

SBI014

# TestAmerica, Incorporated

## ANALYTICAL REPORT

Kevin Wildman  
HULL & ASSOC. (Dublin)  
6397 Emerald Parkway  
Suite 200  
Dublin, OH 43016

12/06/2002

Job Number: 02.23910

Enclosed is the analytical report for the following samples submitted to the Dayton Division of TestAmerica, Inc. for analysis:

<u>Sample Number</u>	<u>Sample Description</u>	<u>Date Taken</u>	<u>Date Received</u>
805313	SBI013:HFB3:S000020:505	11/18/2002	11/22/2002
805314	SBI013:HFB8:S000020:505	11/18/2002	11/22/2002
805315	SBI013:HP3D:G111802:505	11/18/2002	11/22/2002
805316	SBI013:HP3S:G111802:505	11/18/2002	11/22/2002

TestAmerica, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed.

Reproduction of this analytical report is permitted only in its entirety.

Enclosure



Approved By

# TestAmerica, Incorporated

PAGE 2 of 19

## ANALYTICAL REPORT

Kevin Wildman  
 HULL & ASSOC. (Dublin)  
 6397 Emerald Parkway  
 Suite 200  
 Dublin, OH 43016

12/06/2002

Job Number: 02.23910

Client Project ID: South Bend Indiana SBI013

**SAMPLE NO.** 805313      **SAMPLE DESCRIPTION** SBI013:HFB3:S000020:505      **DATE/TIME TAKEN** 11/18/2002 10:20

	Result	Units	Reporting		Date Analyzed	Time Analyzed	Prep Batch	Run Batch	Anal.	
			Limit	Flag					Init.	Method Reference
Dry Weight	92.6	%	0.1		11/25/2002	15:50		2100	anb	SM 2540 G.
TCLP - METALS, ICP	Complete		Complete		12/02/2002	20:28		2959	tpw	SW 6010B
TCLP - Arsenic, ICP	<0.50	mg/L	<0.50		12/02/2002	13:03	3358	4067	emd	SW 6010B
TCLP - Barium, ICP	0.62	mg/L	<0.10		12/02/2002	13:03	3358	4044	emd	SW 6010B
TCLP - Cadmium, ICP	<0.15	mg/L	<0.15		12/02/2002	13:03	3358	4001	emd	SW 6010B
TCLP - Chromium, ICP	<0.20	mg/L	<0.20		12/02/2002	13:03	3358	3983	emd	SW 6010B
TCLP - Copper, ICP	<0.10	mg/L	<0.10		12/02/2002	13:03	3358	3984	emd	SW 6010B
TCLP - Lead, ICP	<0.40	mg/L	<0.40		12/02/2002	13:03	3358	3995	emd	SW 6010B
TCLP - Mercury	<0.0010	mg/L	<0.0010		11/27/2002	10:22	1995	2018	jdm	SW 7470A
TCLP - Selenium, ICP	<0.50	mg/L	<0.50		12/02/2002	13:03	3358	4046	emd	SW 6010B
TCLP - Silver, ICP	<0.20	mg/L	<0.20		12/02/2002	20:28	3358	4202	tpw	SW 6010B
TCLP - Zinc, ICP	<0.25	mg/L	<0.25		12/02/2002	13:03	3358	3940	emd	SW 6010B
TCLP Prep ICP	Complete		Complete		11/26/2002	18:30	3358		mjs	SW 3010A
TCLP Mercury Prep	Complete		Complete		11/26/2002	15:30	1995		jdm	SW 7470A
Corrosivity (pH)	8.36	S.U.			11/26/2002			751	dgr	SW 9040
Ignitability of Solids	>93.8	Degree C		Note	11/25/2002			122	mss	SW 1010 (Mod)
Reactive Sulfide	<125	mg/Kg	<125		12/05/2002			657	055	SW 7.3.4.1
Reactive Cyanide	<25	mg/Kg	<25	RPD	12/05/2002			673	055	SW 7.3.3.2
TCLP EXTRACTION INORGANIC	Complete		Complete		11/25/2002			1444	smd	SW 1311
Prep, BNA Non-Aq	SW 3545		Complete		11/25/2002			1225	mhg	

**VOLATILE COMPOUNDS-8260 Non-Aq**

8260 - SW846 (Non-aq)	Complete		Complete		11/25/2002			2530	jxc	
Acetone	<108	ug/kg dw	<108		11/25/2002			2530	jxc	SW 8260A
Benzene	<5.4	ug/kg dw	<5.4		11/25/2002			2530	jxc	SW 8260A
tert-Butylbenzene	<5.4	ug/kg dw	<5.4		11/25/2002			2530	jxc	SW 8260A
sec-Butylbenzene	<5.4	ug/kg dw	<5.4		11/25/2002			2530	jxc	SW 8260A
n-Butylbenzene	<5.4	ug/kg dw	<5.4		11/25/2002			2530	jxc	SW 8260A
Bromochloromethane	<5.4	ug/kg dw	<5.4		11/25/2002			2530	jxc	SW 8260A
Bromodichloromethane	<5.4	ug/kg dw	<5.4		11/25/2002			2530	jxc	SW 8260A
Bromoform	<5.4	ug/kg dw	<5.4		11/25/2002			2530	jxc	SW 8260A
Bromobenzene	<5.4	ug/kg dw	<5.4		11/25/2002			2530	jxc	SW 8260A

# TestAmerica, Incorporated

## ANALYTICAL REPORT

Kevin Wildman  
 HULL & ASSOC. (Dublin)  
 6397 Emerald Parkway  
 Suite 200  
 Dublin, OH 43016

12/06/2002

Job Number: 02.23910

Client Project ID: South Bend Indiana SBI013

**SAMPLE NO.** 805313      **SAMPLE DESCRIPTION** SBI013:HFB3:S000020:505      **DATE/TIME TAKEN** 11/18/2002 10:20

	Result	Units	Reporting		Date Analyzed	Time Analyzed	Prep Batch	Run Batch	Anal.	
			Limit	Flag					Init.	Method Reference
2-Butanone (MEK)	<5.4	ug/kg dw	<5.4		11/25/2002		2530	jxc	SW 8260A	
Carbon disulfide	<5.4	ug/kg dw	<5.4		11/25/2002		2530	jxc	SW 8260A	
Carbon tetrachloride	<5.4	ug/kg dw	<5.4		11/25/2002		2530	jxc	SW 8260A	
Chlorobenzene	<5.4	ug/kg dw	<5.4		11/25/2002		2530	jxc	SW 8260A	
Chloroethane	<10.8	ug/kg dw	<10.8		11/25/2002		2530	jxc	SW 8260A	
2-Chlorotoluene	<5.4	ug/kg dw	<5.4		11/25/2002		2530	jxc	SW 8260A	
4-Chlorotoluene	<5.4	ug/kg dw	<5.4		11/25/2002		2530	jxc	SW 8260A	
Chloroform	<5.4	ug/kg dw	<5.4		11/25/2002		2530	jxc	SW 8260A	
Chloromethane	<10.8	ug/kg dw	<10.8		11/25/2002		2530	jxc	SW 8260A	
Dibromochloromethane	<5.4	ug/kg dw	<5.4		11/25/2002		2530	jxc	SW 8260A	
Dibromomethane	<5.4	ug/kg dw	<5.4		11/25/2002		2530	jxc	SW 8260A	
Dichlorodifluoromethane	<5.4	ug/kg dw	<5.4		11/25/2002		2530	jxc	SW 8260A	
1,2-Dibromo-3-chloropropane	<5.4	ug/kg dw	<5.4		11/25/2002		2530	jxc	SW 8260A	
1,2-Dichlorobenzene	<5.4	ug/kg dw	<5.4		11/25/2002		2530	jxc	SW 8260A	
1,3-Dichlorobenzene	<5.4	ug/kg dw	<5.4		11/25/2002		2530	jxc	SW 8260A	
1,4-Dichlorobenzene	<5.4	ug/kg dw	<5.4		11/25/2002		2530	jxc	SW 8260A	
1,1-Dichloroethane	<5.4	ug/kg dw	<5.4		11/25/2002		2530	jxc	SW 8260A	
1,2-Dichloroethane	<5.4	ug/kg dw	<5.4		11/25/2002		2530	jxc	SW 8260A	
1,1-Dichloroethene	<5.4	ug/kg dw	<5.4		11/25/2002		2530	jxc	SW 8260A	
cis-1,2-Dichloroethene	<5.4	ug/kg dw	<5.4		11/25/2002		2530	jxc	SW 8260A	
trans-1,2-Dichloroethene	<5.4	ug/kg dw	<5.4		11/25/2002		2530	jxc	SW 8260A	
1,2-Dichloropropane	<5.4	ug/kg dw	<5.4		11/25/2002		2530	jxc	SW 8260A	
1,3-Dichloropropane	<5.4	ug/kg dw	<5.4		11/25/2002		2530	jxc	SW 8260A	
2,2-Dichloropropane	<5.4	ug/kg dw	<5.4		11/25/2002		2530	jxc	SW 8260A	
1,1-Dichloropropene	<5.4	ug/kg dw	<5.4		11/25/2002		2530	jxc	SW 8260A	
cis-1,3-Dichloropropene	<5.4	ug/kg dw	<5.4		11/25/2002		2530	jxc	SW 8260A	
trans-1,3-Dichloropropene	<5.4	ug/kg dw	<5.4		11/25/2002		2530	jxc	SW 8260A	
Ethylbenzene	<5.4	ug/kg dw	<5.4		11/25/2002		2530	jxc	SW 8260A	
Hexachlorobutadiene	<5.4	ug/kg dw	<5.4		11/25/2002		2530	jxc	SW 8260A	
n-Hexane	<21.6	ug/kg dw	<21.6		11/25/2002		2530	jxc	SW 8260A	
2-Hexanone	<54.0	ug/kg dw	<54.0		11/25/2002		2530	jxc	SW 8260A	
Isopropylbenzene (Cumene)	<5.4	ug/kg dw	<5.4		11/25/2002		2530	jxc	SW 8260A	

