX	139	J	No Action Required

Professional judgement was used to estimate (J) positive results for HCX due to high percent

recovery of HCX in the matrix spike. The HCX positive results in the samples might be biased high.

Laboratory Control Sample

The laboratory extracted and analyzed one OPR/LCS with this group of samples. The following table summarizes the Ongoing Precision and recovery (OPR) result which did not meet Centredale Manor Tasks 19-22 QAPP (5/23/01) recovery criterion and the resulting sample qualifications:

OPR Date	Compound	% Recovery	% Recovery Range	Action	
				Positive Detects	NDs
10/29/01	HCX	127	50-120	J	No Action Required

Professional judgement was used to estimate (J) HCX positive results due to high HCX recovery in the LCS. The HCX positive results in the samples might be biased high.

Internal/Clean-Up Standards

- Internal Standards

The following table summarizes the internal standards with recoveries which did not meet the the recovery criterion of 25-150% as documented in the Centredale Manor Tasks 19-22 QAPP (5/23/01).

Internal Standards	%Recovery	Action		Affected Samples
		Positive Detects	NDs	
$^{13}C_{12}$-2378-TCDD	15	J	UJ	42828-CONC-4B
$^{13}C_{12}$-123789-HxCDF	11	J	UJ	42828-CONC-4B

The corresponding non-labeled congener (TCDD) and HCX were estimated as shown in the table due to internal standard % recoveries outside the method acceptance criterion. The $^{13}C_{12}$-123789-HxCDF internal standard is used to quantitate the HCX.

- Clean-Up Standards

The following table summarizes the clean-up standard with recovery which did not meet the the recovery criterion of 25-150% as documented in the Centredale Manor Tasks 19-22 QAPP (5/23/01).

Clean-Up Standard	%Recovery	Action		Affected Samples
		Positive Detects	NDs	
$^{37}Cl_4$-2378-TCDD	14	J	UJ	42828-CONC-4B

The corresponding non-labeled congener (TCDD) and HCX were estimated as shown in the table since the clean-up standard % recovery was outside the method acceptance criterion.

Sample Quantitation

Concentrations quantitated and reported by the laboratory below the lowest calibration standard are flagged (J) on the Data Summary Table. Quantitation is not accurate when the reported results are below the lowest calibration standard.

2378-TCDD Toxicity Equivalents (TE) and Isomer Specificity

All TE values reported on the Data Summary Tables have been calculated by the ESAT data validator using the validated data discussed above in this report. However, for this batch of samples, the TE values in the Data Summary Table do not differ from the values reported by the laboratory (slight differences are caused by rounding procedures). The Fish TEF values used by ESAT are the ones published in Environmental Health Perspectives, Volume 106, Number 12, December 1998. "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife."

System Performance

No trends were noted with the analysis for 2378-TCDD. However, the results for HCX indicated analytical problems. The problems included: poor chromatography, high LCS and matrix spike recoveries.

April 22, 2002
L-02-04-Z-11
Revised: May 2, 2002

Very truly yours,

LOCKHEED ENVIRONMENTAL

Maria E. Baca
Senior Scientist

Louis Macri
ESAT Program Manager

cc: Cornell Rosiu, EPA RPM (DV Memorandum, Data Summary Table)

Attachments: Table I: Recommendation Summary Table
Table II: Overall Evaluation of Data
Data Summary Tables
Data Validation Worksheets
Analytical Method
PES Score Reports
Communications
Field Notes

Table I
Recommendation Summary Table for TCDD/HCX
Centredale Manor Site - North Providence, RI Site
Case No. ELS Egg B2OF2, SDG No. 49038-71 TCDD/HCX

Sample Nos.	42828-CONC-1A	42828-CONC-1B	42828-CONC-1C	42828-CONC-2A	42828-CONC-2B	42828-CONC-2C	42828-CONC-4A
Compound							
2378-TCDD	A	A	A	A	A	A	A
HCX	J[1,2,3]	J[1,2,3]	J[1,2,3]	J[1,2,3]	J[1,2,3]	J[1,2,3]	J[1,2,3]

Sample Nos.	42828-CONC-4B	42828-CONC-4C	42828-CONC-5A	42828-CONC-5B	42828-CONC-5C	42828-CONC-8A	42828-CONC-8B
Compound							
2378-TCDD	J[4,5]	A	A	A	A	A	A
HCX	J[1,4,5]	J[1,2,3]	J[1,2,3]	J[1,2,3]	J[1,2,3]	J[1]	J[1]

Sample Nos.	42828-CONC-8C	42828-CONC-11A	42828-CONC-11B	42828-CONC-11C	42828-CONC-12C
Compound					
2378-TCDD	A	A	A	A	A
HCX	J[1]	J[1]	J[1,2,3]	J[1,2,3]	J[1]

Table I
Recommendation Summary Table for TCDD/HCX

A	-	Accept results.
J^1	-	Poor chromatography; J detects, UJ non-detects.
J^2	-	MS high percent recovery; J detects.
J^3	-	OPR/LCS recovery high; J detects.
J^4	-	Internal standard % recovery outside criterion; J detects, UJ non-detects.
J^5	-	Clean-up standard % recovery outside criterion; J detects, UJ non-detects.

EPA-NE - Data Validation Worksheet

Overall Evaluation of Data - Data Validation Memorandum - Table II

TCDD/HCX ANALYSIS					
DQO (List all DQOs)	Sampling and/or Analytical Method Appropriate Yes or No	Measurement Error		Sampling Variability	Potential Usability Issues
		Analytical Error	Sampling Error*		
To generate data of quality sufficient to be used for human health (HHRA) and ecological risk assessments (ERA) at the site.	Nos, Sampling Method not appropriate for all samples. Yes, Analytical Method appropriate for all samples.	Refer to qualification in R/S Key on Table I: J12,1A,3	Refer to qualification in R/S Key on Table I: N/A	**	One Cambridge Isotope Laboratories (CIL) Standard Reference Material (SRM) sample was evaluated for this SDG (CIL EDF 2526 for Dioxin/Furan congeners in fish tissue). The compound of interest for this project, 2378-TCDD, recovered within specified criterion of 30%D from the consensus value as specified in the Centredale Manor Tasks 19-22 QAPP (5/23/01). Data validation indicated minor data quality problems which do not significantly impact the usability of the data. See the discussion in the data validation memorandum for details. The reported results are usable for the site objectives.

* The evaluation of "sampling error" cannot be completely assessed in the data validation.

** Sampling variability is not assessed in data validation.

Validator: M. Bass

Date: 5/2/02

SITE: Centredale Manor - N. Providence, RI
CASE NO. ELS Egg B2OF2 SDG No. 49038-71 TCDD/HCX
LABORATORY: BATTELLE

SAMPLE NUMBER:	Toxicity Equivalency Factors (1)	42828-CONC-1A		42828-CONC-1B		42828-CONC-1C		42828-CONC-2A		42828-CONC-2B		42828-CONC-2C	
STATION LOCATION:		42828-CONC-1A		42828-CONC-1B		42828-CONC-1C		42828-CONC-2A		42828-CONC-2B		42828-CONC-2C	
MATRIX:		TISSUE		TISSUE		TISSUE		TISSUE		TISSUE		TISSUE	
TCDD/TCDF CONC.:		ng/Kg	DL/EMPC	ng/Kg	DL/EMPC	ng/Kg	DL/EMPC	ng/Kg	DL/EMPC	ng/Kg	DL/EMPC	ng/Kg	DL/EMPC
2,3,7,8-TCDD	1.0	346.79		369.72		496.73		736.14		599.84		1254.24	
HCX - Hexachloroxanthene		86.13 J		312.03 J		258.63 J		207.13 J		171.21 J		365.79 J	
TOXIC EQUIVALENT(1):		350 J		370 J		500 J		740 J		600 J		1200 J	
PERCENT SOLIDS:		NA		NA		NA		NA		NA		NA	
PERCENT LIPIDS:		3.37		3.67		3.48		1.99		1.92		3.72	
DILUTION FACTOR:		1.0		4.0		1.0		1.0		1.0		1.0	
DATE SAMPLED:		07/14/01		07/14/01		07/14/01		07/14/01		07/14/01		07/14/01	
DATE OF RECEIPT:		07/17/01		07/17/01		07/17/01		07/17/01		07/17/01		07/17/01	
SAMPLE EXTRACTION DATE:		10/29/01		10/29/01		10/29/01		10/29/01		10/29/01		10/29/01	
ANALYSIS DATE:		11/08/01		11/08/01		11/08/01		11/08/01		11/07/01		11/08/01	
LAB SAMPLE ID:		49038-71-19		49038-71-20		49038-71-22		49038-71-15		49038-71-16		49038-71-17	

* = The values in this column are either the Detection Limits (DL) or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are marked with a "*". The DL values are unmarked.
The EMPC values are not qualified with a "J", since they are already estimated.
(1) The Toxic Equivalent concentration is calculated with the Toxicity Equivalency Factors (TEFs) found in "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife", Environmental Health Perspectives, Volume 106, Number (12), December 1998, Table 2, page 780.
Concentrations reported by the laboratory below the lowest standard are flagged (J) on the Data Summary Table as estimated values. All other necessary qualifications are defined in Table 1.
NA = Percent solids was not required for this batch of samples.

