DATE : August 9, 2005
SUBJECT: Region III Data QA Review
FROM : Khin-Cho Thaung
Region III ESAT RPO (3EA20)
TO : Christian Matta
Regional Project Manager (3HS23)

Attached is the organic data validation report for the Big John Savage - Hoult Road Site (Case# 34395; SDG#: C01C5) completed by the Region III Environmental Services Assistance Team (ESAT) contractor under the direction of Region III EAID.

If you have any questions regarding this review, please call me at (410) 305-2743.

Attachment

cc: Tad Yancheski (TETRA TECH DE)

TO #: 0023 TDF #: 0785
DATE: August 5, 2005

SUBJECT: Level M2 Organic Data Validation for Case 34395
SDG: C01C5
Site: Big John Savage Hoult

FROM: Shilpa Udani
Organic Data Reviewer

Mahboobeh Mecanic
Senior Oversight Chemist

TO: Khin-Cho Thaung
ESAT Region 3 Project Officer

OVERVIEW

Case 34395, Sample Delivery Group (SDG) C01C5, consisted of sixteen (16) aqueous samples, two (2) rinsate blanks and one (1) field blank for volatile, semivolatile and pesticides/PCB analyses and one (1) trip blank for volatile analysis only. All samples were submitted to Ceimic Corporation (CEIMIC) for analyses. The sample set included two (2) field duplicate pairs. Samples were analyzed according to Contract Laboratory Program (CLP) Statement of Work (SOW) OLM04.3 through Routine Analytical Services (RAS) program.

SUMMARY

Data were validated according to Region HI Modifications to the National Functional Guidelines for Organic Data Review, Level M3. All samples were successfully analyzed for all target compounds.

NOTES

- Pesticide/PCB samples C01B1, C01B3, C01B5, C01B7, C01C5, C01C9, C01K8, C01L0, C01M6 and C01N1 were associated with method blank (PBLK02) which contained 4,4'-DDT above the CRQL. All these samples had 4,4'-DDT detected at concentrations less than five times (5X) the blank concentration. In addition, sample C01L6, associated with a clean method blank, reported positive result for 4,4'-DDT. All these samples were reextracted by the laboratory one (1) day outside the technical holding time. The reextracted samples reported no positive results. Due to the holding time issue, results from the initial analyses of these samples are reported on the DSFs by the reviewer. 4,4'-DDT is qualified “B” in all of these samples.

- Concentrations of target compounds found in the analysis of trip, field. Rinsate, method and storage blanks are listed below. Only compounds used to qualify data are listed. Samples with concentrations of common laboratory contaminants less than ten times (<10X) blank concentration or with concentration of other contamination less than five times (<5X)blank concentration have been qualified “B” on the DSFs.

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All data for Case 34395, SDG C01C5, were reviewed in accordance with Region III Modifications to the National Functional Guidelines for Organic Data Review, September 1994.

ATTACHMENTS

1) Appendix A  Glossary of Data Qualifier Terms
2) Appendix B  Data Summary Forms
3) Appendix C  Tentatively Identified Compounds (TICs)
4) Appendix D  Chain-of-Custody Records
5) Appendix E  Laboratory Case Narrative

DCN: 34395 - C01C5
GLOSSARY OF DATA QUALIFIER CODES (ORGANIC)

CODES RELATED TO IDENTIFICATION
(confidence concerning presence or absence of compounds)

U = Not detected. The associated number indicates approximate sample concentration necessary to be detected.

NO CODE = Confirmed identification.

B = Not detected substantially above the level reported in laboratory or field blanks.

R = Unusable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.

N = Tentative identification. Consider present. Special methods may be needed to confirm its presence or absence in future sampling efforts.

CODES RELATED TO QUANTITATION
(can be used for both positive results and sample quantitation limits):

J = Analyte present. Reported value may not be accurate or precise.

K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.

L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.

UJ = Not detected, quantitation limit may be inaccurate or imprecise.

UL = Not detected, quantitation limit is probably higher.

OTHER CODES

NJ = Qualitative identification questionable due to poor resolution. Presumptively present at approximate quantity.

