ENGINEERING ARCHITECTURE ENVIRONMENTAL



OMNNI ASSOCIATES, INC. ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 800-571-6677 • 920-735-6900 FAX 920-830-6100 WWW.OMNNLCOM

July 1, 2008

Mr. Chris Stempa Deputy Director of Utilities Appleton Wastewater Treatment Facility 2006 East Newberry Street Appleton, WI 54915-2758



JUL 0 2 2008 TRACKED V 43 REVIEWED

# RE: N.W. Mauthe Superfund Site – Appleton, Wisconsin Compliance Report, Industrial User (Wastewater Discharge) Permit # 06-21

Dear Mr. Stempa:

OMNNI Associates, Inc. is pleased to submit the quarterly process compliance report for the N.W. Mauthe site, 725 Outagamie Street, Appleton, Wisconsin. This report is submitted in accordance with the City of Appleton Industrial User Permit No. 06-21, issued on May 26, 2006.

The flow monitoring and sampling activities were conducted at the effluent discharge point, prior to Outfall 001. Samples were collected by closing the discharge valve the day prior to sampling to allow water to collect in the equalization tank. Approximately 24 hours later, the discharge valve was reopened and the composite sample was collected.

From the sample collected, a new, laboratory provided, plastic 250 ml sample container was filled. This unfiltered, unpreserved sample was analyzed for hexavalent chromium by Pace Analytical Services laboratory. (See laboratory chains of custody and laboratory reports, Attached.)

If the monthly total chromium sample was prepared during the sampling event, water from the collected discharge sample was filtered through a 0.45 µm filter and then poured into a new, laboratory provided, plastic 250 ml sample container. The sampling container contained nitric acid as a preservative. The sample was analyzed for total dissolved chromium by Pace Analytical Services laboratory.

After the laboratory samples were prepared, pH was measured with a Hach pH Pocket Pal Tester from the remaining collected discharge sample.

The table below summarizes the total metered discharge readings, pH measurements, and laboratory analysis. Monthly discharge totals were calculated by linear interpolation of the actual meter readings.

	OUTFALL 001								
Date Actual	Date For Linear Interpolation	Metered Discharge Reading (gallons)	Gallons Discharged Between Meter Reading	Monthly Discharge (gallons)	рН	Hexavalent Chromium Lab Analysis (mg/L)	Total Chromium Lab Analysis (mg/L)		
	04/01/08	8,656,324							
04/01/08		8,657,629	4,418		9.0	1.6	1.530		
04/01/08		8,661,298	3,669						
04/04/08		8,682,788	21,490						
04/07/08		8,697,084	14,296						
04/08/08		8,697,084	0		9.1	0.063			
04/14/08		8,790,128	93,044						
04/15/08		8,790,128	0		9.1	0.36			
04/15/08		8,797,710	7,582						
04/16/08		8,804,525	6,815						
04/16/08		8,806,972	2,447						
04/21/08		8,826,834	19,862						
04/22/08		8,826,834	0		9.1	0.87			
04/28/08		8,860,276	33,442	April					
04/29/08		8,860,276	0	212,193	9.1	0.51			
	05/01/08	8,868,517							
05/05/08		8,890,994	30,718						
05/06/08		8,890,994	0		9.1	0.95	0.679		
05/12/08		8,907,573	16,579						
05/13/08		8,907,573	0		9.2	0.69			
05/19/08		8,920,045	12,472						
05/20/08		8,920,045	0		9.1	0.74			
05/26/08		8,929,582	9,537	May					
05/27/08		8,929,582	0	66,866	9.0	0.60			
	06/01/08	8,935,384							
06/02/08		8,936,965	7,383						
06/03/08		8,936,965	0		9.3	0.90	0.824		
06/09/08		8,951,078	14,113						
06/10/08		8,951,078	0		9.2	0.85			
06/11/08		8,960,258	9,180						
06/16/08		8,999,813	39,555						
06/16/08		8,999,813	0						
06/17/08		8,999,813	0		9.2	1.4			
06/18/08		9,007.718	7.905						
06/23/08		9,016,923	9.205						
06/24/08		9,016,923	0		9.3	0.20	[		
06/30/08		9,026.850	9.927	June					
06/30/08		9,026.850	0	91,466					
	07/01/08	9,026.850							
07/01/08		9,026,850	0		9.3	f			

Italicized metered discharge reading was calculated by linear interpolation.

. .

Industrial User (Wastewater Discharge) Permit 06-21 Outfall 001 Effluent Limitations:

рН	Hexavalent Chromium	Total Chromium
Between 5.0 – 12.4 s.u.	< 4.5 mg/L	< 7.0 mg/L

¥

1

There were no exceedances during this reporting period of the Industrial User (Wastewater Discharge) Permit from Outfall 001 based on the monitoring performed.

I performed all the sample collection and monitoring<sup>1</sup> during the time period from April 1, 2008 through June 30, 2008.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions regarding the information provided, please do not hesitate to contact me.

Sincerely, OMNNI Associates, Inc.

Brin D. Waynes

Brian D. Wayner, P.E. Environmental Manager

Enclosures

cc:

Ms. Jennifer Borski, Hydrogeologist/Project Manager, WDNR-Northeast Region RR, 625 E. County Road Y, Suite 700, Oshkosh, WI 54901-9731

<sup>&</sup>lt;sup>1</sup> Brian Wayner is a professional engineer (E35304), has been trained in sample collection and preparation, has obtained his OSHA 40-Hour HAZWOPER Certification, and has completed annual refresher training.



April 11, 2008

Brian Wayner Omnni Associates, Inc. One Systems Drive Appleton, WI 549141654

RE: Project: N1866A05/003 MAUTHE Pace Project No.: 402140

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on April 01, 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,

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

**REPORT OF LABORATORY ANALYSIS** 

Page 1 of 8





### CERTIFICATIONS

N1866A05/003 MAUTHE Project:

Pace Project No.: 402140

#### Green Bay Certification IDs

Florida (NELAP) Certification #: E87948 Illinois Certification #: 200050 California Certification #: 06246CA New York Certification #: 11888 North Dakota Certification #: R-150 North Carolina Certification #: 503

Green Bay Volatiles Certification IDs Florida (NELAP) Certification #: E87951 California Certification #: 06247CA Illinois Certification #: 200051 New York Certification #: 11887 North Dakota Certification #: R-200 North Carolina Certification #: 503

Minnesota Certification #: 055-999-334 South Carolina Certification #: 83006001 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 Kentucky Certification #: 82 Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334 South Carolina Certification #: 83006001 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 Kentucky Certification #: 83 Louisiana Certification #: 04169

# **REPORT OF LABORATORY ANALYSIS**





# SAMPLE SUMMARY

Project: Pace Project No.:	N1866A05/003 MAUTHE 402140				
Lab ID	Sample ID	Matrix	Date Collected	Date Received	
402140001	OUTFALL 001	Water	04/01/08 07:03	04/01/08 14:10	

# **REPORT OF LABORATORY ANALYSIS**





•

# SAMPLE ANALYTE COUNT

Project: N1866A05/003 MAUTHE Pace Project No.: 402140

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
402140001	OUTFALL 001	EPA 7196	DEY	1	PASI-G

### **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



Page 4 of 8



### **PROJECT NARRATIVE**

Project: N1866A05/003 MAUTHE

Pace Project No.: 402140

Method:EPA 7196Description:7196 Chromium, HexavalentClient:OMNNI ASSOCIATES, INC.Date:April 11, 2008

#### **General Information:**

1 sample was analyzed for EPA 7196. All samples were received in acceptable condition with any exceptions noted below.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

#### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

#### **Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

#### Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

#### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### **Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

#### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## **REPORT OF LABORATORY ANALYSIS**





4

ń

# ANALYTICAL RESULTS

N1866A05/003 MAUTHE Project: 02140

Pace F	Project	No.:	402
--------	---------	------	-----

Sample: OUTFALL 001	Lab ID:	402140001	Collecte	d: 04/01/0	8 07:03	Received: 04	4/01/08 14:10 I	Matrix: Water	
Parameters	Results	Units		LOD	DF	Prepared	Analyzed	CAS No.	Qual
7196 Chromium, Hexavalent	Analytical Method: EPA 7196								
Chromium, Hexavalent	1.6	mg/L	0.14	0.042	12.5		04/01/08 15:1	5 18540-29-9	

Date: 04/11/2008 11:51 AM

# **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..

nebč

Page 6 of 8



.

# QUALITY CONTROL DATA

Project:	N1866A05/	003 MAUTH	ΙE										
Pace Project No.:	402140												
QC Batch:	WETA/12	22		Analy	sis Method	l: E	EPA 7196					<u> </u>	
QC Batch Method:	EPA 7196	i		Analy	sis Descrip	otion: 7	196 Chromi	um, Hexav	alent				
Associated Lab Sa	mples: 402	140001											
METHOD BLANK:	11751									····		<u> </u>	• • • •
Associated Lab Sa	mples: 402	140001											
Parar	neter		Units	Blan Resu	k R Ilt	eporting Limit	Qualifie	rs					
Chromium, Hexava	lent	mg/L		<0	.0034	0.011	 						
LABORATORY CC	NTROL SAN	117:	52										
Parar	neter		Units	Spike Conc.	LCS Resi	S Jlt	LCS % Rec	% Red Limits	; Qi	ualifiers			
Chromium, Hexava	lent	mg/L		.3	3	0.31	105	90	-110		-		
MATRIX SPIKE & I	MATRIX SPI	KE DUPLIC	ATE: 11753			11754							
				MS	MSD								
Devere		1 Inite	402140001	Spike	Spike	MS	MSD Desuit	MS % Dec	MSD	% Rec	000	Max	0
Parame				Conc.	Conc.	Result	Kesuit	% Kec	% Kec				Qual
Chromium, Hexava	lent	mg/L	1.6	3.8	3.8	5.6	5.5	106	102	90-110	2	20	

Date: 04/11/2008 11:51 AM

# **REPORT OF LABORATORY ANALYSIS**

٠

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..

nebc



### QUALIFIERS

Project: N1866A05/003 MAUTHE

Pace Project No.: 402140

#### 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.

#### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Date: 04/11/2008 11:51 AM

## **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..

nelac



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

April 10, 2008

Client Services Pace Analytical Green Bay 1241 Bellevue Street Suite 9 Green Bay, WI 54302

RE: Project: 402140 OMNNI ASSOCIATES Pace Project No.: 1070809

Dear Client Services:

Enclosed are the analytical results for sample(s) received by the laboratory on April 01, 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 otherw ise narrated in the body of the report.

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

Sincerely,

Sylvia Honton

Sylvia Hunter

sylvia.hunter@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**

Page 1 of 6





Pace Analytical Services, Inc. 1700 Elm Street Minneapolis, MN 55414 (612)607-1700 ٩

### SAMPLE SUMMARY

Project:	402140 OMNNI ASSOCIATES				
Pace Project No.:	1070809				
Lab ID	Sample ID	Matrix	Date Collected	Date Received	
402140001	OUTFALL 001	Water	04/01/08 07:03	04/01/08 14:10	

### **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



Page 2 of 6



### SAMPLE ANALYTE COUNT

Project:402140 OMNNI ASSOCIATESPace Project No.:1070809

Lab ID	Sample ID	Method	Analysts	Analytes Reported	
402140001	OUTFALL 001	EPA 6020	RJS	1	

**REPORT OF LABORATORY ANALYSIS** 

Page 3 of 6





### ANALYTICAL RESULTS

Project: Pace Project No.:	402140 OMNN 1070809	I ASSOCIATES	6							
Sample: OUTFALL	. 001	Lab ID:	402140001	Collected	1: 04/01/0	8 07:03	Received: 04/	01/08 14:10 M	atrix: Water	
Parame	ters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, E	Dissolved	Analytica	l Method: EPA	6020 Prepar	ation Meth	od: EPA	3020			
Chromium		<b>1530</b> נ	Jg/L	12.5	6.2	25	04/07/08 13:30	04/08/08 14:55	7440-47-3	MO

Date: 04/10/2008 11:19 AM

### **REPORT OF LABORATORY ANALYSIS**

Page 4 of 6

.





.

