

RECEIVED

JAN 26 2007

January 23, 2007

DNR - SUPERIOR

Ms. Phyllis Holmbeck
Wisconsin Department of Natural Resources - Air Management Bureau
Northern Region, Superior Area Office
1401 Tower Avenue, Superior, WI 54880

Subject: **Report of 2006 Air Emissions from VE-TFRT System**
Terminal Property at the Former Amoco Terminal #406
2904 Winter Street, Superior, WI 54880
Delta Project No. G006N
BRRTS No. 02-16-000331

Dear Ms. Holmbeck,

Delta Environmental Consultants, Inc., on behalf of Atlantic Richfield Company, submits this report of the air monitoring conducted in 2006 of the vacuum-enhanced total fluids recovery and treatment (VE-TFRT) system located at the Terminal Property (a.k.a. Lake City Towing Property) (Figure 1).

Based on the 2006 data, emission rates did not exceed the 5.7 pounds per hour for volatile organic compound (VOCs) and 300 pounds per year for benzene thresholds established by NR 407 and NR 445, respectively. Therefore, the exemption from operating permits set forth in NR 407.03(1)(sm)2 will continue to be applied to this site.

Total estimated VOC (THC-gas) emissions, from both the soil vacuum extraction and air stripping discharges, averaged between 0.16 and 0.70 pounds per hour during 2006. The combined total benzene emitted in 2006 was estimated at 36 pounds (Tables 1 and 2).

As you know, emissions resulting from remedial efforts at this site are reported and managed separately from the recovery systems at the former Barge Dock Property (BRRTS Nos. 02-16-297993, 02-16-117873, and 0216-284811) located north across Winter Street due to separate releases and different property owners.

Emissions monitoring and sampling of the VE-TFRT system will be performed on a quarterly basis in 2007.



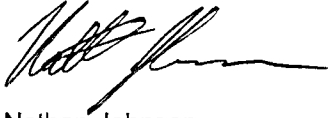
a member of:



Please contact me at 262-794-8578 with any questions or comments.

Sincerely,

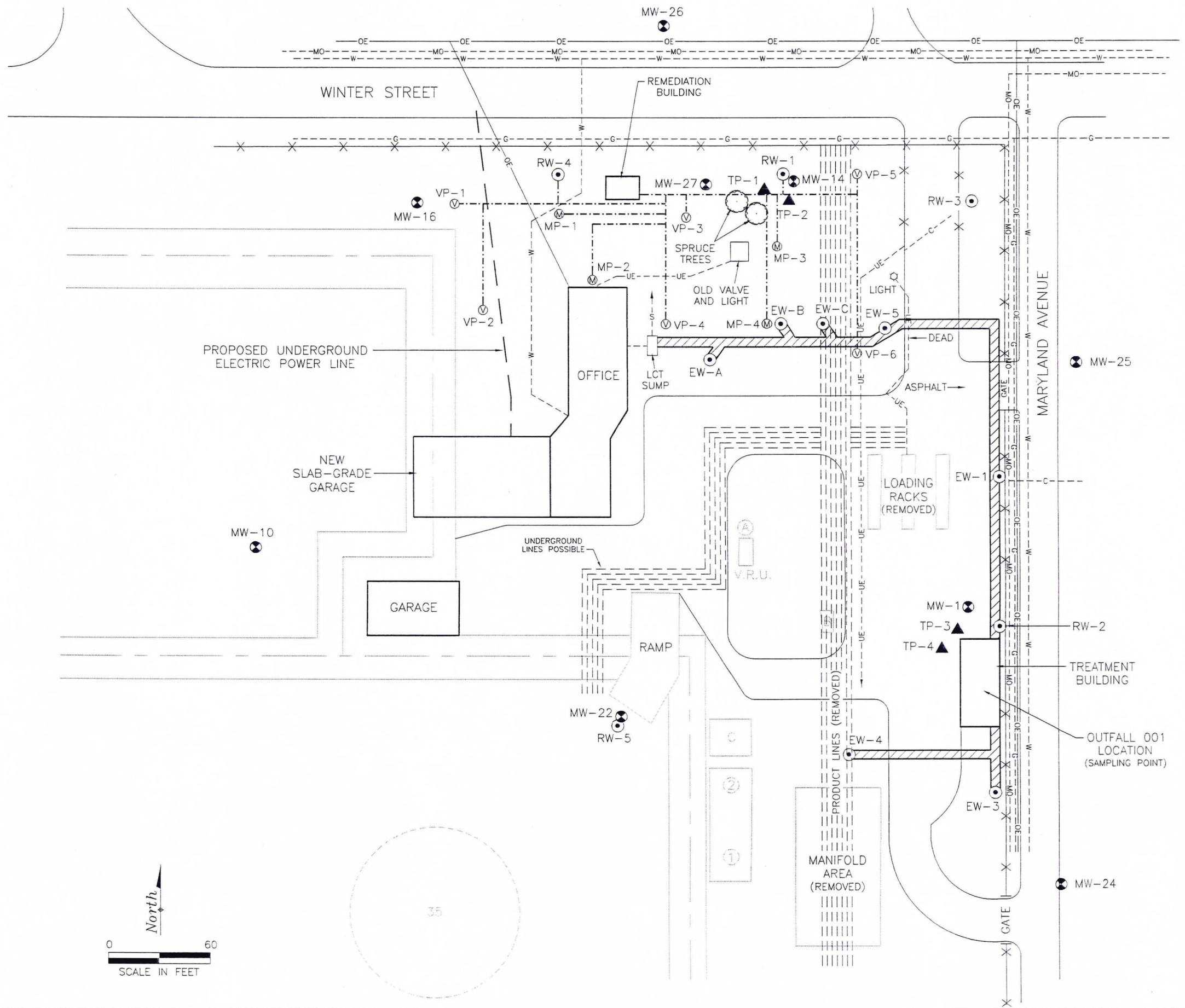
DELTA ENVIRONMENTAL CONSULTANTS, INC.



