Memorandum

DATE: **JUNE 24, 2004**

TO: Cary A. Pooler, URS Diamond

FROM: Sharon A. Nordstrom

RE: **BARKSDALE RESIDENT WELL SAMPLING 5/04**

Enclosed is the data report for the residential well sample collected on May 26, 2004 for the analyses listed below. The sample was received at the laboratory in good condition and within temperature requirements.

Matrix	Laboratory	Analysis	Analytical Method
Groundwater	STL- Denver	Nitroaromatic/ nitramine organics	SW846 8321A

The STL-Denver data deliverable included both a hard-copy report and an electronic data file. The electronic data was reviewed via the automated DuPont Data Review (DDR) process. As noted on the DDR narrative report, the matrix spike and spike duplicate were recovered below the laboratory QC limits for the compounds HMX, Nitroglycerin, and 1, 3, 5-Trinitrobenzene, and data qualifiers were applied to the reported results as applicable. In addition, the data was submitted to Environmental Standards, Inc. for independent, third-party validation. A copy of the Environmental Standards Quality Assurance Review is included herein.

No positive detections of nitroaromatic/nitramine compounds were reported in this sample. The household was re-sampled due to difficulties encountered with the analysis of the sample collected in April, 2004. STL was able to complete the analysis of the replacement sample successfully (without dilution).

Please do not hesitate to contact me if you have any questions regarding this report.

BARKSDALE WORKS
RESIDENT WELL SAMPLING 5/04

June 24, 2004

Prepared for

Cary A. Pooler (URS Diamond-Louisville)

Prepared by

URS Diamond
Laboratory Services – Sharon A. Nordstrom
Barley Mill Plaza, Building 27
Wilmington, DE 19805

BARKSDALE WORKS
RESIDENT WELL SAMPLING 5/04

June 24, 2004

Prepared for

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Prepared by

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Please do not hesitate to contact me if you have any questions regarding this report.

Sitename: **BARKSDALE WORKS**
Project: **RESIDENT WELLS 5/04**

DDR Standard Used: **LABSTATS**

Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit. The actual detection limits may be higher than reported.

Sampleno	Datesmpl	Lab Id	Method	Analyte	Rsltmod	Result	Unit	Mdl	Pql	Qual
BAR-G-30380N-INFLOW	5/26/04	GG7PG1-AA FS	8321	NITROGLYCERIN	<	0.039	UG/L	0.039	0.12	UJ
BAR-G-30380N-INFLOW	5/26/04	GG7PG1-AA FS	8321	HMX	<	0.016	UG/L	0.016	0.12	UJ
BAR-G-30380N-INFLOW	5/26/04	GG7PG1-AA FS	8321	1,3,5-TRINITROBENZENE	<	0.015	UG/L	0.015	0.12	UJ

Corporate Environmental Database
Lab Analysis Report
with Inhouse Qualifier and Review

Site: BARKSDALE WORKS
Project: RESIDENT WELLS 5/04
Reporting Limit: MDL

Sampling Point:	30380N-INFLOW	Sampleno:	BAR-G-30380N-INFLOW
Date Sampled:	5/26/04	Sample Type:	Groundwater
Lab Sample ID:	GG7PG1-AA FS	Lab:	QES-DEN