Q = No analytical result.
Appendix B

Data Summary Forms
**DATA SUMMARY FORM: VOLATILES**

**Case #: 34395**
**SDG: C01C5**
**Site:** BIG JOHN SALVAGE - HOULT RD
**Lab.:** CEIMIC

**Number of Soil Samples:** 0
**Number of Water Samples:** 20

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AR119794
**DATA SUMMARY FORM: VOLATILES**

Case #: 34395  
SDG: C01C5  
Site: BIG JOHN SALVAGE - HOULT RD  
Lab.: CEIMIC

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**CRQL = Contract Required Quantitation Limit**  
**Action Level Exists**  
**SEE NARRATIVE FOR CODE DEFINITIONS**  
To calculate sample quantitation limits: (CRQL * Dilution Factor)  
Revised 09/99
### DATA SUMMARY FORM: VOLATILES

**Case #: 34395**  
**SDG: C01C5**  
**Site:** BIG JOHN SALVAGE - HOULT RD  
**Lab.:** CE/MIC

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### DATA SUMMARY FORM: VOLATILES

**Case #: 34395**

**Site:**
BIG JOHN SALVAGE - HOULT RD

**Lab.:**
CEIMIC

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**Note:**

**CRQL = Contract Required Quantitation Limit**

**Flag:***

*Action Level Exists

**SEE NARRATIVE FOR CODE DEFINITIONS**

To calculate sample quantitation limits: (CRQL * Dilution Factor)

Revised 09/99
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AR119798
### DATA SUMMARY FORM: VOLATILES

**Case #: 34395**  
**SDG: C01C5**  
**Site:** BIG JOHN SALVAGE - HOULT RD  
**Lab.:** CEIMIC

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**CRQL = Contract Required Quantitation Limit**  
*Action Level Exists**  
SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor)

Revised 09/99
## DATA SUMMARY FORM: VOLATILES

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### Volatile Compound

- Dichlorodifluoromethane
- Chloromethane
- Vinyl Chloride
- Bromomethane
- Chloroethane
- Trichlorofluoromethane
- 1,1-Dichloroethene
- 1,1,2-Trichloro-1,2,2-trifluoroethane
- Acetone
- Carbon Disulfide
- Methyl Acetate
- *Methylene Chloride
- *1,2-Dichlorobenzene
- tert-Butyl Methyl Ether
- *cis-1,2-Dichloroethene
- 2,2-Dibromopropane
- Chloroform
- cis-1,2-Dichloroethene
- Cyclohexane
- 1,1,1-Trichloroethane
- Carbon Tetrachloride
- *Benzene
- 1,2-Dichloropropane
- Trichloroethene
- *Methyl Vinyl Ether
- 1,2-Dichloropropane
- Bromodichloromethane
- cis-1,3-Dichloropropene
- 2,3-Dimethoxypropane
- *Toluene
- Trans-1,3-Dichloropropene
- 1,1,2-Trichloroethane
- Trichloroethane
- 1,1-Dichloroethane
- Trichlorofluoromethane

* indicates not detected.
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**CRQL = Contract Required Quantitation Limit:**

*Action Level Exists*

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor)

Revised 09/99

AR119801
### DATA SUMMARY FORM: BNA

**Case #:** 34395  
**SDG:** C01C5  
**Lab.:** CEIMIC  
**Site:** BIG JOHN SALVAGE - HOULT RD  
**Number of Soil Samples:** 0  
**Number of Water Samples:** 19

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**Notes:**
- CRQL = Contract Required Quantitation Limit
- *Action Level Exists* SEE NARRATIVE FOR CODE DEFINITIONS
- To calculate sample quantitation limits: (CRQL * Dilution Factor)

Revised 09/99
### Case #: 34395

**SDG : C01C5**

**Site:** BIG JOHN SALVAGE - HOULT RD

**Lab.:** CEIMIC

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*"* = Result is reported from dilution analysis.
### DATA SUMMARY FORM: BNA

**Case #: 34395**

**SDG:** C01C5  
**Site:** BIG JOHN SALVAGE - HOULT RD  
**Lab.:** CEIMIC

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**CRQL = Contract Required Quantitation Limit**  
**Action Level Exists**  
**SEE NARRATIVE FOR CODE DEFINITIONS**  

To calculate sample quantitation limits: (CRQL * Dilution Factor)