TCDD/HCX Analysis - Egg Tissue Samples (wet weight)

SITE: Centredale Manor - N. Providence, RI
CASE NO. ELS Egg B2OF2 SDG No. 4938-71 TCDD/HCX
LABORATORY: BATTELLE

SAMPLE NUMBER:	Toxicity Equivalency Factors (i)	42828-CONC-4A		42828-CONC-4B		42828-CONC-4C		42828-CONC-5A		42828-CONC-5B		42828-CONC-5C	
STATION LOCATION:		42828-CONC-4A		42828-CONC-4B		42828-CONC-4C		42828-CONC-5A		42828-CONC-5B		42828-CONC-5C	
MATRIX:		TISSUE		TISSUE		TISSUE		TISSUE		TISSUE		TISSUE	
TCDD/TCDF CONC.:		ng/Kg	DL/EMPC	ng/Kg	DL/EMPC*	ng/Kg	DL/EMPC*	ng/Kg	DL/EMPC	ng/Kg	DL/EMPC	ng/Kg	DL/EMPC
2,3,7,8-TCDD	1.0	96.46		66.51 J		87.64		189.79		327.01		249.72	
HCX - Hexachloroxanthene		42.75 J		UJ	164.08	UJ	191.22	124.35 J		102.08 J		106.52 J	
TOXIC EQUIVALENT(1):		96 J		66 J		88 J		190 J		330 J		250 J	
PERCENT SOLIDS:		NA		NA		NA		NA		NA		NA	
PERCENT LIPIDS:		2.90		1.40		2.23		2.99		3.62		2.52	
DILUTION FACTOR:		1.0		1.0		1.0		1.0		1.0		1.0	
DATE SAMPLED:		07/14/01		07/14/01		07/14/01		07/14/01		07/14/01		07/14/01	
DATE OF RECEIPT:		07/17/01		07/17/01		07/17/01		07/17/01		07/17/01		07/17/01	
SAMPLE EXTRACTION DATE:		10/29/01		10/29/01		10/29/01		10/29/01		10/29/01		10/29/01	
ANALYSIS DATE:		11/07/01		11/07/01		11/08/01		11/07/01		11/07/01		11/07/01	
LAB SAMPLE ID:		49038-71-12		49038-71-13		49038-71-14		49038-71-09		49038-71-10		49038-71-11	

* = The values in this column are either the Detection Limits (DL) or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are marked with a "*". The DL values are unmarked.
The EMPC values are not qualified with a "J", since they are already estimated.
(1) The Toxic Equivalent concentration is calculated with the Toxicity Equivalency Factors (TEFs) found in "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife", Environmental Health Perspectives, Volume 106, Number (12), December 1998, Table 2, page 780.
Concentrations reported by the laboratory below the lowest standard are flagged (J) on the Data Summary Table as estimated values. All other necessary qualifications are defined in Table I.
NA = Percent solids was not required for this batch of samples.

SITE: Centredale Manor - N. Providence, RI
CASE NO. ELS Egg B2OF2 SDG No. 49038-71 TCDD/HCX
LABORATORY: BATTELLE

SAMPLE NUMBER:	Toxicity Equivalency Factors (1)	42828-CONC-8A			42828-CONC-8B			42828-CONC-8C			42828-CONC-11A			42828-CONC-11B			42828-CONC-11C		
STATION LOCATION:		42828-CONC-8A			42828-CONC-8B			42828-CONC-8C			42828-CONC-11A			42828-CONC-11B			42828-CONC-11C		
MATRIX:		TISSUE			TISSUE			TISSUE			TISSUE			TISSUE			TISSUE		
TCDD/TCDF CONC.:		ng/Kg		DL/EMPC	ng/Kg		DL/EMPC*	ng/Kg		DL/EMPC*	ng/Kg		DL/EMPC	ng/Kg		DL/EMPC	ng/Kg		DL/EMPC
2,3,7,8-TCDD	1.0	95.24			168.97			174.67			743.90			809.00			573.69		
HCX - Hexachloroxanthene			UJ	200.22		UJ	247.01		UJ	195.98		UJ	188.80	309.15	J		186.94	J	
TOXIC EQUIVALENT(1):		95	J		170	J		170	J		740	J		810	J		570	J	
PERCENT SOLIDS:		NA						NA			NA			NA			NA		
PERCENT LIPIDS:		2.25			3.54			2.72			2.76			3.04			3.73		
DILUTION FACTOR:		1.0			1.0			1.0			1.0			1.0			1.0		
DATE SAMPLED:		07/14/01			07/14/01			07/14/01			07/14/01			07/14/01			07/14/01		
DATE OF RECEIPT:		07/17/01			07/17/01			07/17/01			07/17/01			07/17/01			07/17/01		
SAMPLE EXTRACTION DATE:		10/29/01			10/29/01			10/29/01			10/29/01			10/29/01			10/29/01		
ANALYSIS DATE:		11/06/01			11/06/01			11/06/01			11/06/01			11/06/01			11/06/01		
LAB SAMPLE ID:		49038-71-05			49038-71-07			49038-71-08			49038-71-03			49038-71-04			49038-71-05		

* = The values in this column are either the Detection Limits (DL) or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are marked with a "*". The DL values are unmarked.
The EMPC values are not qualified with a "J", since they are already estimated.
(1) The Toxic Equivalent concentration is calculated with the Toxicity Equivalency Factors (TEFs) found in "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife", Environmental Health Perspectives, Volume 106, Number (12), December 1998, Table 2, page 780.
Concentrations reported by the laboratory below the lowest standard are flagged (J) on the Data Summary Table as estimated values. All other necessary qualifications are defined in Table I.
NA = Percent solids was not required for this batch of samples.

05/06/2002 MON 14:36 FAX 010/014

SITE: Centredale Manor - N. Providence, RI
CASE NO. ELS Egg B2OF2 SDG No. 49038-71 TCDD/HCX
LABORATORY: BATTELLE

SAMPLE NUMBER:	Toxicity Equivalency Factors (1)	42828-CONC-12C		
STATION LOCATION:		42828-CONC-12C		
MATRIX:		TISSUE		
TCDD/TCDF CONC.:		ng/Kg		DL/EMPC
2,3,7,8-TCDD	1.0	959.54		
HCX - Hexachloroxanthene			UJ	253.90
TOXIC EQUIVALENT(1):		960	J	
PERCENT SOLIDS:		NA		
PERCENT LIPIDS:		3.26		
DILUTION FACTOR:		1.0		
DATE SAMPLED:		07/14/01		
DATE OF RECEIPT:		07/17/01		
SAMPLE EXTRACTION DATE:		10/29/01		
ANALYSIS DATE:		11/06/01		
LAB SAMPLE ID:		49038-71-02		

* = The values in this column are either the Detection Limits (DL) or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are marked with a "*". The DL values are unmarked.
The EMPC values are not qualified with a "J", since they are already estimated.
(1) The Toxic Equivalent concentration is calculated with the Toxicity Equivalency Factors (TEFs) found in "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife", Environmental Health Perspectives, Volume 106, Number (12), December 1998, Table 2, page 780.
Concentrations reported by the laboratory below the lowest standard are flagged (J) on the Data Summary Table as estimated values. All other necessary qualifications are defined in Table I.
NA = Percent solids was not required for this batch of samples.

05/06/2002 MON 14:36 FAX
P014/014

Steve Stodola
US EPA Approval Signature

8-2-02
Date
August 2, 2002
B-02-08-Y-3

Ms. Christine Clark
Regional Sample Control Custodian
Office of Environmental Measurement and Evaluation
U.S. EPA Region I
11 Technology Drive
North Chelmsford, MA 01863

Re: TO No. 010, Task No. 2, TDF No. 0461
Case No. ELS Egg B1OF2, SDG No. 49038-60 PCB
Battelle Laboratories - Columbus, OH
Centredale Manor, North Providence, RI

WHO PCB Congeners: 20/Egg Tissue/42828-CONC-3-A, 42828-CONC-3-B, 42828-CONC-3-C, 42828-CONC-6-A, 42828-CONC-6-B, 42828-CONC-6-C, 42828-CONC-7-A, 42828-CONC-7-B, 42828-CONC-7-C, 42828-CONC-9-A, 42828-CONC-9-B, 42828-CONC-9-C, 42828-CONC-10-A, 42828-CONC-10-B, 42828-CONC-10-C, 42828-CONC-12-A, 42828-CONC-12-B, 42828-CONC-14-A, 42828-CONC-14-B, 42828-CONC-14-C

1/Fish Tissue SRM/CIL EDF 2526

Dear Ms. Clark:

A Tier III data validation was performed on the WHO PCB congeners analytical data for 20 egg tissue samples. These samples were purchased from Osage Catfisheries of Missouri. The samples were analyzed according to EPA Method 1668A, December 1999, as outlined in the Centredale Manor Tasks 19-22 QAPP (5/23/01). The samples were validated using first the criteria in the Centredale Manor Tasks 19-22 QAPP (5/23/01) prepared by Battelle Duxbury Operations which include the criteria in EPA Method 1668A, December 1999, defaulting next to Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, December 1996 criteria, and to EPA Region I's Environmental Services Assistance Team PCB Congener Data Validation ESAT-01-0008 Draft (8/31/01). The data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
- Data Completeness (CSF Audit - Tier I)

*	•	Preservation and Technical Holding Times
	•	PE Samples/Accuracy Check
*	•	Window Defining Mix
*	•	Initial and Continuing Calibrations
	•	Chromatographic Resolution
*	•	Instrument Sensitivity Check
	•	Blanks
*	•	Matrix Spike/Matrix Spike Duplicate
*	•	Laboratory Control Sample
*	•	Laboratory and Field Duplicates
*	•	Internal/Clean-up Standards
*	•	Sample Analysis and Identification
	•	Sample Quantitation
*	•	Estimated Detection Limits (EDL) and Estimated Maximum Possible Concentration (EMPC)
	•	2378-TCDD Toxicity Equivalents (TE) and Isomer Specificity
*	•	Required Sample Reruns and Second Column Confirmation
	•	System Performance

* - All criteria were met for this parameter.

The following information was used to generate the Data Validation Memorandum attachments:

Table I: Recommendation Summary Table - summarizes validation recommendations

Table II: Overall Evaluation of Data - summarizes site objectives and potential usability issues

Data Summary Tables - summarize accepted, qualified, and rejected data

Overall Evaluation of Data and Potential Usability Issues

The following is a summary of the site investigation/assessment objectives as found in Centredale Manor Tasks 19-22 QAPP (5/23/01):

- To generate data of quality sufficient to be used for human health (HHRA) and ecological risk assessments (ERA) at the site.

One Cambridge Isotope Laboratories (CIL) Standard Reference Material (SRM) sample was evaluated for this SDG (CIL EDF 2526 for PCB congeners in fish tissue). PCB-118 congener was outside the Centredale Manor Tasks 19-22 QAPP (5/23/01) specified criterion of 30 %D from the consensus value. PCB-118 was recovered high. The positive results for the PCB-118 congener in all samples were estimated (J) due to the possibility of biased high results.

The method blanks had low level contamination. This contamination problem does not have an impact on the usability of the data. Contaminants were found in the method blank and the field samples. When the analyte concentrations in the field samples were less than the corresponding blank action level, the field sample results reported by the laboratory are qualified as non-detected (U) on the Data Summary Table. See Table I for a summary of the qualifiers applied due to blank contamination.