Analyte/Parameter	Dilution		Result	Lab Qual	In-House Qual	Review	Unit	MDL	PQL	Date Analyzed
Method No: 8321	Prep Method:		SW3535			Pre Prep Method:				
Analytes										
1,3,5-trinitrobenzene	1	<	0.015		UJ	UJ	UG/L	0.015	0.12	Jun 02, 2004
1,3-dinitrobenzene	1	<	0.014				UG/L	0.014	0.12	Jun 02, 2004
2,4,6-trinitrotoluene	1	<	0.015				UG/L	0.015	0.12	Jun 02, 2004
2,4-dinitrotoluene	1	<	0.019				UG/L	0.019	0.12	Jun 02, 2004
2,6-dinitrotoluene	1	<	0.015				UG/L	0.015	0.12	Jun 02, 2004
2-amino-4,6-dinitrotoluene	1	<	0.012				UG/L	0.012	0.12	Jun 02, 2004
2-nitrotoluene	1	<	0.023				UG/L	0.023	0.12	Jun 02, 2004
3-nitrotoluene	1	<	0.019				UG/L	0.019	0.12	Jun 02, 2004
4-amino-2,6-dinitrotoluene	1	<	0.015				UG/L	0.015	0.12	Jun 02, 2004
4-nitrotoluene	1	<	0.018				UG/L	0.018	0.12	Jun 02, 2004
Hmx	1	<	0.016		UJ	UJ	UG/L	0.016	0.12	Jun 02, 2004
Nitrobenzene	1	<	0.020				UG/L	0.020	0.12	Jun 02, 2004
Nitroglycerin	1	<	0.039		UJ	UJ	UG/L	0.039	0.12	Jun 02, 2004
Petn	1	<	0.031				UG/L	0.031	0.12	Jun 02, 2004
Rdx	1	<	0.012				UG/L	0.012	0.12	Jun 02, 2004
Tetryl	1	<	0.012				UG/L	0.012	0.12	Jun 02, 2004
Surrogates										
Nitrobenzene-d5	1		99 RPR				UG/L			Jun 02, 2004

Corporate Environmental Database
Lab Analysis QAQC Report

Site: BARKSDALE WORKS
Project: RESIDENT WELLS 5/04

06/24/2004

Batch Identifier 128307 SW3535 8321 30-MAY-04 4151010 LCMS2

Method Number: 8321 Prep Method: SW3535 Pre-prep:
Batch Start Date: 05/30/2004 Intrument: LCMS2 Batch Number:

Analyte/Parameter	Result	Unit	MDL	PQL	RPR	RPR Limits Min	RPR Limits Max	RPD	RPD Max
Sample Type LCS	Lab Sample ID: GHC931-AC LCS			Lab: QES-DEN					
1,3,5-TRINITROBENZENE	0.439	UG/L	0.015	NS	88	64	137		
1,3-DINITROBENZENE	0.490	UG/L	0.014	NS	98	70	127		
2,4,6-TRINITROTOLUENE	0.480	UG/L	0.015	NS	96	43	133		
2,4-DINITROTOLUENE	0.477	UG/L	0.019	NS	95	65	129		
2,6-DINITROTOLUENE	0.488	UG/L	0.015	NS	98	66	128		
2-AMINO-4,6-DINITROTOLUENE	0.498	UG/L	0.012	NS	100	69	131		
2-NITROTOLUENE	0.489	UG/L	0.023	NS	98	17	105		
3-NITROTOLUENE	0.489	UG/L	0.019	NS	98	23	105		
4-AMINO-2,6-DINITROTOLUENE	0.473	UG/L	0.015	NS	95	69	128		
4-NITROTOLUENE	0.493	UG/L	0.018	NS	99	26	114		
HMX	0.476	UG/L	0.016	NS	95	53	169		
NITROBENZENE	0.503	UG/L	0.020	NS	101	27	120		
NITROGLYCERIN	0.415	UG/L	0.039	NS	83	43	154		
PETN	0.414	UG/L	0.031	NS	83	34	173		
RDX	0.488	UG/L	0.012	NS	98	62	127		
TETRYL	0.420	UG/L	0.012	NS	84	40	152		
NITROBENZENE-D5	97 RPR	UG/L		NS	97	39	114		
Sample Type MB	Lab Sample ID: GHC931-AA MB			Lab: QES-DEN					
1,3,5-TRINITROBENZENE	< 0.015	UG/L	0.015	0.12					
1,3-DINITROBENZENE	< 0.014	UG/L	0.014	0.12					
2,4,6-TRINITROTOLUENE	< 0.015	UG/L	0.015	0.12					
2,4-DINITROTOLUENE	< 0.019	UG/L	0.019	0.12					
2,6-DINITROTOLUENE	< 0.015	UG/L	0.015	0.12					
2-AMINO-4,6-DINITROTOLUENE	< 0.012	UG/L	0.012	0.12					
2-NITROTOLUENE	< 0.023	UG/L	0.023	0.12					
3-NITROTOLUENE	< 0.019	UG/L	0.019	0.12					
4-AMINO-2,6-DINITROTOLUENE	< 0.015	UG/L	0.015	0.12					
4-NITROTOLUENE	< 0.018	UG/L	0.018	0.12					
HMX	< 0.016	UG/L	0.016	0.12					
NITROBENZENE	< 0.020	UG/L	0.020	0.12					
NITROGLYCERIN	< 0.039	UG/L	0.039	0.12					
PETN	< 0.031	UG/L	0.031	0.12					
RDX	< 0.012	UG/L	0.012	0.12					
TETRYL	< 0.012	UG/L	0.012	0.12					
NITROBENZENE-D5	97 RPR	UG/L			97	44	124		
Sample Type MS	Lab Sample ID: GG7PG1-AC MS			Lab: QES-DEN					
1,3,5-TRINITROBENZENE	0.338	UG/L	0.015	NS	68	70	126		
1,3-DINITROBENZENE	0.465	UG/L	0.014	NS	93	68	125		
2,4,6-TRINITROTOLUENE	0.444	UG/L	0.015	NS	89	59	129		
2,4-DINITROTOLUENE	0.468	UG/L	0.019	NS	94	64	124		
2,6-DINITROTOLUENE	0.467	UG/L	0.015	NS	93	67	124		
2-AMINO-4,6-DINITROTOLUENE	0.448	UG/L	0.012	NS	90	68	126		
2-NITROTOLUENE	0.482	UG/L	0.023	NS	96	25	99		
3-NITROTOLUENE	0.499	UG/L	0.019	NS	100	27	104		
4-AMINO-2,6-DINITROTOLUENE	0.440	UG/L	0.015	NS	88	63	125		
4-NITROTOLUENE	0.459	UG/L	0.018	NS	92	33	108		
HMX	0.218	UG/L	0.016	NS	44	52	158		
NITROBENZENE	0.507	UG/L	0.020	NS	101	40	110		
NITROGLYCERIN	0.141	UG/L	0.039	NS	28	56	148		
PETN	0.303	UG/L	0.031	NS	61	35	177		
RDX	0.491	UG/L	0.012	NS	98	61	123		
TETRYL	0.391	UG/L	0.012	NS	78	53	148		
NITROBENZENE-D5	97 RPR	UG/L		NS	97	44	124		

Corporate Environmental Database
Lab Analysis QAQC Report

Site: BARKSDALE WORKS
Project: RESIDENT WELLS 5/04

Analyte/Parameter	Result	Unit	MDL	PQL	RPR	RPR Limits Min	RPR Limits Max	RPD	RPD Max
Sample Type MSD	Lab Sample ID: GG7PG1-AD MSD			Lab: QES-DEN					
1,3,5-TRINITROBENZENE	0.334	UG/L	0.015	NS	67	70	126	1.1	40
1,3-DINITROBENZENE	0.449	UG/L	0.014	NS	90	68	125	3.6	40
2,4,6-TRINITROTOLUENE	0.409	UG/L	0.015	NS	82	59	129	8.2	40
2,4-DINITROTOLUENE	0.440	UG/L	0.019	NS	88	64	124	6.2	40
2,6-DINITROTOLUENE	0.462	UG/L	0.015	NS	92	67	124	1.1	40
2-AMINO-4,6-DINITROTOLUENE	0.443	UG/L	0.012	NS	89	68	126	1.0	40
2-NITROTOLUENE	0.470	UG/L	0.023	NS	94	25	99	2.6	40
3-NITROTOLUENE	0.494	UG/L	0.019	NS	99	27	104	0.95	40
4-AMINO-2,6-DINITROTOLUENE	0.423	UG/L	0.015	NS	85	63	125	4.0	40
4-NITROTOLUENE	0.461	UG/L	0.018	NS	92	33	108	0.54	40
HMX	0.247	UG/L	0.016	NS	49	52	158	13	40
NITROBENZENE	0.464	UG/L	0.020	NS	93	40	110	8.8	40
NITROGLYCERIN	0.249	UG/L	0.039	NS	50	56	148	56	40
PETN	0.374	UG/L	0.031	NS	75	35	177	21	40
RDX	0.466	UG/L	0.012	NS	93	61	123	5.3	40
TETRYL	0.313	UG/L	0.012	NS	63	53	148	22	40
NITROBENZENE-D5	90 RPR	UG/L		NS	90	44	124		