Revised 09/99
**DATA SUMMARY FORM: BNA**

**Case #: 34395**
**SDG : C01C5**

**Site:** BIG JOHN SALVAGE - HOULT RD

**Lab.:** CEIMIC

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**Semivolatile Compound**

- Bis(2-chloro-1 -chloropropane)
- Hexachloroethane
- 2,4-Dimethylphenol
- 2,4-Dichlorophenol
- 1,1'-Biphenyl
- 1,3-Chloronaphthalene
- 2-Nitroniline
- Dinitroaniline
- 2,6-Dinitrotoluene
- Azoxydinitroaniline
- 3-Nitroaniline

**Units:** ug/L

**Date Sampled:** 7/13/2005

**Time Sampled:** 08:45

**Dilution Factor:** 1.0

**Field QC:**

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**AR119806**
### DATA SUMMARY FORM: BNA

**Case #:** 34395  
**Site:** BIG JOHN SALVAGE - HOULT RD  
**Lab.:** CEIMIC

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**CRQL = Contract Required Quantitation Limit**  
*Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS*  
To calculate sample quantitation limits: (CRQL * Dilution Factor)  
Revised 09/99
**DATA SUMMARY FORM: BNA**

**Case #: 34395**
**SDG: C01C5**
**Lab.: CEIMIC**

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**Semivolatile Compound**

| Phenol   | 10 | 10 | 10 | 10 |
| 2-Chlorophenol | 10 | 10 | 10 | 10 |
| 2-Methylphenol | 10 | 10 | 10 | 10 |
| Bis(2-chloro-1-Chloropropane) | 10 | 10 | 10 | 10 |
| Acetochloroethylene | 10 | 10 | 10 | 10 |
| Hexachloroethane | 10 | 10 | 10 | 10 |
| 1-Nitrobenzene | 10 | 10 | 10 | 10 |
| Isophorone | 10 | 10 | 10 | 10 |
| 2-Nitrophenol | 10 | 10 | 10 | 10 |
| 2,4-Dimethylphenol | 10 | 10 | 10 | 10 |
| Bis(2-Chloroethoxy)methane | 10 | 10 | 10 | 10 |
| 2,4-Dichlorophenol | 10 | 10 | 10 | 10 |
| Naphthalene | 10 | 10 | 10 | 10 |
| 4-Chloroaniline | 10 | 10 | 10 | 10 |
| Hexachlorobutadiene | 10 | 10 | 10 | 10 |
| Caprolactam | 10 | 10 | 10 | 10 |
| 2-Chloro-3-methylphenol | 10 | 10 | 10 | 10 |
| 2-Methylnaphthalene | 10 | 10 | 10 | 10 |
| Hexachlorocyclopentadiene | 10 | 10 | 10 | 10 |
| 2,4,6-Trichlorophenol | 10 | 10 | 10 | 10 |
| 2,4,5-Trichlorophenol | 25 | 25 | 25 | 25 |
| 1,1'-Biphenyl | 10 | 10 | 10 | 10 |
| 2-Chloronaphthalene | 10 | 10 | 10 | 10 |
| 2-Nitroaniline | 25 | 25 | 25 | 25 |
| Dimethylnitroaniline | 10 | 10 | 10 | 10 |
| 2,6-Dinitrotoluene | 10 | 10 | 10 | 10 |
| Acenaphthylene | 10 | 10 | 10 | 10 |
| 3-Nitroaniline | 25 | 25 | 25 | 25 |
Case #: 34395
SDG : C01C5
Site: BIG JOHN SALVAGE - HOULT RD
Lab.: CEIMIC

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**CRQL = Contract Required Quantitation Limit**

*Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor)

Revised 09/99

AR119809
**DATA SUMMARY FORM: PESTICIDES AND PCBS**

Case #: 34395

**SDG:** C01C5

**Site:** BIG JOHN SALVAGE - HOULT RD

**Lab.:** CEIMIC

**Number of Soil Samples:** 0

**Number of Water Samples:** 19

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**Pesticide/PCB Compound:**

- Aldrin
- alpha-HCH
- beta-HCH
- gamma-HCH
- endosulfan I
- Endrin
- 4,4'-DDE
- Endosulfan II
- 3,4'-DDD
- Endosulfan sulfate
- 4,4'-DDE
- *Methoxychlor
- Endrin aldehyde
- alpha-Chlordane
- gamma-Chlordane
- Oxychlordane
*Action Level Exists