Nathan Johnson
Project Specialist
njohnson@deltaenv.com

c: Dave Kalet, Atlantic Richfield
Jim Hosch, WDNR

Enclosures: Figure 1 – Site Map
Table 1 – SVE Emission Summary
Table 2 – Air Stripping Emission Summary
Pace Analytical Reports 1026583, 1030691, 1035553, and 1040373



- LEGEND:**
- (M) PROPOSED ADDITIONAL VAPOR POINT
 - (V) PROPOSED MONITORING POINT
 - BURIED SOIL VENT LINES
 - (X) MONITORING WELL LOCATION
 - (O) RECOVERY WELL LOCATION
 - (▲) TEST POINT WELL
 - FENCE LINE
 - (A) UNDERGROUND STORAGE TANK LOCATION (REMOVED)
 - (35) ABOVE GROUND STORAGE TANK LOCATION (REMOVED)
 - OE --- OVERHEAD ELECTRIC LINE
 - UE --- UNDERGROUND ELECTRIC LINE
 - MO --- MURPHY OIL LINE
 - C --- COMMUNICATION LINE
 - G --- GAS LINE
 - W --- WATER LINE
 - S --- SEWER LINE
 - /// TRENCH

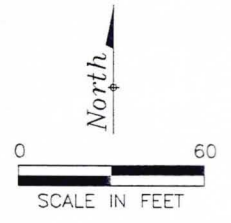
NOTE:
 EW-A, EW-B AND EW-C ARE PIPING STUB-UP BURIED UNDERGROUND WITH A METAL PLATE FOR FUTURE SYSTEM EXPANSION.

AS-BUILD

THIS DRAWING IS INTENDED TO SUPPLEMENT PROJECT DRAWINGS AND SPECIFICATIONS, WHICH TOGETHER SHALL BE USED FOR PERFORMING THE WORK. ALL BUILDING LAWS, RULES, AND REGULATIONS, HAVING JURISDICTION OVER THIS PROJECT SHALL BE PART OF THE DRAWINGS AND SPECIFICATIONS PREPARED BY THE OWNER AND THE CONTRACTOR PERFORMING THE WORK AND SHALL BE COMPLIED WITH BY THE OWNER AND THE CONTRACTOR.

REVISION	DATE	DESCRIPTION	DRAWN	REVIEW

FIGURE 1
 EXTRACTION WELLS AND TRENCH LAYOUT
 FORMER AMOCO TERMINAL NO. 406
 2904 WINTER STREET
 SUPERIOR, WISCONSIN



PROJECT NO.: G006N-RP53
 PREPARED BY: NJ
 FILE NAME: 406-G3 Rev 1

DRAWN BY: DD
 DATE: 1/12/05



Table 1
SVE Emission Summary

VE-TFRT System
Terminal Property at Former Amoco Superior Terminal No. 406
2904 Winter Street, Superior, Wisconsin
Delta Project No. G006N

Quarter	Date Monitored	% SVE Running	Total Hours in Quarter	Process Air Flow (outlet)	THC-G	Benzene	THC-G Emission Rate (SVE THC-G Recovery Rate)	Cumulative Annual Benzene Emitted
		(%)	(hours)	(SCFM)	(ppmV)	(ppmV)	(lb/hr)	(lb)
Qtr 1	1/7/2006	91.5%	2160	272	44.1	0.91	0.18	6
Qtr 2	4/12/2006	98.2%	2184	248	39.0	1.0	0.15	13
Qtr 3	7/20/2006	73.2%	2208	262	19	0.48	0.07	15
Qtr 4	10/18/2006	84.4%	2208	270	152	3.4	0.62	36
NR 445 / NR 407 Limits							5.7 lbs/hr	300 lbs/yr

Notes:

All emissions values are estimations based on system operational data and air bag sample analyses.

SCFM = Based on measured air velocity pressure and temperature correlation

THC Emission Rate = (SCFM)(THC-G ppmV)(60 min/hr)(MW)/(1,000,000)(379 scf/mole)

where MW = 95 lb/lb-mole for molecular weight of gasoline

Cumulative Benzene Emitted = (% SVE Running)(Total Qtr Hours)(SCFM)(Benzene ppmV)(60 min/hr)(MW)/(1,000,000)(379 scf/mole)

where MW = 78.11 lb/lb-mole for molecular weight of gasoline

THC-G = Total Hydrocarbons as Gasoline in parts per million - volume (ppmV)

% SVE Running from Motor Download Report

Table 2
Air Stripping Emission Summary

VE-TFRT System
Terminal Property at Former Amoco Superior Terminal No. 406
2904 Winter Street, Superior, Wisconsin
Delta Project No. G006N

Quarter	Date Monitored	% Air Stripper Running	Total Hours in Quarter	Process Air Flow (outlet)	THC-G	Benzene	THC-G Emission Rate (Air Stripper THC-G Recovery Rate)	Cumulative Annual Benzene Emitted
		(%)	(hours)	(SCFM)	(ppmV)	(ppmV)	(lb/hr)	(lb)
Qtr 1	1/7/2006	7.6%	2160	374	3.7	0.0	0.02	0.0
Qtr 2	4/12/2006	12.8%	2184	366	6.1	0.0	0.03	0.0
Qtr 3	7/20/2006	12.0%	2208	359	17	0.0	0.09	0.0
Qtr 4	10/18/2006	13.7%	2208	368	14.1	0.0	0.08	0.0
<i>NR 445 / NR 407 Limits</i>							<i>5.7 lbs/hr</i>	<i>300 lbs/yr</i>

Notes:

All emissions values are estimations based on system operational data and air bag sample analyses.

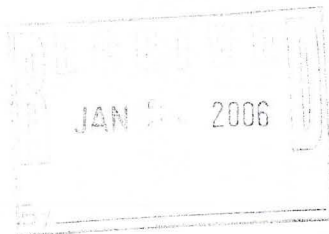
SCFM = Based on measured air velocity pressure and temperature correlation

THC Emission Rate = (SCFM)(THC-G ppmV)(60 min/hr)(MW)/(1,000,000)(379 scf/mole)
where MW = 95 lb/lb-mole for molecular weight of gasoline

Cumulative Benzene Emitted = (% AS Running)(Total Qtr Hours)(SCFM)(Benzene ppmV)(60 min/hr)(MW)/(1,000,000)(379 scf/mole)
where MW = 78.11 lb/lb-mole for molecular weight of gasoline

THC-G = Total Hydrocarbons as Gasoline in parts per million - volume (ppmV)

% AS Running from Motor Download Report



January 19, 2006

Mr. Tim Mueller
BP-Delta-Wisconsin
c/o Delta Environmental
17500 W. Liberty Lane, Suite A
New Berlin, WI 531462109

RE: Project: 1026583
Project ID: G006N 406

Dear Mr. Mueller:

Enclosed are the analytical results for sample(s) received by the laboratory on January 18, 2006. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ognjenka Krupljanin
ognjenka.krupljanin@pacelabs.com

Illinois Certification #: 200011
Iowa Certification #: 368
Minnesota Certification #: 027-053-137
Wisconsin Certification #: 999407970

Enclosures

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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SAMPLE SUMMARY

Project: 1026583
Project ID: G006N 406

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1026583001	AIR DISCHARGE-STRIPPER	Air	01/17/06 15:45	01/18/06 09:20
1026583002	AIR DISCHARGE-SVE	Air	01/17/06 15:45	01/18/06 09:20

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SAMPLE ANALYTE COUNT

Project: 1026583
Project ID: G006N 406

Lab ID	Sample ID	Method	Analytes Reported
1026583001	AIR DISCHARGE-STRIPPER	TO-3 Air	6
1026583002	AIR DISCHARGE-SVE	TO-3 Air	6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1026583

Project ID: G006N 406

The results are reported as received by the laboratory.