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
BAR-G-30380N-INFLOW	05/26/2004	GG7PG1-AA FS	QES-DEN

Chain of Custody Record

CHAIN OF CUSTODY NUMBER 020325

SEVERN TRENT STL

Severn Trent Laboratories, Inc.

STL Denver

STL4149 (1202)

Client	Project Manager	Date	Page 1 of 4
E.I. Dupont De Nemours	ADQM AP Services	05/18/2004	
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Location**	**Analysis**
Barley Mill Plaza Building 27	(000) / (000)	STL Denver	
City / **State** / **Zip Code**	**Site Contact**		
Wilmington / DE / 19805	JON HAMMERBERG		
Project Number/Name	**Carrier/Waybill Number**		
BAR			

Contract/Purchase Order/Quote Number

CONTRACT / PURCHASE ORDER # : 7035-507355-772000/LBIO-65011 QUOTE: 39097

Sample I.D. Number and Description	Date	Time	Sample Type	Containers: Volume	Containers: Type	Containers: No.	Preservative	Condition on Receipt/Comments	Analysis: EXP832 1L X
BAR-G-30380N-INFLOW	5/26/04	0930	WATER	1L	AMBER	2	None		X

Special Instructions: Protocol C

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] Disposal By Lab [ ] Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: [X] Normal [ ] Rush [ ] Other _____

QC Level: [ ] I. [ ] II. [ ] III.

Project Specific Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By	5/18/04	1135	1. Received By	5/23/04	1600
2. Relinquished By	5/26/04	1130	2. Received By	5/27/04	0905
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

QUALITY ASSURANCE REVIEW OF THE AQUEOUS SAMPLE COLLECTED ON MAY 26, 2004 FOR THE DUPONT CORPORATE REMEDIATION GROUP 5/04 GROUNDWATER SAMPLING PROJECT AT THE BARKSDALE, WISCONSIN FACILITY

June 23, 2004

Prepared for:

DUPONT CORPORATE REMEDIATION GROUP
Barley Mill Plaza, Bldg. 27
Rts. 141 and 48
Wilmington, DE 19805

Prepared by:

ENVIRONMENTAL STANDARDS, INC.
1140 Valley Forge Road
P.O. Box 810
Valley Forge, PA 19482-0810

TABLE OF CONTENTS

Executive Summary

An analytical quality assurance review was performed on data for the three aqueous samples (including quality control samples) collected in association with the DuPont Corporate Remediation Group 5/04 Groundwater Sampling Project at the Barksdale Facility in Barksdale, Wisconsin. The organic analyses were performed by an SW-846 method. A comprehensive Contract Laboratory Program (CLP)-like raw data package was prepared by the laboratory and was reviewed by Environmental Standards.

The quality of the data is acceptable; however, the following qualifications were made.

- The results for HMX; 1,3,5-trinitrobenzene; and nitroglycerine in the sample were qualified due to low matrix spike and matrix spike duplicate recoveries.

Reporting errors were not identified during the quality assurance review.