**CRQL = Contract Required Quantitation Limit**

To calculate sample quantitation limits: (CRQL * Dilution Factor)

**Revised 09/99**

**SEE NARRATIVE FOR CODE DEFINITIONS**

AR119810
DATA SUMMARY FORM: PESTICIDES AND PCBs

Case #: 34395  
Site:  
BIG JOHN SALVAGE - HOULT RD  
Lab.:  
CEIMIC  

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CRQL = Contract Required Quantitation Limit  
*Action Level Exists  
SEE NARRATIVE FOR CODE DEFINITIONS  
Revised 09/99

To calculate sample quantitation limits: (CRQL * Dilution Factor)
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CRQL = Contract Required Quantitation Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor)

Revised 09/99

AR119812
### DATA SUMMARY FORM: PESTICIDES AND PCBs

**Case #: 34395**  
**Site:** BIG JOHN SALVAGE - HOULT RD  
**Lab:** CEIMIC

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**CRQL = Contract Required Quantitation Limit**  
**SEE NARRATIVE FOR CODE DEFINITIONS**  
To calculate sample quantitation limits: (CRQL * Dilution Factor)  
Revised 09/99

**AR119813**
Appendix C

Tentatively Identified Compounds (TICs)
### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

**Lab Name:** CEIMIC CORP  
**Contract:** 68-W-03-018

**Lab Code:** CEIMIC  
**Case No.:** 34395  
**SAS No.:**  
**SDG No.:** C01C5

**Matrix:** (soil/water) WATER  
**Sample wt/vol:** 1000 (g/mL) ML  
**Level:** (low/med) LOW  
**% Moisture:**  
**Concentrated Extract Volume:** 1000(uL)  
**Injection Volume:** 2.0(uL)  
**GPC Cleanup:** (Y/N) N  
**pH:**  
**Concentration Units:** (ug/L or ug/Kg) ug/L

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**Lab File ID:** Q3274  
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**Date Extracted:** 07/15/05  
**Date Analyzed:** 07/18/05  
**Dilution Factor:** 1.0  
**Extraction:** (Type) CONT  
**Su 08/02/05**

**FORM I SV-TIC**  
**OLM04.3**
## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

**Lab Name:** CEIMIC CORP  
**Lab Code:** CEIMIC  
**Case No.:** 34395  
**SAS No.:**  
**SDG No.:** C01C5  
**Matrix:** (soil/water) WATER  
**Sample wt/vol:** 1000 (g/mL) ML  
**Level:** (low/med) LOW  
**% Moisture:**  
**Concentrated Extract Volume:** 1000(uL)  
**Injection Volume:** 2.0(uL)  
**GPC Cleanup:** (Y/N) N  
**pH:**  
**Number TICs found:** 7

**Concentration Units:** (ug/L or ug/Kg) ug/L

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**SEMICOLATILE ORGANICS ANALYSIS DATA SHEET**

**TENTATIVELY IDENTIFIED COMPOUNDS**

**Lab Name:** CEIMIC CORP  
**Lab Code:** CEIMIC  
**Case No.:** 34395  
**Matrix:** (soil/water) WATER  
**Sample wt/vol:** 1000 (g/mL) ML  
**Level:** (low/med) LOW  
**% Moisture:**  
**Concentrated Extract Volume:** 1000 (uL)  
**Injection Volume:** 2.0 (uL)  
**GPC Cleanup:** (Y/N) N  
**Number TICs found:** 8  
**Concentration Units:** (ug/L or ug/Kg) ug/L

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**Date Analyzed:** 07/18/05  
**Lab Sample ID:** 050571-04  
**Lab File ID:** Q3276  
**Date Extracted:** 07/15/05  
**Extraction Factor:** 1.0  

**CONCENTRATION UNITS:** (ug/L or ug/Kg) ug/L
Lab Name: CEIMIC CORP  
Lab Code: CEIMIC  
Matrix: (soil/water) WATER  
Sample wt/vol: 1000 (g/mL) ML  
Level: (low/med) LOW  
% Moisture: _____ Decanted: (Y/N) N  
Concentrated Extract Volume: 1000 (uL)  
Injection Volume: 2.0 (uL)  
GPC Cleanup: (Y/N) N  
Concentration Units: (ug/L or ug/Kg) ug/L  
Number TICs found: 5