Data validation indicated minor data quality problems which do not significantly impact the usability of the data. See the discussion below for details. The reported results are usable for the site objectives.

Data Completeness (CSF Audit - Tier I)

The following data or information in the data package had discrepancies and/or were missing:

1. The laboratory was asked to submit duplicate precision spreadsheets with the RPDs reported.

Item 1 was requested via the TOPO on July 10, 2002. Item 1 was received via the TOPO on July 26, 2002. Item 1 was adequately addressed.

PE Samples/Accuracy Check

One Cambridge Isotope Laboratories (CIL) Standard Reference Material (SRM) sample was evaluated for this SDG (CIL EDF 2526 for PCB congeners in fish tissue). PCB-118 congener was outside the Centredale Manor Tasks 19-22 QAPP (5/23/01) specified criterion of 30 %D from the consensus value.

The following table summarizes the SRM sample (49038-60-24 FISH SRM) results which did not meet the criterion and the resulting sample qualifications:

PE Sample Number	Congener	%D from consensus value	Action	
			Positive Detects	NDs
CIL EDF 2526	PCB-118	54	J	A

Professional judgement was used to estimate (J) all the positive results for PCB-118 since the congener was recovered high indicating the possibility of biased high results.

Chromatographic Resolution

Five PCB congeners coeluted on the SPB-Octyl gas chromatography column used for this project. This situation was documented in the Centredale Manor Tasks 19-22 QAPP (5/23/01). The laboratory reported the total concentration for the coeluting PCBs. These total concentrations are reported on the Data Summary Table. Three of the "toxic congeners" with TEF values coeluted: PCB-123, PCB-156, and PCB-157.

Coeluting Congeners	Reported as on the Data Summary Table:
PCB-106, PCB-107, PCB-123	PCB-106/PCB-107/2'344'5-PentaCB (#123)
PCB-156, PCB-157	233'44'5-HexaCB (#156)/233'44'5'-HexaCB (#157)

Blanks

The method blank associated with this SDG was evaluated for possible sources of contamination. The following table lists the highest concentration of contamination that was detected in the blank. The table lists the action levels and the samples affected:

Congener	Type of Blank (Analysis Date)	Blank Concentration ng/Kg (0.5g sample)	Action Level ng/Kg (0.5g sample)	Samples Affected (42828-)
PCB-81	Method Blank (12/5/01)	17.8	89	CONC-3-A, CONC-3-C, CONC-6-A, CONC-6-B, CONC-7-A, CONC-7-C, CONC-9-A, CONC-9-C, CONC-10-A, CONC-10-C, CONC-12-A, CONC-12-B, CONC-14-B, CONC-14-C
PCB-77	Method Blank (12/5/01)	37.2	190	CONC-3-A, CONC-3-B, CONC-3-C
PCB-106/PCB-107/PCB-123	Method Blank (12/5/01)	19.5	98	CONC-3-A, CONC-3-B, CONC-3-C, CONC-6-A, CONC-6-B, CONC-6-C, CONC-7-A, CONC-7-B, CONC-7-C, CONC-9-A, CONC-9-B, CONC-9-C, CONC-10-B, CONC-10-C, CONC-12-A, CONC-12-B, CONC-14-A, CONC-14-B, CONC-14-C
PCB-118	Method Blank (12/6/01)	717	3600	All
PCB-114	Method Blank (12/6/01)	22.2	110	All
PCB-105	Method Blank (12/5/01)	312	1600	All
PCB-126	Method Blank (12/5/01)	17.1	85	CONC-3-A, CONC-3-B, CONC-3-C
PCB-167	Method Blank (12/5/01)	31.9	160	All
PCB-156/PCB-157	Method Blank (12/5/01)	79.5	400	All

Congener	Type of Blank	Blank Concentration ng/Kg (0.5g sample)	Action Level ng/Kg (0.5g sample)	Samples Affected (42828-)
PCB-169	Method Blank (12/5/01)	12.9	64	CONC-3-A, CONC-3-B, CONC-3-C, CONC-6-A, CONC-6-B, CONC-6-C, CONC-7-A, CONC-7-B, CONC-7-C, CONC-9-A, CONC-9-B, CONC-9-C, CONC-10-A, CONC-10-C, CONC-12-B, CONC-14-A, CONC-14-C
PCB-189	Method Blank (12/5/01)	7.97	40	CONC-3-A, CONC-3-B, CONC-3-C, CONC-6-A, CONC-6-B, CONC-6-C, CONC-7-B, CONC-9-A, CONC-9-B, CONC-9-C, CONC-10-A, CONC-10-B, CONC-10-C, CONC-12-A, CONC-12-B, CONC-14-B, CONC-14-C

Blank actions are based on Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, December 1996 and EPA Region I's Environmental Services Assistance Team PCB Congener Data Validation ESAT-01-0008 Draft (8/31/01) criteria. Blank action levels are calculated as five times the highest concentration of the contaminant determined in any blank. The positive sample results that are less than the blank action level are reported as non-detects (U) at the reported concentration on the Data Summary Table.

Sample Quantitation

Concentrations quantitated below the lowest calibration standard are flagged (J) on the Data Summary Tables. Quantitation is not accurate when the reported results are below the lowest calibration standard.

2378-TCDD Toxicity Equivalents (TE) and Isomer Specificity

All TE values reported on the Data Summary Tables have been calculated by the ESAT data validator using the validated data discussed above in this report. The validated data accounts for blank contamination. The fish TEF values for the PCBs are published in "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife", Environmental Health Perspectives, Volume 106, Number 12, December 1998, Table 2, page 780.

System Performance

No trends noted.

Very truly yours,

LOCKHEED ENVIRONMENTAL

Janine Bartels
Principal Scientist

Louis Macri
ESAT Program Manager

cc: Cornell Rosiu, EPA Project Manager (DV Memorandum, Data Summary Table)

Attachments: Table I: Recommendation Summary Table
Table II: Overall Evaluation of Data
Data Summary Tables
Data Validation Worksheets
Analytical Method
PE Scores
Communication/Phone Logs
Field Sampling Notes

Table I
Recommendation Summary Table for WHO PCB Congeners
Centredale Manor Site
Case No.: ELS EGG B1OF2/SDG No. 49038-60 PCB

Sample Nos.	42828-CONC-3-A	42828-CONC-3-B	42828-CONC-3-C	42828-CONC-6-A	42828-CONC-6-B	42828-CONC-6-C	42828-CONC-7-A	42828-CONC-7-B	42828-CONC-7-C	42828-CONC-9-A
Compound										
344'5-TetraCB (#81)	J[2]	A	J[2]	J[2]	J[2]	A	J[2]	A	J[2]	J[2]
33'44'-TetraCB (#77)	J[2]	J[2]	J[2]	A	A	A	A	A	A	A
PCB-106/PCB-107/2'344'5-PentaCB (#123)	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]
23'44'5-PentaCB (#118)	J[1,2]	J[1,2]	J[1,2]	J[1,2]	J[1,2]	J[1,2]	J[1,2]	J[1,2]	J[1,2]	J[1,2]
2344'5-PentaCB (#114)	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]
233'44'-PentaCB (#105)	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]
33'44'5-PentaCB (#126)	J[2]	J[2]	J[2]	A	A	A	A	A	A	A
23'44'55'-HexaCB (#167)	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]
233'44'5-HexaCB (#156)/233'44'5'-HexaCB (#157)	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]
33'44'55'-HexaCB (#169)	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]
233'44'55'-HeptaCB (#189)	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	A	J[2]	A	J[2]

Table I
Recommendation Summary Table for WHO PCB Congeners
Centredale Manor Site
Case No.: ELS EGG B1OF2/SDG No. 49038-60 PCB

Sample Nos.	42828-CONC-9-B	42828-CONC-9-C	42828-CONC-10-A	42828-CONC-10-B	42828-CONC-10-C	42828-CONC-12-A	42828-CONC-12-B	42828-CONC-14-A	42828-CONC-14-B	42828-CONC-14-C
Compound										
344'5-TetraCB (#81)	A	J[2]	J[2]	A	J[2]	J[2]	J[2]	A	J[2]	J[2]
33'44'-TetraCB (#77)	A	A	A	A	A	A	A	A	A	A
PCB-106/PCB-107/2'344'5-PentaCB (#123)	J[2]	J[2]	A	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]
23'44'5-PentaCB (#118)	J[1,2]	J[1,2]	J[1,2]	J[1,2]	J[1,2]	J[1,2]	J[1,2]	J[1,2]	J[1,2]	J[1,2]
2344'5-PentaCB (#114)	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]
233'44'-PentaCB (#105)	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]
33'44'5-PentaCB (#126)	A	A	A	A	A	A	A	A	A	A
23'44'55'-HexaCB (#167)	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]
233'44'5-HexaCB (#156)/233'44'5'-HexaCB (#157)	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]
33'44'55'-HexaCB (#169)	J[2]	J[2]	J[2]	A	J[2]	A	J[2]	J[2]	A	J[2]
233'44'55'-HeptaCB (#189)	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	A	J[2]	J[2]

Table I
Recommendation Summary Table for PCB Congeners

A	-	Accept all results.
J^1	-	PE %D outside criterion (high recovery); J detects.
J^2	-	Method blank contamination; positive sample results less than the blank action level are reported as non-detects (U) at the concentration reported.

