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Service Center

January 30, 2009

Ms. Rhonda O'Leary
Wisconsin Department of Natural Resources - Air Management Bureau
Northern Region, Superior Area Office
1401 Tower Avenue, Superior, WI 54880

Subject: **Report of 2008 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

DELTA

Dear Ms. O'Leary,

Delta Consultants, on behalf of Atlantic Richfield Company, submits this report of the air monitoring conducted in 2008 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 2008 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 0.08 and 0.82 pounds per hour during 2008. The combined total benzene emitted in 2008 was estimated at 28 pounds (Tables 1 and 2).

As agreed upon between Delta and WDNR in October 2004, 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 2009.

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

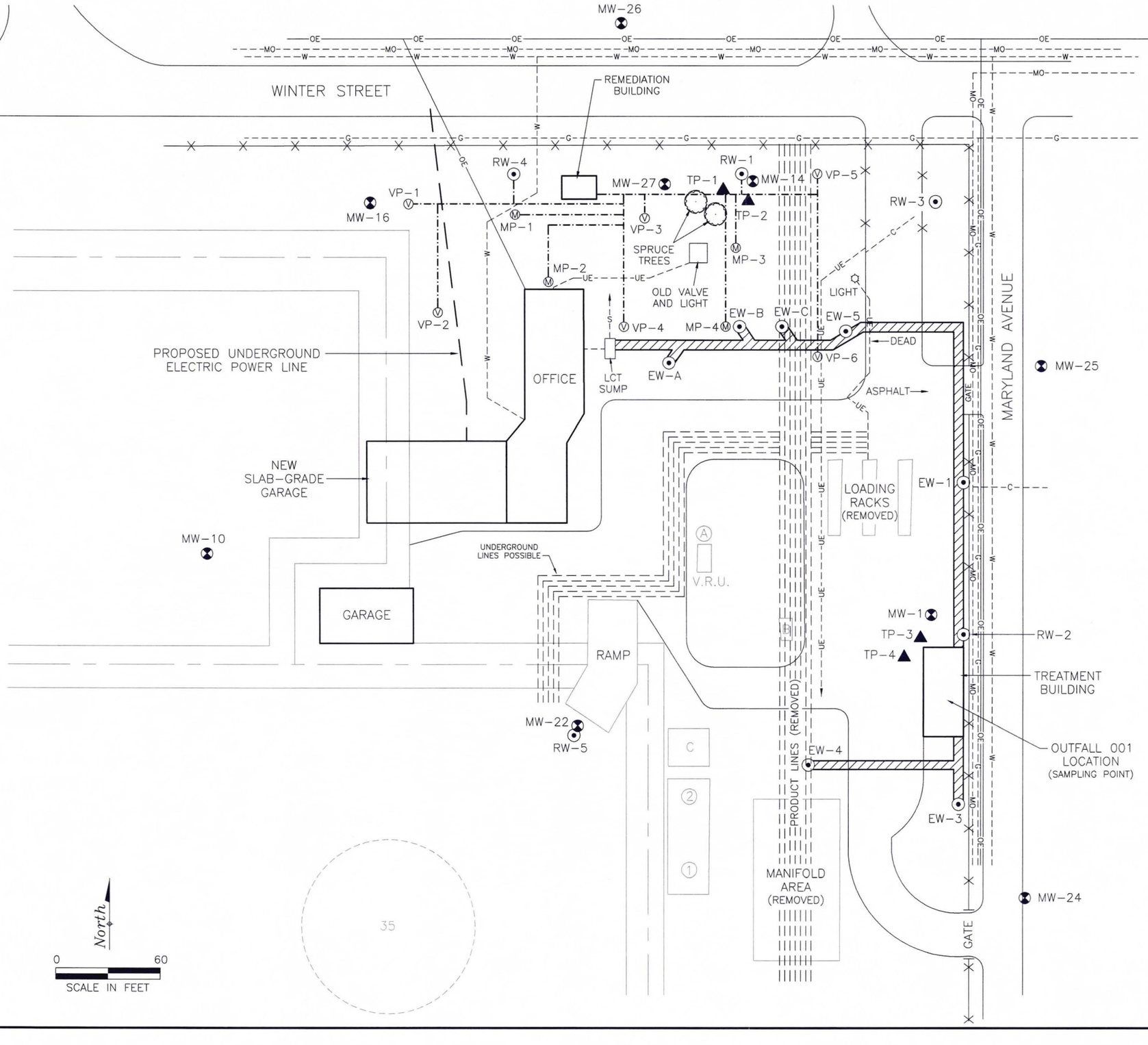
Sincerely,

DELTA CONSULTANTS

Nathan Johnson
Project Specialist
njohnson@deltaenv.com

c: Diane Diks, Atlantic Richfield
Jared Otto, Delta
Chris Saari, WDNR

Enclosures: Figure 1 – Site Map
Table 1 – SVE Emission Summary
Table 2 – Air Stripping Emission Summary
Pace Analytical Reports 1066482, 1071290, 1077842, and 1082042



LEGEND:

- (M) PROPOSED ADDITIONAL VAPOR POINT
- (V) PROPOSED MONITORING POINT
- BURIED SOIL VENT LINES
- MONITORING WELL LOCATION
- 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.

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
SITE MAP

FORMER AMOCO TERMINAL NO. 406
2904 WINTER STREET
SUPERIOR, WISCONSIN

PROJECT NO.:	DRAWN BY:
G006N-RP53	DD
PREPARED BY:	DATE:
NJ	1/12/05
FILE NAME:	
406-G3 Rev 1	

Delta Environmental Consultants Inc.