### QUALITY CONTROL DATA

Project:	402140 OMNNI /	ASSOCI/	ATES										
Pace Project No.:	1070809												
QC Batch:	MPRP/11791			Analys	sis Method	I:	EPA 6020						
QC Batch Method:	EPA 3020			Analys	sis Descrip	otion:	6020 MET Dis	ssolved					
Associated Lab Sar	nples: 4021400	01											
METHOD BLANK:	461446		<u> </u>										
Associated Lab Sar	nples: 4021400	01											
				Blan	k F	Reporting							
Parar	neter		Units Result Limit Qualifiers										
Chromium		ug/L			ND	0.5	50						
LABORATORY CO	NTROL SAMPLE:	46144	7	<u> </u>									
Paran	neter		Units	Spike Conc.	Res	S ult	LCS % Rec	% Red Limits		Qualifiers			
Chromium		ug/L		80	)	86.3	108	85	5-115		•		
	MPLE:	46144	8										
				08034	4554	Spike	MS	N	1S	% Rec			
Paran	neter	i	Units	Res	ult	Conc.	Result	%I	Rec	Limits		Quali	liers
Chromium		ug/L			2.8	80	79	.4	96	70-1	130		
MATRIX SPIKE & M	ATRIX SPIKE DU	PLICATE	E: 461482	2		461483						<u>_</u>	
				MS	MSD								
		4	02140001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Мах	
Paramet	er	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chromium	ug/	-	1530	80	80	139	0 1400	-170	-164	4 70-130	.4	20	M0

Date: 04/10/2008 11:19 AM

## **REPORT OF LABORATORY ANALYSIS**

Page 5 of 6





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

#### QUALIFIERS

Project: 402140 OMNNI ASSOCIATES

Pace Project No.: 1070809

#### 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

M0 Matrix spike recovery was outside laboratory control limits.

Date: 04/10/2008 11:19 AM

### **REPORT OF LABORATORY ANALYSIS**

Page 6 of 6



San	nple Conditio	n Upon Receipt
Pace Analytical Client Name	Ouinne	- appleton Project # 402140
Courier: Fed Ex UPS USPS Clier	nt 🗆 Commercia	Pace Other Cploral State
Custody Seal on Cooler/Box Present: Uyes	∐k_no Sea	Is intact: ves no
Packing Material: Bubble Wrap Bubble	Bags None	Other
Thermometer Used	Type of Ice:	et Blue None Samples on ice, cooling process has begun
Cooler Temperature      NH        Temp should be above freezing to 6°C	Biological Tissu	e is Frozen: Yes No Comments: $\mathcal{L}$
Chain of Custody Present:		A 1.
Chain of Custody Filled Out:	Pres []NO []N	A 2.
Chain of Custody Relinquished:	UTTES DNO DN	A 3.
Sampler Name & Signature on COC:	Stes DNO DN	A 4.
Samples Arrived within Hold Time:	Kures DNO DN	A 5.
Short Hold Time Analysis (<72hr):	Ares DNO DN	A 6.
Rush Turn Around Time Requested:	DYes KIND DN	A 7.
Sufficient Volume:	Rives DNO DN	A 8.
Correct Containers Used:	Ores DNO DN	A 9.
-Pace Containers Used:	Ares DNO DN	A
Containers Intact:	NYAS DNO DN	A 10.
Filtered volume received for Dissolved tests	Pes DNo DN	A 11.
Sample Labels match COC:	Pres DNO DN	A 12.
-Includes date/time/ID/Analysis Matrix: All containers needing preservation have been checked.	<u>(.)</u> (1) (.) (.) (.) (.) (.) (.) (.) (.) (.) (.	A 13.
All containers needing preservation are found to be in compliance with EPA recommendation.	∮ Øjes □No □N	A
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	□Yes □No	Initial when Lot # of added preservative
Samples checked for dechlorination:		A 14.
Headspace in VOA Vials ( >6mm):	DYes DNO DON	A 15.
Trip Blank Present:	OYes ONO (D)	A 16.
Trip Blank Custody Seals Present		A
Pace Trip Blank Lot # (if purchased):		
Client Notification/ Resolution:		Field Data Required? Y / N
Person Contacted:	Date	/Time:
Comments/ Resolution:	·····	
	- <u>-</u>	· · · · · · · · · · · · · · · · · · ·
· · · · · · · · · · · · · · · · · · ·		
		J11/1/1
Project Manager Review:		Date: [/]/ //

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)

(P	lease Print Clearly)		]	_									ST RE	GION		Page 1	of
Çompany Name:	OMNINI Assoc	ATES		Γ.		•		. @			MN: 6	12-607-1	700	WI: 920-469-2436			001071
Branch/Location:	APPLETON		/		ace	Ana	lytic	al							COC No.		031271
Project Contact:	BRIAN WAYN	ER				vv vr vv. p.e	KC101/3.U	0,,,						Quote #:	Mr	WTHE	
Phone:	920/830-6141			<u> </u>	HA	<u>VIN</u>	OF	: <u>C</u>	<u>US</u>	<u>ГО</u>	DY			Mail To Contact:	BRIAN	U WA.	YNOR
Project Number:	N1866A05/00.	3	A=No	ne B=H	CL C=	H2SO4	Preserva D=HNO3	tion Cod E=D1 \	les Water F	=Methan	ol G=Na	аОН		Mail To Company:	OMNN	Asson	ATTES
Project Name:	MAUTHE	-	H=So	dium Bisulf	ate Soluti	on	I=Sodiun	n Thiosulf	ate J=	Other				Mail To Address:	ONES	ystems	DRIVE
Project State:			FILTE	RED? /NO)	Y/N	N	Y								APPLIE	iors, ius	54914
Sampled By (Print)	BRIAN WAY	NER	PRESER (COI	VATION DE)*	Pick Letter	A	D							Invoice To Contact:	BRIA	NA UNA	YNER
Sampled By (Sign):	Bi J. Ukup	ur												Invoice To Company:	07	(n) n (	
PO #:		Regulatory Program:		<u>.</u>	lester	15								Invoice To Address:	5	AME	
Data Package O	ptions MS/MSD	Mat A = Air	v = Water		Requ	الله الم											
EPA Leve	el III (billable)	B = Biota C = Charcoal O = Oil	DW = Drinkir GW = Groun SW = Surfac	ng Water d Water	/seš	1407	Ś							Invoice To Phone:		(	
EPA Leve	NOT needed on your sample	0 - 01 S = Soil Si = Siudge	WW = Waste WP = Wipe	e Water Water	Analy	X	HQG							CLIENT	LAB CO	MMENTS	Profile #
PACE LAB #	CLIENT FIELD ID	COLL DATE	ECTION TIME	MATRIX		Ťΰ	<u> </u>							COMMENTS	(Lab Us	se Only)	
001	OUTFALL OUL	4/1/08	7:03	GW		$\times$	$\times$								2-250	ul #	9
			L				l										
							ļ										
		_			•••	 	ļ										
						ļ	<u> </u>	ļ									
										<u> </u>							
	<u></u>		<u> </u>														
			ļ			ļ	L										
							ļ										
			ļ		L												
			<u> </u>														
Rush Turnaro (Rush TAT s	und Time Requested - Prelinubject to approval/surcharge	ms Relin ∋)	iquished By:	Way	ки		4/ 	te/Time: 08	7:5	٥	Receive	By	M	sere 1/08	0915	PACEI	Project No.
Dat Transmit Prelim Ru	te Needed:	Relin	iquished By	l Enist K	10-1	41	1/00	ite/Time:	141	D	Receive	r/By!	QU.	MA (DeterTime:	4:15-	-402	
Email #1:		Relin	nquished B/:	//		<u> </u>		te/Time:		- <u>-</u>	Received	<u>ү ү</u> 600 Ву:		Date/Time:	R	ecelpt Temp =	NIL°C
Email #2: Telephone:		Balir	/	<i>\</i> /			· 									Sample	Receipt pH
Fax:			цавлев ву:	v			Ua	ne/ i me:			Received	з Ву:		Date/Time:		CoolerC	ustedy Seal.
Sample: special pr	Samples on HOLD are subject to  Relinquished By:  Date/Time:    special pricing and release of liability						Received By: Date/Time: Present / Not Present Intact / Not Intact				Not Intect						



April 18, 2008

**Brian Wayner** Omnni Associates, Inc. **One Systems Drive** Appleton, WI 549141654

RE: Project: N1866 A05-003 MAUTHE Pace Project No.: 402394

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on April 08, 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,

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

# **REPORT OF LABORATORY ANALYSIS**

Page 1 of 9





### CERTIFICATIONS

.....

Project: N1866 A05-003 MAUTHE

Pace Project No.: 402394

#### **Green Bay Certification IDs**

Florida (NELAP) Certification #: E87948 Illinois Certification #: 200050 California Certification #: 06246CA New York Certification #: 11888 North Dakota Certification #: R-150 North Carolina Certification #: 503

#### Green Bay Volatiles Certification IDs

Florida (NELAP) Certification #: E87951 California Certification #: 06247CA Illinois Certification #: 200051 New York Certification #: 11887 North Dakota Certification #: R-200 North Carolina Certification #: 503 Minnesota Certification #: 055-999-334 South Carolina Certification #: 83006001 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 Kentucky Certification #: 82 Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334 South Carolina Certification #: 83006001 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 Kentucky Certification #: 83 Louisiana Certification #: 04169



Page 2 of 9





.

# SAMPLE SUMMARY

Project:	N1866 A05-003 MAUTHE				
Pace Project No.:	402394				
Lab ID	Sample ID	Matrix	Date Collected	Date Received	
402394001	OUTFALL 001	Water	04/08/08 07:10	04/08/08 11:25	

# **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



.



.

### SAMPLE ANALYTE COUNT

Project: • N1866 A05-003 MAUTHE

Pace Project No.: 402394

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
402394001	OUTFALL 001	EPA 335.4	DAW	1	PASI-G
		EPA 7196	DEY	1	PASI-G
		EPA 7470	LMS	1	PA\$I-G

**REPORT OF LABORATORY ANALYSIS** 

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..

nelac



# ANALYTICAL RESULTS

Project: N1866 A05-003 MAUTHE No.: 402394

Sample: OUTFALL 001	Lab ID: 402394001		Collected: 04/08/08 07:10			Received: 04/	/08/08 11:25 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury, Dissolved	Analytica	I Method: EPA	7470 Prepa	aration Met	nod: EF	PA 7470			
Mercury	<0.10 u	ug/L	0.33	0.10	1	04/09/08 15:58	04/10/08 11:07	7439-97-6	
335.4 Cyanide, Tot. Dissolved	Analytica	I Method: EPA	335.4						
Cyanide	0.014J r	ng/L	0.020	0.0060	1		04/16/08 14:13	57-12-5	в
7196 Chromium, Hexavalent	Analytica	I Method: EPA	7196						
Chromium, Hexavalent	0.063 r	ng/L	0.011	0.0034	1		04/08/08 15:45	18540-29-9	

# **REPORT OF LABORATORY ANALYSIS**





ł

.

,

# QUALITY CONTROL DATA

Project: Pace Project No.:	N1866 A05-003 N 402394	MAUTHE										
QC Batch:	WETA/1275		Analys	sis Method	l:	EPA 7196	·····				<u> </u>	
QC Batch Method:	EPA 7196		Analys	Analysis Description:			7196 Chromium, Hexavalent					
Associated Lab Sar	nples: 40239400	01										
METHOD BLANK:	14489		·									
Associated Lab Sar	nples: 40239400	01										
Paran	neter	Units	Blani Resu	c R It	teporting Limit	Qualifie	rs					
Chromium, Hexava	lent	mg/L	<0.	0034	0.01	1						
LABORATORY CO	NTROL SAMPLE:	14490			···						<u> </u>	
Paran	neter	Units	Spike Conc.	LCS Resi	S JIt	LCS % Rec	% Rec Limits	; Qi	ualifiers			
Chromium, Hexava	ent	mg/L	.3	·	0.32	106	90-	-110		-		
MATRIX SPIKE & N	ATRIX SPIKE DU	JPLICATE: 14491			14492							<u> </u>
Paramet	er l	402394001 Jnits Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Hexaval	ent mg/	L 0.063	.3	.3	0.39	0.38	110	106	90-110 1	3	20	

Date: 04/18/2008 11:00 AM

# **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..

nelac



### QUALITY CONTROL DATA

Project:	N1866 A05-003	MAUTH	É										
Pace Project No.:	402394												
QC Batch:	MERP/1050			Analy	sis Method	i: E	EPA 7470				<u> </u>	<u> </u>	
QC Batch Method:	EPA 7470			Analysis Description:			7470 Mercury Dissolved						
Associated Lab Sa	mples: 4023940	01											
METHOD BLANK:	14733											<u></u>	
Associated Lab Sa	mples: 4023940	01											
				Blan	k R	eporting							
Parar	neter		Units	Resu	It	Limit	Qualifie	rs					
Mercury		ug/L			<0.10	0.33	3						
LABORATORY CC	NTROL SAMPLE	14734											
				Spike	LCS	5	LCS	% Red	•				
Parar	neter		Units	Conc.	Resu	ult	% Rec	Limits	Qı	ualifiers	_		
Mercury		ug/L		5		5.7	113	85	-115				
MATRIX SPIKE & I	MATRIX SPIKE D	UPLICA	TE: 14735			14736			<u> </u>				
				MS	MSD								
		4	02406018	Spike	Spike	MS	MSD	MS	MSD	% Rec		Мах	
Parame	ter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Mercury	ug/	L	<0.20	5	5	5.6	5.5	112	110	85-115	2	20	

Date: 04/18/2008 11:00 AM

# **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..

nelac



•

..