Introduction

This quality assurance (QA) review is based upon a rigorous examination of data generated from the three aqueous samples (including quality control [QC] samples) that were collected on May 26, 2004, as part of the DuPont Corporate Remediation Group 5/04 Groundwater Sampling Project at the Barksdale Facility in Barksdale, Wisconsin. The samples that have undergone a QA review are listed on Table 1. Table 1 also presents the field sample number, laboratory sample number, laboratory project number, collection date, and parameter analyzed and reviewed for each sample.

This review has been performed with guidance from the "National Functional Guidelines for Organic Data Review" (US EPA, 2/94).

The reported analytical results are presented on the laboratory analysis reports included in Section 2, "Target Analyte Summary." Data were examined to determine the usability of the analytical results and compliance relative to requirements specified by "Test Methods for Evaluating Solid Waste" (SW-846, Third Revision, 1986, and updates as applicable). In addition, the deliverables prepared according to a Contract Laboratory Program-like data package were evaluated. Details of this QA review are presented in Section 1 of this report.

This critical QA review identifies data quality issues for specific samples and specific evaluation criteria. Data not qualified in this report should be considered valid based on the QC criteria that have been reviewed.

TABLE 1

SUMMARY OF GROUNDWATER SAMPLE DATA REVIEWED

DUPONT BARKSDALE, WISCONSIN FACILITY

DuPont Corporate Remediation Group Sample Identification	Laboratory Sample Number	Project Number	Date of Sample Collection	Parameter Analyzed and Reviewed
BAR-G-30380N-INFLOW	GG7PG	D4E270285	5/26/04	E
BAR-G-30380N-INFLOWMS (Matrix Spike)	GG7PGMS	D4E270285	5/26/04	E
BAR-G-30380N-INFLOWMSD (Matrix Spike Duplicate)	GG7PGMSD	D4E270285	5/26/04	E

NOTE:

E - Nitroaromatics and Nitroamines by SW-846 Method 8321A (Modified per STL SOP No. DEN-LC-0010, Revision No. 3) (3 analyses).

Section 1 Quality Assurance Review

A. Organic Data

The organic analyses of three aqueous samples (including QC samples) collected as part of the DuPont Corporate Remediation Group (DuPont) 5/04 Groundwater Sampling Project at the Barksdale, Wisconsin, Facility on May 26, 2004, were performed by Severn Trent Laboratories, Inc. (STL) in Denver, Colorado. The samples were collectively analyzed for nitroaromatics and nitroamines according to SW-846 Method 8321A, as specified in "Test Methods for Evaluating Solid Waste" (SW-846, Third Edition, Final Update II, September, 1994) and modified as specified in STL proprietary Standard Operating Procedure (SOP) No. DEN-LC-0010 (Revision No. 3). This modified method uses liquid chromatography with a thermospray interfaced to a mass spectrometer (LC/TSP/MS). These analyses are identified on Table 1. The data were presented in one Contract Laboratory Program (CLP)-like data package.

The findings offered in this report are based upon a rigorous review of the following:

- sample holding times
- blank analysis results
- surrogate recoveries
- matrix spike (MS) and MS duplicate (MSD) recoveries and precision
- quantitation of results
- sample condition upon laboratory receipt
- initial and continuing calibrations
- analytical sequence
- laboratory control sample (LCS) recoveries
- qualitative identification

The analytical results for the organic compounds are provided as a summary of the data in Section 2 of this report.

Data Package Deliverables

Overall, the organic data quality is good. One deficiency was observed for the original data package received. Reporting errors were not identified during the quality assurance review. The following deficiency does not affect data usability. Usability is addressed in the Data Evaluation section.

Noncorrectable Deficiency

- The laboratory analyzed one continuing calibration verification (CCV) standard with a concentration of 50 µg/L. According to STL SOP No. DEN-LC-0010 (Section 10.6.1, pg. 14 of 33), the concentration of the CCV standards should be "100 µg/L." In the data reviewer's opinion, there was no impact on data quality due to this issue.