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

Year	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)*
Startup		1/4/2005			0	0	0	0	0
2005	Qtr 1	1/11/2005	88.5%	2160	274	63.8	3.2	0.26	9
		1/24/2005			274	60	0	0.25	
		2/23/2005			274	223	1.2	0.92	
	Qtrs 2 & 3	4/11/2005	96.1%	4392	274	39.4	1.3	0.16	28
	Qtr 4	10/12/2005	75.8%	2208	232	44.7	1.0	0.16	33
2006	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
2007	Qtr 1	1/17/2007	93.7%	2160	294	111	2.9	0.49	21
	Qtr 2	4/17/2007	89.6%	2184	274	56.6	0	0.23	21
	Qtr 3	7/11/2007	97.0%	2208	264	9.2	0	0.04	21
	Qtr 4	10/4/2007	76.4%	2208	271	81.6	1.5	0.33	30
2008	Qtr 1	1/15/2008	87.4%	2184	295	184.0	1.4	0.82	10
	Qtr 2	4/10/2008	14.9%	2184	268	56.6	3.4	0.23	13
	Qtr 3	7/28/2008	77.5%	2208	270	17.5	1.1	0.07	20
	Qtr 4	10/6/2008	98.7%	2208	270	25.6	0.93	0.10	26
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

Year	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)*
Startup		1/4/2005			0	0	0	0	0.0
2005	Qtr 1	1/11/2005	12.4%	2160	372	24.4	1.2	0.14	0.5
		1/24/2005			376	8.2	0.0	0.05	
		2/23/2005			388	3.3	0.0	0.02	
	Qtrs 2 & 3	4/11/2005	15.9%	4392	376	0.0	0.0	0.00	0.5
	Qtr 4	10/12/2005	15.0%	2208	365	2.9	0.0	0.02	0.5
2006	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
2007	Qtr 1	1/17/2007	12.9%	2160	374	0.0	0.0	0.00	0.0
	Qtr 2	4/17/2007	15.0%	2184	365	0.0	0.0	0.00	0.0
	Qtr 3	7/11/2007	16.8%	2208	351	3.1	0.12	0.02	0.2
	Qtr 4	10/4/2007	12.4%	2208	331	3.7	0.8	0.02	1.1
2008	Qtr 1	1/15/2008	14.3%	2184	347	0.41	0.14	0.00	0.2
	Qtr 2	4/10/2008	3.2%	2184	316	0.22	0.0	0.00	0.2
	Qtr 3	7/28/2008	16.4%	2208	350	1.4	0.0	0.01	0.2
	Qtr 4	10/6/2008	19.3%	2208	350	5.1	0.64	0.03	1.4
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 = (% 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

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Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

January 28, 2008

Mr. Jared Otto
BP-Delta-Minnesota
c/o Delta Environmental
5910 Rice Creek Parkway
Shoreview, MN 55126

RE: Project: BP-DELTA SS # 406
Pace Project No.: 1066482

Dear Mr. Otto:
Enclosed are the analytical results for sample(s) received by the laboratory on January 16, 2008. The results relate only to the samples included in this report. 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,

Colin Schuft

Colin Schuft

colin.schuft@pacelabs.com
Project Manager

Florida (Nelap) Certification #: E87605
Illinois Certification #: 200011
Iowa Certification #: 368
Minnesota Certification #: 027-053-137
Wisconsin Certification #: 999407970

Enclosures

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Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: BP-DELTA SS # 406
Pace Project No.: 1066482

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1066482001	**AIR DISCHARGE STRIPPER**	Air	01/15/08 14:30	01/16/08 09:40
1066482002	**AIR DISCHARGE-SVE**	Air	01/15/08 14:35	01/16/08 09:40

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SAMPLE ANALYTE COUNT

Project: BP-DELTA SS # 406
Pace Project No.: 1066482

Lab ID	Sample ID	Method	Analysts	Analytes Reported
1066482001	**AIR DISCHARGE STRIPPER**	TO-3 Air	AEP	7
1066482002	**AIR DISCHARGE-SVE**	TO-3 Air	AEP	8

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ANALYTICAL RESULTS

Project: BP-DELTA SS # 406
Pace Project No.: 1066482

Sample: AIR DISCHARGE STRIPPER **Lab ID: 1066482001** Collected: 01/15/08 14:30 Received: 01/16/08 09:40 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO3 GCV AIR BTEX BAG	Analytical Method: TO-3 Air							
Benzene	**0.14**	ppmv	0.10	1		01/17/08 11:59	71-43-2	CH
Ethylbenzene	**0.11**	ppmv	0.10	1		01/17/08 11:59	100-41-4	
THC as Gas	ND	ppmv	1.0	1		01/17/08 11:59		CL
Toluene	**0.16**	ppmv	0.10	1		01/17/08 11:59	108-88-3	CH
m&p-Xylene	ND	ppmv	0.20	1		01/17/08 11:59	1330-20-7	
o-Xylene	ND	ppmv	0.10	1		01/17/08 11:59	95-47-6	
a,a,a-Trifluorotoluene (S)	91	%	50-150	1		01/17/08 11:59	98-08-8	

Sample: AIR DISCHARGE-SVE **Lab ID: 1066482002** Collected: 01/15/08 14:35 Received: 01/16/08 09:40 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO3 GCV AIR BTEX BAG	Analytical Method: TO-3 Air							
Benzene	**1.4**	ppmv	0.10	1		01/17/08 12:16	71-43-2	CH
Ethylbenzene	ND	ppmv	0.10	1		01/17/08 12:16	100-41-4	
THC as Gas	**184**	ppmv	10.0	10		01/22/08 14:22		
Toluene	**7.7**	ppmv	0.10	1		01/17/08 12:16	108-88-3	CH
m&p-Xylene	**9.7**	ppmv	0.20	1		01/17/08 12:16	1330-20-7	
o-Xylene	**9.1**	ppmv	0.10	1		01/17/08 12:16	95-47-6	
a,a,a-Trifluorotoluene (S)	285	%	50-150	1		01/17/08 12:16	98-08-8	S0
TO3 GCV AIR Meth,Ethane,Ethene	Analytical Method: TO-3 Air							
Methane	**148**	ppmv	5.0	5		01/16/08 14:55	74-82-8	