# QUALITY CONTROL DATA

Project: N1866 A Pace Project No.: 402394	.05-003 MAUT	ΉE										
QC Batch: WETA/	1322		Analy	sis Method	J:	EPA 335.4	······					
QC Batch Method: EPA 33	35.4		Analy	sis Descrip	otion:	335.4 Cyanid						
Associated Lab Samples:	102394001											
METHOD BLANK: 16769					·							
Associated Lab Samples:	102394001											
			Blan	k R	Reporting							
Parameter		Units	Resu	lt	Limit	Qualifier	s					
Cyanide	mg/l	-	0.0	0083J	0.02	20						
LABORATORY CONTROL S	AMPLE: 167	70				<u> </u>		<u>.</u> '			<u> </u>	
			Spike	LCS	5	LCS	% Rec	;				
Parameter		Units	Conc.	Resu	ult	% Rec	Limits	Qı	ualifiers			
Cyanide	mg/l	_	.1	- I	0.11	105	90	-110		-		
MATRIX SPIKE & MATRIX S	PIKE DUPLIC	ATE: 16771			16772							
Baramatar	l Inite	402410001	MS Spike	MSD Spike	MS	MSD	MS % Boo	MSD	% Rec	-	Мах	Quet
			Conc.	Conc.	Result		% Rec	% Rec	Limits			Quai
Cyanide	mg/L	1.6	.1	.1	1.	.7 1.8	135	200	90-110	4	20	MO
MATRIX SPIKE & MATRIX S	PIKE DUPLIC	ATE: 16773			16774		·	· ·				· · · · ·
			MS	MSD								
Baramatar	Linita	402632001	· Spike	Spike	MS	MSD Desuit	MS V. Doo	MSD % Doc	% Rec	- Hone	Max	Qual
			Conc.	Conc.	Result		% Rec	% Rec		кр <u>р</u>	RPD	Qual
Cyanide	mg/L	0.014J	1 <u>ب</u>	.1	0.0060	J 0.0066J	-8	-7	- 90-110	۴" ۴	20	MO
						•						
						· _						

Date: 04/18/2008 11:00 AM

.

# **REPORT OF LABORATORY ANALYSIS**





### QUALIFIERS

Project: N1866 A05-003 MAUTHE Pace Project No.: 402394

#### 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.

#### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

#### ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
мо	Matrix spike recovery was outside laboratory control limits

### **REPORT OF LABORATORY ANALYSIS**

Page 9 of 9



	ample Conditio	n Upon Receip	ot
Pace Analytical Client Nam	e: Omnati	•	Project # <u>402394</u>
Courier: C Fed Ex UPS USPS C Tracking #:	lient Commercial	Pace Öther	
Custody Seal on Cooler/Box Present: 🗌 ye	es 🛛 no Seal	s intact: 🔲 yes	
Packing Material: Bubble Wrap Bubb	ble Bags 🔲 None_	Other	
Thermometer Used	Type of Ice: (We	Blue None	Samples on ice, coojing process has begun
Cooler Temperature  RO    Temp should be above freezing to 6°C	Biological Tissue	e is Frozen: Yes No Comments: A	B Contents: <u>4/8/08</u>
Chain of Custody Present:		1.	· · · · · · · · · · · · · · · · · · ·
Chain of Custody Filled Out:		2.	
Chain of Custody Relinquished:	TYES DNO DN/	3.	
Sampler Name & Signature on COC:		4.	
Samples Arrived within Hold Time:	ØYes DNO DNA	5.	
Short Hold Time Analysis (<72hr):	ATTes DNO, DN/A	6. 24 hrs.	
Rush Turn Around Time Requested:		7.	•
Sufficient Volume:		8.	•
Correct Containers Used:	ElYes, DNO DN/A	9.	
-Pace Containers Used:			
Containers Intact:	Dives ONO ON/A	10.	
Filtered volume received for Dissolved tests		11.	· · · · · · · · · · · · · · · · · · ·
Sample Labels match COC:		12.	
-Includes date/time/ID/Analysis Matrix:	<u> </u>	·	
All containers needing preservation have been checked.	DYes ONO ONVA	13.	
All containers needing preservation are found to be in compliance with EPA recommendation.			
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	□Yes □No	Initial when completed	Lot # of added preservative
Samples checked for dechlorination:		14.	<b>_</b>
Headspace in VOA Vials ( >6mm):	UYes DNO ZIN/A	15.	
Trip Blank Present:	DYes DNO DNA	16.	
Trip Blank Custody Seals Present	□Yes □No □N/A		
Pace Trip Blank Lot # (if purchased):	<u> </u>	[	
Client Notification/ Resolution:			Field Data Required? Y / N
Person Contacted:	Date/	Time:	
Comments/ Resolution:			
		·	
		·····	·
······································		<u>.</u>	· · · · · · · · · · · · · · · · · · ·
Project Manager Review:		······································	Date: 4/8/07

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)

(	Please Print Cle	arly)			_							UPPER		EST R	GION		Page	1 of j
Company Name:	OMNNI	Associ	ATES					• ••				MN: 6	12-607-1	1700	WI: 920-469-2436			
Branch/Location:	APPI	-127000				ace	Ana	lytiC	al*				. Δ	1				
Project Contact:	BRIANL	DAYNIL	2				www.pe	icelabs.c	20m				KD	V	Quote #:	MA	WTHE	
Phone:	920/830	-10141			C	HA:	١N	OF		US.	ТО	DY	•		Mail To Contact:	Rove	IN WA	YNER .
Project Number:	N18/1	North	 `Z				H2SO4	Preserve	tion Cod	ee Water F	= Methan		aOH		Mail To Company:	ONNI	VI Ace	SCRUGTES
Project Name:	101360		-2-	H=Sc	odium Bisul	fate Soluti	on	1=Sodiur	n Thiosulf	ate J=	Other				Mail To Address:	0006	Sume	we brive
Project State:	1.040	VI HE		FILTE	RED?	WE		N		N	N	N				APPLi		51 54914
Sampled By (Prin		<u> </u>	0	PRESER	RVATION	PERSI	λ	G	17		1	2 2	0		Invoice To Contact:	R	1 20	
Sampled By (Sig	DRIAN	NAYNA 14/100	<u>.</u>	(CO	0E)*	(121122)		<u> </u>			V	υ			invoice To Company:	DRZIA		YNICK
	Bin O	R	2/1 egulatory			1	1.										JANN	
P0 #:		P	Program:	dir Codo			3 3		5	. 3	Ś				Invoice I o Address:		>Ave	
(biliable)		ur sample	Air	W = Water		ĕ	14		11 2	2 2	2,	5	7					
		liable) C =	Charcoal Oil	GW = Grour SW = Surfac	nd Water ce Water	Text	8 9	ZZ	15	22	201	50	YZ		Invoice To Phone:			
		sample SI =	Soil Sludge	WW = Wast WP = Wipe	e Water	(EU)	E E	53	L' SI	A A	H R		リット		CLIENT	LAB C	OMMENTS	Profile #
PACE LAB #	CLIENT FIEL	D ID	DATE	ECTION TIME	MATRIX		20	140	R a	ن ۲	บป	75	2 "		COMMENTS	(Lab l	Jse Only)	
001	atfall	001	4/8/08	7:10	GW		×	X	$\checkmark$	X	×	$\times$	X			R-250n	11 3 -25	SML
						:											,	
					Τ													
			[															
			<u> </u>															
				·														
			<b></b>		1	1						··						
	· ·		<u> </u>		<u> </u>												<u>,</u> ,	
<u> </u>	<u></u>		<u>}</u>		<u> </u>													
							<u></u>											
			<u> </u>															<u></u>
	·····		<b> </b>															
Rush Turna	round Time Reques	ited - Prelims	Reilo	quished By:	<u> </u>	7		L	te/Time:	L		Receiver	1 By:			l	PACE	Project No.
(Rush TAT	subject to approva	l/surcharge)		Brin	N. h	Jarx	41	4/8	08	8:12	an	$\Sigma$	M	el	4 4/5/09	8:47	UND	204
D Transmit Prelim f	ate Needed:	te what you wan	n: Relin	guished By:	Niel	D	4/9	120 Da	ite/Time:	ב'וו		Received	By	1	Hate/Time:	11.25	7020	
Email #1:			Reline	quished By:		<u> </u>	-49	Da	te/Time:	./		Received	í By:	<del>6/</del>	Date/Time:	11-20	Receipt Temp =	Kol °C
Email #2:										·							Sample	Receipt pH
Fax:	····		Relin	quished By:				Da	ite/Time:			Received	l By:		Date/Time:		Cooler C	Adjusted
Samp special	les on HOLD are subject is pricing and release of liab	o Ility	Relin	quished By:				De	ite/Time:			Received	l By:		Date/Time:		Present /	Not Present



April 15, 2008

Brian Wayner Omnni Associates, Inc. One Systems Drive Appleton, WI 549141654

RE: Project: N1866A05/003 MAUTHE Pace Project No.: 402654

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on April 15, 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,

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

**REPORT OF LABORATORY ANALYSIS** 

Page 1 of 8





. . . . . . . . . . . . .

### CERTIFICATIONS

N1866A05/003 MAUTHE Project: Pace Project No.: 402654

**Green Bay Certification IDs** 

Florida (NELAP) Certification #: E87948 Illinois Certification #: 200050 California Certification #: 06246CA New York Certification #: 11888 North Dakota Certification #: R-150 North Carolina Certification #: 503 . . . . . . ....

Green Bay Volatiles Certification IDs Florida (NELAP) Certification #: E87951 California Certification #: 06247CA Illinois Certification #: 200051 New York Certification #: 11887 North Dakota Certification #: R-200 North Carolina Certification #: 503

Minnesota Certification #: 055-999-334 South Carolina Certification #: 405132750 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 Kentucky Certification #: 82 Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334 South Carolina Certification #: 83006001 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 Kentucky Certification #: 83 Louisiana Certification #: 04169

## **REPORT OF LABORATORY ANALYSIS**





# SAMPLE SUMMARY

Project: Pace Project No.	N1866A05/003 MAUTHE 402654				
Lab ID	Sample ID	Matrix	Date Collected	Date Received	
402654001	OUTFALL 001	Water	04/15/08 06:21	04/15/08 11:55	

# **REPORT OF LABORATORY ANALYSIS**





# SAMPLE ANALYTE COUNT

Project: N1866A05/003 MAUTHE Pace Project No.: 402654

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
402654001	OUTFALL 001	EPA 7196	DEY	1	PASI-G

# **REPORT OF LABORATORY ANALYSIS**





#### **PROJECT NARRATIVE**

Project: N1866A05/003 MAUTHE Pace Project No.: 402654

#### Method: EPA 7196

Description:7196 Chromium, HexavalentClient:OMNNI ASSOCIATES, INC.Date:April 15, 2008

#### **General Information:**

1 sample was analyzed for EPA 7196. All samples were received in acceptable condition with any exceptions noted below.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

#### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

#### **Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

#### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### QC Batch: WETA/1315

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 402654001

M0: Matrix spike recovery was outside laboratory control limits.

- MSD (Lab ID: 16573)
  - Chromium, Hexavalent

#### **Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

# **REPORT OF LABORATORY ANALYSIS**





,

٠

# ANALYTICAL RESULTS

Project: Pace Project No.:	N1866A05/00 402654	3 MAUTHE								
Sample: OUTFALL 001		Lab ID: 402654001		Collected: 04/15/08 06:21		Received: 04/15/08 11:55 Matrix: \		atrix: Water		
Parameters		Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7196 Chromium, H	exavalent	Analytica	I Method: EPA	7196						
Chromium, Hexavalent		0.36 mg/L		0.14	0.042	12.5		04/15/08 13:30	18540-29-9	MO

Date: 04/15/2008 04:30 PM

# **REPORT OF LABORATORY ANALYSIS**

.