# TestAmerica, Incorporated

PAGE 4 of 19

## ANALYTICAL REPORT

Kevin Wildman  
HULL & ASSOC. (Dublin)  
6397 Emerald Parkway  
Suite 200  
Dublin, OH 43016

12/06/2002

Job Number: 02.23910

Client Project ID: South Bend Indiana SBI013

**SAMPLE NO.**                      **SAMPLE DESCRIPTION**                      **DATE/TIME TAKEN**  
805313                              SBI013:HFB3:S000020:505                      11/18/2002 10:20

	Result	Units	Reporting Limit	Flag	Date Analyzed	Time Analyzed	Prep Batch	Run Batch	Anal. Init.	Method	Reference
p-Isopropyltoluene	<5.4	ug/kg dw	<5.4		11/25/2002			2530	jxc	SW	8260A
Bromomethane	<10.8	ug/kg dw	<10.8		11/25/2002			2530	jxc	SW	8260A
Methylene Chloride	<10.8	ug/kg dw	<10.8		11/25/2002			2530	jxc	SW	8260A
Methyl t-butyl ether (MTBE)	<5.4	ug/kg dw	<5.4		11/25/2002			2530	jxc	SW	8260A
4-Methyl-2-pentanone (MIBK)	<54.0	ug/kg dw	<54.0		11/25/2002			2530	jxc	SW	8260A
n-Propylbenzene	<5.4	ug/kg dw	<5.4		11/25/2002			2530	jxc	SW	8260A
Styrene	<5.4	ug/kg dw	<5.4		11/25/2002			2530	jxc	SW	8260A
Naphthalene	<5.4	ug/kg dw	<5.4		11/25/2002			2530	jxc	SW	8260A
1,1,1,2-Tetrachloroethane	<5.4	ug/kg dw	<5.4		11/25/2002			2530	jxc	SW	8260A
1,1,2,2-Tetrachloroethane	<5.4	ug/kg dw	<5.4		11/25/2002			2530	jxc	SW	8260A
Tetrachloroethene	<5.4	ug/kg dw	<5.4		11/25/2002			2530	jxc	SW	8260A
Toluene	<5.4	ug/kg dw	<5.4		11/25/2002			2530	jxc	SW	8260A
1,2,4-Trichlorobenzene	<5.4	ug/kg dw	<5.4		11/25/2002			2530	jxc	SW	8260A
1,1,1-Trichloroethane	<5.4	ug/kg dw	<5.4		11/25/2002			2530	jxc	SW	8260A
1,1,2-Trichloroethane	<5.4	ug/kg dw	<5.4		11/25/2002			2530	jxc	SW	8260A
Trichloroethene	<5.4	ug/kg dw	<5.4		11/25/2002			2530	jxc	SW	8260A
Trichlorofluoromethane	<5.4	ug/kg dw	<5.4		11/25/2002			2530	jxc	SW	8260A
1,2,3-Trichloropropane	<5.4	ug/kg dw	<5.4		11/25/2002			2530	jxc	SW	8260A
1,2,4-Trimethylbenzene	<5.4	ug/kg dw	<5.4		11/25/2002			2530	jxc	SW	8260A
1,3,5-Trimethylbenzene	<5.4	ug/kg dw	<5.4		11/25/2002			2530	jxc	SW	8260A
Vinyl Acetate	<5.4	ug/kg dw	<5.4		11/25/2002			2530	jxc	SW	8260A
Vinyl Chloride	<2.2	ug/kg dw	<2.2		11/25/2002			2530	jxc	SW	8260A
Xylenes, Total	<5.4	ug/kg dw	<5.4		11/25/2002			2530	jxc	SW	8260A
d4-1,2-Dichloroethane (surr)	93	%	80-120		11/25/2002			2530	jxc	SW	8260A
Dibromofluoromethane (surr)	95	%	80-120		11/25/2002			2530	jxc	SW	8260A
d8-Toluene (surr)	101	%	81-117		11/25/2002			2530	jxc	SW	8260A
Bromofluorobenzene (surr)	106	%	74-121		11/25/2002			2530	jxc	SW	8260A

# TestAmerica, Incorporated

PAGE 5 of 19

## ANALYTICAL REPORT

Kevin Wildman  
 HULL & ASSOC. (Dublin)  
 6397 Emerald Parkway  
 Suite 200  
 Dublin, OH 43016

12/06/2002

Job Number: 02.23910

Client Project ID: South Bend Indiana SBI013

**SAMPLE NO.** 805313      **SAMPLE DESCRIPTION** SBI013:HFB3:S000020:505      **DATE/TIME TAKEN** 11/18/2002 10:20

Result	Units	Reporting		Date Analyzed	Time Analyzed	Prep Batch	Run Batch	Anal.		
		Limit	Flag					Init.	Method Reference	
BASE NEUT. COMPS.-8270 Non-aq										
Acenaphthene	<356	ug/kg dw	<356		11/26/2002	1225	1993	jcs	SW 8270C	
Acenaphthylene	<356	ug/kg dw	<356		11/26/2002	1225	1993	jcs	SW 8270C	
Anthracene	<356	ug/kg dw	<356		11/26/2002	1225	1993	jcs	SW 8270C	
Benzo(a)anthracene	617	ug/kg dw	<356		11/26/2002	1225	1993	jcs	SW 8270C	
Benzo(b)fluoranthene	1,020	ug/kg dw	<356		11/26/2002	1225	1993	jcs	SW 8270C	
Benzo(k)fluoranthene	<356	ug/kg dw	<356		11/26/2002	1225	1993	jcs	SW 8270C	
Benzo(a)pyrene	576	ug/kg dw	<178		11/26/2002	1225	1993	jcs	SW 8270C	
Benzyl alcohol	<356	ug/kg dw	<356		11/26/2002	1225	1993	jcs	SW 8270C	
Benzyl butyl phthalate	<356	ug/kg dw	<356		11/26/2002	1225	1993	jcs	SW 8270C	
Bis(2-chloroethyl)ether	<356	ug/kg dw	<356		11/26/2002	1225	1993	jcs	SW 8270C	
Bis(2-chloroethoxy)methane	<356	ug/kg dw	<356		11/26/2002	1225	1993	jcs	SW 8270C	
Bis(2-ethylhexyl)phthalate	<356	ug/kg dw	<356		11/26/2002	1225	1993	jcs	SW 8270C	
2,2'-oxybis(1-Chloropropane)	<356	ug/kg dw	<356		11/26/2002	1225	1993	jcs	SW 8270C	
4-Bromophenyl phenyl ether	<356	ug/kg dw	<356		11/26/2002	1225	1993	jcs	SW 8270C	
4-Chloroaniline	<356	ug/kg dw	<356		11/26/2002	1225	1993	jcs	SW 8270C	
2-Chloronaphthalene	<356	ug/kg dw	<356		11/26/2002	1225	1993	jcs	SW 8270C	
Chrysene	555	ug/kg dw	<356		11/26/2002	1225	1993	jcs	SW 8270C	
Dibenzo(a,h)anthracene	<178	ug/kg dw	<178		11/26/2002	1225	1993	jcs	SW 8270C	
Dibenzofuran	<356	ug/kg dw	<356		11/26/2002	1225	1993	jcs	SW 8270C	
1,2-Dichlorobenzene	<356	ug/kg dw	<356		11/26/2002	1225	1993	jcs	SW 8270C	
1,3-Dichlorobenzene	<356	ug/kg dw	<356		11/26/2002	1225	1993	jcs	SW 8270C	
1,4-Dichlorobenzene	<356	ug/kg dw	<356		11/26/2002	1225	1993	jcs	SW 8270C	
3,3'-Dichlorobenzidine	<713	ug/kg dw	<713		11/26/2002	1225	1993	jcs	SW 8270C	
Diethyl phthalate	<356	ug/kg dw	<356		11/26/2002	1225	1993	jcs	SW 8270C	
Dimethyl phthalate	<356	ug/kg dw	<356		11/26/2002	1225	1993	jcs	SW 8270C	
2,4-Dinitrotoluene	<356	ug/kg dw	<356		11/26/2002	1225	1993	jcs	SW 8270C	
2,6-Dinitrotoluene	<356	ug/kg dw	<356		11/26/2002	1225	1993	jcs	SW 8270C	
Di-n-octylphthalate	<356	ug/kg dw	<356		11/26/2002	1225	1993	jcs	SW 8270C	
Fluoranthene	958	ug/kg dw	<356		11/26/2002	1225	1993	jcs	SW 8270C	
Fluorene	<356	ug/kg dw	<356		11/26/2002	1225	1993	jcs	SW 8270C	
Hexachlorobenzene	<356	ug/kg dw	<356		11/26/2002	1225	1993	jcs	SW 8270C	