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QUALITY CONTROL DATA

Project: BP-DELTA SS # 406
Pace Project No.: 1066482

QC Batch: AIR/6465
QC Batch Method: TO-3 Air
Analysis Method: TO-3 Air
Analysis Description: TO3 GCV AIR METH,ETHANE,ETHENE
Associated Lab Samples: 1066482002

METHOD BLANK: 434879
Associated Lab Samples: 1066482002

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Methane	ppmv	ND	1.0	

LABORATORY CONTROL SAMPLE: 434880

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methane	ppmv	10	7.9	79	70-130	

SAMPLE DUPLICATE: 435021

Parameter	Units	1066127001 Result	Dup Result	RPD	Max RPD	Qualifiers
Methane	ppmv	220	217	1	30	

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QUALITY CONTROL DATA

Project: BP-DELTA SS # 406
Pace Project No.: 1066482

QC Batch: AIR/6468
QC Batch Method: TO-3 Air
Analysis Method: TO-3 Air
Analysis Description: TO3 GCV AIR BTEX CAN
Associated Lab Samples: 1066482001, 1066482002

METHOD BLANK: 435205
Associated Lab Samples: 1066482001, 1066482002

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	
a,a,a-Trifluorotoluene (S)	%	95	50-150	

LABORATORY CONTROL SAMPLE & LCSD: 435206 438078

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ppmv	1	1.2	1.0	119	103	70-130	14	30	
Ethylbenzene	ppmv	1	1.1	0.93	110	93	70-130	17	30	
m&p-Xylene	ppmv	2	2.1	1.8	106	92	70-130	15	30	
o-Xylene	ppmv	1	0.96	0.84	96	84	70-130	14	30	
THC as Gas	ppmv	10	9.4	7.9	94	79	70-130	17	30	
Toluene	ppmv	1	0.97	0.92	97	92	70-130	6	30	
a,a,a-Trifluorotoluene (S)	%				112	97	50-150			

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Minneapolis, MN 55414
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QUALIFIERS

Project: BP-DELTA SS # 406
Pace Project No.: 1066482

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.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
S0	Surrogate recovery outside laboratory control limits.

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106648

Page 1 of 1

Atlantic Richfield Company
bp
A BP affiliated company

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:	14:20	Temp:	23
		Temp:	
Wind Speed:		Direction:	

Lab Name:	Pace Analytical Services	BP/AR Facility No.:	406	Consultant/Contractor:	Delta Consultants
Address:	1700 Elm St., Ste. 200, Minneapolis, MN 55414	BP/AR Facility Address:	2904 Winter Street	Address:	5910 Rice Creek Parkway, Suite 100 Shorview, MN 55126
		Site Lat/Long:			
Lab PM:	Michelle Kruse	California Global ID No.:		Consultant/Contractor Project No.:	G006N-RP81-1
Tele/Fax:	612-607-6382 / 612-607-6444	Enfos Project No.:	G006N-0035	Consultant/Contractor PM:	Jared Otto
BP/AR EBM:	Diane Diks	Provision or OOC (circle one)	Provision	Tele/Fax:	651-697-5232 / 651-639-9473
Address:	28100 Torch Parkway, Suite 200 Warrenville, IL. 60555	Phase/WBS:	03	Report Type & QC Level:	BP Level 1
		Sub Phase/Task:	03	E-mail EDD To:	jotto@deltaenv.com / njohnson@deltaenv.com
Tele/Fax:	630-836-7106 / 630-836-7195	Cost Element:	05	Invoice to:	Consultant or BP or Atlantic Richfield Co. (circle one)

Lab Bottle Order No:

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Matrix:	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Preservative:	Requested Analysis: BTEX TO-3	Requested Analysis: THC TO-3	Requested Analysis: Methane TO-3	Requested Analysis:	Requested Analysis:	Requested Analysis:	Requested Analysis:	Requested Analysis:	Requested Analysis:	Requested Analysis:	Sample Point Lat/Long and Comments
1	AIR DISCHARGE - STRIPPPER	14:30	1/15/2008			X			1							X	X									AIR STRIPPER 001
2	AIR DISCHARGE - SVE	14:35	1/15/2008			X			2							X	X	X								SVE SYSTEM 002
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										

		Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name:	Ed Heytens				J. Richardson	1/16/08	09:40
Sampler's Company:	Delta Consultants						
Shipment Date:							
Shipment Method:	Fed Ex	Ed Heytens	1-15-8	15:00			
Shipment Tracking No:							

Special Instructions:

Custody Seals In Place: (Yes) / No | Temp Blank: Yes / (No) | Cooler Temp on Receipt: AMB °F/C | Trip Blank: Yes / (No) | MS/MSD Sample Submitted: Yes / (No)

Sample Condition Upon Receipt

Pace Analytical

Client Name: Delta WI Project # 1066482

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 8626 0968 2695

[redacted]

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals Intact: ☒ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used: 230194010, 72310129 Type of Ice: Wet Blue (None) ☐ Samples on ice, cooling process has begun

Cooler Temperature: Amb Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 1-16-08 gr

Temp should be above freezing to 6°C Comments:

Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes	☐No	☐N/A	6. TO-3
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☐Yes	☑No	☐N/A	12. Sample # 2 on the COC says Air discharge SVE the the sample says BP-Supr 6006 N BTEX TO-3/THC TO-3
-Includes date/time/ID/Analysis Matrix: Air bag				
All containers needing preservation have been checked.	☐Yes	☐No	☑N/A	13. Methane TO-3 with a date and time of 1-15-08 14:35. We only received 1 Sample for Air discharge SVE
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☑No		Initial when completed: Lot # of added preservative:
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15.
Trip Blank Present:	☐Yes	☐No	☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑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: _____ **Date:** 1/16/08

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)

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Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

April 24, 2008

Mr. Jared Otto
BP-Delta-Minnesota
c/o Delta Environmental
5910 Rice Creek Parkway
Shoreview, MN 55126

RE: Project: BP-DELTA-WI SS#406
Pace Project No.: 1071290

Dear Mr. Otto:
Enclosed are the analytical results for sample(s) received by the laboratory on April 11, 2008. The results relate only to the samples included in this report. 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,