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..

nebc

Page 6 of 8


## QUALITY CONTROL DATA

Project:	N1866A05/	003 MAUTI	ΗE										
Pace Project No.:	402654												
QC Batch:	WETA/13	15		Analy	Analysis Method:					<u> </u>			
QC Batch Method: EPA 7196		Analy	sis Descrip	otion: 7	7196 Chromium, Hexavalent								
Associated Lab Sa	mples: 402	654001											
METHOD BLANK:	16570								•				
Associated Lab Sa	mples: 402	654001											
				Blan	k R	Reporting							
Parar	neter		Units	Resu	lt	Limit	Qualifier	S					
Chromium, Hexava	lent	mg/l	_	<0	.0034	0.011	1						
LABORATORY CC	NTROL SAM	APLE: 165	71										
				Spike	LCS	5	LCS	% Red	:				
Parar	neter		Units	Conc.	Resi	ult	% Rec	Limits	Qı	ualifiers			
Chromium, Hexava	lent	mg/l	-	.3	3	0.32	108	90	-110		-		
MATRIX SPIKE & I			ATE: 16572			16573							
				MS	MSD								
			402654001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parame	er	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chromium, Hexava	lent	mg/L	0.36	3.8	3.8	4.5	<b>4</b> .6	110	112	90-110	2	20	MO

Date: 04/15/2008 04:30 PM

.

## **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..

nebc



41

.

## QUALIFIERS

Project: Pace Project No.:	N1866A05/003 MAUTHE 402654
DEFINITIONS	
DF - Dilution the sample al ND - Not Dete	Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of liquot, or moisture content. ected at or above adjusted reporting limit.
J - Estimated	concentration above the adjusted method detection limit and below the adjusted reporting limit.
S - Surrogate	
1,2-Diphenylh	nydrazine (8270 listed analyte) decomposes to Azobenzene.
Consistent wi	ith EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Lab	oratory Control Sample (Duplicate)
MS(D) - Matri	ix Spike (Duplicate)
DUP - Sample	e Duplicate
RPD - Relativ	ve Percent Difference
NC - Not Calo	culable.
Pace Analytic	cal is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.
LABORATORIES	
PASI-G F	Pace Analytical Services - Green Bay
ANALYTE QUALIF	IERS

M0 Matrix spike recovery was outside laboratory control limits.

Date: 04/15/2008 04:30 PM

## **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..

nelac

Sample Condition Upon Receipt											
Pace Analytical Client Name	DMNI	Assoc Project # 402654									
Courier:  Fed Ex UPS USPS Clier Tracking #:	t Commercial	Pace Other Obtom States At a second se									
Custody Seal on Cooler/Box Present: yes	no Seals	intact: ves no									
Packing Material: Bubble Wrap Bubble	Bags None	Other									
Thermometer Used	Type of Ice: We	Blue None El Samples on ice, cooling process has begun									
Cooler Temperature     ZOT       Temp should be above freezing to 6°C	Biological Tissue	is Frozen: Yes No Date and Initials of person examining contents: $4-15-08 \leq 9$									
Chain of Custody Present:	BYES DNO DNIA	1.									
Chain of Custody Filled Out:	Eres ONO ONVA	2.									
Chain of Custody Relinquished:		3.									
Sampler Name & Signature on COC:	BYes DNO DNA	4.									
Samples Arrived within Hold Time:	PYes ONO ONVA	5									
Short Hold Time Analysis (<72hr):		6. & Hex chrome									
Rush Turn Around Time Requested:	OYes ONO ON/A	7.									
Sufficient Volume:	QYes ONO ON/A	8.									
Correct Containers Used:		9.									
-Pace Containers Used:	Ves DNO DNA										
Containers Intact:		10.									
Fiftered volume received for Dissolved tests		11.									
Sample Labels match COC:	Pres DNO DN/A	12.									
-Includes date/time/ID/Analysis Matrix:	GW										
All containers needing preservation have been checked.	OYes ONO DIVA	13.									
All containers needing preservation are found to be in compliance with EPA recommendation.	DYes DNO DIVA										
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	□Yes □No	Initial when Lot # of added completed preservative									
Samples checked for dechlorination:	DYes DNO DNA	14.									
Headspace in VOA Vials ( >6mm):	DYes DNO DNA	15.									
Trip Blank Present:	DYes DNO DNA	16									
Trip Blank Custody Seals Present											
Pace Trip Blank Lot # (if purchased):											
Client Notification/ Resolution:		Field Data Required? Y / N									
Person Contacted:	Date/	Fime:									
Comments/ Resolution:											
	· · · · · · · · · · · · · · · · · · ·										
Project Manager Review:		Date: 4/15/01									

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)

(F	Please Prin	t Clearly)			UPPER MIDWEST REGION					GION	Page 1 of							
Company Name:	OMA	UNI ASSO	-	5			<b>A</b>	L dia				<b>MN</b> : 6'	12-607-17	700	WI: 920-469-2436		ſ	121272
Branch/Location:	4	PPLRTON	<u>د</u>			Pace	Ana	llytiC								COC No.	(	
Project Contact:	BRID	~ WAYN	NRR	$\Box$ (			nwn.p	BUC182/3.1	<i></i>				^	1	Quote #:	MA	JTHR	
Phone:	920	1830 - 614	1		C	CHA	<b>NIN</b>	OF	- Cl	USI	ГО	DY	AHD		Mall To Contact:	BRIA	n Wayn	x L
Project Number:	N18	46 A05/00	3	A=N	lone B=I	HCL C=	H2SO4	Preserv D=HNO	ation Code 3 E=DIV	<u>es</u> Nater Fi	=Methan	ol G=Na	∎ОН		Mail To Company:	ひろで	I ASSOC	ATES
Project Name:	Me	UTHE		H=S	odium Bisu	lfate Solut	ion	I=Sodiu	n Thiosulfa	ate J≖	Other				Mail To Address:	0،نابت ٩	Systicas	DRIVE
Project State:		بنا		FILT (YE	ERED? S/NO)	Y/N	N		·							APPLL	TON WI	54914
Sampled By (Print	): Beu	an WAYNA	ĩR	PRESE (CC	RVATION	Pick Letter	A								Invoice To Contact:	BRIN	an Way	NKR
Sampled By (Sign	): B.	. d. Warpe	4			2									Involce To Company:	()r	くろして	
PO #:			Regulat Progra	огу m:		ested	5								Invoice To Address:	4	ANG	
Data Package C	Options	MS/MSD	A = Air	Matrix Code	S	equ	3 3											
EPA Lev		On your sample (billable)	B = Biota C = Charcos O = Oil	DW ≈ Drini al GW = Grou SW = Surfa	king Water and Water ace Water	vses	505								Invoice To Phone:		7	
		your sample	S = Soil SI = Sludge	WW = Was WP = Wipe COLLECTION	te Water	Anal	EF.									LAB CO		Profile #
	CLIENT		DA Lil	TE TIME	MATRIA			<u> </u>							COMMENTS		se Uniy)	
	OUTF	ALL OOL		<u>۲۲ فن ۲۵ مات</u>	GW	<u>.</u>					<u></u> ,	 				1-201	NK PT	
		·					4		-			ļ						
· · · · · · · · · · · · · · · · · · ·						-							<u>}</u> }				······	
									<u> </u>								·····	
								+										
	<u> </u>							+	<u> </u>		•			<u> </u>				
<u> </u>									<u> </u>									······································
							<u> </u>	+				<u> </u>						
		<u>_</u>					<del> </del>	<b></b>			<u></u>		┟╼╌╴┟╴					
						<del></del>	<u> </u>		+	╞──┤		<b> </b>	┟╾╺╴┠╸					
		<u></u> żż																······································
								+								·		
Rush Turnar	ound Time R	equested - Prel	lims	Relinguished By			1		ate/Time:			Received		<u></u>		L	PACE P	roject No.
(Rush TAT	subject to ap	proval/surcharg	ge)	Bink	O Way	her		4/15	103			131	Kemf	ser	2 115/68	5930	412	1.54
Da Transmit Prelim R	ush Results by (	complete what you	i want):	Relinquished By	Ser	aer	i4	115/2	ate/Time:	155		Received		ŀ	> Pace 4-15-02	8 1155	102	
Email #1:				Relinquished By	17	/	/		ate/Time:	- <del></del>		Received	d BY		Date/Time:		ecelpt Temp =	KOL °C
Email #2: Telephone:				Relinguished By					ate/Time			Receiver	d By:		Date/Time		Sample I OK / A	keceipt pM Adjusted
Fax:								0					j.		eutor mile.	F	Cooler Cu	ustody Seal
Sampi special p	es on HOLD are s	ubject to e of liability		Relinquished By	:			D	ate/Time:			Received	d By:		Date/Time:		Present⊄ Intact /	Not Present Not Intact



Page 1 of 1

Invoice Number: 084001588 Date: 04/23/2008

# **Please Remit To:**

Pace Analytical Services, Inc. P.O. Box 684056 Milwaukee, WI 53268-4056

Omnni Associates, Inc.
Omnni Associates, Inc.
One Systems Drive
Appleton, WI 54914-1654
(920) 830-6141

Sold To:

Pace Analytical

www.pacelabs.com

Clien	t Number/Client ID	Purchase Order No	Pace Project Mg	ır Terms	Page
40-0005	578 / OMNNI ASSOC.		Steven Mleczko	Net 30 Days	1
Client P Pace Proie	Project: N1866A05/003 MAUT	HE	Client Name: OMNN Sample Received: 4/22/2	I ASSOCIATES, INC. 008	
Report Se Com	e <b>nt To:</b> Brian Wayner, Omnni <i>i</i> ments:	Associates, Inc.	-		
		ANALYTICAL C	HARGES	· · · · · · · · · · · · · · · · · · ·	<u> </u>
Quantity Unit	Description	Method	Matrix	Price	- Total
] Ea	7196 Chromium, Hexavalent	EPA 7196	Water	\$30.00	\$30.00
				Analytical Subtotal	\$30.00
		Total Number of Charge	s 1	Total Invoice Amount	\$30.00

If you have any questions regarding this invoice, please contact Steven Mleczko at Pace. Phone: (920)469-2436 Email: steve.mleczko@pacelabs.com

1.5% MONTHLY FINANCE CHARGE ASSESSED AFTER 30 DAYS. PLEASE REFERENCE THE INVOICE NUMBER ON ALL REMITTANCE ADVICE. AN EQUAL OPPORTUNITY EMPLOYER Please complete and return copy of invoice with your payment. INVOICE \$30.00 Method of Payment: Check / VISA / MasterCard / American Express Phone #: Fax #: TOTAL (circle one) Credit Card Holder: (print) Email Address: \_\_\_\_\_ Amount Paid: \$ Exp Date: \_\_\_\_\_ Zip Code: \_\_\_\_\_ Check No: Credit Card Account No:\_\_\_\_ Signature: Customer Name: Omnni Associates, Inc. Customer No: 40-000578 Invoice No: 084001588



Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, WI 54302 (920)469-2436

April 23, 2008

Brian Wayner Omnni Associates, Inc. One Systems Drive Appleton, WI 549141654

RE: Project: N1866A05/003 MAUTHE Pace Project No.: 402943

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on April 22, 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,

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

**REPORT OF LABORATORY ANALYSIS** 

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



Page 1 of 8

ace Analytical "

## CERTIFICATIONS

Project:	N1866A05/003 MAUTHE
Pace Project No.:	402943

Green Bay Certification IDs Florida (NELAP) Certification #: E87948 Illinois Certification #: 200050 California Certification #: 06246CA New York Certification #: 11888 North Dakota Certification #: R-150 North Carolina Certification #: 503	Minnesota Certification #: 055-999-334 South Carolina Certification #: 83006001 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 Kentucky Certification #: 82 Louisiana Certification #: 04168
Green Bay Volatiles Certification IDs Florida (NELAP) Certification #: E87951 California Certification #: 06247CA Illinois Certification #: 200051 New York Certification #: 11887 North Dakota Certification #: R-200 North Carolina Certification #: 503	Minnesota Certification #: 055-999-334 South Carolina Certification #: 83006001 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 Kentucky Certification #: 83 Louisiana Certification #: 04169

# **REPORT OF LABORATORY ANALYSIS**

÷





.

.

.

# SAMPLE SUMMARY

Project: Pace Project No.	N1866A05/003 MAUTHE 402943			
Lab ID	Sample ID	Matrix	Date Collected	Date Received
402943001	OUTFALL 001	Water	04/22/08 07:05	04/22/08 15:45

## **REPORT OF LABORATORY ANALYSIS**





# SAMPLE ANALYTE COUNT

Project:N1866A05/003 MAUTHEPace Project No.:402943

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
402943001	OUTFALL 001	EPA 7196	DEY	1	PASI-G

# **REPORT OF LABORATORY ANALYSIS**



ace Analvtical abs.cor

## **PROJECT NARRATIVE**

Project: N1866A05/003 MAUTHE

Pace Project No.: 402943

Method:EPA 7196Description:7196 Chromium, HexavalentClient:OMNNI ASSOCIATES, INC.Date:April 23, 2008

#### **General Information:**

1 sample was analyzed for EPA 7196. All samples were received in acceptable condition with any exceptions noted below.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

#### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

#### **Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

#### Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

#### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### **Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

#### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

# **REPORT OF LABORATORY ANALYSIS**





## ANALYTICAL RESULTS

Project: N1866A05/003 MAUTHE Pace Project No.: 402943

Sample: OUTFALL 001	Lab ID:	402943001	Collecte	d: 04/22/08	<b>3 07</b> :05	Received: 04	/22/08 15:45	Matrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7196 Chromium, Hexavalent	Analytica	I Method: EPA	7196						
Chromium, Hexavalent	0.87	ng/L	0.057	0.017	5		04/22/08 16:0	0 18540-29-9	

Date: 04/23/2008 10:26 AM

# **REPORT OF LABORATORY ANALYSIS**

.