EPA-NE - Data Validation Worksheet

Overall Evaluation of Data - Data Validation Memorandum - Table II

PCB ANALYSIS					
DQO (list all DQOs)	Sampling and/or Analytical Method Appropriate Yes or No	Measurement Error		Sampling Variability	Potential Usability Issues
		Analytical Error	Sampling Error*		
The following is a summary of the site investigation/assessment objectives as found in Centredale Manor Tasks 19-22 QAPP (5/23/01): To generate data of quality sufficient to be used for human health (HHRA) and ecological risk assessments (ERA) at the site.	Yes, Sampling Method appropriate for all samples Yes, Analytical Method appropriate for all samples.	Refer to qualification in R/S Key on Table I: J[12]	Refer to qualification in R/S Key on Table I: NA	**	One Cambridge Isotope Laboratories (CIL) Standard Reference Material (SRM) sample was evaluated for this SDG (CIL EDF 2526 for PCB congeners in fish tissue). PCB-118 congener was outside the Centredale Manor Tasks 19-22 QAPP (5/23/01) specified criterion of 30 %D from the consensus value. PCB-118 was recovered high. The positive results for the PCB-118 congener in all samples were estimated (J) due to the possibility of biased high results. The method blanks had low level contamination. This contamination problem does not have an impact on the usability of the data. Contaminants were found in the method blank and the field samples. When the analyte concentrations in the field samples were less than the corresponding blank action level, the field sample results reported by the laboratory are qualified as non-detected (U) on the Data Summary Table. See Table I for a summary of the qualifiers applied due to blank contamination. Data validation indicated minor data quality problems which do not significantly impact the usability of the data. See the data validation memorandum for details. The reported results are usable for the site objectives.

* The evaluation of "sampling error" cannot be completely assessed in the data validation.

** Sampling variability is not assessed in data validation.

Validator: MB for Janine Bartels

Date: 8/2/02

Data Summary Table
Polychlorinated Biphenyls Analysis - Tissue/Egg Samples (Wet Weight)

SITE: Cornelia's Manor - N. Providence, RI
CASE NO. EL5 Egg 010-F2 SDG No. 49038-30 PCB
LABORATORY: BATTELLE

SAMPLE NUMBER	Toxicity	42828-CONC-3-A		42828-CONC-3-B		42828-CONC-3-C		42828-CONC-6-A		42828-CONC-6-B		42828-CONC-6-C	
STATION LOCATION	Equivalency	CONC-3-A		CONC-3-B		CONC-3-C		CONC-6-A		CONC-6-B		CONC-6-C	
MATRIX	Factors (1)	EGG		EGG		EGG		EGG		EGG		EGG	
		ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*
3,4,4',5-TetraCB (#81)	0.0005	U	1.60	U	1257.55	U	1.99	U	2.88	U	2.88	U	437.10
3,3',4,4'-TetraCB (#77)	0.0001	U	13.15	U	26.42	U	14.78	998.58		955.91		718.95	
PCB-105/PCB-107/2',3,4,4',5-PentaCB (#123)	< 0.000005	U	7.40	U	16.90	U	11.02	U	9.84	U	10.91	U	7.61
2,3',4,4',5-PentaCB (#118)	< 0.000005	UJ	424.85	UJ	785.11	UJ	534.92	UJ	585.87	UJ	555.29	UJ	399.32
2,3,4,4',5-PentaCB (#114)	< 0.000005	U	7.02	U	15.24	U	9.58	U	12.40	U	10.08	U	7.44
2,3,3',4,4'-PentaCB (#105)	< 0.000005	U	145.61	U	274.68	U	182.08	U	182.63	U	222.40	U	128.05
3,3',4,4',5-PentaCB (#126)	0.005	U	3.22	U	14.01	U	6.55	1194.35 J		1058.65 J		874.51	
2,3',4,4',5,5'-HexaCB (#167)	< 0.000005	U	23.67	U	38.65	U	35.42	U	37.58	U	40.45	U	22.63
2,3,3',4,4',5-HexaCB (#156)/2,3,3',4,4',5'-HexaCB (#157)	< 0.000005	U	27.14	U	53.48	U	53.10	U	38.55	U	85.20	U	30.32
2,3',4,4',5,5'-HexaCB (#169)	0.00005	U	1.65	U	8.36	U	2.48	U	2.78	U	5.59	U	3.09
2,3,3',4,4',5,5'-HeptaCB (#189)	< 0.000005	U	1.59	U	8.10	U	2.66	U	2.48	U	4.14	U	2.30
TOX C EQUIVALENCY(1):			0.0 UJ		0.0 UJ		0.0 UJ		6.0 J		6.4 J		4.4
PERCENT LIPIDS:			2.07		2.54		3.68		3.35		4.65		1.43
DILUTION FACTOR:			1		1		1		1		1		1
DATE SAMPLED:			07/14/01		07/14/01		07/14/01		07/14/01		07/14/01		07/14/01
DATE OF RECEIPT:			07/17/01		07/17/01		07/17/01		07/17/01		07/17/01		07/17/01
SAMPLE EXTRACTION DATE:			10/17/01		10/17/01		10/17/01		10/17/01		10/17/01		10/17/01
ANALYSIS DATE:			12/07/01		12/07/01		12/07/01		12/06/01		12/06/01		12/06/01
LABORATORY SAMPLE I.D.:			49038-60-17		49038-60-18		49038-60-20		49038-60-11		49038-60-12		49038-60-13

* = The values in this column are either the Detection Limits (DL) or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are marked with a "*". The DL values are unmarked.
The EMPC values are not qualified with a "J", since they are already estimated.
(1) The Toxic Equivalent concentration is calculated with the Toxicity Equivalency Factors (TEFs) found in "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife", Environmental Health Perspectives, Volume 106, Number (12), December 1998, Table 2, page 780
Concentrations reported by the laboratory below the lowest standard are flagged (J) on the Data Summary Table as estimated values. All other necessary qualifications are defined in Table 1
< = The expected upper limit of the TEF value for the congener in fish.

Data Summary Table
Polychlorinated Biphenyls Analysis - Tissue/Egg Samples (Wet Weight)

SITE: Centredale Manor - N. Providence, RI
CASE NO. ELS Egg B1OF2 SDG No. 49038-60 PCB
LABORATORY: BATTELLE

SAMPLE NUMBER:	Toxicity Equivalency Factors (1)	42828-CONC-7-A		42828-CONC-7-B		42828-CONC-7-C		42828-CONC-9-A		42828-CONC-9-B		42828-CONC-9-C	
STATION LOCATION:		CONC-7-A		CONC-7-B		CONC-7-C		CONC-9-A		CONC-9-B		CONC-9-C	
MATRIX:		EGG		EGG		EGG		EGG		EGG		EGG	
		ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*
3,4,4',5-TetraCB (#81)	0.0005	U	7.11	U	472.01	U	4.25	U	1.81	U	529.83	U	1.68
3,3',4,4'-TetraCB (#77)	0.0001	240.83 J		212.27 J		302.42 J		1339.00		1177.07		1613.44	
PCB-106/PCB-107/2',3,4,4',5-PentaCB (#123)	< 0.000005	U	10.55	U	9.06	U	38.10	U	9.37	U	9.24	U	11.00
2,3',4,4',5-PentaCB (#118)	< 0.000005	UJ	499.12	UJ	346.72	UJ	579.60	UJ	539.82	UJ	447.80	UJ	643.67
2,3,4,4',5-PentaCB (#114)	< 0.000005	U	13.21	U	7.83	U	11.64	U	7.33	U	8.80	U	13.72
2,3,3',4,4'-PentaCB (#105)	< 0.000005	U	172.15	U	108.98	U	175.82	U	179.02	U	149.01	U	222.61
3,3',4,4',5-PentaCB (#126)	0.005	253.30 J		211.02 J		311.44 J		1084.91 J		1460.03		2269.44	
2,3',4,4',5,5'-HexaCB (#167)	< 0.000005	U	33.37	U	26.90	U	33.54	U	31.12	U	26.87	U	33.22
2,3,3',4,4',5-HexaCB (#156)/2,3,3',4,4',5-HexaCB (#157)	< 0.000005	U	41.80	U	25.80	U	39.54	U	35.78	U	30.82	U	43.66
3,3',4,4',5,5'-HexaCB (#169)	0.00005	U	3.59	U	4.47	U	7.04	U	2.49	U	1.39	U	3.60
2,3,3',4,4',5,5'-HeptaCB (#189)	< 0.000005	U	665.42	U	2.80	U	821.81	U	1.77	U	6.35	U	1.32
TOXIC EQUIVALENCY(1):		1.3 J		1.1 J		1.8 J		5.6 J		7.4		11	
PERCENT LIPIDS:		2.18		1.99		2.84		2.67		2.11		3.41	
DILUTION FACTOR:		1		1		1		1		1		1	
DATE SAMPLED:		07/14/01		07/14/01		07/14/01		07/14/01		07/14/01		07/14/01	
DATE OF RECEIPT:		07/17/01		07/17/01		07/17/01		07/17/01		07/17/01		07/17/01	
SAMPLE EXTRACTION DATE:		10/17/01		10/17/01		10/17/01		10/17/01		10/17/01		10/17/01	
ANALYSIS DATE:		12/05/01		12/05/01		12/06/01		12/07/01		12/07/01		12/07/01	
LABORATORY SAMPLE I.D.:		49038-60-02		49038-60-03		49038-60-04		49038-60-14		49038-60-15		49038-60-16	

* = The values in this column are either the Detection Limits (DL) or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are marked with a "*". The DL values are unmarked.
The EMPC values are not qualified with a "J", since they are already estimated.
(1) The Toxic Equivalent concentration is calculated with the Toxicity Equivalency Factors (TEFs) found in "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife", Environmental Health Perspectives, Volume 106, Number (12), December 1998, Table 2, page 780.
Concentrations reported by the laboratory below the lowest standard are flagged (J) on the Data Summary Table as estimated values. All other necessary qualifications are defined in Table I.
< = The expected upper limit of the TEF values for the congener in fish.