Colin Schuft

Colin Schuft

colin.schuft@pacelabs.com
Project Manager

Florida (Nelap) Certification #: E87605
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.: 1071290

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1071290001	**AIR DISCHARGE-STRIPPER**	Air	04/10/08 13:15	04/11/08 10:00
1071290002	**AIR DISCHARGE-SVE**	Air	04/10/08 13:05	04/11/08 10:00

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SAMPLE ANALYTE COUNT

Project: BP-DELTA-WI SS#406
Pace Project No.: 1071290

Lab ID	Sample ID	Method	Analysts	Analytes Reported
1071290001	**AIR DISCHARGE-STRIPPER**	TO-3 Air	AEP	7
1071290002	**AIR DISCHARGE-SVE**	TO-3 Air	AEP	10

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ANALYTICAL RESULTS

Project: BP-DELTA-WI SS#406
Pace Project No.: 1071290

Sample: AIR DISCHARGE-STRIPPER **Lab ID: 1071290001** Collected: 04/10/08 13:15 Received: 04/11/08 10:00 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	0.19	1.86		04/23/08 10:34	71-43-2	1M
Ethylbenzene	ND	ppmv	0.19	1.86		04/23/08 10:34	100-41-4	
THC as Gas	ND	ppmv	1.9	1.86		04/23/08 10:34		
Toluene	**0.22**	ppmv	0.19	1.86		04/23/08 10:34	108-88-3	
m&p-Xylene	ND	ppmv	0.37	1.86		04/23/08 10:34	1330-20-7	
o-Xylene	ND	ppmv	0.19	1.86		04/23/08 10:34	95-47-6	
a,a,a-Trifluorotoluene (S)	79	%	50-150	1.86		04/23/08 10:34	98-08-8	

Sample: AIR DISCHARGE-SVE **Lab ID: 1071290002** Collected: 04/10/08 13:05 Received: 04/11/08 10:00 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	0.34	3.35		04/23/08 10:51	71-43-2	1M
Ethylbenzene	ND	ppmv	0.34	3.35		04/23/08 10:51	100-41-4	
THC as Gas	**56.6**	ppmv	3.4	3.35		04/23/08 10:51		
Toluene	**3.8**	ppmv	0.34	3.35		04/23/08 10:51	108-88-3	
m&p-Xylene	**0.79**	ppmv	0.67	3.35		04/23/08 10:51	1330-20-7	
o-Xylene	ND	ppmv	0.34	3.35		04/23/08 10:51	95-47-6	
a,a,a-Trifluorotoluene (S)	112	%	50-150	3.35		04/23/08 10:51	98-08-8	
TO3 GCV AIR Meth,Ethane,Ethene	Analytical Method: TO-3 Air							
Ethane	ND	ppmv	3.7	3.72		04/21/08 09:44	74-84-0	
Ethene	ND	ppmv	3.7	3.72		04/21/08 09:44	74-85-1	
Methane	**3.8**	ppmv	3.7	3.72		04/21/08 09:44	74-82-8	A4

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QUALITY CONTROL DATA

Project: BP-DELTA-WI SS#406
Pace Project No.: 1071290

QC Batch: AIR/6828
QC Batch Method: TO-3 Air
Analysis Method: TO-3 Air
Analysis Description: TO3 GCV AIR METH,ETHANE,ETHENE
Associated Lab Samples: 1071290002

METHOD BLANK: 467137
Associated Lab Samples: 1071290002

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Ethane	ppmv	ND	1.0	
Ethene	ppmv	ND	1.0	
Methane	ppmv	ND	1.0	

LABORATORY CONTROL SAMPLE & LCSD: 467138 467139

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ppmv	10	9.4	9.3	94	93	70-130	1	30	
Ethene	ppmv	10	9.5	9.5	95	95	70-130	.7	30	
Methane	ppmv	10	9.3	8.9	93	89	70-130	5	30	

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QUALITY CONTROL DATA

Project: BP-DELTA-WI SS#406
Pace Project No.: 1071290

QC Batch: AIR/6846
QC Batch Method: TO-3 Air
Analysis Method: TO-3 Air
Analysis Description: TO3 GCV AIR BTEX CAN
Associated Lab Samples: 1071290001, 1071290002

METHOD BLANK: 468407
Associated Lab Samples: 1071290001, 1071290002

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	
a,a,a-Trifluorotoluene (S)	%	82	50-150	

LABORATORY CONTROL SAMPLE & LCSD: 468408 468409

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ppmv	1	1.1	1.1	112	107	70-130	4	30	
Ethylbenzene	ppmv	1	0.99	0.98	99	98	70-130	.7	30	
m&p-Xylene	ppmv	2	2.0	1.9	101	96	70-130	4	30	
o-Xylene	ppmv	1	0.93	0.88	93	88	70-130	5	30	
THC as Gas	ppmv	10	10.0	10.4	100	104	70-130	4	30	
Toluene	ppmv	1	0.94	0.89	94	89	70-130	6	30	
a,a,a-Trifluorotoluene (S)	%				88	88	50-150			

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QUALIFIERS

Project: BP-DELTA-WI SS#406
Pace Project No.: 1071290

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.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

1M	Sample was transferred from a Tedlar bag into a Summa Canister within 72 hours of collection.
A4	Sample was transferred from a Tedlar bag into a Summa Canister within 48 hours of collection.