Lab ID: 1026583001 Date Collected: 01/17/06 15:45 Matrix: Air
Sample ID: AIR DISCHARGE-STRIPPER Date Received: 01/18/06 09:20

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
Air											
TO3 GCV AIR BTEX BAG			Analytical Method: TO-3 Air								
Benzene	ND	ppmv	0.10	1			01/18/06 14:48	LCW	71-43-2		
Ethylbenzene	ND	ppmv	0.10	1			01/18/06 14:48	LCW	100-41-4		
THC as Gas	3.7	ppmv	1.0	1			01/18/06 14:48	LCW			
Toluene	ND	ppmv	0.10	1			01/18/06 14:48	LCW	108-88-3		
m&p-Xylene	ND	ppmv	0.20	1			01/18/06 14:48	LCW	1330-20-7		
o-Xylene	ND	ppmv	0.10	1			01/18/06 14:48	LCW	95-47-6		

Lab ID: 1026583002 Date Collected: 01/17/06 15:45 Matrix: Air
Sample ID: AIR DISCHARGE-SVE Date Received: 01/18/06 09:20

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
Air											
TO3 GCV AIR BTEX BAG			Analytical Method: TO-3 Air								
Benzene	0.91	ppmv	0.10	1			01/18/06 15:21	LCW	71-43-2		
Ethylbenzene	ND	ppmv	0.10	1			01/18/06 15:21	LCW	100-41-4		
THC as Gas	44.1	ppmv	1.0	1			01/18/06 15:21	LCW			
Toluene	1.1	ppmv	0.10	1			01/18/06 15:21	LCW	108-88-3		
m&p-Xylene	0.24	ppmv	0.20	1			01/18/06 15:21	LCW	1330-20-7		
o-Xylene	ND	ppmv	0.10	1			01/18/06 15:21	LCW	95-47-6		

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ANALYTICAL RESULTS QUALIFIERS

Project: 1026583

Project ID: G006N 406

PARAMETER QUALIFIERS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1026583
Project ID: G006N 406

QC Batch: AIR/3297 Analysis Method: TO-3 Air
QC Batch Method: TO-3 Air Analysis Description: TO3 GCV AIR BTEX CAN
Associated Lab Samples: 1026583001 1026583002

METHOD BLANK: 181744
Associated Lab Samples: 1026583001 1026583002

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
THC as Gas	ppmv	ND	1.0	

METHOD BLANK: 181744
Associated Lab Samples: 1026583001 1026583002

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Benzene	ppmv	ND	0.10	
Ethylbenzene	ppmv	ND	0.10	
m&p-Xylene	ppmv	ND	0.20	
o-Xylene	ppmv	ND	0.10	
Toluene	ppmv	ND	0.10	

LABORATORY CONTROL SAMPLE: 181745

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
THC as Gas	ppmv	10	12.2	122	60-134	

LABORATORY CONTROL SAMPLE: 181745

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ppmv	1	0.85	85	60-138	
Ethylbenzene	ppmv	1	0.91	91	50-150	
m&p-Xylene	ppmv	2	1.7	87	64-146	
o-Xylene	ppmv	1	0.81	81	69-137	
Toluene	ppmv	1	0.81	81	61-140	

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QUALITY CONTROL DATA

Project: 1026583
Project ID: G006N 406

SAMPLE DUPLICATE: 181747

Parameter	Units	1026581001 Result	DUP Result	RPD	Max RPD Qualifiers
THC as Gas	ppmv		62.9	2	30

SAMPLE DUPLICATE: 181747

Parameter	Units	1026581001 Result	DUP Result	RPD	Max RPD Qualifiers
Benzene	ppmv		0.82	8	30
Ethylbenzene	ppmv		ND	0	30
m&p-Xylene	ppmv		ND	0	30
o-Xylene	ppmv		ND	0	30
Toluene	ppmv		0.67	9	30

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QUALITY CONTROL DATA QUALIFIERS

Project: 1026583
Project ID: G006N 406

QUALITY CONTROL PARAMETER QUALIFIERS

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

REPORT OF LABORATORY ANALYSIS

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1026583

Chain of Custody Record

Project Name Superior Former Amoco Terminal No. 406
BP BU/AR Region/Enfos Segment: Mid-Continent BU / Retail
State or Lead Regulatory Agency Wisconsin

On-site Time: _____ Temp: _____
 Off-site Time: _____ Temp: _____
 Sky Conditions: _____
 Meteorological Events: _____
 Wind Speed: _____ Direction: _____

YEAR 2006 **Requested Due Date (mm/dd/yy)** _____ **Standard TAT** _____

COC TRACKING No.

Lab Name: Pace Analytical Services	BP/AR Facility No.: 406	Consultant/Contractor: Delta Environmental Consultants
Lab Address: 1700 Elm St., Ste. 200, Minneapolis, MN 55414	BP/AR Facility Address: 2904 Winter Street	Address: 17500 W. Liberty Lane, Ste. A New Berlin, WI 53146-2109
Lab PM: Ogr Kropfjann	Site Lat/Long:	e-mail EDD to: tmueller@deltaenv.com
Tele/Fax: 612-607-6323 / 612-607-6444	California Global ID #:	Consultant/Contractor Project No.: G006N
BP/AR PM Contact Name: Ray Stoelting	Enfos Project No.: G006N-	Consultant Tele/Fax: 262-827-3982 / 262-789-5483
Address: PO Box 642, Chanhassen, MN 55317-9998	Provision or RCOP: Provision	Consultant/Contractor PM: Tim Mueller
Tele/Fax: 952-975-3817 / 612 747-9565	Phase/WBS: 06	Invoice to: Consultant or BP or AR Co (Circle one)
	Sub Phase/Task: 03	Report Type & QC level: BP Level I
	Cost Element: 05	