Data Summary Table
Polychlorinated Biphenyls Analysis - Tissue/Egg Samples (Wet Weight)

SITE: Centredale Manor - N. Providence, RI
CASE NO. ELS Egg BSOF2
LABORATORY: BATTELLE

SDG No. 49038-60 PCB

SAMPLE NUMBER:	Toxicity Equivalency Factors (1)	42828-CONC-10-A		42828-CONC-10-B		42828-CONC-10-C		42828-CONC-12-A		42828-CONC-12-B		42828-CONC-14-A	
STATION LOCATION:		CONC-10-A		CONC-10-B		CONC-10-C		CONC-12-A		CONC-12-B		CONC-14-A	
MATRIX:		EGG		EGG		EGG		EGG		EGG		EGG	
		ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*
3,4,4',5-TetraCB (#81)	0.0005	U	1.80	U	650.95	U	6.59	U	2.24	U	4.75	U	649.48
3,3',4,4'-TetraCB (#77)	0.0001	217.15 J		446.74 J		250.35		2609.00		1293.59 J		786.44	
PCB-108/PCB-107(2',3,4,4',5-PentaCB (#123)	< 0.000005	U	917.52	U	12.15	U	12.48	U	23.01	U	23.80	U	8.51
2,3',4,4',5-PentaCB (#118)	< 0.000005	UJ	332.03	UJ	538.49	UJ	381.50	UJ	726.22	UJ	1193.79	UJ	480.39
2,3,4,4',5-PentaCB (#114)	< 0.000005	U	6.52	U	18.32	U	11.21	U	13.95	U	31.81	U	9.36
2,3,3',4,4'-PentaCB (#105)	< 0.000005	U	109.94	U	168.34	U	131.21	U	240.72	U	413.68	U	150.25
3,3',4,4',5-PentaCB (#126)	0.005	244.73 J		471.07 J		257.81		2782.78		1420.18 J		754.11 J	
2,3',4,4',5,5'-HexaCB (#167)	< 0.000005	U	25.46	U	42.63	U	19.06	U	37.11	U	38.45	U	36.57
2,3,3',4,4',5-HexaCB (#156)/2,3,3',4,4',5-HexaCB (#157)	< 0.000005	U	25.80	U	45.56	U	33.00	U	42.26	U	92.18	U	32.96
3,3',4,4',5,5'-HexaCB (#169)	0.00005	U	3.07	U	659.96	U	4.18	U	602.19	U	1.19	U	2.56
2,3,3',4,4',5,5'-HeptaCB (#189)	< 0.000005	U	1.23	U	3.41	U	2.90	U	2.80	U	6.91	U	589.48
TOXIC EQUIVALENCY(1):			1.2 J		2.4 J		1.4		14		7.2 J		3.6 J
PERCENT LIPIDS:			1.42		3.34		1.22		3.15		1.64		3.07
DILUTION FACTOR:			1		1		1		1		1		1
DATE SAMPLED:			07/14/01		07/14/01		07/14/01		07/14/01		07/14/01		07/14/01
DATE OF RECEIPT:			07/17/01		07/17/01		07/17/01		07/17/01		07/17/01		07/17/01
SAMPLE EXTRACTION DATE:			10/17/01		10/17/01		10/17/01		10/17/01		10/17/01		10/17/01
ANALYSIS DATE:			12/06/01		12/06/01		12/03/01		12/07/01		12/07/01		12/03/01
LABORATORY SAMPLE I.D.:			49038-60-05		49038-60-06		49038-60-07		49038-60-21		49038-60-22		49038-60-08

* = The values in this column are either the Detection Limits (DL) or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are marked with a "*". The DL values are unmarked.
The EMPC values are not qualified with a "J", since they are already estimated.
(1) The Toxic Equivalent concentration is calculated with the Toxicity Equivalency Factors (TEFs) found in "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife", Environmental Health Perspectives, Volume 106, Number (12), December 1998, Table 2, page 780.
Concentrations reported by the laboratory below the lowest standard are flagged (J) on the Data Summary Table as estimated values. All other necessary qualifications are defined in Table I.
< = The expected upper limit of the TEF values for the congener in fish.

Data Summary Table
Polychlorinated Biphenyls Analysis - Tissue/Egg Samples (Wet Weight)

SITE: Centredale Manor - N. Providence, RI
CASE NO. ELS Egg B1OF2
LABORATORY: BATTELLE

SDG No. 49038-60 PCB

SAMPLE NUMBER:	Toxicity Equivalency Factors (1)	42828-CONC-14-B			42828-CONC-14-C		
STATION LOCATION:		CONC-14-B			CONC-14-C		
MATRIX:		EGG			EGG		
		ng/kg		DL/EMPC*	ng/kg		DL/EMPC*
3,4,4',5-TetraCB (#81)	0.0005		U	1.30		U	2.83
3,3',4,4'-TetraCB (#77)	0.0001	355.70	J		420.67	J	
PCB-106/PCB-107/2',3,4,4',5-PentaCB (#123)	< 0.000005		U	8.65		U	11.66
2,3',4,4',5-PentaCB (#118)	< 0.000005		UJ	480.96		UJ	491.06
2,3,4,4',5-PentaCB (#114)	< 0.000005		U	8.75		U	9.29
2,3,3',4,4'-PentaCB (#105)	< 0.000005		U	142.94		U	162.96
3,3',4,4',5-PentaCB (#126)	0.005	356.61	J		424.21	J	
2,3',4,4',5,5'-HexaCB (#167)	< 0.000005		U	27.54		U	33.23
2,3,3',4,4',5-HexaCB (#156)/2,3,3',4,4',5-HexaCB (#157)	< 0.000005		U	40.24		U	33.00
3,3',4,4',5,5'-HexaCB (#169)	0.00005		U	455.46		U	2.34
2,3,3',4,4',5,5'-HeptaCB (#189)	< 0.000005		U	1.30		U	1.58
TOXIC EQUIVALENCY(1):				1.8 J			2.2 J
PERCENT LIPIDS:				1.28			2.43
DILUTION FACTOR:				1			1
DATE SAMPLED:				07/14/01			07/14/01
DATE OF RECEIPT:				07/17/01			07/17/01
SAMPLE EXTRACTION DATE:				10/17/01			10/17/01
ANALYSIS DATE:				12/06/01			12/06/01
LABORATORY SAMPLE I.D.:				49038-60-09			49038-60-10

* = The values in this column are either the Detection Limits (DL) or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are marked with a "*". The DL values are unmarked. The EMPC values are not qualified with a "J", since they are already estimated.

(1) The Toxic Equivalent concentration is calculated with the Toxicity Equivalency Factors (TEFs) found in "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife", Environmental Health Perspectives, Volume 106, Number (12), December 1998, Table 2, page 780.

Concentrations reported by the laboratory below the lowest standard are flagged (J) on the Data Summary Table as estimated values. All other necessary qualifications are defined in Table I.

< = The expected upper limit of the TEF values for the congener in fish.

Steve Stodola
US EPA Approval Signature

8/29/02
Date

August 14, 2002
B-02-08-Y-2
Revised: August 28, 2002

Ms. Christine Clark
Regional Sample Control Custodian
Office of Environmental Measurement and Evaluation
U.S. EPA Region I
11 Technology Drive
North Chelmsford, MA 01863

Re: TO No. 010, Task No. 2, TDF No. 0459
Case No. ELS Egg B2OF2, SDG No. 49038-71 PCB
Battelle Laboratories - Columbus, OH
Centredale Manor, North Providence, RI

WHO PCB Congeners: 19/Egg Tissue/42828-CONC-1-A, 42828-CONC-1-B, 42828-CONC-1-C, 42828-CONC-2-A, 42828-CONC-2-B, 42828-CONC-2-C, 42828-CONC-4-A, 42828-CONC-4-B, 42828-CONC-4-C, 42828-CONC-5-A, 42828-CONC-5-B, 42828-CONC-5-C, 42828-CONC-8-A, 42828-CONC-8-B, 42828-CONC-8-C, 42828-CONC-11-A, 42828-CONC-11-B, 42828-CONC-11-C, 42828-CONC-12-C

1/Fish Tissue SRM/CIL EDF 2526

Dear Ms. Clark:

A Tier III data validation was performed on the WHO PCB congeners analytical data for 19 egg tissue samples. These samples were purchased from Osage Catfisheries of Missouri. The samples were analyzed according to EPA Method 1668A, December 1999, as outlined in the Centredale Manor Tasks 19-22 QAPP (5/23/01). The samples were validated using first the criteria in the Centredale Manor Tasks 19-22 QAPP (5/23/01) prepared by Battelle Duxbury Operations which include the criteria in EPA Method 1668A, December 1999, defaulting next to Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, December 1996 criteria, and to EPA Region I's Environmental Services Assistance Team PCB Congener Data Validation ESAT-01-0008 Draft (8/31/01). The data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
- Data Completeness (CSF Audit - Tier I)
- * Preservation and Technical Holding Times

- PE Samples/Accuracy Check
- * Window Defining Mix
- * Initial and Continuing Calibrations
- Chromatographic Resolution
- * Instrument Sensitivity Check
- Blanks
- Matrix Spike/Matrix Spike Duplicate
- Laboratory Control Sample
- * Laboratory and Field Duplicates
- Internal/Clean-up Standards
- * Sample Analysis and Identification
- Sample Quantitation
- * Estimated Detection Limits (EDL) and Estimated Maximum Possible Concentration (EMPC)
- 2378-TCDD Toxicity Equivalents (TE) and Isomer Specificity
- * Required Sample Reruns and Second Column Confirmation
- System Performance

* - All criteria were met for this parameter.

The following information was used to generate the Data Validation Memorandum attachments:

Table I: Recommendation Summary Table - summarizes validation recommendations

Table II: Overall Evaluation of Data - summarizes site objectives and potential usability issues

Data Summary Tables - summarize accepted, qualified, and rejected data

Overall Evaluation of Data and Potential Usability Issues

The following is a summary of the site investigation/assessment objectives as found in Centredale Manor Tasks 19-22 QAPP (5/23/01):

- To generate data of quality sufficient to be used for human health (HHRA) and ecological risk assessments (ERA) at the site.

Three congeners were rejected in one sample due to clean-up standard recovery of less than 10%.

One Cambridge Isotope Laboratories (CIL) Standard Reference Material (SRM) sample was evaluated for this SDG (CIL EDF 2526 for PCB congeners in fish tissue). Four out of five congeners were outside the Centredale Manor Tasks 19-22 QAPP (5/23/01) specified criterion of 30 %D from the consensus value. Since all of the congeners except for one had high recoveries, the results for all congeners in all samples were estimated (J, UJ) due to the possibility of biased high results.

The method blank and the field samples had low level contamination. However, the method blank contamination does not impact data usability. When the analyte concentrations in the field samples were less than the corresponding blank action level, the field sample results reported by the laboratory are qualified as non-detected (U) on the Data Summary Table. See Table I for a

summary of the qualifiers applied due to blank contamination.

Data validation indicated minor data quality problems which do not significantly impact the usability of the data. See the discussion below for details. The reported results are usable for the site objectives.