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Atlantic Richfield Company

bp

A BP affiliated company

Chain of Custody Record

1071290 Page 1 of 1

Project Name: Superior Former Amoco Terminal No. 406

BP BU/AR Region/Enfos Segment: Mid-Continent BU / Retail

State or Lead Regulatory Agency: Wisconsin Dept of Natural Resources

Requested Due Date (mm/dd/yy): Standard TAT

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

Lab Name:	Pace Analytical Services, Inc.	BP/AR Facility No.:	406	Consultant/Contractor:	Delta Consultants
Address:	1700 Elm St.	BP/AR Facility Address:	2904 Winter Street	Address:	5910 Rice Creek Parkway, Suite 100
	Minneapolis, MN 55414	Site Lat/Long:			Shorview, MN 55126
Lab PM:	Michelle Kruse	California Global ID No.:		Consultant/Contractor Project No.:	G006N-RP81-1
Tele/Fax:	612-607-6323 / 612-607-6444	Enfos Project No.:	G006N-0036	Consultant/Contractor PM:	Jared Otto
BP/AR EBM:	Diane Diks	Provision or ~~OOC~~ (circle one)		Tele/Fax:	651-697-5232 / 639-9473
Address:	28100 Torch Parkway	Phase/WBS:	03 (O&M)	Report Type & QC Level:	NA
	Warrenville, IL 60555	Sub Phase/Task:	03 (Analytical)	E-mail EDD To:	njohnson@deltaenv.com/jotto@deltaenv.com
Tele/Fax:	630-836-7106 / 630-836-7195	Cost Element:	05 (Subcontractor)	Invoice to:	Consultant or BP or Atlantic Richfield Co. (circle one)

Lab Bottle Order No:

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: BTEX TO-3	Requested Analysis: THC TO-3	Requested Analysis: Methane TO-3	Sample Point Lat/Long and Comments
1	AIR DISCHARGE-STRIPPPER	13:15	4/10/08			X		1						X	X		AIR STRIPPER 001
2	AIR DISCHARGE-SVE	13:05	4/10/08			X		2						X	X	X	SVE SYSTEM 002
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

		Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name:	Ed Heytens	Ed Heytens	4/10/08				
Sampler's Company:	Delta Consultants			14:00		4/11/08	10:00
Shipment Date:							
Shipment Method:	~~UPS~~ FEDEX						
Shipment Tracking No:							

Special Instructions: Work Release 189618

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 4.5 °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

BP COC Rev. 5 10/11/2006

Sample Condition Upon Receipt

Pace Analytical

Client Name: BP-DELTA-WI Project # 1071290

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 8640 4474 9860

[redacted]

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals Intact: ☒ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other _____

Thermometer Used ~~230194010, 72810120~~ Type of Ice: Wet Blue (None) ☐ Samples on ice, cooling process has begun

Cooler Temperature 4 4 4 3 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Comments:

Date and initials of person examining contents: 4-11-08 ZL

Chain of Custody Present:	☒Yes	☐No	☐N/A 1.
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A 2.
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A 3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A 4.
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A 5.
Short Hold Time Analysis (<72hr):	☒Yes	☐No	☐N/A 6. TO3
Rush Turn Around Time Requested:	☐Yes	☒No	☐N/A 7.
Sufficient Volume:	☒Yes	☐No	☐N/A 8.
Correct Containers Used:	☒Yes	☐No	☐N/A 9.
-Pace Containers Used:	☒Yes	☐No	☐N/A
Containers Intact:	☒Yes	☐No	☐N/A 10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☒N/A 11.
Sample Labels match COC:	☒Yes	☐No	☐N/A 12.
-Includes date/time/ID/Analysis Matrix: AIR (BAG)			
All containers needing preservation have been checked.	☐Yes	☐No	☒N/A 13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☒N/A
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☐No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☒N/A 14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☒N/A 15.
Trip Blank Present:	☐Yes	☐No	☒N/A 16.
Trip Blank Custody Seals Present	☐Yes	☐No	☒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: _____ Date: 4/11/08

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)

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August 08, 2008

Mr. Jared Otto
BP-Delta-Minnesota
c/o Delta Environmental
5910 Rice Creek Parkway
Shoreview, MN 55126

RE: Project: BP-DELTA-WI SS#406
Pace Project No.: 1077842

Dear Mr. Otto:
Enclosed are the analytical results for sample(s) received by the laboratory on July 29, 2008. The results relate only to the samples included in this report. 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,

Daryl Peterson for
Colin Schuft
colin.schuft@pacelabs.com
Project Manager

Florida (Nelap) Certification #: E87605
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.: 1077842

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1077842001	**AIR DISCHARGE-SVE**	Air	07/28/08 14:40	07/29/08 15:15
1077842002	**AIR DISCHARGE-STRIPPER**	Air	07/28/08 14:45	07/29/08 15:15

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SAMPLE ANALYTE COUNT

Project: BP-DELTA-WI SS#406
Pace Project No.: 1077842

Lab ID	Sample ID	Method	Analysts	Analytes Reported
1077842001	**AIR DISCHARGE-SVE**	TO-3 Air	AH	8
1077842002	**AIR DISCHARGE-STRIPPER**	TO-3 Air	AH	7

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ANALYTICAL RESULTS

Project: BP-DELTA-WI SS#406
Pace Project No.: 1077842

Sample: AIR DISCHARGE-SVE **Lab ID: 1077842001** Collected: 07/28/08 14:40 Received: 07/29/08 15:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO3 GCV AIR BTEX BAG	Analytical Method: TO-3 Air							
Benzene	**1.1**	ppmv	0.10	1		07/30/08 11:03	71-43-2	
Ethylbenzene	ND	ppmv	0.10	1		07/30/08 11:03	100-41-4	
THC as Gas	**17.5**	ppmv	1.0	1		07/30/08 11:03		
Toluene	**1.2**	ppmv	0.10	1		07/30/08 11:03	108-88-3	
m&p-Xylene	**0.27**	ppmv	0.20	1		07/30/08 11:03	1330-20-7	
o-Xylene	ND	ppmv	0.10	1		07/30/08 11:03	95-47-6	
a,a,a-Trifluorotoluene (S)	82	%	50-150	1		07/30/08 11:03	98-08-8	
TO3 GCV AIR Meth,Ethane,Ethene	Analytical Method: TO-3 Air							
Methane	**129**	ppmv	5.0	5		08/04/08 11:04	74-82-8	1M,A2