Item No.	Sample Description	Time	Date	Matrix			Laboratory Tracking No.	Preservatives					Requested Analysis				Sample Point Lat/Long and Comments	
				Soil/Solid	Water/Liquid	Air		Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	BTEX TO-3	THC TO-3				
1	AIR DISCHARGE - STRIPPER	15:45	1/17/2006			X	1						X	X				AIR STRIPPER 1026583001
2	AIR DISCHARGE - SVE	15:45	1/17/2006			X	1						X	X				SVE SYSTEM 002
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

Sampler's Full Name: Ed Heytens	Relinquished By / Affiliation(Sign): <i>Ed Heytens</i>	Date: 1/17/06	Time: 15:45	Accepted By / Affiliation(Sign): <i>Tim Mueller</i>	Date: 1-18-06	Time: 09:30
Sampler's Company: Delta Environmental						
Shipment Date:						
Shipment Method: UPS						
Shipment Tracking No.:						

Special Instructions:

Custody Seals In Place (circle one) Y N Temp Blank (circle one) Y N Cooler Temperature on Receipt Y N Trip Blank Y N (Circle one)

Distribution: White Copy - Laboratory / Yellow Copy - BP/GEM / Pink Copy - Consultant/Contractor BP COC Rev. 10/1/04



Sample Condition: Open Receipt

Client Name: BP DELTA-WI Project # 1026583

Carrier: Fed Ex UPS USPS Client Commercial Pace Other _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used 230194010

Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature AMB

Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Comments:

Optional:
 Date: 1-18-06
 Proj. Name: TH

Chain of Custody Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>AIR (BAG)</u>		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: OKD Date: 1-18-06

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

COPY

April 27, 2006

Mr. Tim Mueller
BP-Delta-Wisconsin
c/o Delta Environmental
17500 W. Liberty Lane, Suite A
New Berlin, WI 531462109

RE: Project: G006N 406
Pace Project No.: 1030691

Dear Mr. Mueller:

Enclosed are the analytical results for sample(s) received by the laboratory on April 14, 2006. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Seth Jacobson

seth.jacobson@pacelabs.com
Project Manager

Illinois Certification #: 200011
Iowa Certification #: 368
Minnesota Certification #: 027-053-137
Wisconsin Certification #: 999407970

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 8

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SAMPLE SUMMARY

Project: G006N 406
Pace Project No.: 1030691

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1030691001	AIR DISCHARGE-STRIPPER	Air	04/12/06 14:55	04/14/06 09:20
1030691002	AIR DISCHARGE-SVE	Air	04/12/06 14:55	04/14/06 09:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: G006N 406
Pace Project No.: 1030691

Lab ID	Sample ID	Method	Analytes Reported
1030691001	AIR DISCHARGE-STRIPPER	TO-3 Air	6
1030691002	AIR DISCHARGE-SVE	TO-3 Air	6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: G006N 406

Pace Project No.: 1030691

Sample: AIR DISCHARGE-STRIPPER		Lab ID: 1030691001	Collected: 04/12/06 14:55	Received: 04/14/06 09:20	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO3 GCV AIR BTEX BAG		Analytical Method: TO-3 Air						
Benzene	ND	ppmv	0.10	1		04/14/06 18:09	71-43-2	
Ethylbenzene	0.18	ppmv	0.10	1		04/14/06 18:09	100-41-4	
THC as Gas	6.1	ppmv	1.0	1		04/14/06 18:09		
Toluene	ND	ppmv	0.10	1		04/14/06 18:09	108-88-3	
m&p-Xylene	ND	ppmv	0.20	1		04/14/06 18:09	1330-20-7	
o-Xylene	ND	ppmv	0.10	1		04/14/06 18:09	95-47-6	

Sample: AIR DISCHARGE-SVE		Lab ID: 1030691002	Collected: 04/12/06 14:55	Received: 04/14/06 09:20	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO3 GCV AIR BTEX BAG		Analytical Method: TO-3 Air						
Benzene	1.0	ppmv	0.10	1		04/17/06 15:05	71-43-2	1
Ethylbenzene	ND	ppmv	0.10	1		04/17/06 15:05	100-41-4	
THC as Gas	39.0	ppmv	1.0	1		04/17/06 15:05		
Toluene	1.2	ppmv	0.10	1		04/17/06 15:05	108-88-3	
m&p-Xylene	0.21	ppmv	0.20	1		04/17/06 15:05	1330-20-7	
o-Xylene	0.069J	ppmv	0.10	1		04/17/06 15:05	95-47-6	

ANALYTICAL RESULTS QUALIFIERS

Project: G006N 406
Pace Project No.: 1030691

PARAMETER QUALIFIERS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

ANALYTE QUALIFIERS

[1] The tedlar bag analyzed outside 48 hours from collection.

QUALITY CONTROL DATA

Project: G006N 406
Pace Project No.: 1030691

QC Batch: AIR/3769 Analysis Method: TO-3 Air
QC Batch Method: TO-3 Air Analysis Description: TO3 GCV AIR BTEX CAN
Associated Lab Samples: 1030691002

METHOD BLANK: 207577
Associated Lab Samples: 1030691002

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Benzene	ppmv	ND	0.10	
THC as Gas	ppmv	ND	1.0	
Ethylbenzene	ppmv	ND	0.10	
m&p-Xylene	ppmv	ND	0.20	
o-Xylene	ppmv	ND	0.10	
Toluene	ppmv	ND	0.10	

LABORATORY CONTROL SAMPLE & LCSD: 207578

207579

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
THC as Gas	ppmv	10	8.3	8.8	83	88	60-134	5	30	
Benzene	ppmv	1	1.2	1.0	121	102	60-138	17	30	
Ethylbenzene	ppmv	1	0.87	0.78	87	78	50-150	11	30	
m&p-Xylene	ppmv	2	1.8	1.6	89	79	64-146	12	30	
o-Xylene	ppmv	1	0.78	0.72	78	72	69-137	8	30	
Toluene	ppmv	1	0.97	0.82	97	82	61-140	17	30	

QUALITY CONTROL DATA QUALIFIERS

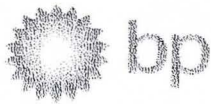
Project: G006N. 406
Pace Project No.: 1030691

QUALITY CONTROL PARAMETER QUALIFIERS

- Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
- LCS(D) - Laboratory Control Sample (Duplicate)
- MS(D) - Matrix Spike (Duplicate)
- DUP - Sample Duplicate
- RPD - Relative Percent Difference
- ND - Not Detected at or above adjusted reporting limit.
- J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
- MDL - Adjusted Method Detection Limit.
- S - Surrogate