Data Evaluation

With respect to data usability, the principal area of concern is low MS and MSD recoveries. Based on a rigorous review of the data provided, the following organic data qualifier is offered. The following data usability issue represents an interpretation of the QC results obtained for the project samples. Quite often, data qualifications address issues relating to sample matrix problems. Similarly, the data validation guidelines routinely specify areas of the data that require qualification, yet the methods used for analysis may not require corrective action by the laboratory. Accordingly, the following data usability issue should not be construed as an indication of laboratory performance.

Organic Data Qualifier

- The method detection limits (MDLs) and practical quantitation limits (PQLs) for HMX; 1,3,5-trinitrobenzene; and nitroglycerine in sample BAR-G-30380N-INFLOW may be higher than reported, and the "not-detected" results have been flagged "UJ" on the qualified analysis report. Low recoveries (<laboratory QC limits) were observed for HMX; 1,3,5-trinitrobenzene; and nitroglycerine in the associated MS and MSD analyses.

A complete support documentation of this organic QA review is provided in Section 3 of this report.

B. Conclusions

Based on this QA review, a few organic compounds results were qualified due to low MS and MSD recoveries. In order to use any of the data, the data user should understand the qualifications and limitations as specified in this QA review. The Laboratory Case Narrative and Project Chain-of-Custody Records are presented in Section 4 of this report.

Report prepared by:

Konstadina Vlahogiani, M.S.
Senior Quality Assurance Chemist III/
Project Manager

Report reviewed by:

Donald J. Lancaster, M.S.
Senior Quality Assurance Chemist II

Report reviewed and approved by:

David R. Blye, CEAC
Quality Assurance Specialist/
Principal

ENVIRONMENTAL STANDARDS, INC.
1140 Valley Forge Road
P.O. Box 810
Valley Forge, PA 19482-0810

(610) 935-5577

Date: 6/23/04

SECTION 2

TARGET ANALYTE SUMMARY

E.I. DUPONT DE NEMOURS AND CO

Client Sample ID: BAR-G-30380N-INFLOW

HPLC

Lot-Sample #...: D4E270285-001 **Work Order #...:** GG7PG1AA **Matrix.....:** WATER
Date Sampled...: 05/26/04 09:30 **Date Received..:** 05/27/04
Prep Date.....: 05/30/04 **Analysis Date..:** 06/02/04
Prep Batch #...: 4151010 **Analysis Time..:** 02:12
Dilution Factor: 1
Method.....: SW846 8321A

PARAMETER	RESULT		REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND		0.12	ug/L	0.015
2-Amino-4,6-dinitrotoluene	ND		0.12	ug/L	0.012
1,3-Dinitrobenzene	ND		0.12	ug/L	0.014
2,4-Dinitrotoluene	ND		0.12	ug/L	0.019
2,6-Dinitrotoluene	ND		0.12	ug/L	0.015
HMX	ND	UJ	0.12	ug/L	0.016
Nitrobenzene	ND		0.12	ug/L	0.020
Nitroglycerin	ND	UJ	0.12	ug/L	0.039
3-Nitrotoluene	ND		0.12	ug/L	0.019
2-Nitrotoluene	ND		0.12	ug/L	0.023
4-Nitrotoluene	ND		0.12	ug/L	0.018
PETN	ND		0.12	ug/L	0.031
RDX	ND		0.12	ug/L	0.012
Tetryl	ND		0.12	ug/L	0.012
1,3,5-Trinitrobenzene	ND	UJ	0.12	ug/L	0.015
2,4,6-Trinitrotoluene	ND		0.12	ug/L	0.015

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	99	(44 - 124)

KV 6/28/04

ORGANIC DATA QUALIFIERS

ND	The compound was not detected at or above the associated numerical value.
U	This compound should be considered "not detected" because it was detected in a blank at a similar level.
J	Quantitation is approximate due to limitations identified during the quality assurance review (data validation).
R	Unusable result; compound may or may not be present in this sample.
UJ	This compound was not detected, but the detection limit is probably higher due to a low bias identified during the quality assurance review.