Sample: AIR DISCHARGE-STRIPPER **Lab ID: 1077842002** Collected: 07/28/08 14:45 Received: 07/29/08 15:15 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		07/30/08 11:21	71-43-2	
Ethylbenzene	ND	ppmv	0.10	1		07/30/08 11:21	100-41-4	
THC as Gas	**1.4**	ppmv	1.0	1		07/30/08 11:21		
Toluene	ND	ppmv	0.10	1		07/30/08 11:21	108-88-3	
m&p-Xylene	ND	ppmv	0.20	1		07/30/08 11:21	1330-20-7	
o-Xylene	ND	ppmv	0.10	1		07/30/08 11:21	95-47-6	
a,a,a-Trifluorotoluene (S)	75	%	50-150	1		07/30/08 11:21	98-08-8	

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QUALITY CONTROL DATA

Project: BP-DELTA-WI SS#406
Pace Project No.: 1077842

QC Batch: AIR/7214
QC Batch Method: TO-3 Air
Analysis Method: TO-3 Air
Analysis Description: TO3 GCV AIR BTEX CAN
Associated Lab Samples: 1077842001, 1077842002

METHOD BLANK: 507157
Associated Lab Samples: 1077842001, 1077842002

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	
a,a,a-Trifluorotoluene (S)	%	55	50-150	

LABORATORY CONTROL SAMPLE & LCSD: 507158 507159

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ppmv	1	1.2	1.1	117	111	70-130	5	30	
Ethylbenzene	ppmv	1	0.99	0.94	99	94	70-130	5	30	
m&p-Xylene	ppmv	2	2.0	1.9	98	93	70-130	5	30	
o-Xylene	ppmv	1	0.90	0.85	90	85	70-130	6	30	
THC as Gas	ppmv	10	9.2	9.0	92	90	70-130	2	30	
Toluene	ppmv	1	0.94	0.89	94	89	70-130	5	30	
a,a,a-Trifluorotoluene (S)	%				108	103	50-150			

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QUALITY CONTROL DATA

Project: BP-DELTA-WI SS#406
Pace Project No.: 1077842

QC Batch: AIR/7249
QC Batch Method: TO-3 Air
Analysis Method: TO-3 Air
Analysis Description: TO3 GCV AIR METH,ETHANE,ETHENE
Associated Lab Samples: 1077842001

METHOD BLANK: 510426
Associated Lab Samples: 1077842001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Methane	ppmv	ND	1.0	

LABORATORY CONTROL SAMPLE & LCSD: 510427 510428

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ppmv	10	8.6	8.0	86	80	70-130	7	30	

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QUALIFIERS

Project: BP-DELTA-WI SS#406
Pace Project No.: 1077842

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.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

1M	The closing continuing calibration for this compound is outside of BP acceptance limits.
A2	The tedlar bag analyzed outside 48 hours from collection.

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Atlantic Richfield Company
bp
A BP affiliated company

Chain of Custody Record

1077842 Page 1 of 1

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: 13:00	Temp:
	Temp:
Wind Speed:	Direction:

Lab Name:	Pace Analytical Services	BP/AR Facility No.:	406	Consultant/Contractor:	Delta Consultants
Address:	1700 Elm St., Ste. 200, Minneapolis, MN 55414	BP/AR Facility Address:	2904 Winter Street	Address:	5910 Rice Creek Parkway, Suite 100 Shorview, MN 55126
		Site Lat/Long:			
Lab PM:	Michelle Kruse	California Global ID No.:		Consultant/Contractor Project No.:	G006N-RP81-1
Tele/Fax:	612-607-6382 / 612-607-6444	Enfos Project No.:	G006N-0036	Consultant/Contractor PM:	Jared Otto
BP/AR EBM:	Diane Diks	Provision or OOC (circle one)	Provision	Tele/Fax:	651-697-5232 / 651-639-9473
Address:	28100 Torch Parkway, Suite 200 Warrenville, IL. 60555	Phase/WBS:	03	Report Type & QC Level:	BP Level 1
		Sub Phase/Task:	03	E-mail EDD To:	jotto@deltaenv.com / njohnson@deltaenv.com
Tele/Fax:	630-836-7106 / 630-836-7195	Cost Element:	05	Invoice to:	Consultant or BP or Atlantic Richfield Co. (circle one)

Lab Bottle Order No:

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Matrix:	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Preservative:	Requested Analysis: BTEX TO-3	Requested Analysis: THC TO-3	Requested Analysis: Methane TO-3	Requested Analysis:	Requested Analysis:	Requested Analysis:	Requested Analysis:	Requested Analysis:	Requested Analysis:	Requested Analysis:	Sample Point Lat/Long and Comments
1	AIR DISCHARGE - STRIPPPER	14:45	7/28/2008			X			1							X	X									1077842 AIR STRIPPER
2	AIR DISCHARGE - SVE	14:40	7/28/2008			X			2							X	X	X								SVE SYSTEM
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										

Sampler's Name:	Ed Heytens	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company:	Delta Consultants					7/29/08	15:15
Shipment Date:							
Shipment Method:		Ed Heytens	7/28/2008	16:00		7/28/08	16:20
Shipment Tracking No:			7/28/08	17:00	Fed-Ex	7/28/08	17:10

Special Instructions:

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: Amb °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

BP COC Rev. 5 10/11/2006

Sample Condition Upon Receipt - ESI Tech Specs

Pace Analytical

Client Name: BP. DELTA - WI Project #

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other

Tracking #: 1530224 10003224

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

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Thermometer Used ~~280194010, 72310129~~ 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 ≤ 6°C

Date and Initials of person examining contents: 7-29-08 K

Comments:

Chain of Custody Present:	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☒Yes	☐No	☐N/A	6. TD3
Rush Turn Around Time Requested:	☐Yes	☒No	☐N/A	7.
Sufficient Volume: triple volume provided for MS/MSD	~~☒Yes~~ 7-29-08	☐No	~~☒N/A~~	8.
Correct Containers Used:	☒Yes	☐No	☐N/A	9.
-Pace Containers Used:	☒Yes	☐No	☐N/A	
Containers Intact:	☒Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☒N/A	11.
Sample Labels match COC:	☒Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: AR (BAG)				
All containers needing acid/base preservation have been checked.	☐Yes	☐No	☒N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☒N/A	
Per method, VOA pH is checked after analysis				Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☒N/A	15.
3 Trip Blanks Present:	☐Yes	☐No	☒N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot # (if purchased):				