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Chain of Custody Record

1030691

Project Name: Superior Farmer Amoco Terminal No. 406
 BP BU/AR Region/Enfos Segment: Mid-Continent BU / Retail
 State or Lead Regulatory Agency: Wisconsin
 Requested Due Date (mm/dd/yy): Standard TAT

On-site Time: Temp:
 Off-site Time: Temp:
 Sky Conditions:
 Meteorological Events:
 Wind Speed: Direction:

YEAR: 2006
 CDC TRACKING No.:

Lab Name:	Face Analytical Services	BP/AR Facility No.:	406
Lab Address:	1700 Elm St. Ste. 200, Minneapolis, MN 55414	BP/AR Facility Address:	2984 Winter Street
Lab PM:	Orti Koppantia	Site Lat/Long:	
Tele/Fax:	612-681-8333 / 612-697-6444	California Global ID #:	
BP/AR PM Contact Name:	David Isadet	Enfos Project No.:	68067N
Address:	29700 Torch Parkway - Mail Code 20 - Wauwatosa, IL 53228	Provision or RCOP:	Provision
Tele/Fax:	630-838-7117 / 630-838-7193	Phase WBS:	03
		Sub Phase/Task:	35
		Cost Element:	05

Consultant/Contractor: Delta Environmental Consultants
 Address: 17500 W. Liberty Lane, Ste. A, New Berlin, WI 53146-2109
 e-mail EDD to: tmueller@deltaenv.com
 Consultant/Contractor Project No.: 68067N
 Consultant Tele/Fax: 262-807-5142 / 262-789-5448
 Consultant/Contractor PM: Tim Mueller
 Invoice to: Consultant or BP or AR CA (Circle one)
 Report Type & QC level: BP Level 1

Item No.	Sample Description	Time	Date	Matrix			Laboratory Tracking No.	No. of containers	Preservatives					Requested Analysis		Sample Point Lat/Long and Comments
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	BTEX TO-3	THC TO-3	
1	AIR DISCHARGE - STRIPPER	14:53	4/12/2006			X		1						X	X	AIR STRIPPER 1030691001
2	AIR DISCHARGE - SVE	19:53	4/12/2006			X		1						X	X	SVE SYSTEM 002
3																
4																
5																
6																
7																
8																
9																
10																

Sampler's Full Name:	Ed Reystens	Relinquished By / Affiliation(Sign):	Date:	Time:	Accepted By / Affiliation(Sign):	Date:	Time:
Sampler's Company:	Delta Environmental	<i>Ed Reystens</i>	4-12-06	19:53	<i>Tim Mueller</i>	4/12/06	09:30
Shipment Date:							
Shipment Method:	Fedex						
Shipment Tracking No.:							

Special Instructions:

Custody Seals In Place (circle one): Y N Temp Blank (circle one): Y N Cooler Temperature on Receipt F/C (circle one): Y N Trip Blank Y N (Circle one)

Distribution: White Copy - Laboratory / Yellow Copy - BP/GEM / Pink Copy - Consultant/Contractor
 BP COC Rev. 4-10/1/04

Sample Condition Upon Receipt



Client Name: BP-DELTA-WI Project # 1030691

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used 230194010

Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature Amb

Biological Tissue is Frozen: Yes No

Optional
Proj. Due Date:
Proj. Name:

Date and Initials of person examining contents: 4-14-06 [Signature]

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>AA (COC)</u>		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>8mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: SOT

Date: 4/14/06

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

August 15, 2006

Mr. Rick Carney
BP-Delta-Wisconsin
c/o Delta Environmental
175 North Patrick Blvd
Brookfield, WI 53045

RE: Project: G006N 406
Pace Project No.: 1035553

Dear Mr. Carney:

Enclosed are the analytical results for sample(s) received by the laboratory on July 21, 2006. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Seth Jacobson

seth.jacobson@pacelabs.com
Project Manager

Illinois Certification #: 200011
Iowa Certification #: 368
Minnesota Certification #: 027-053-137
Wisconsin Certification #: 999407970

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 6

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SAMPLE SUMMARY

Project: G006N 406
Pace Project No.: 1035553

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1035553001	AIR DISCHARGE-STRIPPER	Air	07/20/06 14:15	07/21/06 08:55
1035553002	AIR DISCHARGE-SVE	Air	07/20/06 14:20	07/21/06 08:55

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: G006N 406
Pace Project No.: 1035553

Lab ID	Sample ID	Method	Analytes Reported
1035553001	AIR DISCHARGE-STRIPPER	TO-14 Ambient Air	9
1035553002	AIR DISCHARGE-SVE	TO-14 Ambient Air	9

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Client: BP-Delta-Wisconsin
Phone: 262-827-4217

Lab Project Number: 1035553
Project Name: G006N 406

Lab Sample No: 1035553001 ProjSampleNum: 1035553001 Date Collected: 07/20/06 14:15
Client Sample ID: AIR DISCHARGE-STRIPPER Matrix: Air Date Received: 07/21/06 8:55

Parameters	Results	Units	Report Limi	DF	Analyzed	CAS No.	Ftnote
Air							
TO-14 Ambient A							
Benzene	ND	ppmv	0.44	870	08/11/06 6:02 HRG	71-43-2	1M,QA4
Ethylbenzene	ND	ppmv	0.44	870	08/11/06 6:02 HRG	100-41-4	
m&p-Xylene	ND	ppmv	0.87	870	08/11/06 6:02 HRG	1330-20-7	
o-Xylene	ND	ppmv	0.44	870	08/11/06 6:02 HRG	95-47-6	
THC as Gas	ND	ppmv	17	870	08/11/06 6:02 HRG		IC
Toluene	ND	ppmv	0.44	870	08/11/06 6:02 HRG	108-88-3	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT
Units Conversion Request

ANALYTICAL RESULTS

Client: BP-Delta-Wisconsin
Phone: 262-827-4217

Lab Project Number: 1035553
Project Name: G006N 406

Lab Sample No: 1035553002 ProjSampleNum: 1035553002 Date Collected: 07/20/06 14:20
Client Sample ID: AIR DISCHARGE-SVE Matrix: Air Date Received: 07/21/06 8:55