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..

nelàc



..

# QUALITY CONTROL DATA

Project:	N1866A05/0	D3 MAUTI	HE										
Pace Project No.:	402943												
QC Batch:	WETA/135	3		Analy	Analysis Method:								
QC Batch Method: EPA 7196		Analy	sis Descrip	otion: 7	7196 Chromi	um, Hexav	alent						
Associated Lab Sar	nples: 4029	43001											
METHOD BLANK:	19390			······									
Associated Lab Sar	nples: 4029	43001											
				Blan	k R	leporting							
Paran	neter		Units	Resu	ilt	Limit	Qualifie	rs					
Chromium, Hexava	lent	mg/l	L	<0	.0034	0.01	1						
LABORATORY CO	NTROL SAMI	PLE: 193	91										
Docom	otor		Linito	Spike	LCS	5		% Rec	;	unifiere			
			Units			<u> </u>	70 Rec			Jaimers	-		
Chromium, Hexava	lent	mg/l	-	.3	3	0.29	96	90	-110				
							÷.						
MATRIX SPIKE & N	ATRIX SPIKI		ATE: 19392			19393							
				MS	MSD								
			402943001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramet	er	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chromium, Hexaval	ent	mg/L	0.87	1.5	1.5	2.4	2.4	102	103	90-110	1	20	

Date: 04/23/2008 10:26 AM

## **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..

nebic



## QUALIFIERS

Project: N1866A05/003 MAUTHE

Pace Project No.: 402943

### 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.

#### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Date: 04/23/2008 10:26 AM

## **REPORT OF LABORATORY ANALYSIS**



Sar	nple	Con	ditio	n Upon Receipt		
Pace Analytical Client Name:		)M	ΛĪ	Assoc	Project #	402943
Courier: Fed Ex UPS USPS Clien	t 🔲	Comm	ercial	Pace Öther		
Custody Seal on Cooler/Box Present: 🗌 yes	9	no	Seals	s intact: 🗌 yes [		
Packing Material: Bubble Wrap Bubble	Bags	4	ione	Other		
Thermometer Used	Туре	of Ice	: Ve	D Blue None	Samples on ice, co	oling process has begun
Cooler Temperature Pol- Temp should be above freezing to 6°C	Biolo	gical	Tissue	is Frozen: Yes No Comments:	Date and Initia contents:	1s of person examining
Chain of Custody Present:	Bres	0No		1.		
Chain of Custody Filled Out:	Dres	0N0		2.		
Chain of Custody Relinquished:	Tres		<b>ON</b> /A	3.		
Sampler Name & Signature on COC:	ØYes			4		
Samples Arrived within Hold Time:	Pres			5.		
Short Hold Time Analysis (<72hr):	<b>Ø</b> Yes			6. Hex Chr	ome	
Rush Turn Around Time Requested:	□Yes	12No		7.		
Sufficient Volume:	Pres			8.		
Correct Containers Used:	Pres	<b>□</b> N₀		9.		
-Pace Containers Used:	<b>E</b> Yes	<b>⊡</b> N₀				
Containers Intact:	<b>E</b> Yes			10.		
Filtered volume received for Dissolved tests	□Yes			11.		
Sample Labels match COC:	Pres	[]No	0N/A	12.		
-Includes date/time/ID/Analysis Matrix: All containers needing preservation have been checked.	<u>GU</u> DYes	) []N0		13.		
All containers needing preservation are found to be in compliance with EPA recommendation.	[]Yes	000				
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	()Yes			Initial when completed	Lot # of added preservative	
Samples checked for dechlorination:	Oyes			14		
Headspace in VOA Vials ( >6mm):	OYes			15.		
Trip Blank Present:	□Yes	(ANo		16.	•	
Trip Blank Custody Seals Present	□Yes	0N0				
Pace Trip Blank Lot # (if purchased):						]
Client Notification/ Resolution:					Field Data Required	? Y / N
Person Contacted:			Date/	Fime:	•	
Comments/ Resolution:						
	<u> </u>		· - · · ·			
					<u></u>	
						·
Project Manager Review:					_ Date:	123/08

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)

	(Please Print Clearly)		~							UPPER		<u>EST RE</u>	GION		Page 1	of I
Company Name:	OMNNI ASSOCIA	TES .	$\mathcal{P}$				. @			<b>MN</b> : 6'	12-607-	1700	WI: 920-469-2436		C	21071
Branch/Location	" APPLATON			ace	Ana	<i>lytic</i>						_		COC No.	ل	13121:
Project Contact:	BRIAN WAYNE	R				NC 100 0.1	~~~~						Quote #:	N	LAUTHE	·
Phone:	920/830-6141		C	<u>; H</u>	<u>NIN</u>	OF	<u>= Cl</u>	<u>US</u> .	TO	<u>DY</u>			Mail To Contact:	BRIF	in WA-	(NRR
Project Number:	N1866A05/063	A=N	one B=H	HCL C=	H2SO4	D=HNO	ation Code B E=DI V	e <u>s</u> Vater F	=Methan	ol G=Na	∎ОН		Mail To Company:	Omi	1 Assice	ATTES
Project Name:	MAUTHE	H=S	odium Bisul	fate Soluti	on	I=Sodiur	n Thiosulfi	ate J=	=Other	-			Mail To Address:	OWRS	SYSTR~	s prive
Project State:	1	FILTE (YES	RED? S/NO)	Y/N	N									APPLAT	ies, wo	54914
Sampled By (Pri	nt): R-RIAN WAYNE	PRESEF CO) کر	RVATION	Pick Letter	A								Invoice To Contact:	BRIA	ACU L	YNAR_
Sampled By (Sig	In): Bi J. Waper												Invoice To Company:		いうって	L
PO #:	Re	igulatory rogram:		uestec	133								Invoice To Address:		ang	
Data Package (billable	Options <u>MS/MSD</u>	Matrix Code: Air W = Water	S	Req	1 7									5		
	evel III (billable) C = 0	Biota DW = Drink Charcoal GW = Grou- Oil SW = Surfa	ing Water nd Water ce Water	yses	14 9								Invoice To Phone:		C	
	evel IVNOT needed on your samples =	Soil WW = Wast Sludge WP = Wipe	te Water	Anal	μŶ.								CLIENT	LAB CON	MENTS	Profile #
PACE LAB #	CLIENT FIELD ID	DATE TIME	MATRIX		1.0								COMMENTS	(Lab Us	e Only)	L
$\mathcal{D}$	OUTFALL DOL	4/22/08 7:05	GW		X		ļ						······································	1-2501	<u>nlpA</u>	
			 						ļ							
	·····			4.11.14	L											
				î												
				t sin e												
				'n												
				υ												
					]											
Rush Turna (Rush TA)	around Time Requested - Prelims	Relinquished By:	01.1			4/.	ate/Time:			Received	I BY	110	Ale Hands	9155	PACE Pr	oject No.
	Date Needed:	Religguished By:	1	n		 	ate/Time:			Received	Byn		Date/Time:		4029	43
Transmit Prelim	Rush Results by (complete what you wan	1): De M	hel	Ke_	_4/-	22/0	8	15.	43			l <	2 Face 4224	8 545 Re	ceipt Temp =	Opt °C
Email #1:		Relinquished By:			•		ate/1(me:			Receiver	- HARRING CONTRACT		Date/Time:	-	Sample R	eceipt pH
Telephone:	······································	Relinquished By:				Di	ate/Time:		·	Received	i By:		Date/Time:		OK / Ad	ljusted
Fax:		Polinguishort Du					nto/Time:		· · · · · ·	Reacher			Delo <i>Tica</i>		Cooler Cu	stody Seal
sam specia	I pricing and release of liability	Reinquisned By					ale/ I me:			Received	, oy:				Intact / N	lot Intact



Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, WI 54302 (920)469-2436

May 01, 2008

Brian Wayner Omnni Associates, Inc. One Systems Drive Appleton, WI 549141654

RE: Project: N1866A05/003 MAUTHE Pace Project No.: 403190

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on April 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,

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

**REPORT OF LABORATORY ANALYSIS** 

Page 1 of 8





# CERTIFICATIONS

Project: N1866A05/003 MAUTHE

Pace Project No.: 403190

Green Bay Certification IDs	
Florida (NELAP) Certification #: E87948	Minnesota Certification #: 055-999-334
Illinois Certification #: 200050	South Carolina Certification #: 83006001
California Certification #: 06246CA	Wisconsin Certification #: 405132750
New York Certification #: 11888	Wisconsin DATCP Certification #: 105-444
North Dakota Certification #: R-150	Kentucky Certification #: 82
North Carolina Certification #: 503	Louisiana Certification #: 04168
Green Bay Volatiles Certification IDs Florida (NELAP) Certification #: E87951 California Certification #: 06247CA Illinois Certification #: 200051 New York Certification #: 11887 North Dakota Certification #: R-200 North Carolina Certification #: 503	Minnesota Certification #: 055-999-334 South Carolina Certification #: 83006001 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 Kentucky Certification #: 83 Louisiana Certification #: 04169

# **REPORT OF LABORATORY ANALYSIS**





.

,

# SAMPLE SUMMARY

Project: Pace Project No.	N1866A05/003 MAUTHE : 403190				
Lab ID	Sample ID	Matrix	Date Collected	Date Received	 
403190001	OUTFALL 001	Water	04/29/08 06:58	04/29/08 14:50	

# **REPORT OF LABORATORY ANALYSIS**





.

.

## SAMPLE ANALYTE COUNT

Project:	N1866A05/003 MAUTHE				
Pace Project No.:	403190				
Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
403190001 , , C	DUTFALL 001	EPA 7196	DEY	1	PASI-G

# **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



ς.



### **PROJECT NARRATIVE**

### Project: N1866A05/003 MAUTHE

Pace Project No.: 403190

#### Method: EPA 7196

Description:7196 Chromium, HexavalentClient:OMNNI ASSOCIATES, INC.Date:May 01, 2008

#### **General Information:**

1 sample was analyzed for EPA 7196. All samples were received in acceptable condition with any exceptions noted below.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

#### **Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

#### Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### QC Batch: WETA/1408

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 403171001

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 21930)
- Chromium, Hexavalent
- MSD (Lab ID: 21931)
  - · Chromium, Hexavalent

### **Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

#### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

# **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



Page 5 of 8



.

# ANALYTICAL RESULTS

Project: Pace Project No.:	N1866A05/00 403190	3 MAUTHE								
Sample: OUTFALL	001	Lab ID:	403190001	Collecte	d: 04/29/0	8 06:58	Received: 04	/29/08 14:50	Matrix: Water	
Paramete	ers	Results	Units		LOD	DF	Prepared	Analyzed	CAS No.	Qual
7196 Chromium, He	xavalent	Analytica	I Method: EPA	7196						
Chromium, Hexavale	nt	0.51 r	ng/L	0.057	0.017	5		04/29/08 16:4	10 18540-29-9	

Date: 05/01/2008 03:13 PM

## **REPORT OF LABORATORY ANALYSIS**

Page 6 of 8





# QUALITY CONTROL DATA

Project:	N1866A05/0	03 MAUTH	E										
Pace Project No.:	403190						÷						
QC Batch:	WETA/140	8	······	Analy	sis Method	l :t	EPA 7196						
QC Batch Method:	EPA 7196			Analy	sis Descrip	ption:	7196 Chromi	um, Hexav	alent				
Associated Lab Sam	iples: 4031	90001											
METHOD BLANK:	21928												
Associated Lab Sam	ples: 4031	90001											
				Blan	k R	Reporting							
Param	eter		Units	Resu	lt	Limit	Qualifier	S		,			
Chromium, Hexaval	ent	mg/L		<0	.0034	0.01	1		·				
LABORATORY COM		PLE: 2192	9		<u> </u>								
				Spike	LCS	s	LCS	% Red	•				
Param	eter		Units	Conc.	Resu	ult	% Rec	Limits	Q	ualifiers			
Chromium, Hexavale	ent	mg/L			3	0.29	98	90	-110		-		
MATRIX SPIKE & M			TE: 21930			21931	····						
				MS	MSD								
		4	03171001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramete	er	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chromium, Hexavale	ent	mg/L	ND	.3	.3	0.22	0.24	74	81	90-110	8	20	MO

Date: 05/01/2008 03:13 PM

# **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..

nebic



## QUALIFIERS

Project: N1866A05/003 MAUTHE
------------------------------

Pace Project No.: 403190

### 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.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

### ANALYTE QUALIFIERS

M0 Matrix spike recovery was outside laboratory control limits.