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

Person Contacted: Date/Time:

Comments/ Resolution:

Temp Log: Temp must be maintained at <6 C during login, record temp every 20 mins	
Opened time:	Temp:
Time:	put in cooler
Time:	Temp:

Project Manager Review: Date: 7/29/08

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)

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

October 20, 2008

Mr. Jared Otto
BP-Delta-Minnesota
c/o Delta Environmental
5910 Rice Creek Parkway
Shoreview, MN 55126

RE: Project: BP-Delta-WI SS#406
Pace Project No.: 1082042

Dear Mr. Otto:
Enclosed are the analytical results for sample(s) received by the laboratory on October 07, 2008. The results relate only to the samples included in this report. 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,

Colin Schuft

Colin Schuft

colin.schuft@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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(612)607-1700

CERTIFICATIONS

Project: BP-Delta-WI SS#406
Pace Project No.: 1082042

Minnesota Certification IDs

Tennessee Certification #: 02818
Wisconsin Certification #: 999407970
Washington Certification #: C754
Pennsylvania Certification #: 68-00563
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530
New York Certification #: 11647
New Jersey Certification #: MN-002
Minnesota Certification #: 027-053-137
Maine Certification #: 2007029
Louisiana Certification #: LA080009
Louisiana Certification #: 03086
Kansas Certification #: E-10167
Iowa Certification #: 368
Illinois Certification #: 200011
Florida (Nelap) Certification #: E87605
California Certification #: 01155CA
Arizona Certification #: AZ-0014
Alaska Certification #: UST-078

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Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: BP-Delta-WI SS#406
Pace Project No.: 1082042

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1082042001	**AIR DISCHARGE-STRIPPER**	Air	10/06/08 15:30	10/07/08 08:03
1082042002	**AIR DISCHARGE-SVE**	Air	10/06/08 15:40	10/07/08 08:03

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SAMPLE ANALYTE COUNT

Project: BP-Delta-WI SS#406
Pace Project No.: 1082042

Lab ID	Sample ID	Method	Analysts	Analytes Reported
1082042001	**AIR DISCHARGE-STRIPPER**	TO-3 Air	AH	7
1082042002	**AIR DISCHARGE-SVE**	TO-3 Air	AH	8

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ANALYTICAL RESULTS

Project: BP-Delta-WI SS#406
Pace Project No.: 1082042

Sample: AIR DISCHARGE-STRIPPER **Lab ID: 1082042001** Collected: 10/06/08 15:30 Received: 10/07/08 08:03 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO3 GCV AIR BTEX BAG	Analytical Method: TO-3 Air							
Benzene	**0.64**	ppmv	0.10	1		10/09/08 12:06	71-43-2	1M
Ethylbenzene	ND	ppmv	0.10	1		10/09/08 12:06	100-41-4	
THC as Gas	**5.1**	ppmv	1.0	1		10/09/08 12:06		1M
Toluene	**0.44**	ppmv	0.10	1		10/09/08 12:06	108-88-3	
m&p-Xylene	**0.45**	ppmv	0.20	1		10/09/08 12:06	1330-20-7	
o-Xylene	**0.32**	ppmv	0.10	1		10/09/08 12:06	95-47-6	
a,a,a-Trifluorotoluene (S)	80	%	50-150	1		10/09/08 12:06	98-08-8	

Sample: AIR DISCHARGE-SVE **Lab ID: 1082042002** Collected: 10/06/08 15:40 Received: 10/07/08 08:03 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO3 GCV AIR BTEX BAG	Analytical Method: TO-3 Air							
Benzene	**0.93**	ppmv	0.10	1		10/09/08 12:50	71-43-2	1M
Ethylbenzene	**0.11**	ppmv	0.10	1		10/09/08 12:50	100-41-4	
THC as Gas	**25.6**	ppmv	1.0	1		10/09/08 12:50		1M
Toluene	**1.3**	ppmv	0.10	1		10/09/08 12:50	108-88-3	
m&p-Xylene	**0.69**	ppmv	0.20	1		10/09/08 12:50	1330-20-7	
o-Xylene	**0.36**	ppmv	0.10	1		10/09/08 12:50	95-47-6	
a,a,a-Trifluorotoluene (S)	80	%	50-150	1		10/09/08 12:50	98-08-8	
TO3 GCV AIR Meth,Ethane,Ethene	Analytical Method: TO-3 Air							
Methane	**115**	ppmv	5.0	5		10/20/08 12:09	74-82-8	A2

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QUALITY CONTROL DATA

Project: BP-Delta-WI SS#406
Pace Project No.: 1082042

QC Batch: AIR/7535
QC Batch Method: TO-3 Air
Analysis Method: TO-3 Air
Analysis Description: TO3 GCV AIR BTEX CAN
Associated Lab Samples: 1082042001, 1082042002

METHOD BLANK: 536955
Matrix: Air
Associated Lab Samples: 1082042001, 1082042002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ppmv	ND	0.10	10/09/08 11:00	
Ethylbenzene	ppmv	ND	0.10	10/09/08 11:00	
m&p-Xylene	ppmv	ND	0.20	10/09/08 11:00	
o-Xylene	ppmv	ND	0.10	10/09/08 11:00	
THC as Gas	ppmv	ND	1.0	10/09/08 11:00	
Toluene	ppmv	ND	0.10	10/09/08 11:00	
a,a,a-Trifluorotoluene (S)	%	85	50-150	10/09/08 11:00	

LABORATORY CONTROL SAMPLE & LCSD: 536956 536957

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ppmv	1	1.1	1.3	113	126	70-130	11	30	
Ethylbenzene	ppmv	1	0.95	1.0	95	102	70-130	8	30	
m&p-Xylene	ppmv	2	2.1	2.2	104	112	70-130	7	30	
o-Xylene	ppmv	1	0.83	0.86	83	86	70-130	4	30	
THC as Gas	ppmv	10	10.1	12.6	101	126	70-130	22	30	
Toluene	ppmv	1	0.97	1.0	97	103	70-130	6	30	
a,a,a-Trifluorotoluene (S)	%				109	100	50-150			