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Date Analyzed: 07/20/05  
Dilution Factor: 1.0  
Extraction: (Type) CONT
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CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L
Appendix D

Chain-of-custody Records
**U.S EPA Region III Analytical Request Form**

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<th>NSF #:</th>
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<td>Preparer:</td>
<td>KYLE SWARTZWELDER</td>
<td>Phone:</td>
<td>302-738-7551</td>
<td>Fax:</td>
<td>302-454-5988</td>
<td>E-mail: <a href="mailto:kyle.swartzwelder@tetratech.com">kyle.swartzwelder@tetratech.com</a></td>
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<td>OSC/RPM:</td>
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<td>215-814-2317</td>
<td>Fax:</td>
<td>215-814-3002</td>
<td>E-mail: <a href="mailto:Matta.Christian@epamail.epa.gov">Matta.Christian@epamail.epa.gov</a></td>
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<td>TAD YANCHESKI</td>
<td>Phone:</td>
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<td>Fax:</td>
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<td>E-mail: <a href="mailto:tad.yancheski@tetratech.com">tad.yancheski@tetratech.com</a></td>
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<td>JIM CLARK</td>
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**Samples Method Parameter Matrix**

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<td>ILM05.3</td>
<td>ICP-AES TAL (DISSOLVED)</td>
<td>Bonner</td>
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Instruction: See Big John Salvage - Hoult Road Site Final Ri/Fs Work Plan - February 2005, Section 4.4 (Identification Of Potential Sampling Approaches And Appropriate Analytical Methods) For A Complete Listing Of All Proposed Analytical Methods.

Please Provide Electronic Data Deliverables For All Data

Requested Regional COC's: 7.21.05
Hi Lisa,

Attached are the two F2L files for the recent sampling at Big John Salvage.

Also... duplicate samples are as follows:

MW-18 dup of MW-15B
MW-19 dup of MW-1A1
MW-20 dup of MW-4B
MW-21 dup of MW-14B
MW-22 dup of MW-8A
SW-UT3-3 Dup of SW-UT-1-3

Judy informed me that you will be on vacation next week. I too will be out all next week. Please let someone know that any questions that require immediate attention should be directed to either Dennis Anderson (dennis.anderson@tetratech.com) or Tad Yancheski (tad.yancheski@tetratech.com)

Thanks!

Kyle
## Organic Traffic Report & Chain of Custody Record

### Region: 3

**Project Code:** T47121.0103  
**Account Code:** 2005T03W302DD2C  
**CERCLIS ID:** WVD054827944  
**Site Name/State:** Big John Salvage GW Round 2/WV

### Project Leader:

Tad Yancheski  
**Action:** Remedial Investigation  
**Sampling Co:** Tetra Tech, Inc.

### ORGANIC SAMPLE No.

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### Additional Sampler Signature(s):  

### Analysis Key:

- **Concentration:** L = Low, M = Low/Medium, H = High
- **Type/Designate:** Composite = C, Grab = G

### Chain of Custody Record

**Relinquished By (Date / Time):**

1.  
2.  
3.  
4.  

**Received By (Date / Time):**

**Case No:** 34395  
**DAS No:** R

**Shipment for Case Complete? N**

**Sample(s) to be used for laboratory QC:**

**Additional Sampler Signature(s):**

**Shipment Iced?**

**TR Number:** 3-035066262-071305-0006  
**REGION COPY**

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*PR provides preliminary results. Requests for preliminary results will increase analytical costs.*

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602
**EPA USEPA Contract Laboratory Program**

**Organic Traffic Report & Chain of Custody Record**

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<td>Project Leader: Tad Yancheski</td>
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<td>Action: Remedial Investigation</td>
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<td>Sampling Co: Tetra Tech, Inc.</td>
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**Chain of Custody Record**

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**ORGANIC SAMPLE No.**

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**TR Number:** 3-035066262-071305-0003

**Analysis Key:**

- Concentration: L = Low, M = Low/Medium, H = High
- Type/Designate: Composite = C, Grab = G

**Shipment for Case Complete?** N

**Sample(s) to be used for laboratory QC:**

**Additional Sampler Signature(s):**

**Chain of Custody Seal Number:**
**USEPA Contract Laboratory Program**

**Organic Traffic Report & Chain of Custody Record**

**Region:** 3  
**Project Code:** T47121.0103  
**Account Code:** 2005T03W302DD2C  
**CERCLIS ID:** WVD0054827944  
**Spill ID:**  
**Site Name/State:** Big John Salvage GW Round 2/WV  
**Project Leader:** Tad Yancheski  
**Action:** Remedial Investigation  
**Sampling Co:** Tetra Tech, Inc.