Date: 05/01/2008 03:13 PM

# **REPORT OF LABORATORY ANALYSIS**



	S	ample Condi	itior	Upon Receipt		
Pace Analytical	Client Nam	e: <u>Omiv/</u>			Project #	403190
Courier: 🗍 Fed Ex 🗍 UPS Tracking #:		ient Comme	rcial	Pace Öther		
Custody Seal on Cooler/Box	: Present: 🗌 ye	s prino :	Seals	intact: 🗌 yes [		
Packing Material: 🔲 Bubble	e Wrap 🔲 Bubb	le Bags No	one	Other		
Thermometer Used	NA	Type of Ice: (	Wei	Blue None	Samples on ice, c	poling process has begun
Cooler Temperature Temp should be above freezing to	<u>ROI</u>	Biological Ti	ssue	is Frozen: Yes No Comments:	contents:	
Chain of Custody Present:	······	BYes DNo		1	· · · · · · · · · · · · · · · · · · ·	
Chain of Custody Filled Out:		DYes DNO		2		
Chain of Custody Relinquished	<u>d:</u>	Bres DNO		3.		
Sampler Name & Signature on	COC:	Tres ONO		4	<u></u>	
Samples Arrived within Hold T	ime:	Pres DNo		5		
Short Hold Time Analysis (<	72hr):	TYes DNo		6. 24-hr. He	ex	
Rush Turn Around Time Req	uested:	UYes ENO 1		7		
Sufficient Volume:		PYes DNo 1		8		
Correct Containers Used:		Dres DNO 1		9.		
-Pace Containers Used:		TYes DNO 1				
Containers Intact:		Dyes DNO 1		10.		
Filtered volume received for Di	ssolved tests	Ores ONO		11		
Sample Labels match COC:		ElYes DNo (		12.		
-Includes date/time/ID/Analy	ysis Matrix:	W		·	···	
Al containers needing preservation sompliance with EPA recommenda	n are found to be in lition.	OYes ONO	INVA INVA	13.		
xceptions: VOA, coliform, TOC, O&G,	WI-ORO (water)	OYes ONo		Initial when completed	Lot # of added preservative	
amples checked for dechloring	ation:	OYes ONO	ANA	14		
leadspace in VOA Vials ( >6m	m):	OYes ONo &	<b>JNVA</b>	15		
rip Blank Present:		Ores Dro C	INVA	16.		
rip Blank Custody Seals Prese	ent	Ores ONO C	JNVA			
ace Trip Blank Lot # (if purcha	ised):					
Ilent Notification/ Resolution	<del>n</del>				Field Data Require	1? Y / N
Person Contacted:		0	)ate/T	ïme:		
Comments/ Resolution:						
	· · · · · · · · · · · · · · · · · ·					<u> </u>
	<i>-</i>				í	1/200
Project Manager Review:	1dm				Date:	1/29/08

•

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

.

	(Please	Print Clearly)										UPPER	MIDWE	<u>EST RE</u>	GION		Page	1 of	١
Company Name:	70	MNINI ASS	OC I ATTE	s				• ••	. 6			<b>MN:</b> 61	2-607-1	700	<b>WI</b> : 920-469-2436			021	271
Branch/Location	1:	APPLETO	2			ace	Ana	Iytic			r.			_		COC No.		0.01	
Project Contact:	F	BRIAN WA	YNER		/		www.pe	1001003.0	Um		a				Quote #:	N	AUTH	<u> </u>	
Phone:	C	120/830-61	41 41		C	HA:	١N	OF	Cl	JS	ΓΟ	DY		K.	Mall To Contact:	BRI	AN WA	AYNE	R
Project Number:		V1866A05	1003	A=	None B=ł	ICL C=	H2SO4	Preserva D=HNO3	tlon Code E≃DI W	n <u>s</u> Vater F	=Methan	ol G≃Na	он		Mail To Company:	01~~	in Ass	ioc.am	rs
Project Name:		MAUTHE		H=	Sodium Bisul	fate Soluti	ion	I=Sodium	1 Thiosulfa	te J=	Other				Mail To Address:	してん	SYSTE	ms Di	RIVE
Project State:		<u>(تم)</u>		FIL'	TERED? ES/NO)	Y/N	N									APPLE	TON L	JI 54	1914
Sampled By (Prir	nt): \	RELAN INF	AVNER	PRESI	ERVATION	Pick Letter	A								Invoice To Contact:	RRI	AN W	AYNE	R
Sampled By (Sig	in):	ni D. Way	nu			<u> </u>									Invoice To Company:		OMNA	<u>،</u> اد	
PO #:			Regulat	tory im:		ested	5,								Invoice To Address:				
Data Package	Options	MS/MSD		Matrix Cod	es	n ba	100			-						-	SAME		
(billable)	) evel III	On your samp! (billable)	e A ≃ Air B ≃ Blota C ≃ Charco	W = Wate DW = Driv oal GW = Gro	ar nking Water ound Water	ses R	NA N								Invoice To Phone:		(		
🔲 EPA Le	evel IV	NOT needed o your sample	O≃Oil S≈Soil SI≖Sludge	SW ≠ Sur WW ≠ Wa WP = Wip	face Water aste Water be	Analy	EXP HR								CLIENT	LAB CO	MMENT	S Pi	rofile #
PACE LAB #	CLIE	NT FIELD ID		COLLECTION	MATRIX	] _	ヨリ								COMMENTS	(Lab U	se Only)		
ÔON	OU	TFALL OOI	4/20	108 6:58	3 GW		X									1-250 m.	-		
		<u></u>																	
						40												. <u> </u>	
															······································				
		<u></u>					ļ				····								
							1												
							<u> </u>	<u> </u>											
	······						<b>.</b>										····		
							<u> </u>	ļ		-							·		
							ļ	ļ											
Duch T		Description D					<u> </u>								·····	1	/		
(Rush Tuma	T subject t	to approval/surcha	arge)	Relinquished B	2 Ou	an	u	4/2	te/Time:	7:3	0	Received	BY.	mt	4 Patertime:	z 091	$j = i - \infty$		0.
	Date Need	ed:		Relinquished B	W. Contraction	ha		4/29	tertime:	14	60	Received	BY	J	Datefime:	1450	<u>40</u>	140	
Email #1:	Rush Result	s by (complete what y	ou want):	Relinquished B	y em	Tres	$\checkmark$	- pa	te/Time:		10	Received	By:	?			Receipt Temp	= f01	°C
Email #2: Telephone:				Relinquished B	/	/			tofficer			Boosting	But		Deterrition in		Samp	le Recelpt	рН
Fax:				Perindrisueo E	·y.			Ua	.e/ i me:			Received	ву:		Date/Time:		Cooler	Custody	- Seal
Sam	ples on HOLD	D are subject to release of liability		Relinquished B	ly:			Da	te/Time:			Received	By:		Date/Time:		Present	: / Not Pre	esent act
5,50101				L								L				E	intac		



Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, W 54302 (920)469-2436

May 29, 2008

Brian Wayner Omnni Associates, Inc. One Systems Drive Appleton, WI 549141654

RECEIVED JUN 6 3 2008 OMNNI ASSOCIATES

# RE: Project: N1866A05/003 MAUTHE Pace Project No.: 403455

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on May 06, 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,

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

**REPORT OF LABORATORY ANALYSIS** 

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



Page 1 of 10



Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, VM 54302 (920)469-2436

.

# CERTIFICATIONS

# Project: N1866A05/003 MAUTHE

Pace Project No.: 403455

Green Bay Certification IDs		
Florida (NELAP) Certification #: E87948	Minnesota Certification #: 055-999-334	
Illinois Certification #: 200050	South Carolina Certification #: 83006001	
California Certification #: 06246CA	Wisconsin Certification #: 405132750	
New York Certification #: 11888	Wisconsin DATCP Certification #: 105-444	
North Dakota Certification #: R-150	Kentucky Certification #: 82	
North Carolina Certification #: 503	Louisiana Certification #: 04168	
андарында алды. «Дайын арада даларын тиги шайт майдиний алдайын килин бар миралалдан тайын тайтастан түрөөт тайт Элдөөрүндө алдыг адайын түрөөрүндө алдыг майдиний алдайын килин бар миралалдан тайтасар алдыг бартастан түрөөрү		
Green Bay Volatiles Certification IDs		
Florida (NELAP) Certification #: E87951	Minnesota Certification #: 055-999-334	
California Certification #: 06247CA	South Carolina Certification #: 83006001	
Illinois Certification #: 200051	Wisconsin Certification #: 405132750	
New York Certification #: 11887	Wisconsin DATCP Certification #: 105-444	
North Dakota Certification #: R-200	Kentucky Certification #: 83	
North Carolina Certification #: 503	Louisiana Certification #: 04169	

## **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



Page 2 of 10



## SAMPLE SUMMARY

Project: Pace Project N	N1866A05/003 MAUTHE o.: 403455				
Lab ID	Sample ID	Matrix	Date Collected	Date Received	······································
403455001	OUTFALL 001	Water	05/06/08 06:31	05/06/08 12:20	

# **REPORT OF LABORATORY ANALYSIS**





Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, WI 54302 (920)469-2436

.

# SAMPLE ANALYTE COUNT

Project:	N1866A05/003 MAUTHE
Pace Project No.:	403455

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
403455001	OUTFALL 001	EPA 6020	MES	1	PASI-G
		EPA 7196	DEY	1	PASI-G

## **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..

.





### **PROJECT NARRATIVE**

# Project: N1866A05/003 MAUTHE

Pace Project No.: 403455

Method:EPA 6020Description:6020 MET ICPMS, DissolvedClient:OMNNI ASSOCIATES, INC.Date:May 29, 2008

#### **General Information:**

1 sample was analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3020 with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

#### **Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

#### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

#### Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

#### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### **Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

#### Additional Comments:

**REPORT OF LABORATORY ANALYSIS** 





### **PROJECT NARRATIVE**

Project: N1866A05/003 MAUTHE

Pace Project No.: 403455

Method:EPA 7196Description:7196 Chromium, HexavalentClient:OMNNI ASSOCIATES, INC.Date:May 29, 2008

#### **General Information:**

1 sample was analyzed for EPA 7196. All samples were received in acceptable condition with any exceptions noted below.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### **Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

#### Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

#### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

#### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.







Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, WI 54302 (920)469-2436

## ANALYTICAL RESULTS

Project: N1866A05/003 MAUTHE Pace Project No.: 403455 Sample: OUTFALL 001 Lab ID: 403455001 Collected: 05/06/08 06:31 Received: 05/06/08 12:20 Matrix: Water Parameters Results Units LOQ LOD DF Prepared Analyzed CAS No. Qual 6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3020 Chromium 679 ug/L 1.0 0.43 05/21/08 08:05 05/23/08 23:27 7440-47-3 1 7196 Chromium, Hexavalent Analytical Method: EPA 7196 0.95 mg/L 0.057 05/06/08 14:30 18540-29-9 Chromium, Hexavalent 0.017 5

Date: 05/29/2008 04:30 PM

# **REPORT OF LABORATORY ANALYSIS**

Page 7 of 10

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..

nebc



.

.