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QUALITY CONTROL DATA

Project: BP-Delta-WI SS#406
Pace Project No.: 1082042

QC Batch: AIR/7587
QC Batch Method: TO-3 Air
Analysis Method: TO-3 Air
Analysis Description: TO3 GCV AIR METH,ETHANE,ETHENE
Associated Lab Samples: 1082042002

METHOD BLANK: 540281
Matrix: Air
Associated Lab Samples: 1082042002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ppmv	ND	1.0	10/20/08 09:23	

LABORATORY CONTROL SAMPLE & LCSD: 540282 540283

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ppmv	10	7.3	9.7	73	97	70-130	29	30	

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QUALIFIERS

Project: BP-Delta-WI SS#406
Pace Project No.: 1082042

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.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

1M	The continuing calibration for this compound is outside of BP acceptance limits.
A2	The tedlar bag analyzed outside 48 hours from collection.

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Atlantic Richfield Company
bp
A BP affiliated company

Chain of Custody Record

1082042 Page 1 of 1

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:	15:15	Temp:	52
		Temp:	
Wind Speed:		Direction:	

Lab Name:	Pace Analytical Services	BP/AR Facility No.:	406	Consultant/Contractor:	Delta Consultants
Address:	1700 Elm St., Ste. 200, Minneapolis, MN 55414	BP/AR Facility Address:	2904 Winter Street	Address:	5910 Rice Creek Parkway, Suite 100 Shorview, MN 55126
Lab PM:	Michelle Kruse	Site Lat/Long:			
Tele/Fax:	612-607-6382 / 612-607-6444	California Global ID No.:		Consultant/Contractor Project No.:	G006N-RP81-1
BP/AR EBM:	Diane Diks	Enfos Project No.:	G006N-0036	Consultant/Contractor PM:	Jared Otto
Address:	28100 Torch Parkway, Suite 200 Warrenville, IL. 60555	Provision or OOC (circle one)	Provision	Tele/Fax:	651-697-5232 / 651-639-9473
		Phase/WBS:	03	Report Type & QC Level:	BP Level 1
		Sub Phase/Task:	03	E-mail EDD To:	jotto@deltaenv.com / njohnson@deltaenv.com
Tele/Fax:	630-836-7106 / 630-836-7195	Cost Element:	05	Invoice to:	Consultant or BP or Atlantic Richfield Co. (circle one)

Lab Bottle Order No:

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: BTEX TO-3	Requested Analysis: THC TO-3	Requested Analysis: Methane TO-3	Sample Point Lat/Long and Comments
1	AIR DISCHARGE - STRIPPPER	15:30	10/6/2008			X		1						X	X		AIR STRIPPER 001
2	AIR DISCHARGE - SVE	15:40	10/6/2008			X		2						X	X	X	SVE SYSTEM 002
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

		Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name:	Ed Heytens				Pace	10-7-08	0820
Sampler's Company:	Delta Consultants						
Shipment Date:							
Shipment Method:		Ed Heytens	10/6/2008	16:00		10/6/08	1600
Shipment Tracking No:			10/6/08	1700	Fed-Ex	10/6/08	700

Special Instructions:

Custody Seals In Place: Yes / (No) | Temp Blank: Yes / (No) | Cooler Temp on Receipt: ~~Amb~~ °F/C | Trip Blank: Yes / (No) | MS/MSD Sample Submitted: Yes / (No)

BP COC Rev. 5 10/11/2006

Sample Condition Upon Receipt

Pace Analytical

Client Name: BP - DELTA - WI Project # 1082042

Courier: [X] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [ ] Pace Other _____

Tracking #: 1530724 10003705

Optional
Proj. Due Date:
Proj. Name:

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

Packing Material: [X] Bubble Wrap [ ] Bubble Bags [ ] None [ ] Other _____ Temp Blank: Yes ____ No X

Thermometer Used ~~80344042, 179425~~ Type of Ice: Wet Blue (None) [ ] Samples on ice, cooling process has begun

Cooler Temperature AmB Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 10-7-08 JL

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	[X]Yes [ ]No [ ]N/A	1.
Chain of Custody Filled Out:	[X]Yes [ ]No [ ]N/A	2.
Chain of Custody Relinquished:	[X]Yes [ ]No [ ]N/A	3.
Sampler Name & Signature on COC:	[X]Yes [ ]No [ ]N/A	4.
Samples Arrived within Hold Time:	[X]Yes [ ]No [ ]N/A	5.
Short Hold Time Analysis (<72hr):	[X]Yes [ ]No [ ]N/A	6. TO3
Rush Turn Around Time Requested:	[ ]Yes [X]No [ ]N/A	7.
Sufficient Volume:	[X]Yes [ ]No [ ]N/A	8.
Correct Containers Used:	[X]Yes [ ]No [ ]N/A	9.
-Pace Containers Used:	[X]Yes [ ]No [ ]N/A	
Containers Intact:	[X]Yes [ ]No [ ]N/A	10.
Filtered volume received for Dissolved tests	[ ]Yes [ ]No [X]N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: AIR (BAG)	[X]Yes [ ]No [ ]N/A	12.
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	[ ]Yes [ ]No [X]N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	[ ]Yes [ ]No [X]N/A	
Exceptions: VOA,Coliform, TOC, Oil and Grease, WI-DRO (water)	[ ]Yes [ ]No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	[ ]Yes [ ]No [X]N/A	14.
Headspace in VOA Vials (>6mm):	[ ]Yes [ ]No [X]N/A	15.
Trip Blank Present:	[ ]Yes [ ]No [X]N/A	16.
Trip Blank Custody Seals Present	[ ]Yes [ ]No [X]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: _____ **Date:** 10/7/08

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)