# TestAmerica, Incorporated

PAGE 6 of 19

## ANALYTICAL REPORT

Kevin Wildman  
 HULL & ASSOC. (Dublin)  
 6397 Emerald Parkway  
 Suite 200  
 Dublin, OH 43016

12/06/2002

Job Number: 02.23910

Client Project ID: South Bend Indiana SBI013

**SAMPLE NO.** 805313      **SAMPLE DESCRIPTION** SBI013:HFB3:S000020:505      **DATE/TIME TAKEN** 11/18/2002 10:20

	Result	Units	Reporting		Date Analyzed	Time Analyzed	Prep Batch	Run Batch	Anal.	
			Limit	Flag					Init.	Method Reference
Hexachloro-1,3-butadiene	<356	ug/kg dw	<356		11/26/2002		1225 1993	jcs	SW 8270C	
Hexachlorocyclopentadiene	<713	ug/kg dw	<713		11/26/2002		1225 1993	jcs	SW 8270C	
Hexachloroethane	<356	ug/kg dw	<356		11/26/2002		1225 1993	jcs	SW 8270C	
Indeno(1,2,3-cd)pyrene	<356	ug/kg dw	<356		11/26/2002		1225 1993	jcs	SW 8270C	
Isophorone	<356	ug/kg dw	<356		11/26/2002		1225 1993	jcs	SW 8270C	
Naphthalene	<356	ug/kg dw	<356		11/26/2002		1225 1993	jcs	SW 8270C	
Nitrobenzene	<356	ug/kg dw	<356		11/26/2002		1225 1993	jcs	SW 8270C	
N-Nitrosodi-n-propylamine	<356	ug/kg dw	<356		11/26/2002		1225 1993	jcs	SW 8270C	
Phenanthrene	589	ug/kg dw	<356		11/26/2002		1225 1993	jcs	SW 8270C	
Pyrene	1,530	ug/kg dw	<356		11/26/2002		1225 1993	jcs	SW 8270C	
1,2,4-Trichlorobenzene	<356	ug/kg dw	<356		11/26/2002		1225 1993	jcs	SW 8270C	
Surrogate: d5-Nitrobenzene	82	%	28-120	note	11/26/2002		1225 1993	jcs	SW 8270C	
Surrogate: 2-Fluorobiphenyl	86	%	20-115		11/26/2002		1225 1993	jcs	SW 8270C	
Surrogate: d14-Terphenyl	106	%	18-137		11/26/2002		1225 1993	jcs	SW 8270C	
ACID COMPOUNDS - 8270 Non-aq										
Benzoic Acid	<1,780	ug/kg dw	<1,780		11/26/2002		1225 1993	jcs	SW 8270C	
4-Chloro-3-methylphenol	<356	ug/kg dw	<356		11/26/2002		1225 1993	jcs	SW 8270C	
2-Chlorophenol	<356	ug/kg dw	<356		11/26/2002		1225 1993	jcs	SW 8270C	
2,4-Dichlorophenol	<356	ug/kg dw	<356		11/26/2002		1225 1993	jcs	SW 8270C	
2,4-Dimethylphenol	<356	ug/kg dw	<356		11/26/2002		1225 1993	jcs	SW 8270C	
2,4-Dinitrophenol	<356	ug/kg dw	<356		11/26/2002		1225 1993	jcs	SW 8270C	
2-Methyl-4,6-dinitrophenol	<356	ug/kg dw	<356		11/26/2002		1225 1993	jcs	SW 8270C	
2-Methylphenol	<356	ug/kg dw	<356		11/26/2002		1225 1993	jcs	SW 8270C	
meta & para-Methylphenol	<356	ug/kg dw	<356		11/26/2002		1225 1993	jcs	SW 8270C	
2-Nitrophenol	<356	ug/kg dw	<356		11/26/2002		1225 1993	jcs	SW 8270C	
4-Nitrophenol	<356	ug/kg dw	<356		11/26/2002		1225 1993	jcs	SW 8270C	
Pentachlorophenol	<356	ug/kg dw	<356		11/26/2002		1225 1993	jcs	SW 8270C	
Phenol	<356	ug/kg dw	<356		11/26/2002		1225 1993	jcs	SW 8270C	
2,4,5-Trichlorophenol	<356	ug/kg dw	<356		11/26/2002		1225 1993	jcs	SW 8270C	
2,4,6-Trichlorophenol	<356	ug/kg dw	<356		11/26/2002		1225 1993	jcs	SW 8270C	
Surrogate: d6-Phenol	71	%	24-113		11/26/2002		1225 1993	jcs	SW 8270C	

# TestAmerica, Incorporated

PAGE 7 of 19

## ANALYTICAL REPORT

Kevin Wildman  
 HULL & ASSOC. (Dublin)  
 6397 Emerald Parkway  
 Suite 200  
 Dublin, OH 43016

12/06/2002

Job Number: 02.23910

Client Project ID: South Bend Indiana SBI013

**SAMPLE NO.** 805313      **SAMPLE DESCRIPTION** SBI013:HFB3:S000020:505      **DATE/TIME TAKEN** 11/18/2002 10:20

	Result	Units	Reporting Limit	Flag	Date Analyzed	Time Analyzed	Prep Batch	Run Batch	Anal. Init.	Method Reference
Surrogate: 2-Fluorophenol	57	%	25-127		11/26/2002		1225	1993	jcs	SW 8270C
Surrogate: Tribromophenol	69	%	19-122		11/26/2002		1225	1993	jcs	SW 8270C