Data Completeness (CSF Audit - Tier I)

The following data or information in the data package had discrepancies and/or were missing:

1. The laboratory was asked to submit the project notes documenting the samples.

2. The laboratory was asked to submit their SOP for WHO PCB analysis.

3. The sample receipt date is listed as 7/07/01 on the quantitation reports for samples 42828-CONC-(2-A, 2-B, 2-C, 4-A, 4-B, 4-C, 5-B, 5-C), the sample receipt date should be 7/17/01. The laboratory was asked to reconcile this discrepancy and submit corrected forms.

4. The "LAB QUAL" should be a "J" not an "U" on the Form I for sample 42828-CONC-5-C. The laboratory was asked to reconcile this discrepancy and submit a corrected Form I.

5. No lab result was reported on the Form I for PCB-81 in sample 42828-CONC-2-C. The laboratory was asked to reconcile this discrepancy and submit a corrected Form I.

Items 1 and 2 were requested via the TOPO on March 15, 2002. Items 1 and 2 were received via the TOPO on March 29, 2002. Items 3 thru 5 were requested via the TOPO on July 10, 2002. Items 3 thru 5 were received via the TOPO on July 26, 2002. All items were adequately addressed.

PE Samples/Accuracy Check

One Cambridge Isotope Laboratories (CIL) Standard Reference Material (SRM) sample was evaluated for this SDG (CIL EDF 2526 for PCB congeners in fish tissue). Four out of five congeners were outside the Centredale Manor Tasks 19-22 QAPP (5/23/01) specified criterion of 30 %D from the consensus value.

The following table summarizes the SRM sample (49038-71-23 FISH SRM) results which did not meet the criterion and the resulting sample qualifications:

PE Sample Number	Congener	%D from consensus value	Action	
			Positive Detects	NDs
CIL EDF 2526	PCB-77	41	J	UJ
CIL EDF 2526	PCB-105	858	J	UJ

PE Sample Number	Congener	%D from consensus value	Action	
			Positive Detects	NDs
CIL EDF 2526	PCB-118	1521	J	UJ
CIL EDF 2526	PCB-169	66	J	UJ

Since all of the congeners except for PCB-126 had high recoveries and large %D, the results for all PCB congeners in all samples were estimated (J, UJ) due to the possibility of biased high results.

The laboratory documented in their report that the high recoveries of the congeners in the SRM may be due to the high background levels and/or laboratory problems encountered during sample preparation.

Chromatographic Resolution

Five PCB congeners coeluted on the SPB-Octyl gas chromatography column used for this project. This situation was documented in the Centredale Manor Tasks 19-22 QAPP (5/23/01). The laboratory reported the total concentration for the coeluting PCBs. These total concentrations are reported on the Data Summary Table. Three of the "toxic congeners" with TEF values coeluted: PCB-123, PCB-156, and PCB-157.

Coeluting Congeners	Reported as on the Data Summary Table:
PCB-106, PCB-107, PCB-123	PCB-106/PCB-107/2'344'5-PentaCB (#123)
PCB-156, PCB-157	233'44'5-HexaCB(#156)/233'44'5'-HexaCB(#157)

Blanks

The method blanks associated with this SDG were evaluated for possible sources of contamination. The following table lists the highest concentration of contamination that was detected in the blanks. The table lists the action levels/actions and the samples affected:

Congener	Type of Blank	Blank Concentration (ng/Kg) (1.0g Sample)	Action Level (ng/Kg) (1.0g Sample)	Samples Affected
PCB-81	Method Blank (12/12/01)	17	85	CONC-1-C, CONC-4-A, CONC-4-C, CONC-5-B, CONC-8-B
PCB-105	Method Blank (12/12/01)	260	1300	All

Congener	Type of Blank	Blank Concentration (ng/Kg) (1.0g Sample)	Action Level (ng/Kg) (1.0g Sample)	Samples Affected
PCB-114	Method Blank (12/14/01)	17	84	All
PCB-118	Method Blank (12/13/01)	750	3700	All
PCB-123	Method Blank (12/14/01)	13	66	All
PCB-167	Method Blank (12/14/01)	18	90	All
PCB-156/PCB-157	Method Blank (12/13/01)	48	240	All
PCB-169	Method Blank (12/14/01)	4.3	21	CONC-1-A, CONC-1-B, CONC-1-C, CONC-2-A, CONC-2-B, CONC-4-A, CONC-4-B, CONC-4-C, CONC-5-C, CONC-8-C, CONC-11-A, CONC-11-C, CONC-12-C
PCB-189	Method Blank (12/14/01)	4.9	24	CONC-1-B, CONC-1-C, CONC-2-C, CONC-4-A, CONC-4-B, CONC-4-C, CONC-5-A, CONC-5-C, CONC-8-C, CONC-11-A, CONC-11-B, CONC-12-C

Blank actions are based on Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, December 1996 and EPA Region I's Environmental Services Assistance Team PCB Congener data Validation ESAT-01-0008 Draft (8/31/01) criteria. Blank action levels are calculated as five times the highest concentration of the contaminant determined in any blank. The positive sample results that are less than the blank action level are reported as non-detects (U) at the reported concentration on the Data Summary Table.

Matrix Spike/Matrix Spike Duplicate

One MS was evaluated for this SDG: 42828-CONC-1-B.

The table below summarizes the MS results which did not meet the recovery criteria of 50-150% as documented in the Centredale Manor Tasks 19-22 QAPP (5/23/01).

42828-CONC-1-B			
Congener	MS % Rec.	Action	
		Positive Detects	NDs
PCB-118	833	J	A
PCB-105	411	J	A
PCB-156/PCB-157	604	J	A
PCB-167	614	J	A
PCB-169	153	J	A
PCB-189	339	J	A

Professional judgement was used to estimate (J) values for the above listed congeners in sample 42828-CONC-1-B due to high MS recoveries.

Laboratory Control Sample

The laboratory extracted and analyzed one OPR/LCS with this group of samples. The following table summarizes the Ongoing Precision and Recovery (OPR) result which did not meet Centredale Manor Tasks 19-22 QAPP (5/23/01) recovery criterion and the resulting sample qualifications:

OPR Date	Compound	Recovery (ng/ml)	Acceptable Recovery Range (ng/ml)	Action		Affected Samples
				Positive Detects	NDs	
12/12/01	PCB-77	158	50-150	J	UJ	All
12/12/01	PCB-105	381	50-150	J	UJ	All
12/12/01	PCB-118	1334	50-150	J	UJ	All

The data associated with recoveries of a noncompliant OPR are qualified due to the high recovery. The quantitation of the associated analytes in the samples could be biased.

Internal/Clean-up Standards

- Internal Standards

The following table summarizes the internal standard recoveries that did not meet Centredale Manor Tasks 19-22 QAPP (5/23/01) acceptance criterion of 25-150%:

Standard	% Recovery	Action		Affected Sample
		Positive Detects	NDs	
$^{13}C_{12}$-PCB-167	12	J	UJ	42828-CONC-8-A
$^{13}C_{12}$-PCB-189	16	J	UJ	42828-CONC-8-A

The corresponding non-labeled congener results are estimated as shown in the table due to internal standard percent recoveries outside method acceptance criterion.

- Clean-up Standards

The following table summarizes the clean-up standard recoveries that did not meet Centredale Manor Tasks 19-22 QAPP (5/23/01) acceptance criterion of 30-135%:

Standard	% Recovery	Action		Affected Sample
		Positive Detects	NDs	
$^{13}C_{12}$-PCB-111	15	J	UJ	42828-CONC-1-C
$^{13}C_{12}$-PCB-111	17	J	UJ	42828-CONC-4-C
$^{13}C_{12}$-PCB-111	5	J	R	42828-CONC-8-A
$^{13}C_{12}$-PCB-178	11	J	UJ	42828-CONC-8-A
$^{13}C_{12}$-PCB-111	15	J	UJ	42828-CONC-8-B
$^{13}C_{12}$-PCB-178	22	J	UJ	42828-CONC-8-B
$^{13}C_{12}$-PCB-111	23	J	UJ	42828-CONC-11-C

The corresponding non-labeled congener results are estimated as shown in the table due to clean-up standard percent recoveries outside method acceptance criterion.

Sample Quantitation

Concentrations quantitated below the lowest calibration standard are flagged (J) on the Data Summary Tables. Quantitation is not accurate when the reported results are below the lowest calibration standard.

2378-TCDD Toxicity Equivalents (TE) and Isomer Specificity

All TE values reported on the Data Summary Tables have been calculated by the ESAT data validator using the validated data discussed above in this report. The validated data accounts for blank contamination. The TE calculations include the reported EMPC values. The fish TEF values for the PCBs are published in "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife", Environmental Health Perspectives, Volume 106, Number 12, December 1998, Table 2, page 780.

System Performance

No trends noted.

Very truly yours,

LOCKHEED ENVIRONMENTAL

Janine Bartels
Principal Scientist

Louis Macri
ESAT Program Manager

cc: Cornell Rosiu, EPA RPM (DV Memorandum, Data Summary Table)

Attachments: Table I: Recommendation Summary Table
Table II: Overall Evaluation of Data
Data Summary Tables
Data Validation Worksheets
Analytical Method
PE Scores
Communication/Phone Logs
Field Sampling Notes

Table I
Recommendation Summary Table for PCB Congeners
Centredale Manor Site
Case No.: ELS EGG/SDG No. 49038-71 PCB