Parameters	Results	Units	Report Limi	DF	Analyzed	CAS No.	Fnote
Air							
TO-14 Ambient A							
Benzene	ND	ppmv	0.48	965	08/11/06 6:48 HRG	71-43-2	1M, □A4
Ethylbenzene	ND	ppmv	0.48	965	08/11/06 6:48 HRG	100-41-4	
m&p-Xylene	ND	ppmv	0.96	965	08/11/06 6:48 HRG	1330-20-7	
o-Xylene	ND	ppmv	0.48	965	08/11/06 6:48 HRG	95-47-6	
THC as Gas	ND	ppmv	19	965	08/11/06 6:48 HRG		IC
Toluene	ND	ppmv	0.48	965	08/11/06 6:48 HRG	108-88-3	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request

ANALYTICAL RESULTS

Client: BP-Delta-Wisconsin
Phone: 262-827-4217

Lab Project Number: 1035553
Project Name: G006N 406

PARAMETER FOOTNOTES

- ND Not detected at or above adjusted reporting limit
NC Not Calculable
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
- [1M] With the client's permission this sample was switched from T03 to T014.
[A4] Sample was transferred from a Tedlar bag into a Summa Canister within 48 hours of collection.
[IC] The initial calibration for this compound was outside of method control limits. The result is estimated.

SUPPLEMENTAL REPORT

Units Conversion Request

ANALYTICAL RESULTS

Project: G006N 406
Pace Project No.: 1035553

Sample: AIR DISCHARGE-STRIPPER **Lab ID: 1035553001** Collected: 07/20/06 14:15 Received: 07/21/06 08:55 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO14 MSV AIR - Ambient Analytical Method: TO-14 Ambient Air								
Benzene	ND	ppbv	435	870		08/11/06 06:02	71-43-2	1M,A4
Ethylbenzene	ND	ppbv	435	870		08/11/06 06:02	100-41-4	
THC as Gas	ND	ppbv	17400	870		08/11/06 06:02		IC
Toluene	ND	ppbv	435	870		08/11/06 06:02	108-88-3	
m&p-Xylene	ND	ppbv	870	870		08/11/06 06:02	1330-20-7	
o-Xylene	ND	ppbv	435	870		08/11/06 06:02	95-47-6	
Toluene-d8 (S)	92	%	70-130	870		08/11/06 06:02	2037-26-5	
1,4-Dichlorobenzene-d4 (S)	76	%	70-130	870		08/11/06 06:02	3855-82-1	
Hexane-d14 (S)	98	%	70-130	870		08/11/06 06:02	110-54-3	

Sample: AIR DISCHARGE-SVE **Lab ID: 1035553002** Collected: 07/20/06 14:20 Received: 07/21/06 08:55 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO14 MSV AIR - Ambient Analytical Method: TO-14 Ambient Air								
Benzene	ND	ppbv	482	965		08/11/06 06:48	71-43-2	1M,A4
Ethylbenzene	ND	ppbv	482	965		08/11/06 06:48	100-41-4	
THC as Gas	ND	ppbv	19300	965		08/11/06 06:48		IC
Toluene	ND	ppbv	482	965		08/11/06 06:48	108-88-3	
m&p-Xylene	ND	ppbv	965	965		08/11/06 06:48	1330-20-7	
o-Xylene	ND	ppbv	482	965		08/11/06 06:48	95-47-6	
Toluene-d8 (S)	106	%	70-130	965		08/11/06 06:48	2037-26-5	
1,4-Dichlorobenzene-d4 (S)	91	%	70-130	965		08/11/06 06:48	3855-82-1	
Hexane-d14 (S)	118	%	70-130	965		08/11/06 06:48	110-54-3	

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QUALITY CONTROL DATA

Project: G006N 406
Pace Project No.: 1035553

QC Batch: AIR/4414 Analysis Method: TO-14 Ambient Air
QC Batch Method: TO-14 Ambient Air Analysis Description: TO14 MSV AIR - AMBIENT
Associated Lab Samples: 1035553001, 1035553002

METHOD BLANK: 249557

Associated Lab Samples: 1035553001, 1035553002

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
THC as Gas	ppbv	ND	20.0	IC
Benzene	ppbv	ND	0.50	
Ethylbenzene	ppbv	ND	0.50	
m&p-Xylene	ppbv	ND	1.0	
o-Xylene	ppbv	ND	0.50	
Toluene	ppbv	ND	0.50	
Toluene-d8 (S)	%	0	70-130	2M
1,4-Dichlorobenzene-d4 (S)	%	0	70-130	
Hexane-d14 (S)	%	0	70-130	

LABORATORY CONTROL SAMPLE: 249558

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ppbv	10.3	11.8	114	59-135	
Ethylbenzene	ppbv	10.6	11.9	113	65-136	
m&p-Xylene	ppbv	21.5	23.9	111	67-132	
o-Xylene	ppbv	11	12.7	116	65-132	
Toluene	ppbv	10.4	11.7	113	61-135	
Toluene-d8 (S)	%			107	70-130	
1,4-Dichlorobenzene-d4 (S)	%			110	70-130	
Hexane-d14 (S)	%			103	70-130	

SAMPLE DUPLICATE: 249559

Parameter	Units	1035555001 Result	Dup Result	RPD	Max RPD	Qualifiers
THC as Gas	ppbv	ND	ND	0	30	IC
Benzene	ppbv	ND	ND	0	30	
Ethylbenzene	ppbv	ND	ND	0	30	
m&p-Xylene	ppbv	ND	ND	0	30	
o-Xylene	ppbv	ND	ND	0	30	
Toluene	ppbv	ND	ND	0	30	
Toluene-d8 (S)	%	104	104	.1		
1,4-Dichlorobenzene-d4 (S)	%	87	100	13		
Hexane-d14 (S)	%	109	108	1		

QUALIFIERS

Project: G006N 406
Pace Project No.: 1035553

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
S - Surrogate
1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.

ANALYTE QUALIFIERS

A4 Sample was transferred from a Tedlar bag into a Summa Canister within 48 hours of collection.
IC The initial calibration for this compound was outside of method control limits. The result is estimated.
1M With the client's permission this sample was switched from TO3 to TO14.
2M The surrogates were not added to the method blank due to analytical oversight. Since the associated LCS and samples had acceptable surrogate recoveries and the method blank was matrix free, the data were accepted.

REPORT OF LABORATORY ANALYSIS

Page 6 of 6

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Chain of Custody Record

Project Name Superior Former Amoco Terminal No. 406
BP BU/AR Region/Enfos Segment: Mid-Continent BU / Retail
State or Lead Regulatory Agency Wisconsin

On-site Time: 7/20/06 **Temp:** 82
Off-site Time: **Temp:**
Sky Conditions: SUNNY
Meteorological Events:
Wind Speed: **Direction:**

YEAR 2006 **Requested Due Date (mm/dd/yy)** **Standard TAT**

COC TRACKING No.