**SAMPLE NO.** 805314      **SAMPLE DESCRIPTION** SBI013:HFB8:S000020:505      **DATE/TIME TAKEN** 11/18/2002 14:00

	Result	Units	Reporting Limit	Flag	Date Analyzed	Time Analyzed	Prep Batch	Run Batch	Anal. Init.	Method Reference
Dry Weight	94.1	%	0.1		11/25/2002	15:50		2100	anb	SM 2540 G.
TCLP - METALS, ICP	Complete		Complete		12/02/2002	20:31		2959	tpw	SW 6010B
TCLP - Arsenic, ICP	<0.50	mg/L	<0.50		12/02/2002	13:06	3358	4067	emd	SW 6010B
TCLP - Barium, ICP	0.87	mg/L	<0.10		12/02/2002	13:06	3358	4044	emd	SW 6010B
TCLP - Cadmium, ICP	<0.15	mg/L	<0.15		12/02/2002	13:06	3358	4001	emd	SW 6010B
TCLP - Chromium, ICP	<0.20	mg/L	<0.20		12/02/2002	13:06	3358	3983	emd	SW 6010B
TCLP - Copper, ICP	0.13	mg/L	<0.10		12/02/2002	13:06	3358	3984	emd	SW 6010B
TCLP - Lead, ICP	1.46	mg/L	<0.40		12/02/2002	13:06	3358	3995	emd	SW 6010B
TCLP - Mercury	<0.0010	mg/L	<0.0010		11/27/2002	10:28	1995	2018	jdm	SW 7470A
TCLP - Selenium, ICP	<0.50	mg/L	<0.50		12/02/2002	13:06	3358	4046	emd	SW 6010B
TCLP - Silver, ICP	<0.20	mg/L	<0.20		12/02/2002	20:31	3358	4202	tpw	SW 6010B
TCLP - Zinc, ICP	3.44	mg/L	<0.25		12/02/2002	13:06	3358	3940	emd	SW 6010B
TCLP Prep ICP	Complete		Complete		11/26/2002	18:30	3358		mjs	SW 3010A
TCLP Mercury Prep	Complete		Complete		11/26/2002	15:30	1995		jdm	SW 7470A
Corrosivity (pH)	11.92	S.U.			11/26/2002			751	dgr	SW 9040
Ignitability of Solids	>87.8	Degree C		Note	11/25/2002			122	mss	SW 1010 (Mod)
Reactive Sulfide	<125	mg/Kg	<125		12/05/2002			657	055	SW 7.3.4.1
Reactive Cyanide	<25	mg/Kg	<25		12/05/2002			673	055	SW 7.3.3.2
TCLP EXTRACTION INORGANIC	Complete		Complete		11/25/2002			1444	smd	SW 1311
Prep, BNA Non-Aq	SW 3545		Complete		11/25/2002		1225		mhg	

# TestAmerica, Incorporated

PAGE 8 of 19

## ANALYTICAL REPORT

Kevin Wildman  
 HULL & ASSOC. (Dublin)  
 6397 Emerald Parkway  
 Suite 200  
 Dublin, OH 43016

12/06/2002

Job Number: 02.23910

Client Project ID: South Bend Indiana SBI013

**SAMPLE NO.** 805314      **SAMPLE DESCRIPTION** SBI013:HFB8:S000020:505      **DATE/TIME TAKEN** 11/18/2002 14:00

	Result	Units	Reporting Limit	Flag	Date Analyzed	Time Analyzed	Prep Batch	Run Batch	Anal. Init.	Method Reference
VOLATILE COMPOUNDS-8260 Non-Aq										
8260 - SW846 (Non-aq)	Complete		Complete		11/25/2002			2530	jxc	
Acetone	<106	ug/kg dw	<106		11/25/2002			2530	jxc	SW 8260A
Benzene	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW 8260A
tert-Butylbenzene	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW 8260A
sec-Butylbenzene	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW 8260A
n-Butylbenzene	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW 8260A
Bromochloromethane	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW 8260A
Bromodichloromethane	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW 8260A
Bromoform	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW 8260A
Bromobenzene	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW 8260A
2-Butanone (MEK)	<53	ug/kg dw	<53		11/25/2002			2530	jxc	SW 8260A
Carbon disulfide	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW 8260A
Carbon tetrachloride	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW 8260A
Chlorobenzene	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW 8260A
Chloroethane	<10.6	ug/kg dw	<10.6		11/25/2002			2530	jxc	SW 8260A
2-Chlorotoluene	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW 8260A
4-Chlorotoluene	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW 8260A
Chloroform	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW 8260A
Chloromethane	<10.6	ug/kg dw	<10.6		11/25/2002			2530	jxc	SW 8260A
Dibromochloromethane	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW 8260A
Dibromomethane	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW 8260A
Dichlorodifluoromethane	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW 8260A
1,2-Dibromo-3-chloropropane	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW 8260A
1,2-Dichlorobenzene	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW 8260A
1,3-Dichlorobenzene	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW 8260A
1,4-Dichlorobenzene	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW 8260A
1,1-Dichloroethane	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW 8260A
1,2-Dichloroethane	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW 8260A
1,1-Dichloroethene	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW 8260A
cis-1,2-Dichloroethene	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW 8260A
trans-1,2-Dichloroethene	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW 8260A



# TestAmerica, Incorporated

PAGE 9 of 19

## ANALYTICAL REPORT

Kevin Wildman  
HULL & ASSOC. (Dublin)  
6397 Emerald Parkway  
Suite 200  
Dublin, OH 43016

12/06/2002

Job Number: 02.23910

Client Project ID: South Bend Indiana SBI013

**SAMPLE NO.**                      **SAMPLE DESCRIPTION**                      **DATE/TIME TAKEN**  
805314                              SBI013:HFB8:S000020:505                      11/18/2002 14:00

	Result	Units	Reporting Limit	Flag	Date Analyzed	Time Analyzed	Prep Batch	Run Batch	Anal. Init.	Method	Reference
1,2-Dichloropropane	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW	8260A
1,3-Dichloropropane	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW	8260A
2,2-Dichloropropane	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW	8260A
1,1-Dichloropropene	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW	8260A
cis-1,3-Dichloropropene	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW	8260A
trans-1,3-Dichloropropene	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW	8260A
Ethylbenzene	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW	8260A
Hexachlorobutadiene	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW	8260A
n-Hexane	<21.3	ug/kg dw	<21.3		11/25/2002			2530	jxc	SW	8260A
2-Hexanone	<53.1	ug/kg dw	<53.1		11/25/2002			2530	jxc	SW	8260A
Isopropylbenzene (Cumene)	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW	8260A
p-Isopropyltoluene	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW	8260A
Bromomethane	<10.6	ug/kg dw	<10.6		11/25/2002			2530	jxc	SW	8260A
Methylene Chloride	<10.6	ug/kg dw	<10.6		11/25/2002			2530	jxc	SW	8260A
Methyl t-butyl ether (MTBE)	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW	8260A
4-Methyl-2-pentanone (MIBK)	<53.1	ug/kg dw	<53.1		11/25/2002			2530	jxc	SW	8260A
n-Propylbenzene	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW	8260A
Styrene	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW	8260A
Naphthalene	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW	8260A
1,1,1,2-Tetrachloroethane	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW	8260A
1,1,2,2-Tetrachloroethane	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW	8260A
Tetrachloroethene	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW	8260A
Toluene	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW	8260A
1,2,4-Trichlorobenzene	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW	8260A
1,1,1-Trichloroethane	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW	8260A
1,1,2-Trichloroethane	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW	8260A
Trichloroethene	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW	8260A
Trichlorofluoromethane	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW	8260A
1,2,3-Trichloropropane	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW	8260A
1,2,4-Trimethylbenzene	25.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW	8260A
1,3,5-Trimethylbenzene	13.8	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW	8260A
Vinyl Acetate	<5.3	ug/kg dw	<5.3		11/25/2002			2530	jxc	SW	8260A

# TestAmerica, Incorporated

PAGE 10 of 19

## ANALYTICAL REPORT

Kevin Wildman  
 HULL & ASSOC. (Dublin)  
 6397 Emerald Parkway  
 Suite 200  
 Dublin, OH 43016

12/06/2002

Job Number: 02.23910

Client Project ID: South Bend Indiana SBI013

**SAMPLE NO.**                      **SAMPLE DESCRIPTION**                      **DATE/TIME TAKEN**  
 805314                              SBI013:HFB8:S000020:505                      11/18/2002 14:00

	Result	Units	Reporting Limit	Flag	Date Analyzed	Time Analyzed	Prep Batch	Run Batch	Anal. Init.	Method Reference
Vinyl Chloride	<2.1	ug/kg dw	<2.1		11/25/2002		2530		jxc	SW 8260A
Xylenes, Total	<5.3	ug/kg dw	<5.3		11/25/2002		2530		jxc	SW 8260A
d4-1,2-Dichloroethane (surr)	97	%	80-120		11/25/2002		2530		jxc	SW 8260A
Dibromofluoromethane (surr)	102	%	80-120		11/25/2002		2530		jxc	SW 8260A
d8-Toluene (surr)	96	%	81-117		11/25/2002		2530		jxc	SW 8260A
Bromofluorobenzene (surr)	101	%	74-121		11/25/2002		2530		jxc	SW 8260A
BASE NEUT. COMPS.-8270 Non-aq										
Acenaphthene	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C
Acenaphthylene	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C
Anthracene	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C
Benzo(a)anthracene	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C
Benzo(b)fluoranthene	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C
Benzo(k)fluoranthene	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C
Benzo(a)pyrene	<3,500	ug/kg dw	<3,500		11/26/2002		1225	1993	jcs	SW 8270C
Benzyl alcohol	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C
Benzyl butyl phthalate	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C
Bis(2-chloroethyl)ether	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C
Bis(2-chloroethoxy)methane	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C
Bis(2-ethylhexyl)phthalate	12,900	ug/kg dw	<7,010		11/26/2002		1225	1993	jcs	SW 8270C
2,2'-oxybis(1-Chloropropane)	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C
4-Bromophenyl phenyl ether	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C
4-Chloroaniline	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C
2-Chloronaphthalene	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C
Chrysene	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C
Dibenzo(a,h)anthracene	<3,500	ug/kg dw	<3,500		11/26/2002		1225	1993	jcs	SW 8270C
Dibenzofuran	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C
1,2-Dichlorobenzene	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C
1,3-Dichlorobenzene	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C
1,4-Dichlorobenzene	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C
3,3'-Dichlorobenzidine	<14,000	ug/kg dw	<14,000		11/26/2002		1225	1993	jcs	SW 8270C
Diethyl phthalate	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C