Sample Nos.	42828-CONC-1-A	42828-CONC-1-B	42828-CONC-1-C	42828-CONC-2-A	42828-CONC-2-B	42828-CONC-2-C	42828-CONC-4-A	42828-CONC-4-B	42828-CONC-4-C	42828-CONC-5-A
Compound										
344'5-TetraCB (#81)	J[1]	J[1]	J[1,2,6]	J[1]	J[1]	J[1]	J[1,2]	J[1]	J[1,2,6]	J[1]
33'44'-TetraCB (#77)	J[1,4]	J[1,4]	J[1,4,6]	J[1,4]	J[1,4]	J[1,4]	J[1,4]	J[1,4]	J[1,4,6]	J[1,4]
PCB-106/PCB-107/2'344'5-PentaCB (#123)	J[1,2]	J[1,2]	J[1,2,6]	J[1,2]	J[1,2]	J[1,2]	J[1,2]	J[1,2]	J[1,2,6]	J[1,2]
23'44'5-PentaCB (#118)	J[1,2,4]	J[1,2,3,4]	J[1,2,4,6]	J[1,2,4]	J[1,2,4]	J[1,2,4]	J[1,2,4]	J[1,2,4]	J[1,2,4,6]	J[1,2,4]
2344'5-PentaCB (#114)	J[1,2]	J[1,2]	J[1,2,6]	J[1,2]	J[1,2]	J[1,2]	J[1,2]	J[1,2]	J[1,2,6]	J[1,2]
233'44'-PentaCB (#105)	J[1,2,4]	J[1,2,3,4]	J[1,2,4,6]	J[1,2,4]	J[1,2,4]	J[1,2,4]	J[1,2,4]	J[1,2,4]	J[1,2,4,6]	J[1,2,4]
33'44'5-PentaCB (#126)	J[1]	J[1]	J[1,6]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1,6]	J[1]
23'44'55'-HexaCB (#167)	J[1,2]	J[1,2,3]	J[1,2,6]	J[1,2]	J[1,2]	J[1,2]	J[1,2]	J[1,2]	J[1,2,6]	J[1,2]
233'44'5-HexaCB (#156)/233'44'5'-HexaCB (#157)	J[1,2]	J[1,2,3]	J[1,2,6]	J[1,2]	J[1,2]	J[1,2]	J[1,2]	J[1,2]	J[1,2,6]	J[1,2]
33'44'55'-HexaCB (#169)	J[1,2]	J[1,2,3]	J[1,2,6]	J[1,2]	J[1,2]	J[1]	J[1,2]	J[1,2]	J[1,2,6]	J[1]
233'44'55'-HeptaCB (#189)	J[1]	J[1,2,3]	J[1,2,6]	J[1]	J[1]	J[1]	J[1,2]	J[1,2]	J[1,2,6]	J[1,2]

Table I
Recommendation Summary Table for PCB Congeners
Centredale Manor Site
Case No.: ELS EGG/SDG No. 49038-71 PCB

Sample Nos.	42828-CONC-5-B	42828-CONC-5-C	42828-CONC-8-A	42828-CONC-8-B	42828-CONC-8-C	42828-CONC-11-A	42828-CONC-11-B	42828-CONC-11-C	42828-CONC-12-C
Compound									
344'5-TetraCB (#81)	J[1,2]	J[1]	R[1]	J[1,2,6]	J[1]	J[1]	J[1]	J[1,6]	J[1]
33'44'-TetraCB (#77)	J[1,4]	J[1,4]	J[1,4,7]	J[1,4,6]	J[1,4]	J[1,4]	J[1,4]	J[1,4,6]	J[1,4]
PCB-106/PCB-107/2'344'5-PentaCB (#123)	J[1,2]	J[1,2]	J[1,2,7]	J[1,2,6]	J[1,2]	J[1,2]	J[1,2]	J[1,2,6]	J[1,2]
23'44'5-PentaCB (#118)	J[1,2,4]	J[1,2,4]	J[1,2,4,7]	J[1,2,4,6]	J[1,2,4]	J[1,2,4]	J[1,2,4]	J[1,2,4,6]	J[1,2,4]
2344'5-PentaCB (#114)	J[1,2]	J[1,2]	J[1,2,7]	J[1,2,6]	J[1,2]	J[1,2]	J[1,2]	J[1,2,6]	J[1,2]
233'44'-PentaCB (#105)	J[1,2,4]	J[1,2,4]	J[1,2,4,7]	J[1,2,4,6]	J[1,2,4]	J[1,2,4]	J[1,2,4]	J[1,2,4,6]	J[1,2,4]
33'44'5-PentaCB (#126)	J[1]	J[1]	J[1,7]	J[1,6]	J[1]	J[1]	J[1]	J[1,6]	J[1]
23'44'55'-HexaCB (#167)	J[1,2]	J[1,2]	J[1,2,5,7]	J[1,2,6]	J[1,2]	J[1,2]	J[1,2]	J[1,2,6]	J[1,2]
233'44'5-HexaCB (#156)/233'44'5'-HexaCB (#157)	J[1,2]	J[1,2]	J[1,2,7]	J[1,2,6]	J[1,2]	J[1,2]	J[1,2]	J[1,2,6]	J[1,2]
33'44'55'-HexaCB (#169)	J[1]	J[1,2]	R[1]	J[1,6]	J[1,2]	J[1,2]	J[1]	J[1,2,6]	J[1,2]
233'44'55'-HeptaCB (#189)	J[1]	J[1,2]	R[1]	J[1,6]	J[1,2]	J[1,2]	J[1,2]	J[1,6]	J[1,2]

Table I
Recommendation Summary Table for PCB Congeners

A	-	Accept all results.
J[1]	-	PE %D outside criterion; J detects, UJ non-detects.
J[2]	-	Method blank contamination; positive sample results less than the blank action level are reported as non-detects (U) at the concentration reported.
J[3]	-	MS recovery outside criteria; J detects.
J[4]	-	LCS/OPR recoveries outside criterion; J detects, UJ non-detects.
J[5]	-	Internal standard recovery outside criterion; J detects, UJ non-detects.
J[6]	-	Clean-up standard recovery outside criterion; J detects, UJ non-detects.
J[7]	-	Less than 10% clean-up standard recovery; J detects.
R[1]	-	Less than 10% clean-up standard recovery; R non-detects.

EPA-NE - Data Validation Worksheet

Overall Evaluation of Data - Data Validation Memorandum - Table II

PCB ANALYSIS					
DQO (list all DQOs)	Sampling and/or Analytical Method Appropriate Yes or No	Measurement Error		Sampling Variability	Potential Usability Issues
		Analytical Error	Sampling Error*		
The following is a summary of the site investigation/assessment objectives as found in Centredale Manor Tasks 19-22 QAPP (5/23/01): To generate data of quality sufficient to be used for human health (HHRA) and ecological risk assessments (ERA) at the site.	Yes, Sampling Method appropriate for all samples Yes, Analytical Method appropriate for all samples.	Refer to qualification in R/S Key on Table I: $J^{1,2,3,4,5,6,7}$, R^3	Refer to qualification in R/S Key on Table I: NA	**	Three congeners were rejected in one sample due to clean-up standard recovery of less than 10%. One Cambridge Isotope Laboratories (CIL) Standard Reference Material (SRM) sample was evaluated for this SDG (CIL EDF 2526 for PCB congeners in fish tissue). Four out of five congeners were outside the Centredale Manor Tasks 19-22 QAPP (5/23/01) specified criterion of 30 %D from the consensus value. Since all of the congeners except for one had high recoveries, the results for all congeners in all samples were estimated (J, UJ) due to the possibility of biased high results. The method blank and the field samples had low level contamination. However, the method blank contamination does not impact data usability. When the analyte concentrations in the field samples were less than the corresponding blank action level, the field sample results reported by the laboratory are qualified as non-detected (U) on the Data Summary Table. See Table I for a summary of the qualifiers applied due to blank contamination. Data validation indicated minor data quality problems which do not significantly impact the usability of the data. See the data validation memorandum for details. The reported results are usable for the site objectives.

* The evaluation of "sampling error" cannot be completely assessed in the data validation.

** Sampling variability is not assessed in data validation.

Validator: [signature]

Date: 8/28/02

Data Summary Table
Polychlorinated Biphenyls Analysis - Tissue/Egg Samples (Wet Weight)

SITE: Centredale Manor - N. Providence, RI
CASE NO. ELS Egg 82OF2 SDG No. 49038-71 PCB
LABORATORY: BATTELLE

SAMPLE NUMBER:	Toxicity Equivalency Factors (1)	42828-CONC-1-A		42828-CONC-1-B		42828-CONC-1-C		42828-CONC-2-A		42828-CONC-2-B		42828-CONC-2-C	
STATION LOCATION:		CONC-1-A		CONC-1-B		CONC-1-C		CONC-2-A		CONC-2-B		CONC-2-C	
MATRIX:		EGG		EGG		EGG		EGG		EGG		EGG	
		ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*
3,4,4',5-TetraCB (#81)	0.0005	UJ	807.16	UJ	1167.58	UJ	22.94	UJ	481.97	UJ	492.27	UJ	1267.11
3,3',4,4'-TetraCB (#77)	0.0001	958.82 J		1070.00 J		1322.82 J		1834.05 J		1316.24 J		2869.54 J	
PCB-108/PCB-107(2',3,4,4',5-PentaCB (#123)	< 0.000005	UJ	13.27	UJ	21.82	UJ	33.26	UJ	12.89	UJ	8.48	UJ	37.99
2,3',4,4',5-PentaCB (#118)	< 0.000005	UJ	845.16	UJ	1153.41	UJ	1608.54	UJ	821.47	UJ	807.90	UJ	1756.85
2,3,4,4',5-PentaCB (#114)	< 0.000005	UJ	15.60	UJ	26.83	UJ	30.06	UJ	10.63	UJ	10.61	UJ	33.15
2,3,3',4,4'-PentaCB (#105)	< 0.000005	UJ	256.21	UJ	363.76	UJ	461.68	UJ	206.46	UJ	193.27	UJ	823.10
3,3',4,4',5-PentaCB (#126)	0.005	904.10 J		928.78 J		1352.00 J		2011.30 J		1525.14 J		3520.61 J	
2,3',4,4',5,5'-HexaCB (#167)	< 0.000005	UJ	40.27	UJ	46.85	UJ	59.47	UJ	27.85	UJ	23.42	UJ	54.75
2,3,3',4,4',5-HexaCB (#156)/2,3,3',4,4',5'-HexaCB (#157)	< 0.000005	UJ	44.70	UJ	59.60	UJ	76.98	UJ	33.62	UJ	30.66	UJ	87.52
3,3',4,4',5,5'-HexaCB (#169)	0.00005	UJ	2.00	UJ	3.75	UJ	4.32	UJ	2.51	UJ	2.22	UJ	1267.11
2,3,3',4,4',5,5'-HeptaCB (#189)	< 0.000005	UJ	807.16	UJ	4.40	UJ	5.26	UJ	481.97	UJ	492.27	UJ	3.45
TOXIC EQUIVALENCY(1):			4.6 J		4.8 J		6.9 J		10 J		7.8 J		17 J
PERCENT LIPIDS:			3.37		3.57		3.48		1.69		1.52		3.72
DILUTION FACTOR:			1		1		1		1		1		1
DATE SAMPLED:			07/14/01		07/14/01		07/14/01		07/14/01		07/14/01		07/14/01
DATE OF RECEIPT:			07/17/01		07/17/01		07/17/01		07/17/01		07/17/01		07/17/01
SAMPLE EXTRACTION DATE:			10/29/01		10/29/01		10/29/01		10/29/01		10/29/01		10/29/01
ANALYSIS DATE:			12/14/01		12/14/01		12/14/01		12/14/01		12/14/01		12/14/01
LABORATORY SAMPLE I.D.:			49038-71-19		49038-71-20		49038-71-22		49038-71-15		49038-71-18		49038-71-17

* = The values in this column are either the Detection Limits (DL) or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are marked with a "*". The DL values are unmarked.
The EMPC values are not qualified with a "J", since they are already estimated.
(1) The Toxic Equivalent concentration is calculated with the Toxicity Equivalency Factors (TEFs) found in "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife", Environmental Health Perspectives, Volume 106, Number (12), December 1998, Table 2, page 780.
Concentrations reported by the laboratory below the lowest standard are flagged (J) on the Data Summary Table as estimated values. All other necessary qualifications are defined in Table 1.
< = The expected upper limit of the TEF values for the congener in fish.