Lab Name: Pace Analytical Services	BP/AR Facility No.: 406	Consultant/Contractor: Delta Environmental Consultants
Lab Address: 1700 Elm St., Ste. 200, Minneapolis, MN 55414	BP/AR Facility Address: 2904 Winter Street	Address: 17500 W. Liberty Lane, Ste. A New Berlin, WI 53146-2109
Lab PM: Jim Wheeler	Site Lat/Long:	e-mail EDD to: rcarney@deltaenv.com
Tele/Fax: 612-607-6353 / 612-607-6444	California Global ID #:	Consultant/Contractor Project No.: G006N
BP/AR PM Contact Name: David Kalet	Enfos Project No.: G006N-	Consultant Tele/Fax: 262-827-4803 / 262-789-5483
Address: 28100 Torch Parkway - Mail Code 25 - Warrenville, IL 60555	Provision or RCOP: Provision	Consultant/Contractor PM: Rick Carney
Tele/Fax: 630-836-7117 / 630-836-7193	Phase/WBS: 03	Invoice to: Consultant or BP or AR Co (Circle one)
	Sub Phase/Task: 35	Report Type & QC level: BP Level 1
	Cost Element: 05	

Item No.	Sample Description	Time	Date	Matrix			Laboratory Tracking No.	No. of containers	Preservatives					Requested Analysis				Sample Point Lat/Long and Comments	
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	BTEX TO-3	THC TO-3				
1	AIR DISCHARGE - STRIPPER	14:15	7/20/2006			X		1							X	X			AIR STRIPPER 1025552001
2	AIR DISCHARGE - SVE	14:20	7/20/2006			X		1							X	X			SVE SYSTEM 002
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Sampler's Full Name: Ed Heytens	Relinquished By / Affiliation(Sign): <i>Ed Heytens</i>	Date: 7/20/2006	Time: 14:20	Accepted By / Affiliation(Sign): <i>Rick Carney</i>	Date: 7/20/06	Time: 08:55
Sampler's Company: Delta Environmental	Shipment Method: Fedex	Special Instructions:				

Custody Seals In Place (circle one): Y N **Temp Blank (circle one):** Y N **Cooler Temperature on Receipt:** AMB F/C (circle one) **Trip Blank:** Y N (circle one)

Distribution: White Copy - Laboratory / Yellow Copy - BP/GEM / Pink Copy - Consultant/Contractor BP COC Rev. 4 10/1/04

(*) OK to run by T014
 per Rick Carney due
 to instrument complications
 SDT 14:15 8/11/06



Sample Condition Upon Receipt

Client Name: BP. DELTA - WI Project # 1075553

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used 230194010 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature Amb
Temp should be above freezing to 6°C

Biological Tissue is Frozen: Yes No

Date and initials of person examining contents: 7-21-06 JT

Comments:	
Chain of Custody Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>AR (BAG)</u>	
All containers needing preservation have been checked. <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation. <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) <input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
Samples checked for dechlorination: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm): <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____	

Client Notification/ Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: S DO Date: 7/21/06

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

October 24, 2006

Mr. Rick Carney
BP-Delta-Wisconsin
c/o Delta Environmental
175 North Patrick Ln, Ste 175
Brookfield, WI 53045

RE: Project: BP-DELTA-WI SS#406
Pace Project No.: 1040373

Dear Mr. Carney:

Enclosed are the analytical results for sample(s) received by the laboratory on October 19, 2006. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Seth Jacobson

seth.jacobson@pacelabs.com
Project Manager

Illinois Certification #: 200011
Iowa Certification #: 368
Minnesota Certification #: 027-053-137
Wisconsin Certification #: 999407970

Enclosures

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BP-DELTA-WI SS#406
Pace Project No.: 1040373

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1040373001	AIR DISCHARGE-STRIPPER	Air	10/18/06 15:15	10/19/06 09:15
1040373002	AIR DISCHARGE-SVE	Air	10/18/06 15:05	10/19/06 09:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BP-DELTA-WI SS#406
Pace Project No.: 1040373

Lab ID	Sample ID	Method	Analytes Reported
1040373001	AIR DISCHARGE-STRIPPER	TO-3 Air	6
1040373002	AIR DISCHARGE-SVE	TO-3 Air	6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BP-DELTA-WI SS#406
Pace Project No.: 1040373

Sample: AIR DISCHARGE-STRIPPER		Lab ID: 1040373001	Collected: 10/18/06 15:15	Received: 10/19/06 09:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO3 GCV AIR BTEX BAG		Analytical Method: TO-3 Air						
Benzene	ND	ppmv	0.10	1		10/20/06 09:09	71-43-2	
Ethylbenzene	ND	ppmv	0.10	1		10/20/06 09:09	100-41-4	
THC as Gas	14.1	ppmv	1.0	1		10/20/06 09:09		
Toluene	3.0	ppmv	0.10	1		10/20/06 09:09	108-88-3	
m&p-Xylene	ND	ppmv	0.20	1		10/20/06 09:09	1330-20-7	
o-Xylene	ND	ppmv	0.10	1		10/20/06 09:09	95-47-6	

Sample: AIR DISCHARGE-SVE		Lab ID: 1040373002	Collected: 10/18/06 15:05	Received: 10/19/06 09:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO3 GCV AIR BTEX BAG		Analytical Method: TO-3 Air						
Benzene	3.4	ppmv	0.10	1		10/19/06 12:59	71-43-2	
Ethylbenzene	0.24	ppmv	0.10	1		10/19/06 12:59	100-41-4	
THC as Gas	152	ppmv	1.0	1		10/19/06 12:59		
Toluene	7.0	ppmv	0.10	1		10/19/06 12:59	108-88-3	
m&p-Xylene	0.97	ppmv	0.20	1		10/19/06 12:59	1330-20-7	
o-Xylene	0.28	ppmv	0.10	1		10/19/06 12:59	95-47-6	

QUALITY CONTROL DATA

Project: BP-DELTA-WI SS#406
Pace Project No.: 1040373

QC Batch: AIR/4719 Analysis Method: TO-3 Air
QC Batch Method: TO-3 Air Analysis Description: TO3 GCV AIR BTEX CAN
Associated Lab Samples: 1040373002