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**Additional Sampler Signature(s):**

**Analysis Key:**

- **Concentration:** L = Low, M = Low/Medium, H = High
- **Type/Designate:** Composite = C, Grab = G

**Shipment for Case Complete? N**

**Sample(s) to be used for laboratory QC:**

**Chain of Custody Record**

- **Sampler:**
  - **Relinquished By:** (Date/Time)
  - **Received By:** (Date/Time)

**Chain of Custody Seal Number:**

**Analysis Key:**

- **BNA = CLP TCL Semivolatile, VOA = CLP TCL Volatile**

**TR Number:** 3-035066262-071305-0009

**Notes:**

- PR provides preliminary results. Requests for preliminary results will increase analytical costs.
- Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4202.
### USEPA Contract Laboratory Program

#### Organic Traffic Report & Chain of Custody Record

**Region:** 3  
**Project Code:** T47121.0103  
**Account Code:** 2005T03W302DD2C  
**CERCLIS ID:** WV0054827944  
**Spill ID:**  
**Site Name/State:** Big John Salvage GW Round 2/WV  
**Project Leader:** Tad Yancheski  
**Action:** Remedial Investigation  
**Sampling Co:** Tetra Tech, Inc.

**Date Shipped:** 7/13/2005  
**Carrier Name:** FedEx  
**Airbill:** 851172099890  
**Shipped to:** Cemico Corporation  
10 Dean Knauss Drive  
Narragansett RI 02882  
(401) 782-8900

### Chain of Custody Record

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### ORGANIC MATRIX/ CONC/ ANALYSIS/ TAG No./ STATION SAMPLE COLLECT INORGANIC QC

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<th>ANALYSIS/ TYPE</th>
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<th>STATION LOCATION</th>
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**Shipment for Case Complete? N**

**Sample(s) to be used for laboratory QC:**

**Additional Sampler Signature(s):**

**Analysis Key:**

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- **Type/Designate:** Composite = C, Grab = G

**TR Number:** 3-035066262-071305-0005

**Chain of Custody Seal Number:**

**Shipment Iced?**

**PR provides preliminary results. Requests for preliminary results will increase analytical costs.**

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4209
**Organic Traffic Report & Chain of Custody Record**

**Region:** 3  
**Project Code:** T47121.0103  
**Account Code:** 2000T03W302DD2C  
**CERCLIS ID:** WVD054827944  
**Spill ID:**  
**Site Name/State:** Big John Salvage GW Round 2/WV  
**Project Leader:** Tad Yancheski  
**Action:** Remedial Investigation  
**Sampling Co.:** Tetra Tech, Inc.

**Date Shipped:** 7/12/2005  
**Carrier Name:** FedEx  
**Airbill:** 851172099618  
**Shipped to:** Ceimic Corporation  
10 Dean Knauss Drive  
Narragansett RI 02882  
(401) 782-8900

**Chain of Custody Record**

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<th>SAMPLE COLLECT DATE/TIME</th>
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**Analysis Key:**

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- **Type/Designate:** Composite = C, Grab = G  

**Sample(s) to be used for laboratory QC:**  
**Additional Sampler Signature(s):**  
**Chain of Custody Seal Number:**

**Shipment for Case Complete? N**

**Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602**

**TR Number:** 3-035066262-071205-0003  
**REGION COPY**  
*PR provides preliminary results. Requests for preliminary results will increase analytical costs.*
### USEPA Contract Laboratory Program
**Organic Traffic Report & Chain of Custody Record**

**Region:** 3  
**Project Code:** 747120.0103  
**Account Code:** 200503W302DD2C  
**CERCLIS ID:** WV00564727944  
**Spill ID:**  
**Site Name/State:** Big John Salvage GW Round 2/WV  
**Project Leader:** Tad Yancheski  
**Action:** Remedial Investigation  
**Sampling Co:** Tetra Tech, Inc.