# QUALITY CONTROL DATA

Project:	N1866A	05/003 MAUT	HE										
Pace Project No.:	403455												
QC Batch:	WETA	/1459		Analy	sis Method	1:	EPA 7196			<u> </u>			
QC Batch Method: EPA 7196		Analy	Analysis Description:		7196 Chromiu	alent							
Associated Lab Sar	nples:	403455001											
METHOD BLANK:	24744												
Associated Lab Sar	nples:	403455001											
Paran	neter		Units	Blan Resu	k R Jit	leporting Limit	Qualifier	s					
Chromium, Hexava	lent	mg/	L ·	<0	.0034	0.01	1						
					<u>-</u>					·····			
LABORATORY CO	NIROL	SAMPLE: 247	40	Spiko		-	108	% Por					
Paran	neter		Units	Conc.	i Resi	ult	% Rec	Limits	, Qi	ualifiers			
Chromium, Hexava	lent	mg/		<u>*</u>	3	0.32	108	90	-110		-		
				•	· ·								
MATRIX SPIKE & N	ATRIX S		CATE: 24746			24747							
			403455001	MS Snike	MSD Snike	MS	MSD	MS	MSD	% Rec		Max	
Paramet	er	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chromium, Hexaval	lent	mg/L	0.95	1.5	1.5	2.6	2.5	107	105	90-110	1	20	

Date: 05/29/2008 04:30 PM

# **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..

nebč



# QUALITY CONTROL DATA

Project:	N1866A05/00	3 MAUTI	HE										
Pace Project No.:	403455												
QC Batch:	MPRP/1344			Analys	is Method	l: E	PA 6020						
QC Batch Method:	EPA 3020			Analys	is Descrip	otion: 6	020 MET Di	ssolved					
Associated Lab Sai	mples: 40345	55001											
METHOD BLANK:	30934			· · · · · · · · · · · · · · · · · · ·			····-						
Associated Lab Sai	mples: 40345	5001											
				Blank	R	Reporting							
Paran	neter		Units	Resul	t	Limit	Qualifier	s					
Chromium		ug/L		<	:0.43	1.(	)						
LABORATORY CO	NTROL SAMP	LE: 309	35		<u> </u>								· <u></u>
				Spike	LCS	6	LCS	% Red	•				
Paran	neter		Units	Conc.	Resu	ult	% Rec	Limits	Q	ualifiers			
Chromium		ug/L		200		166	83	75	-125		-		
MATRIX SPIKE & M	MATRIX SPIKE	DUPLIC	ATE: 30936			30937						<u> </u>	· •
				MS	MSD								
			403455001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramet	er	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chromium		Jg/L	679	200	200	795	853	58	87	75-125	7	20	

Date: 05/29/2008 04:30 PM

.

# **REPORT OF LABORATORY ANALYSIS**

ł

.





## QUALIFIERS

Project: N1866A05/003 MAUTHE Pace Project No.: 403455

### 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.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Date: 05/29/2008 04:30 PM

## **REPORT OF LABORATORY ANALYSIS**

Page 10 of 10



$\sim$	Sar	nple C	ond	lítior	1 Upon Rece	pt	
Pace Analytical	Client Nome	. An	1	/	leas	Droiget #	1024/55
1	Client Maine	. <u>Unn</u>	NNI			$_{-}$ Project #	00700
Courier: D Fed Ex D UPS	S USPS Clier	at 🗌 Co	omme	ercial 	Pace Öther		
Custody Seal on Cooler/Box	Present: Vyes	[] n(	D	Seals	; intact: 🗡 yes	on 🗌	
Packing Material: Bubble	Wrap Bubble	Bags 1		one	Other		
Thermometer Used	Vr	Type of	f Ice:	Wet	) Blue None	Samples on ice, coo	ling process has begun
Cooler Temperature Temp should be above freezing to	RO1	Biologi	ical T	ïssue	is Frozen: Yes Comments:	No Date and Initial contents:	s of person examining 5/6/68
Chain of Custody Present:		TYes [			1.	11-	
Chain of Custody Filled Out:		VYes (			2.		
Chain of Custody Relinquished	1:	Dires (			3.		
Sampler Name & Signature on	COC:	TYes (			4.		
Samples Arrived within Hold Ti	me: -	-Tres (	]N₀		5.	4	
Short Hold Time Analysis (<7	(2hr):	Øres (	]No		6. HEX 2	thm	
Rush Turn Around Time Req	uested:	□Yes (	The		7.		
Sufficient Volume:		Yes [	]No		8.		
Correct Containers Used		Ves C	]No		9.		
-Pace Containers Used:		Ares C	JNO				
Containers Intact:		VYes (	]No		10.		
ittered volume received for Dis	ssolved tests	OYes (	Эмо		11.		
ample Labels match COC:		Yes C	]N0		12.		
-Includes date/time/ID/Analy	vsis Matrix:	W					
I containers needing preservation h	ave been chocked.	Øyes (	]No		13.		
I containers needing preservation impliance with EPA recommendation	are found to be in tion.	Øres C	JNO	Onva			
ceptions: VOA, coliform, TOC, O&G,	WI-ORO (waler)	Ores C	]No		Initial when completed	Lot # of added preservative	
amples checked for dechloring	ation:	OYes C	]No ]		14.		
adspace in VOA Vials ( >6mi	n):	OYes C	]No/		15.	<u></u>	
ip Blank Present:	***	OYes C	No 1		16.		
p Blank Custody Seals Prese	nt	OYes D	)No (				
ce Trip Blank Lot # (if purcha	sed):						
ient Notification/ Resolution	:					Field Data Required?	Y / N
Person Contacted:			(	Date/T	ime:		
Comments/ Resolution:					••••••••••••••••••••••••••••••••••••••		
<u></u>							
'roject Manager Review:	the				-	Date:	5/6/17
							1-10-

: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR ification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
(Please Print Clearly)													UPPER MIDWEST REGION					Page	1 0	of (		
Company Nar	me:	Or	1001	Assa	JTAL	S		∕.			• • •	. @		I	MN: 6'	2-607-	1700	WI: 920-469-2436			0.0	1071
Branch/Locat	tion:		APPLO	LTON			1	1	ace	Ana	lytic	al°				,	_		COC No.		03	51278
Project Conta	act:	B	QIAN 1	DAYN	RR					www.pe	Celaus.C	<b>10</b> 171			AD	$\checkmark$		Quote #:	N	AUTH	د	
Phone:		97	20/830.	-6141			1	C	HA	<b>NIN</b>	OF	: <u>Cl</u>	<u>JS</u>	ΓΟΙ	<u> </u>			Mail To Contact:	Be,	AN WA	ayni	RR
Project Numb	per:	N	J 1866 AO	5/00	5		A=No	ne B=H	ICL C=	H2SO4	Preserva D=HNO3	tion Code E=DIV	<u>es</u> Vater F	=Methano	G=Na	юн		Mall To Company:	OMNNI ASSOCIATES			
Project Name	):		Mau	THK			H=So	dium Bisulf	ate Soluti	on	I=Sodiun	n Thiosulfa	ate J=	Other				Mail To Address:	ONE	SYSTRA	ns C	RIVE
Project State:	:		1				FILTER (YES/	RED? /NO)	Y/N	2	Y								APPL	ectory,	(2)	54914
Sampled By (	(Print):	Ī	SRIAN I	WAYN	VKR		PRESER (COD	VATION DE)*	Pick Letter	A	Ď							Invoice To Contact:	Ba	LIAN L	NAY	IWER
Sampled By (	(Sign):	/	3: D. C	Warpy	Л				_							_		Invoice To Company:		OM	146	
PO #:	Regulat Progra			tory am:			lested	1-				·				Invoice To Address:						
Data Packa	Data Package Options MS/MSD (biliable) A = Air			Matri	x Codes		Requ	33	2 2 ~								2	SPNI	5	_		
	EPA Level IV     On your sample     C = Charce     C = Charce			pal (	DW = Drinkir GW = Groun SW = Surfac	ng Water d Water e Water	vses	147	5							Invoice To Phone:		/				
EPA Level IV DOT needed on S = Soil your sample SI = Sludge			WW = Waste WP = Wipe	= Waste Water		HE KP	1 F	ļ						CLIENT	LAB COMMENTS Profile			Profile #				
PACE LAB #		CLIE	NT FIELD	DID	D/	ATE	TIME	MATRIX		IU								COMMENTS	(Lab I	Jse Only	/)	
001		05	FALL	001	5/6	08	6:31	GW		X	$\times$								<u>k-250 n</u>	26,0		
	 				_				. 									······································	· · · · · · · · · · · · · · · · · · ·			<u> </u>
											ļ											<b>_</b>
					_								L									
										ļ	<u> </u>											
					_							ļ										
					_					<b>_</b>	ļ									<u>-</u>		
									• •													
										ļ		ļ										
	ļ									ļ	ļ	ļ										
				·····•				<u> </u>	ļ			ļ										
Ruch Tr		nd Tim	Begunget	d Drolli	<u> </u>						<u> </u>						2			BA	CE Brole	at No.
(Rush	TAT su	bject to	o approval/s	surcharge	e)	Reling	uished By:	Qui	ange	4	5/1/2	ate/Time:	8:0	دەم	Received	Ke	mp	en 5 petertime:	<u>092</u>	0 400	345	5
Transmit Pre	Date Needed: Transmit Prelim Rush Results by (complete what you want):				Relind	uisped By:	ent	en	5/0	-/05	ate/Time:	22	б	Received	2/	$\mathcal{N}$	5/6 ( by	1220		~	-1	
Email #1:	<u> </u>			·····		Reling	uished By:			1	Di	ate/Time:	y		Received	i By:	<del>.</del>	Date/Time:	· · · · · · · · · · · · · · · · · · ·	Kecelpt Tem	10 = K	o °c
Email #2:	<b> </b>					<b>B</b> e#=		/							Deschurd Day				·····	Sample Receipt pH		
Fax:	<u> </u>			·····		Keiing	nquisnea By: Date/Time: R						Received By: Date/Time:					Cooler Custody Seal				
	Samples	on HOLD	are subject to			Relinc	inquished By: Date/Time: R								Received By: Date/Time:				Present / Not Present			
sp	special pricing and release of liability				L														Intact / Not Intact			



Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, WI 54302 (920)469-2436

May 14, 2008

Brian Wayner Omnni Associates, Inc. One Systems Drive Appleton, WI 549141654

RE: Project: MAUTHE OUTFALL N1866A05/003 Pace Project No.: 403735

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on May 13, 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,

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

**REPORT OF LABORATORY ANALYSIS** 

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



Page 1 of 8



.

# CERTIFICATIONS

Project:	MAUTHE OUTFALL N1866A05/003
Pace Project No.:	403735

Green Bay Certification IDs	
Florida (NELAP) Certification #: E87948	Minnesota Certification #: 055-999-334
Illinois Certification #: 200050	South Carolina Certification #: 83006001
California Certification #: 06246CA	Wisconsin Certification #: 405132750
New York Certification # 11888	Wisconsin DATCP Certification #: 105-444
North Dakota Certification #: R-150	Kentucky Certification #: 82
North Carolina Certification #: 503	Louisiana Certification #: 04168
Green Bay Volatiles Certification IDs	
Florida (NELAP) Certification #: E87951	Minnesota Certification #: 055-999-334
California Certification # 06247CA	South Carolina Certification #: 83006001
Illinois Certification #: 200051	Wisconsin Certification #: 405132750
New York Certification # 11887	Wisconsin DATCP Certification #: 105-444
North Dakota Certification # R-200	Kentucky Certification #: 83
North Carolina Certification #: 503	Louisiana Certification #: 04169

### **REPORT OF LABORATORY ANALYSIS**



ace Analytical labs.co

### **PROJECT NARRATIVE**

Project: MAUTHE OUTFALL N1866A05/003 Pace Project No.: 403735

Method:EPA 7196Description:7196 Chromium, HexavalentClient:OMNNI ASSOCIATES, INC.Date:May 14, 2008

#### **General Information:**

1 sample was analyzed for EPA 7196. All samples were received in acceptable condition with any exceptions noted below.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable): All criteria were within method requirements with any exceptions noted below.

#### **Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

#### Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### **Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

#### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## **REPORT OF LABORATORY ANALYSIS**





.

.

# ANALYTICAL RESULTS

Project: Pace Project No.:	MAUTHE OU 403735	TFALL N1866A	.05/003							
Sample: OUTFALL	_ 001	Lab ID:	403735001	Collecte	d: 05/13/08	3 07:03	Received: 05/	/13/08 11:00	Matrix: Water	· · · ·
Paramet	ters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7196 Chromium, He	exavalent	Analytica	I Method: EPA	7196						
Chromium, Hexaval	ent	0.69 r	ng/L	0.057	0.017	5		05/13/08 14:0	0 18540-29-9	

Date: 05/14/2008 04:47 PM

# **REPORT OF LABORATORY ANALYSIS**





### QUALITY CONTROL DATA

Project:	MAUTHE OUT	FALL N1866A05/003								
Pace Project No.:	403735									
QC Batch:	WETA/1495	· · · · · · · · · · · · · · · · · · ·	Analys	is Method:	E	EPA 7196				
QC Batch Method:	EPA 7196		Analys	is Descript	ion: 7	7196 Chromiu	m, Hexavale	nt		
Associated Lab Sa	mples: 403735	001								
METHOD BLANK:	27672	· · · · · · · · · · · · · · · · · · ·								
Associated Lab Sa	mples: 403735	001								
			Blank	: Re	eporting					
Parameter Chromium, Hexavalent		Units	Resul	t	Limit	Qualifiers	·			
		mg/L	<0.	0034	0.01	1				
LABORATORY CC		E: 27673							••••	
			Spike	LCS		LCS	% Rec			
Parar	neter	Units	Conc.	Resul	t	% Rec	Limits	C	Qualifiers	
Chromium, Hexava	lent	mg/L	.3		0.32	107	90-11	0		
	MATRIX SPIKE				27675					
WATER OF INE OF			MS	MSD	2,010					
		403735001	Spike	Spike	MS	MSD	MS	MSD	% Rec	Max

Conc.