# TestAmerica, Incorporated

PAGE 11 of 19

## ANALYTICAL REPORT

Kevin Wildman  
 HULL & ASSOC. (Dublin)  
 6397 Emerald Parkway  
 Suite 200  
 Dublin, OH 43016

12/06/2002

Job Number: 02.23910

Client Project ID: South Bend Indiana SBI013

**SAMPLE NO.** 805314      **SAMPLE DESCRIPTION** SBI013:HFB8:S000020:505      **DATE/TIME TAKEN** 11/18/2002 14:00

	Result		Reporting		Date Analyzed	Time Analyzed	Prep Batch	Run Batch	Anal. Init.	Method Reference
	Units	Limit	Flag							
Dimethyl phthalate	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C
2,4-Dinitrotoluene	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C
2,6-Dinitrotoluene	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C
Di-n-octylphthalate	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C
Fluoranthene	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C
Fluorene	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C
Hexachlorobenzene	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C
Hexachloro-1,3-butadiene	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C
Hexachlorocyclopentadiene	<14,000	ug/kg dw	<14,000		11/26/2002		1225	1993	jcs	SW 8270C
Hexachloroethane	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C
Indeno(1,2,3-cd)pyrene	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C
Isophorone	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C
Naphthalene	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C
Nitrobenzene	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C
N-Nitrosodi-n-propylamine	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C
Phenanthrene	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C
Pyrene	11,600	ug/kg dw	<7,010		11/26/2002		1225	1993	jcs	SW 8270C
1,2,4-Trichlorobenzene	<7,000	ug/kg dw	<7,000		11/26/2002		1225	1993	jcs	SW 8270C
Surrogate: d5-Nitrobenzene	dl	%	28-120	note	11/26/2002		1225	1993	jcs	SW 8270C
Surrogate: 2-Fluorobiphenyl	dl	%	20-115		11/26/2002		1225	1993	jcs	SW 8270C
Surrogate: d14-Terphenyl	dl	%	18-137		11/26/2002		1225	1993	jcs	SW 8270C
ACID COMPOUNDS - 8270 Non-aq										
Benzoic Acid	<1,750	ug/kg dw	<1,750		11/26/2002		1225	1993	jcs	SW 8270C
4-Chloro-3-methylphenol	<351	ug/kg dw	<351		11/26/2002		1225	1993	jcs	SW 8270C
2-Chlorophenol	<351	ug/kg dw	<351		11/26/2002		1225	1993	jcs	SW 8270C
2,4-Dichlorophenol	<351	ug/kg dw	<351		11/26/2002		1225	1993	jcs	SW 8270C
2,4-Dimethylphenol	<351	ug/kg dw	<351		11/26/2002		1225	1993	jcs	SW 8270C
2,4-Dinitrophenol	<351	ug/kg dw	<351		11/26/2002		1225	1993	jcs	SW 8270C
2-Methyl-4,6-dinitrophenol	<351	ug/kg dw	<351		11/26/2002		1225	1993	jcs	SW 8270C
2-Methylphenol	<351	ug/kg dw	<351		11/26/2002		1225	1993	jcs	SW 8270C
meta & para-Methylphenol	<351	ug/kg dw	<351		11/26/2002		1225	1993	jcs	SW 8270C

# TestAmerica, Incorporated

PAGE 12 of 19

## ANALYTICAL REPORT

Kevin Wildman  
 HULL & ASSOC. (Dublin)  
 6397 Emerald Parkway  
 Suite 200  
 Dublin, OH 43016

12/06/2002

Job Number: 02.23910

Client Project ID: South Bend Indiana SBI013

**SAMPLE NO.** 805314      **SAMPLE DESCRIPTION** SBI013:HFB8:S000020:505      **DATE/TIME TAKEN** 11/18/2002 14:00

	Result	Units	Reporting		Date Analyzed	Time Analyzed	Prep Batch	Run Batch	Anal.	
			Limit	Flag					Init.	Method Reference
2-Nitrophenol	<351	ug/kg dw	<351		11/26/2002		1225 1993	jcs	SW 8270C	
4-Nitrophenol	<351	ug/kg dw	<351		11/26/2002		1225 1993	jcs	SW 8270C	
Pentachlorophenol	<351	ug/kg dw	<351		11/26/2002		1225 1993	jcs	SW 8270C	
Phenol	<351	ug/kg dw	<351		11/26/2002		1225 1993	jcs	SW 8270C	
2,4,5-Trichlorophenol	<351	ug/kg dw	<351		11/26/2002		1225 1993	jcs	SW 8270C	
2,4,6-Trichlorophenol	<351	ug/kg dw	<351		11/26/2002		1225 1993	jcs	SW 8270C	
Surrogate: d6-Phenol	dl	%	24-113		11/26/2002		1225 1993	jcs	SW 8270C	
Surrogate: 2-Fluorophenol	dl	%	25-127		11/26/2002		1225 1993	jcs	SW 8270C	
Surrogate: Tribromophenol	dl	%	19-122		11/26/2002		1225 1993	jcs	SW 8270C	

**SAMPLE NO.** 805315      **SAMPLE DESCRIPTION** SBI013:HP3D:G111802:505      **DATE/TIME TAKEN** 11/18/2002 11:35

	Result	Units	Reporting		Date Analyzed	Time Analyzed	Prep Batch	Run Batch	Anal.	
			Limit	Flag					Init.	Method Reference
ICPMS TOTAL METALS	Complete		Complete		12/02/2002	05:00		3492	ekh	SW 6020
Arsenic, ICPMS	0.0169	mg/L	<0.0050		12/02/2002	05:00		2365 4793	ekh	SW 6020
Lead, ICPMS	0.0267	mg/L	<0.0010		12/02/2002	05:00		2365 4759	ekh	SW 6020
Metals Digestion, ICPMS	Complete		Complete		11/27/2002	09:10		2365	jlr	SW 3010A

**VOLATILE COMPOUNDS - 8260 (AQ)**

8260 - SW846 (AQ)	Complete		Complete		11/27/2002			4879	bmh	
Acetone	<20.0	ug/L	<20.0		11/27/2002			4879	bmh	SW 8260B
Benzene	<1.0	ug/L	<1.0		11/27/2002			4879	bmh	SW 8260B
tert-Butylbenzene	<1.0	ug/L	<1.0		11/27/2002			4879	bmh	SW 8260B
sec-Butylbenzene	<1.0	ug/L	<1.0		11/27/2002			4879	bmh	SW 8260B
n-Butylbenzene	<1.0	ug/L	<1.0		11/27/2002			4879	bmh	SW 8260B
Bromochloromethane	<1.0	ug/L	<1.0		11/27/2002			4879	bmh	SW 8260B

# TestAmerica, Incorporated

PAGE 13 of 19

## ANALYTICAL REPORT

Kevin Wildman  
 HULL & ASSOC. (Dublin)  
 6397 Emerald Parkway  
 Suite 200  
 Dublin, OH 43016

12/06/2002

Job Number: 02.23910

Client Project ID: South Bend Indiana SBI013

**SAMPLE NO.**                      **SAMPLE DESCRIPTION**                      **DATE/TIME TAKEN**  
 805315                              SBI013:HP3D:G111802:505                      11/18/2002 11:35