METHOD BLANK: 273603

Associated Lab Samples: 1040373002

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Benzene	ppmv	ND	0.10	
Ethylbenzene	ppmv	ND	0.10	
m&p-Xylene	ppmv	ND	0.20	
o-Xylene	ppmv	ND	0.10	
THC as Gas	ppmv	ND	1.0	
Toluene	ppmv	ND	0.10	

LABORATORY CONTROL SAMPLE & LCSD: 273604

273605

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ppmv	1	0.99	0.99	99	99	60-138	.7	30	
Ethylbenzene	ppmv	1	0.99	0.99	99	99	50-150	.6	30	
m&p-Xylene	ppmv	2	2.0	2.0	102	98	64-146	3	30	
o-Xylene	ppmv	1	0.85	0.83	85	83	69-137	2	30	
THC as Gas	ppmv	10	8.5	8.1	85	81	60-134	5	30	
Toluene	ppmv	1	1.1	0.92	112	92	61-140	20	30	

SAMPLE DUPLICATE: 273606

Parameter	Units	1040370001 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ppmv	0.42	0.40		6	30
Ethylbenzene	ppmv	0.56	0.56		.4	30
m&p-Xylene	ppmv	6.3	6.3		.9	30
o-Xylene	ppmv	2.8	2.8		2	30
THC as Gas	ppmv	72.9	72.2		.9	30
Toluene	ppmv	6.1	6.0		.6	30

QUALITY CONTROL DATA

Project: BP-DELTA-WI SS#406

Pace Project No.: 1040373

QC Batch: AIR/4721

Analysis Method: TO-3 Air

QC Batch Method: TO-3 Air

Analysis Description: TO3 GCV AIR BTEX CAN

Associated Lab Samples: 1040373001

METHOD BLANK: 274018

Associated Lab Samples: 1040373001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Benzene	ppmv	ND	0.10	
Ethylbenzene	ppmv	ND	0.10	
m&p-Xylene	ppmv	ND	0.20	
o-Xylene	ppmv	ND	0.10	
THC as Gas	ppmv	ND	1.0	
Toluene	ppmv	ND	0.10	

LABORATORY CONTROL SAMPLE & LCSD: 274019

274020

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ppmv	1	1.1	1.2	107	116	60-138	8	30	
Ethylbenzene	ppmv	1	1.0	1.1	102	114	50-150	10	30	
m&p-Xylene	ppmv	2	2.1	2.3	103	113	64-146	10	30	
o-Xylene	ppmv	1	0.88	0.97	88	97	69-137	9	30	
THC as Gas	ppmv	10	8.7	9.0	87	90	60-134	3	30	
Toluene	ppmv	1	0.97	1.1	97	110	61-140	13	30	

SAMPLE DUPLICATE: 274021

Parameter	Units	1040372001 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ppmv	ND	ND	0	30	
Ethylbenzene	ppmv	ND	ND	0	30	
m&p-Xylene	ppmv	ND	ND	0	30	
o-Xylene	ppmv	ND	ND	0	30	
THC as Gas	ppmv	8.6	9.0	4	30	
Toluene	ppmv	ND	ND	0	30	

QUALIFIERS

Project: BP-DELTA-WI SS#406
Pace Project No.: 1040373

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

REPORT OF LABORATORY ANALYSIS

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Chain of Custody Record

Project Name Superior Former Amoco Terminal No. 406
BP BU/AR Region/Enfos Segment: Mid-Continent BU / Retail
State or Lead Regulatory Agency Wisconsin
Requested Due Date (mm/dd/yy) Standard TAT

On-site Time: **Temp:**
Off-site Time: **Temp:** 58
Sky Conditions: CLOUDY
Meteorological Events:
Wind Speed: **Direction:**

YEAR 2006

COC TRACKING No.

Lab Name:	Pace Analytical Services	BP/AR Facility No.:	406	Consultant/Contractor:	Delta Environmental Consultants
Lab Address:	1700 Elm St., Ste. 200, Minneapolis, MN 55414	BP/AR Facility Address:	2904 Winter Street	Address:	175 North Patrick Blvd - Suite 175
Lab PM:	Michelle Kruse	Site Lat/Long:			Brookfield, WI 53045
Tele/Fax:	612-607-6382 / 612-607-6444	California Global ID #:		e-mail EDD to:	rcarney@deltaenv.com
BP/AR PM Contact Name	David Kalet	Enfos Project No.	G006N-0030	Consultant/Contractor Project No.:	G006N
Address	28100 Torch Parkway - Mail Code 25 - Warrenville, IL 60555	Provision or RCOP	Provision	Consultant Tele/Fax:	262-794-8560 / 262-794-0663
Tele/Fax:	630-836-7117 / 630-836-7193	Phase/WBS:	03	Consultant/Contractor PM:	Rick Carney
		Sub Phase/Task	35	Invoice to: Consultant or BP or AR Co (Circle one)	
		Cost Element	05	Report Type & QC level	BP Level 1

Item No.	Sample Description	Time	Date	Matrix			Laboratory Tracking No.	No. of containers	Preservatives					Requested Analysis				Sample Point Lat/Long and Comments		
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	BTEX TO-3	THC TO-3					
1	AIR DISCHARGE - STRIPPER	15:15	10-18-06			X		1							X	X				AIR STRIPPER 1040373001
2	AIR DISCHARGE - SVE	15:05	10-18-06			X		1							X	X				SVE SYSTEM 002
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Sampler's Full Name:	Ed Heytens	Relinquished By / Affiliation(Sign)	Date	Time	Accepted By / Affiliation(Sign)	Date	Time
Sampler's Company:	Delta Environmental	<i>Ed Heytens</i>			<i>Regina...</i>	10-19-06	09:15
Shipment Date:							
Shipment Method:	Fedex						
Shipment Tracking No:			10-18-06	15:15			

Special Instructions:
 Custody Seals In Place (circle one) Y N Temp Blank (circle one) Y N Cooler Temperature on Receipt Y N °F/C (circle one) F C Trip Blank Y N (Circle one)
 Distribution: White Copy - Laboratory / Yellow Copy - BP/GEM / Pink Copy - Consultant/Contractor BP COC Rev. 4 10/1/04

Sample Condition Upon Receipt



Client Name: BP-DELTA-WI Project # 1040373

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 8578 5384 1145

Optional
Proj/Due Date:
Proj Name:

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used 230194010 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature AMB Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 10-19-06 JF

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-includes date/time/ID/Analysis Matrix: <u>HR (BAG)</u>		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (If purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: SPT Date: 10/19/06

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)