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**Organic Sample No.**  
**Matrix/Sample**  
**Conc/Type**  
**Analysis/Turnaround**  
**Tag No./Preservative/Bottles**  
**Station Location**  
**Date/Time Sample Collect**  
**Sample Collect Date/Time**  
**Inorganic Sample No.**

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<td>VOA (21)</td>
<td>4706 (HCL), 4707 (HCL) (2)</td>
<td>BJS-MW04B-0705</td>
<td>S: 7/12/2005 9:50</td>
<td>MC01D3, MC01D4</td>
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<td>Ground Water</td>
<td>L/G</td>
<td>VOA (21)</td>
<td>4716 (HCL), 4717 (HCL) (2)</td>
<td>BJS-MW04C-0705</td>
<td>S: 7/12/2005 8:40</td>
<td>MC01D5, MC01D6</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>C01K8</td>
<td>Ground Water</td>
<td>L/G</td>
<td>BNA (21), PEST (21), VOA (21)</td>
<td>5057 (Ice Only), 5058 (Ice Only), 5059 (Ice Only), 5060 (Ice Only), 5061 (HCL), 5062 (HCL) (6)</td>
<td>BJS-MW17B-0705</td>
<td>S: 7/12/2005 14:40</td>
<td>MC01K8, MC01K9</td>
<td>-</td>
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**Analysis Key:**  
- **Concentration:** L = Low, M = Low/Medium, H = High  
- **Type/Designate:** Composite = C, Grab = G

**TR Number:** 3-035066262-071205-0003  
**Chain of Custody Seal Number:**

**Shipment for Case Complete? N**  
**Sample(s) to be used for laboratory QC:**  
**Additional Sampler Signature(s):**  
**Chain of Custody Seal Number:**

---

**PR provides preliminary results. Requests for preliminary results will increase analytical costs.**

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4202.
Appendix E

Laboratory Case Narrative
B. SVGA

MS17 HP6890 GC, HP5973MS, 30 m, 25 mm ID, ZB-5 fused silica capillary column

C. PEST/PCB

AD6: HP5890II (GC8) using 30m x 0.53mm ID, DB5 megabore column
AD7: HP5890II (GC8) using 30m x 0.53mm ID, DB35 megabore column

(3) Sample Information

An "x" qualifier is flagged by Target Thru-put software whenever the data is manually edited. The letter "M" for GC/MS and for GC is used on the raw data of the quantitation report whenever a manual integration is performed. Manual integrations are performed on GC/MS and GC standards and samples when computer generated integration picks up only a portion of the chromatographic peak, due to software limitations. When manual integrations are required, these integrations are performed using sound defensible professional judgment, in order to report accurate data. Each manual integration is signed and dated, and reviewed by both the lab supervisor and the GC/MS Interpretation Specialist for GC/MS or the Organic Lab Manager for Pest/PCB.

A. VOA Fraction (Method CLP SOW OLM04.3)

The pHs of the water samples were:

<table>
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<th>Client ID:</th>
<th>Ceamic ID:</th>
<th>pH:</th>
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<td>050571-15</td>
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<td>C01M4</td>
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<tr>
<td>C01N1</td>
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<tr>
<td>C01N4</td>
<td>050571-09</td>
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</tr>
</tbody>
</table>
Manual quantitations were performed on one or more of the process files associated with this SDG, including sample C01D1. One base surrogate failed quality control criteria in C01C9 and C01D5.

C. PEST/PCB Fraction (Method CLP SOW OLM04.3)

All samples were originally extracted and analyzed within their respective holding times. Due to contamination in the extractions laboratory, the method blank PBLK02 (P0715-B2) contained 4,4'-DDT above the CRQL. The following samples were also affected by this contamination: C01B3, C01B7, C01C5, C01K8, C01L6, C01M6 and C01N1. All samples associated with the contaminated method blank and also sample C01L6, which showed a DDT hit even though the associated blank was not contaminated, were re-extracted 2 days out of hold time. None of the re-extracts showed DDT above the CRQL.

No other non-compliances were noted.

Deviations from the SOW

None other than specified above.

End of SDG Narrative

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature.

Karolina Jozwiak
Document Control Officer

07/26/2005
Date