	Result	Units	Reporting		Date Analyzed	Time Analyzed	Prep Batch	Run Batch	Anal. Init.	Method Reference
			Limit	Flag						
Bromodichloromethane	<1.0	ug/L	<1.0		11/27/2002		4879	bmh	SW 8260B	
Bromoform	<1.0	ug/L	<1.0		11/27/2002		4879	bmh	SW 8260B	
Bromobenzene	<1.0	ug/L	<1.0		11/27/2002		4879	bmh	SW 8260B	
2-Butanone (MEK)	<12.5	ug/L	<12.5		11/27/2002		4879	bmh	SW 8260B	
Carbon disulfide	<1.0	ug/L	<1.0		11/27/2002		4879	bmh	SW 8260B	
Carbon tetrachloride	<1.0	ug/L	<1.0		11/27/2002		4879	bmh	SW 8260B	
Chlorobenzene	<1.0	ug/L	<1.0		11/27/2002		4879	bmh	SW 8260B	
Chloroethane	<5.0	ug/L	<5.0		11/27/2002		4879	bmh	SW 8260B	
2-Chlorotoluene	<1.0	ug/L	<1.0		11/27/2002		4879	bmh	SW 8260B	
4-Chlorotoluene	<1.0	ug/L	<1.0		11/27/2002		4879	bmh	SW 8260B	
Chloroform	<1.0	ug/L	<1.0		11/27/2002		4879	bmh	SW 8260B	
Chloromethane	<5.0	ug/L	<5.0		11/27/2002		4879	bmh	SW 8260B	
Dibromochloromethane	<1.0	ug/L	<1.0		11/27/2002		4879	bmh	SW 8260B	
Dibromomethane	<1.0	ug/L	<1.0		11/27/2002		4879	bmh	SW 8260B	
Dichlorodifluoromethane	<1.0	ug/L	<1.0		11/27/2002		4879	bmh	SW 8260B	
1,2-Dibromo-3-chloropropane	<5.0	ug/L	<5.0		11/27/2002		4879	bmh	SW 8260B	
1,2-Dichlorobenzene	<1.0	ug/L	<1.0		11/27/2002		4879	bmh	SW 8260B	
1,3-Dichlorobenzene	<1.0	ug/L	<1.0		11/27/2002		4879	bmh	SW 8260B	
1,4-Dichlorobenzene	<1.0	ug/L	<1.0		11/27/2002		4879	bmh	SW 8260B	
1,1-Dichloroethane	<1.0	ug/L	<1.0		11/27/2002		4879	bmh	SW 8260B	
1,2-Dichloroethane	<1.0	ug/L	<1.0		11/27/2002		4879	bmh	SW 8260B	
1,1-Dichloroethene	<1.0	ug/L	<1.0		11/27/2002		4879	bmh	SW 8260B	
cis-1,2-Dichloroethene	<1.0	ug/L	<1.0		11/27/2002		4879	bmh	SW 8260B	
trans-1,2-Dichloroethene	<1.0	ug/L	<1.0		11/27/2002		4879	bmh	SW 8260B	
1,2-Dichloropropane	<1.0	ug/L	<1.0		11/27/2002		4879	bmh	SW 8260B	
1,3-Dichloropropane	<1.0	ug/L	<1.0		11/27/2002		4879	bmh	SW 8260B	
2,2-Dichloropropane	<1.0	ug/L	<1.0		11/27/2002		4879	bmh	SW 8260B	
1,1-Dichloropropene	<1.0	ug/L	<1.0		11/27/2002		4879	bmh	SW 8260B	
cis-1,3-Dichloropropene	<1.0	ug/L	<1.0		11/27/2002		4879	bmh	SW 8260B	
trans-1,3-Dichloropropene	<1.0	ug/L	<1.0		11/27/2002		4879	bmh	SW 8260B	
Ethylbenzene	<1.0	ug/L	<1.0		11/27/2002		4879	bmh	SW 8260B	
Hexachlorobutadiene	<5.0	ug/L	<5.0		11/27/2002		4879	bmh	SW 8260B	

# TestAmerica, Incorporated

PAGE 14 of 19

## ANALYTICAL REPORT

Kevin Wildman  
 HULL & ASSOC. (Dublin)  
 6397 Emerald Parkway  
 Suite 200  
 Dublin, OH 43016

12/06/2002

Job Number: 02.23910

Client Project ID: South Bend Indiana SBI013

**SAMPLE NO.** 805315      **SAMPLE DESCRIPTION** SBI013:HP3D:G111802:505      **DATE/TIME TAKEN** 11/18/2002 11:35

	Result		Reporting	Date	Time	Prep	Run	Anal.	Reference
	Units	Limit	Flag						
n-Hexane	<5.0	ug/L	<5.0	11/27/2002			4879	bmh	SW 8260B
2-Hexanone	<12.5	ug/L	<12.5	11/27/2002			4879	bmh	SW 8260B
Isopropylbenzene (Cumene)	<1.0	ug/L	<1.0	11/27/2002			4879	bmh	SW 8260B
p-Isopropyltoluene	<1.0	ug/L	<1.0	11/27/2002			4879	bmh	SW 8260B
Bromomethane	<5.0	ug/L	<5.0	11/27/2002			4879	bmh	SW 8260B
Methylene Chloride	<5.0	ug/L	<5.0	11/27/2002			4879	bmh	SW 8260B
Methyl t-butyl ether (MTBE)	<5.0	ug/L	<5.0	11/27/2002			4879	bmh	SW 8260B
4-Methyl-2-pentanone (MIBK)	<12.5	ug/L	<12.5	11/27/2002			4879	bmh	SW 8260B
n-Propylbenzene	<1.0	ug/L	<1.0	11/27/2002			4879	bmh	SW 8260B
Styrene	<1.0	ug/L	<1.0	11/27/2002			4879	bmh	SW 8260B
Naphthalene	<5.0	ug/L	<5.0	11/27/2002			4879	bmh	SW 8260B
1,1,1,2-Tetrachloroethane	<1.0	ug/L	<1.0	11/27/2002			4879	bmh	SW 8260B
1,1,2,2-Tetrachloroethane	<1.0	ug/L	<1.0	11/27/2002			4879	bmh	SW 8260B
Tetrachloroethene	475	ug/L	<50	12/02/2002			4886	bmh	SW 8260B
Toluene	<1.0	ug/L	<1.0	11/27/2002			4879	bmh	SW 8260B
1,2,4-Trichlorobenzene	<5.0	ug/L	<5.0	11/27/2002			4879	bmh	SW 8260B
1,1,1-Trichloroethane	<1.0	ug/L	<1.0	11/27/2002			4879	bmh	SW 8260B
1,1,2-Trichloroethane	<1.0	ug/L	<1.0	11/27/2002			4879	bmh	SW 8260B
Trichloroethene	<1.0	ug/L	<1.0	11/27/2002			4879	bmh	SW 8260B
Trichlorofluoromethane	<1.0	ug/L	<1.0	11/27/2002			4879	bmh	SW 8260B
1,2,3-Trichloropropane	<5.0	ug/L	<5.0	11/27/2002			4879	bmh	SW 8260B
1,2,4-Trimethylbenzene	<1.0	ug/L	<1.0	11/27/2002			4879	bmh	SW 8260B
1,3,5-Trimethylbenzene	<1.0	ug/L	<1.0	11/27/2002			4879	bmh	SW 8260B
Vinyl Acetate	<5.0	ug/L	<5.0	11/27/2002			4879	bmh	SW 8260B
Vinyl Chloride	<1.0	ug/L	<1.0	11/27/2002			4879	bmh	SW 8260B
Xylenes	<1.0	ug/L	<1.0	11/27/2002			4879	bmh	SW 8260B
d4-1,2-Dichloroethane (surr)	82	%	80-120	11/27/2002			4879	bmh	SW 8260B
Dibromofluoromethane (surr)	93	%	86-118	11/27/2002			4879	bmh	SW 8260B
d8-Toluene (surr)	104	%	88-110	11/27/2002			4879	bmh	SW 8260B
Bromofluorobenzene (surr)	105	%	86-115	11/27/2002			4879	bmh	SW 8260B

# TestAmerica, Incorporated

PAGE 15 of 19

## ANALYTICAL REPORT

Kevin Wildman  
 HULL & ASSOC. (Dublin)  
 6397 Emerald Parkway  
 Suite 200  
 Dublin, OH 43016