08/29/2002 THU 9:40 FAX 014/016

Data Summary Table
Polychlorinated Biphenyls Analysis - Tissue/Egg Samples (Wet Weight)

SITE: Centredale Manor - N. Providence, RI
CASE NO. ELS Egg 820F2 SDG No. 49038-71 PCB
LABORATORY: BATTELLE

SAMPLE NUMBER:	Toxicity Equivalency Factors (1)	42828-CONC-4-A		42828-CONC-4-B		42828-CONC-4-C		42828-CONC-5-A		42828-CONC-5-B		42828-CONC-5-C	
STATION LOCATION:		CONC-4-A		CONC-4-B		CONC-4-C		CONC-5-A		CONC-5-B		CONC-5-C	
MATRIX:		EGG		EGG		EGG		EGG		EGG		EGG	
		ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*
3,4,4',5-TetraCB (#81)	0.0005	UJ	1.67	UJ	410.21	UJ	2.12	UJ	604.45	UJ	15.02	UJ	549.03
3,3',4,4'-TetraCB (#77)	0.0001	259.64 J		150.95 J		223.53 J		403.59 J		807.16 J		611.51 J	
PCB-105/PCB-107/2',3,4,4',5-PentaCB (#123)	< 0.000005	UJ	13.71	UJ	10.05	UJ	14.27	UJ	11.06	UJ	18.08	UJ	11.62
2,3',4,4',5-PentaCB (#118)	< 0.000005	UJ	810.54	UJ	629.78	UJ	704.27	UJ	772.52	UJ	986.23	UJ	693.65
2,3,4,4',5-PentaCB (#114)	< 0.000005	UJ	14.08	UJ	11.06	UJ	12.66	UJ	14.16	UJ	16.77	UJ	11.94
2,3,3',4,4'-PentaCB (#105)	< 0.000005	UJ	232.45	UJ	182.35	UJ	199.67	UJ	251.93	UJ	245.28	UJ	189.72
3,3',4,4',5-PentaCB (#126)	0.005	257.36 J		183.10 J		218.21 J		518.40 J		927.42 J		722.15 J	
2,3',4,4',5,5'-HexaCB (#167)	< 0.000005	UJ	33.56	UJ	24.68	UJ	29.52	UJ	32.11	UJ	38.37	UJ	31.82
2,3,3',4,4',5-HexaCB (#156)/2,3,3',4,4',5'-HexaCB (#157)	< 0.000005	UJ	34.90	UJ	29.36	UJ	28.84	UJ	33.22	UJ	37.08	UJ	30.26
3,3',4,4',5,5'-HexaCB (#169)	0.00005	UJ	1.59	UJ	1.09	UJ	2.41	UJ	604.45	UJ	649.10	UJ	1.40
2,3,3',4,4',5,5'-HeptaCB (#189)	< 0.000005	UJ	1.75	UJ	1.34	UJ	2.09	UJ	1.10	UJ	649.10	UJ	1.22
TOXIC EQUIVALENCY(1):			1.3 J		0.93 J		1.1 J		2.6 J		4.7 J		3.7 J
PERCENT LIPIDS:			2.60		1.40		2.23		2.99		3.62		2.52
DILUTION FACTOR:			1		1		1		1		1		1
DATE SAMPLED:			07/14/01		07/14/01		07/14/01		07/14/01		07/14/01		07/14/01
DATE OF RECEIPT:			07/17/01		07/17/01		07/17/01		07/17/01		07/17/01		07/17/01
SAMPLE EXTRACTION DATE:			10/29/01		10/29/01		10/29/01		10/29/01		10/29/01		10/29/01
ANALYSIS DATE:			12/13/01		12/14/01		12/14/01		12/13/01		12/13/01		12/13/01
LABORATORY SAMPLE I.D.:			49038-71-12		49038-71-13		49038-71-14		49038-71-09		49038-71-10		49038-71-11

* = The values in this column are either the Detection Limits (DL) or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are marked with a "*". The DL values are unmarked.
The EMPC values are not qualified with a "J", since they are already estimated.
(1) The Toxic Equivalent concentration is calculated with the Toxicity Equivalency Factors (TEFs) found in "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife", Environmental Health Perspectives, Volume 106, Number (12), December 1998, Table 2, page 780.
Concentrations reported by the laboratory below the lowest standard are flagged (J) on the Data Summary Table as estimated values. All other necessary qualifications are defined in Table 3.
< = The expected upper limit of the TEF values for the congener in fish.

08/29/2002 THU 9:41 FAX 010/016

Core Summary Table
Polychlorinated Biphenyls Analysis - Tissue/Egg Samples (Aroclor Mix)

SITE: Cornwall Vessel - N. Pennsylvania, PA
CASE NO. DLS Egg BIOP2 ESC No. 40038-71-PCB
LABORATORY: BATTELLE

SAMPLE NUMBER	Toxicity Equivalency Factors (TEF)	43038-CONC-6-A		43038-CONC-6-B		43038-CONC-6-C		43038-CONC-11-A		43038-CONC-11-B		43038-CONC-11-C		43038-CONC-12-C	
STATION LOCATION		CONC-6-A		CONC-6-B		CONC-6-C		CONC-11-A		CONC-11-B		CONC-11-C		CONC-12-C	
MATRIX		EGG		EGG		EGG		EGG		EGG		EGG		EGG	
		ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*
3,4,4',5-TetraCB (#81)	0.0001	R		UJ	21.01	UJ	46.98	UJ	532.51	UJ	540.45	UJ	668.72	UJ	894.73
3,3',4,4'-TetraCB (#77)	0.0001	242.21 J		382.72 J		434.51 J		982.19 J		1683.25 J		1413.72 J		3474.29 J	
PCB-126(PCB-169) (3,3',4,4',5-pentaCB (#126))	0.1000005	UJ	13.21	UJ	12.37	UJ	91.30	UJ	14.35	UJ	45.69	UJ	15.39	UJ	12.80
2,3',4,4',5-PentaCB (#118)	0.0000005	UJ	623.53	UJ	661.66	UJ	564.57	UJ	993.94	UJ	1162.73	UJ	806.26	UJ	1117.23
2,3,4,4',5-PentaCB (#114)	0.0000005	UJ	14.61	UJ	14.65	UJ	11.02	UJ	17.37	UJ	14.29	UJ	11.14	UJ	24.19
2,3',4,4',5-PentaCB (#105)	0.0000005	UJ	132.67	UJ	230.34	UJ	184.01	UJ	314.82	UJ	242.84	UJ	241.75	UJ	320.31
3,3',4,4',5-PentaCB (#126)	0.005	128.21 J		445.37 J		420.91 J		900.43 J		2134.73 J		1407.46 J		3474.43 J	
2,3',4',5,5'-PentaCB (#167)	0.0000005	UJ	30.33	UJ	34.43	UJ	21.47	UJ	43.32	UJ	38.39	UJ	34.91	UJ	37.40
2,3,3',4,4',5-HexaCB (#156)/2,3,3',4',4',5-HexaCB (#157)	0.0000005	UJ	32.34	UJ	32.42	UJ	34.06	UJ	53.14	UJ	58.98	UJ	34.82	UJ	46.39
2,3',4',5,5'-HexaCB (#167)	0.00001	R		UJ	6.57	UJ	4.79	UJ	4.86	UJ	5.45	UJ	2.52	UJ	4.50
2,3,3',4',5,5'-HexaCB (#189)	0.0000005	R		UJ	0.91	UJ	1.21	UJ	2.00	UJ	1.27	UJ	0.52	UJ	1.47
TOTAL EQUIVALENCY(*):			5.3 J		7.3 J		3.3 J		10 J		11 J		7.8 J		13 J
PERCENT LIPID:			3.21		3.34		2.72		2.79		3.56		3.73		3.36
DILUTION FACTOR:			1		1		1		1		1		1		1
DATE SAMPLED:			07/14/01		07/14/01		07/14/01		07/14/01		07/14/01		07/14/01		07/14/01
DATE OF RECEIPT:			07/17/01		07/17/01		07/17/01		07/17/01		07/17/01		07/17/01		07/17/01
SAMPLE EXTRACTION DATE:			10/08/01		10/08/01		10/08/01		10/08/01		10/08/01		10/08/01		10/08/01
ANALYSIS DATE:			10/13/01		10/13/01		10/13/01		10/13/01		10/13/01		10/13/01		10/13/01
LABORATORY SAMPLE ID:			40038-71-38		40038-71-37		40038-71-42		40038-71-39		40038-71-44		40038-71-45		40038-71-43

* = The values in this column are either the Detection Limits (DL) or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are marked with a "*". The DL values are unmarked.
The EMPC values are not qualified either "J", since they are already indicated.
(1) The Toxic Equivalency Factors (TEFs) are from "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife", Environmental Toxicology and Chemistry, Volume 10A, Number 1(1), December 1991, Table 1, page 200.
Concentrations reported for the following below Performance Based Measurement are flagged (J) or the Data Summary Table are estimated values. Other necessary qualifiers are defined in Table 4.
< = The reported upper limit of the TEF values for the congener mix.