12/06/2002

Job Number: 02.23910

Client Project ID: South Bend Indiana SBI013

**SAMPLE NO.** 805316      **SAMPLE DESCRIPTION** SBI013:HP3S:G111802:505      **DATE/TIME TAKEN** 11/18/2002 12:20

	Result	Units	Reporting Limit	Flag	Date Analyzed	Time Analyzed	Prep Batch	Run Batch	Anal. Init.	Method Reference
ICPMS TOTAL METALS	Complete		Complete		12/02/2002	19:09		3496	ekh	SW 6020
Arsenic, ICPMS	0.321	mg/L	<0.0050		12/02/2002	19:09	2365	4797	ekh	SW 6020
Lead, ICPMS	0.453	mg/L	<0.0010		12/02/2002	19:09	2365	4763	ekh	SW 6020
Metals Digestion, ICPMS	Complete		Complete		11/27/2002	09:10	2365		jlr	SW 3010A
VOLATILE COMPOUNDS - 8260 (AQ)										
8260 - SWS46 (AQ)	Complete		Complete		12/02/2002			4886	bmh	
Acetone	<20.0	ug/L	<20.0		12/02/2002			4886	bmh	SW 8260B
Benzene	<1.0	ug/L	<1.0		12/02/2002			4886	bmh	SW 8260B
tert-Butylbenzene	<1.0	ug/L	<1.0		12/02/2002			4886	bmh	SW 8260B
sec-Butylbenzene	<1.0	ug/L	<1.0		12/02/2002			4886	bmh	SW 8260B
n-Butylbenzene	<1.0	ug/L	<1.0		12/02/2002			4886	bmh	SW 8260B
Bromochloromethane	<1.0	ug/L	<1.0		12/02/2002			4886	bmh	SW 8260B
Bromodichloromethane	<1.0	ug/L	<1.0		12/02/2002			4886	bmh	SW 8260B
Bromoform	<1.0	ug/L	<1.0		12/02/2002			4886	bmh	SW 8260B
Bromobenzene	<1.0	ug/L	<1.0		12/02/2002			4886	bmh	SW 8260B
2-Butanone (MEK)	<12.5	ug/L	<12.5		12/02/2002			4886	bmh	SW 8260B
Carbon disulfide	<1.0	ug/L	<1.0		12/02/2002			4886	bmh	SW 8260B
Carbon tetrachloride	<1.0	ug/L	<1.0		12/02/2002			4886	bmh	SW 8260B
Chlorobenzene	<1.0	ug/L	<1.0		12/02/2002			4886	bmh	SW 8260B
Chloroethane	<5.0	ug/L	<5.0		12/02/2002			4886	bmh	SW 8260B
2-Chlorotoluene	<1.0	ug/L	<1.0		12/02/2002			4886	bmh	SW 8260B
4-Chlorotoluene	<1.0	ug/L	<1.0		12/02/2002			4886	bmh	SW 8260B
Chloroform	<1.0	ug/L	<1.0		12/02/2002			4886	bmh	SW 8260B
Chloromethane	<5.0	ug/L	<5.0		12/02/2002			4886	bmh	SW 8260B
Dibromochloromethane	<1.0	ug/L	<1.0		12/02/2002			4886	bmh	SW 8260B
Dibromomethane	<1.0	ug/L	<1.0		12/02/2002			4886	bmh	SW 8260B
Dichlorodifluoromethane	<1.0	ug/L	<1.0		12/02/2002			4886	bmh	SW 8260B
1,2-Dibromo-3-chloropropane	<5.0	ug/L	<5.0		12/02/2002			4886	bmh	SW 8260B
1,2-Dichlorobenzene	<1.0	ug/L	<1.0		12/02/2002			4886	bmh	SW 8260B
1,3-Dichlorobenzene	<1.0	ug/L	<1.0		12/02/2002			4886	bmh	SW 8260B
1,4-Dichlorobenzene	<1.0	ug/L	<1.0		12/02/2002			4886	bmh	SW 8260B

# TestAmerica, Incorporated

PAGE 16 of 19

## ANALYTICAL REPORT

Kevin Wildman  
 HULL & ASSOC. (Dublin)  
 6397 Emerald Parkway  
 Suite 200  
 Dublin, OH 43016

12/06/2002

Job Number: 02.23910

Client Project ID: South Bend Indiana SBI013

**SAMPLE NO.** 805316      **SAMPLE DESCRIPTION** SBI013:HP3S:G111802:505      **DATE/TIME TAKEN** 11/18/2002 12:20

	Result	Units	Reporting Limit	Flag	Date Analyzed	Time Analyzed	Prep Batch	Run Batch	Anal. Init.	Method Reference
1,1-Dichloroethane	<1.0	ug/L	<1.0		12/02/2002		4886	bmh	SW 8260B	
1,2-Dichloroethane	<1.0	ug/L	<1.0		12/02/2002		4886	bmh	SW 8260B	
1,1-Dichloroethene	<1.0	ug/L	<1.0		12/02/2002		4886	bmh	SW 8260B	
cis-1,2-Dichloroethene	<1.0	ug/L	<1.0		12/02/2002		4886	bmh	SW 8260B	
trans-1,2-Dichloroethene	<1.0	ug/L	<1.0		12/02/2002		4886	bmh	SW 8260B	
1,2-Dichloropropane	<1.0	ug/L	<1.0		12/02/2002		4886	bmh	SW 8260B	
1,3-Dichloropropane	<1.0	ug/L	<1.0		12/02/2002		4886	bmh	SW 8260B	
2,2-Dichloropropane	<1.0	ug/L	<1.0		12/02/2002		4886	bmh	SW 8260B	
1,1-Dichloropropene	<1.0	ug/L	<1.0		12/02/2002		4886	bmh	SW 8260B	
cis-1,3-Dichloropropene	<1.0	ug/L	<1.0		12/02/2002		4886	bmh	SW 8260B	
trans-1,3-Dichloropropene	<1.0	ug/L	<1.0		12/02/2002		4886	bmh	SW 8260B	
Ethylbenzene	<1.0	ug/L	<1.0		12/02/2002		4886	bmh	SW 8260B	
Hexachlorobutadiene	<5.0	ug/L	<5.0		12/02/2002		4886	bmh	SW 8260B	
n-Hexane	<5.0	ug/L	<5.0		12/02/2002		4886	bmh	SW 8260B	
2-Hexanone	<12.5	ug/L	<12.5		12/02/2002		4886	bmh	SW 8260B	
Isopropylbenzene (Cumene)	<1.0	ug/L	<1.0		12/02/2002		4886	bmh	SW 8260B	
p-Isopropyltoluene	<1.0	ug/L	<1.0		12/02/2002		4886	bmh	SW 8260B	
Bromomethane	<5.0	ug/L	<5.0		12/02/2002		4886	bmh	SW 8260B	
Methylene Chloride	<5.0	ug/L	<5.0		12/02/2002		4886	bmh	SW 8260B	
Methyl t-butyl ether (MTBE)	<5.0	ug/L	<5.0		12/02/2002		4886	bmh	SW 8260B	
4-Methyl-2-pentanone (MIBK)	<12.5	ug/L	<12.5		12/02/2002		4886	bmh	SW 8260B	
n-Propylbenzene	<1.0	ug/L	<1.0		12/02/2002		4886	bmh	SW 8260B	
Styrene	<1.0	ug/L	<1.0		12/02/2002		4886	bmh	SW 8260B	
Naphthalene	<5.0	ug/L	<5.0		12/02/2002		4886	bmh	SW 8260B	
1,1,1,2-Tetrachloroethane	<1.0	ug/L	<1.0		12/02/2002		4886	bmh	SW 8260B	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	<1.0		12/02/2002		4886	bmh	SW 8260B	
Tetrachloroethene	69.2	ug/L	<1.0		12/02/2002		4886	bmh	SW 8260B	
Toluene	<1.0	ug/L	<1.0		12/02/2002		4886	bmh	SW 8260B	
1,2,4-Trichlorobenzene	<5.0	ug/L	<5.0		12/02/2002		4886	bmh	SW 8260B	
1,1,1-Trichloroethane	<1.0	ug/L	<1.0		12/02/2002		4886	bmh	SW 8260B	
1,1,2-Trichloroethane	<1.0	ug/L	<1.0		12/02/2002		4886	bmh	SW 8260B	
Trichloroethene	<1.0	ug/L	<1.0		12/02/2002		4886	bmh	SW 8260B	



# TestAmerica, Incorporated

PAGE 17 of 19

## ANALYTICAL REPORT

Kevin Wildman  
 HULL & ASSOC. (Dublin)  
 6397 Emerald Parkway  
 Suite 200  
 Dublin, OH 43016

12/06/2002

Job Number: 02.23910

Client Project ID: South Bend Indiana SBI013

**SAMPLE NO.**                      **SAMPLE DESCRIPTION**    **DATE/TIME TAKEN**  
 805316                              SBI013:HP3S:G111802:505    11/18/2002 12:20

	Result	Units	Reporting		Date Analyzed	Time Analyzed	Prep Batch	Run Batch	Anal.	
			Limit	Flag					Init.	Method Reference
Trichlorofluoromethane	<1.0	ug/L	<1.0		12/02/2002		4886	bmh	SW	8260B
1,2,3-Trichloropropane	<5.0	ug/L	<5.0		12/02/2002		4886	bmh	SW	8260B
1,2,4-Trimethylbenzene	<1.0	ug/L	<1.0		12/02/2002		4886	bmh	SW	8260B
1,3,5-Trimethylbenzene	<1.0	ug/L	<1.0		12/02/2002		4886	bmh	SW	8260B
Vinyl Acetate	<5.0	ug/L	<5.0		12/02/2002		4886	bmh	SW	8260B
Vinyl Chloride	<1.0	ug/L	<1.0		12/02/2002		4886	bmh	SW	8260B
Xylenes	<1.0	ug/L	<1.0		12/02/2002		4886	bmh	SW	8260B
d4-1,2-Dichloroethane (surr)	111	%	80-120		12/02/2002		4886	bmh	SW	8260B
Dibromofluoromethane (surr)	105	%	86-118		12/02/2002		4886	bmh	SW	8260B
d8-Toluene (surr)	97	%	88-110		12/02/2002		4886	bmh	SW	8260B
Bromofluorobenzene (surr)	100	%	86-115		12/02/2002		4886	bmh	SW	8260B

# TestAmerica, Incorporated

PAGE 18 of 19

## QUALITY CONTROL FLAG DEFINITIONS

Job Number: 02.23910

(\*) Indicates an out-of-control QC. The analytical data was reported based on other supporting quality control information.

(Note) Indicates to review the notes and comments section of the analytical report as there is additional information concerning this analytical result.

(MS) Indicates that the Matrix Spike (MS) was out of statistical advisory limits.

(MSD) Indicates that the Matrix Spike Duplicate (MSD) was out of statistical advisory limits.

(RPD) Indicates that the Relative Percent Difference (RPD) for the MS/MSD pair was outside of statistical advisory limits.

(SS) Indicates that the MS and MSD were out of statistical advisory limits.

(SSR) Indicates that the MS, MSD and RPD were out of statistical advisory limits.

(MSR) Indicates that the MS and RPD were out of statistical advisory limits.

(MSDR) Indicates that the MSD and RPD were out of statistical advisory limits.

(DL) Indicates that the MS and MSD were diluted out and the percent recoveries of the spikes could not be calculated.

(LS) Indicates that statistical accuracy and precision data is not available for spike concentrations which are  $< 1/4$  of the sample amount. Care should be used in interpreting this data.

(J) Indicates estimated concentration due to internal standard areas or surrogate recoveries outside of control limits. A sample matrix effect is usually indicated.

(DW) Indicates Dry Weight.

### Analytical Reporting Limits

The reporting limits listed for non-aqueous samples in the analytical report section are Practical Quantitation Limits (PQLs). These PQLs are based upon a typical standard weight used for a non-aqueous sample. The reporting limit for a sample may be different from the PQL listed depending upon the actual weight of sample used, the samples moisture content and any dilutions used during the analysis.

## TestAmerica, Incorporated

PAGE 19 of 19

### NOTES AND COMMENTS

TestAmerica Job Number: 02.23910

Sample Number: 805313, 805314

Analysis: 7669 Ignitability

Unable to continue analysis due to water or other vapor extinguishing flame.

Sample Number: 805313

Analysis: 8270 BNA

The d12-chrysene and d12-perylene internal standards were below the recommended response levels. Results for the following should be considered estimates:

pyrene, benzo(a)anthracene, chrysene,  
benzo(b)fluoranthene, benzo(k)fluoranthene,  
benzo(a)pyrene, and indeno(1,2,3-c,d)pyrene

Sample Number: 805314

Analysis: 8270 BNA

The sample extract would not concentrate below 1 ml (normal is 0.5 ml). A ten-fold dilution was performed to reduce chromatographic interferences. Reporting limits are elevated accordingly.

The d12-chrysene and d12-perylene internal standards were below the recommended response levels. Results for the following should be considered estimates:

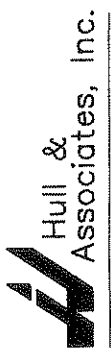
pyrene and bis(2-ethylhexyl)phthalate

The surrogate compounds were diluted below their reporting limits.

70410

# CHAIN OF CUSTODY RECORD

NO. 07475



Dublin  
 6130 Wilcox Road  
 Dublin, Ohio 43016  
 Phone: (614) 385-8777  
 Fax: (614) 385-9070

Toledo  
 3401 Glendale Avenue  
 Suite 300  
 Toledo, Ohio 43614  
 Phone: (419) 385-2018  
 Fax: (419) 385-5489

Mason  
 4700 Dulke Drive  
 Suite 172  
 Mason, Ohio 45040  
 Phone: (513) 459-9677  
 Fax: (513) 459-9869

Solon  
 6161 Cochran Road  
 Suite A  
 Solon, Ohio 44139  
 Phone: (440) 519-2555  
 Fax: (440) 519-2560

REPORT TO: Kevin W. Amann

Client: City of South Bend  
 Site: Area A  
 Project#: SBI013 Phase: \_\_\_\_\_  
 Samplers: M. Young

ANALYSES	PRESERVATIVES
VOC - B270	A A4 A A V A A A A A B
VOC - B260	A A4 A A V A A A A A B
TCR Metals 6010	A A4 A A V A A A A A B
reactive cyanide 7.35-7.11	A A4 A A V A A A A A B
IGN. Sulfide 7.35-7.11	A A4 A A V A A A A A B
Corrosivity 7.35-7.11	A A4 A A V A A A A A B
Lead & Arsenic 6010	A A4 A A V A A A A A B

**SAMPLE TYPES:**  
 A - AIR  
 B - ASPHALT  
 C - SEDIMENT  
 D - GROUNDWATER  
 E - PRODUCT  
 F - WATERS  
 G - OTHERS  
 H - ALL SAMPLES ARE KEPT AT 4°C

**PRESERVATIVES:**  
 A - Cool only, <4°C  
 B - HNO<sub>3</sub>, pH<2  
 C - H<sub>2</sub>SO<sub>4</sub>, pH<2  
 D - NaOH, pH>12  
 E - Zinc acetate + NaOH, pH>9  
 F - Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> (0.008%)  
 G - HCl, pH<2

**METALS:**  
 A - FILTERED  
 B - UNFILTERED  
 C - BOTH

PROJECT NO.	SAMPLE LOCATION	SAMPLE TYPE	SAMPLER ID	NO. OF CONT.	METALS	SAMPLING DATE/TIME	COMMENTS
SBI013	HPB3	S000020	S05	4	NA	11-18-02 10:20	X X X X X
SBI013	HPB8	S000020	S05	4	NA	11-18-02 14:50	X X X X X
SBI013	HR3D	6111802	S05	4	N	11-18-02 11:35	X X X X X
SBI013	HP3S	6111802	S05	4	N	11-18-02 12:20	X X X X X
:	:	:	:	:	:	:	
:	:	:	:	:	:	:	
:	:	:	:	:	:	:	
:	:	:	:	:	:	:	
:	:	:	:	:	:	:	
:	:	:	:	:	:	:	
:	:	:	:	:	:	:	
:	:	:	:	:	:	:	
:	:	:	:	:	:	:	
:	:	:	:	:	:	:	
:	:	:	:	:	:	:	
:	:	:	:	:	:	:	

RELINQUISHED BY: M. Young DATE: 11-30-02 TIME: 11-21-02

RECEIVED BY: FedEx DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

RECEIVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

RECEIVED FOR LAB BY: W. Young DATE: 11-29-02 TIME: 09-00

DISTRIBUTION:  
 WHITE --- LAB USE (MUST BE RETURNED WITH REPORT)  
 YELLOW --- LAB USE  
 PINK --- RETAINED BY HAI

COOLER TEMPERATURE AS RECEIVED: 2 °C

Deliver To: Test America  
 Method of Delivery: Fed Ex  
 Airbill Number: 8348 8843 7205

NOTES:

TURN AROUND TIME: 5 DAYS

1000 300.0158.DMC 07/26/99 RMAC

621185