1.5

Result

2.2

Result

2.2

% Rec

101

% Rec

102

Limits RPD RPD

.8 20

90-110

Qual

Date: 05/14/2008 04:47 PM

Parameter

Chromium, Hexavalent

Units

mg/L

Result

0.69

Conc.

1.5

# **REPORT OF LABORATORY ANALYSIS**





### QUALIFIERS

Project: MAUTHE OUTFALL N1866A05/003

Pace Project No.: 403735

#### 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.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Date: 05/14/2008 04:47 PM

# **REPORT OF LABORATORY ANALYSIS**

Page 8 of 8



	San	nple	Con	ditior	n Upon Receipt			
The and the start								
	Client Name:		)MI	ni i	ASGOC.	Project	#	<u>403155</u>
1			<b>_</b>		•			
Courier: 🔲 Fed Ex 🗌 UPS	USPS Clien	t 🗌	Comm	nercial	Pace Other		<b>Option:</b>	I. S. S. B. S.
Tracking #:					\ -		2roj. Di	ue Date Construction of the second
Custody Seal on Cooler/Box I	P <b>resent:</b> Uyes	Q	no	Seals	s intact: 🗌 yes	no		
Packing Material: Dubble	Wrap Bubble	Bags	Ч	None	Other			
Thermometer Used	<u>}</u>	Туре	of Ice	: Wet	Blue None	Samples on	ice, co	oling process has begun
Cooler Temperature	21	Biolo	<b>g</b> ical `	Tissue	is Frozen: Yes No	Date an	d Initia nts: と	us of person examining
Temp should be above freezing to 6	»°C				Comments:		ن	15/13/0×
Chain of Custody Present:	·	Ľ (Yes			1.			,
Chain of Custody Filled Out:		Dyes			2.			
Chain of Custody Relinquished:		C Yes			3.		_	
Sampler Name & Signature on (	COC:	dyes			4.			
Samples Arrived within Hold Tin	ne:	 Cityes			5.			
Short Hold Time Analysis (<72		QYes			6. NEXCAPANA	0		
Rush Turn Around Time Requ	ested: Ah	Xyes	Δ <sub>No</sub>		7.			
Sufficient Volume:	ruy	Dyes			8.			
Correct Containers Used:		L.Yes			9.			
-Pace Containers Used:		Dres		□n/a				
Containers Intact:		DYes			10			
Eiltered volume received for Dis					11			
Sample Labels match COC:	<u>3017eu (esta</u>				12			
Sample Labels match COC.	aia Matrix				12.			
All containers needing preservation ha	ve been checked.			<u> </u>				
		⊔Yes			13.			
All containers needing preservation compliance with EPA recommendati	are found to be in ion.	□Yes	ΠNο	□Nya				
				1	Initial when	Lot # of add	ed	
exceptions: VOA, coliform, TOC, O&G, V	NI-DRO (water)				completed	preservative		
Samples checked for dechlorina	ition:	□Yes			14			
Headspace in VOA Vials ( >6mn	n):	QYes	<b>No</b>	QN/A	15	·····		
Trip Blank Present:		□Yes	□No	QN/A	16.			
Trip Blank Custody Seals Prese	nt	□Yes	ΠNο	DRVA				ł
Pace Trip Blank Lot # (if purchas	sed):	<u>.                                    </u>			l			
Client Notification/ Resolution	······				<u> </u>	Field Data R	lequirer	d? Y / N
Person Contacted:				Date/	Time:			
Comments/ Resolution:	<u></u>			-	<u></u>			
Project Manager Deuleur	h.~		/				7,	7/7//12
Project Manager Review:							<u>"</u>	

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)

ויי)	ease Print Clearly)		<u>⊻</u>								UPPER MIDWEST REGION				Page	1 of <b>\</b>	
Company Name:	OMINNI Assor	2374.	7	<b>F</b>						MN	: 612-607	-1700	WI: 920-469-2436			001076	
Branch/Location:	APPLATON	<i></i>	] /		ace	Ana	lytic	al *			1-1	-		COC No.		031270	
Project Contact:	BRIAN WAYN	<i>fn</i>					00.020.0						Quote #:	2	AUTHE		
Phone:	920/830-6141		] '	С	ΉA	IN	OF	Cl	JSTO	<u>)D</u>	Υ		Mail To Contact:	RR.	AN LO	A-VINER	
Project Number:	N1866 AU5/003		A=No	ne B=H	CL C=I	12504	Preserva D=HNO3	tion Code E=DI V	<u>as</u> Vater F=Met	anol (	G=NaOH		Mail To Company:	Opr	une pos	XXIATRS	
Project Name:	MAUTHE		H=So	dium Bisulf	ate Soluti	ол 	I=Sodium	Thiosulfa	te J=Othe			]	Mail To Address:	ONE SYSTEMS DR		SORIVE	
Project State:	\ت		FILTE	RED? (NO)	Y/N	2								RPPL	retary, U	2) 54614	
Sampled By (Print):	BRIAN WAYN	C.R.	PRESER (COL	VATION DE)*	Pick Letter	A							Invoice To Contact:	BRI	YNER		
Sampled By (Sign):	Bi a Wayner				5								Invoice To Company:	Om	1001		
PO #:		Regulatory Program:			estêd	53							Invoice To Address:		Æ		
Data Package Options MS/MSD					Sequ	3.5								SAME			
(diliable) EPA Level III D EPA Level III (billable) C = Charco 0 = Oil			DW = Drinki GW = Groun	ng Water d Water	/ses	507							Invoice To Phone:		/		
EPA Level	IV NOT needed on your sample	S = Soil SI = Sludge	WW = Waste WP = Wipe	Water	Analy	TEX	1						CLIENT	LAB C	OMMENT	S Profile #	
PACE LAB #	CLIENT FIELD ID	DATE	TIME	MATRIX									COMMENTS	(Lab l	Jse Only)		
00) <	UT FALL OOI	5/12/0	8 7:03	GW	6. Q	X							1-250 MIA				
					ч , ч												
					•												
										_					····		
															<u> </u>		
					•••••												
					1. 1.												
					••												
Rush Turnarou (Rush TAT si	und Time Requested - Preli	ims <sub>Rel</sub>	inquished By:	9 lito	~~~		5/ Da	te/Time:	7.41.	Rec	H W	11.1	b. 5/13/08	8:25	PACE	Project No.	
Date	e Needed:	Re	inguished By:	1	E		Da	te/Time:		- 00 R01	eived By:) ()		Date Ting:	NO LINX	403	150	
Transmit Prelim Rus	h Results by (complete what you	want):	<u>U. 171</u>	rer	N	_3/	<u>13/08</u>		]]:00	<u>X</u>	XILL	<u>Y K</u>	UNRE DIB	DR 1100	Receipt Temp	= PNI°C	
Email #2:		Rei	inquisned By;			·	' Da	e/ I ime:		Rec	Received By: U Date/Time:				Sampl	e Receipt pH A	
Telephone:		Rei	Relinquished By: Date/Time: Re						Received By: Date/Time:				OK / Adjusted N				
Fax:								<u>Coo</u>				Cooler	Custody Seal				
Samples special prio	linquished By:				Da	ite/Time:		Rec	eived By:		Date/Time:		Present Intact	/ Not Present / Not Intact			

ce Analvtical

Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, WI 54302 (920)469-2436

May 21, 2008

RECEIVED OMNNI ASSOCIATES

Brian Wayner Omnni Associates, Inc. One Systems Drive Appleton, WI 549141654

RE: Project: N1866A05/003 MAUTHE Pace Project No.: 404079

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on May 20, 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,

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

# **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc...



Page 1 of 8



Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, WI 54302 (920)469-2436

## CERTIFICATIONS

Project: N1866A05/003 MAUTHE

Pace Project No.: 404079

#### Green Bay Certification IDs

Florida (NELAP) Certification #: E87948 Illinois Certification #: 200050 California Certification #: 06246CA New York Certification #: 11888 North Dakota Certification #: R-150 North Carolina Certification #: 503

Green Bay Volatiles Certification IDs Florida (NELAP) Certification #: E87951 California Certification #: 06247CA Illinois Certification #: 200051 New York Certification #: 11887 North Dakota Certification #: R-200 North Carolina Certification #: 503

Minnesota Certification #: 055-999-334 South Carolina Certification #: 83006001 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 Kentucky Certification #: 82 Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334 South Carolina Certification #: 83006001 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 Kentucky Certification #: 83 Louisiana Certification #: 04169

### **REPORT OF LABORATORY ANALYSIS**





# SAMPLE SUMMARY

Project:	roject: N1866A05/003 MAUTHE										
Pace Project I	No.: 404079										
Lab ID	Sample ID	Matrix	Date Collected	Date Received							
404079001	OUTFALL 001	Water	05/20/08 06:20	05/20/08 14:45							

# **REPORT OF LABORATORY ANALYSIS**





OUTFALL 001

404079001

1

PASI-G

# SAMPLE ANALYTE COUNT

Pace Project No.:	404079	···				-
				Analytes		
Lab ID	Sample ID	Method	Analysts	Reported	Laboratory	

EPA 7196

DEY

# **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..

nelac



# **PROJECT NARRATIVE**

Project: N1866A05/003 MAUTHE Pace Project No.: 404079

Method:EPA 7196Description:7196 Chromium, HexavalentClient:OMNNI ASSOCIATES, INC.Date:May 21, 2008

#### **General Information:**

1 sample was analyzed for EPA 7196. All samples were received in acceptable condition with any exceptions noted below.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable): All criteria were within method requirements with any exceptions noted below.

#### **Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

#### Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### **Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

#### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

# **REPORT OF LABORATORY ANALYSIS**





.

# ANALYTICAL RESULTS

N1866A05/003 MAUTHE Project: 404079

Pace Proje	ct No.:
------------	---------

Sample: OUTFALL 001	Lab ID:	404079001	Collecte	d: 05/20/0	3 06:20	Received: 05	5/20/08 14:45	Matrix: Water	
Parameters	Results	Units		LOD	DF	Prepared	Analyzed	CAS No.	Qual
7196 Chromium, Hexavalent	Analytica	I Method: EPA	7196						
Chromium, Hexavalent	0.74	mg/L	0.057	0.017	5		05/20/08 17:	34 18540-29-9	

Date: 05/21/2008 02:32 PM

### **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..

nebč



.

.

# QUALITY CONTROL DATA

Project:	N1866A05/003	MAUTH	E										
Pace Project No.:	404079												
QC Batch:	WETA/1555			Analy	sis Method	t: I	EPA 7196						
QC Batch Method:	EPA 7196			Analysis Description:			7196 Chromiu	ım, Hexav	alent				
Associated Lab Sar	mples: 404079	001											
METHOD BLANK:	30909							· · · · ·					
Associated Lab Sar	mples: 404079	001											
				Blan	K R	Reporting							
Paran	neter		Units	Resu	lt	Limit	Qualifier	s					
Chromium, Hexavalent mg/L				<0.	0034	0.01	1						
LABORATORY CO	NTROL SAMPL	E: 3091	0										
				Spike	LCS	S	LCS	% Red	•				
Paran	neter		Units	Conc.	Resu	ult	% Rec	Limits	Q	Jalifiers	_		
Chromium, Hexava	lent	mg/L		.3	•	0.31	102	90	-110				
MATRIX SPIKE & M		DUPLIC	ATE: 30911			30912							
				MS	MSD								
			404079001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Мах	
Paramet	ter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chromium, Hexava	lent m	g/L	0.74	1.5	1.5	2.3	2.3	101	106	90-110	3	20	

Date: 05/21/2008 02:32 PM

# **REPORT OF LABORATORY ANALYSIS**

.

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..

nelac



# QUALIFIERS

Project: N1866A05/003 MAUTHE

Pace Project No.: 404079

#### 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.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Date: 05/21/2008 02:32 PM

### **REPORT OF LABORATORY ANALYSIS**

Page 8 of 8



Sa	mple Cond	litior	n Upon Rece	eipt		
Pace Analytical Client Name	∍:0nuj	A	ssociate	2	Project #	40-1079
Courier: D Fed Ex D UPS D USPS C Clin Tracking #:	ent 🗌 Comm	ercial	Pace Oth	er	Option Rojett	ial MelDale 2017
Custody Seal on Cooler/Box Present: U yes	; 🔍 no	Seals	s intact: 🗌 ye	es 🗌	no	
Packing Material: Bubble Wrap Bubble	e Bags 🗍 N	lone	Other			
Thermometer Used NA	Type of Ice:	we	Blue None		Samples on ice, c	ooling process has begun
Cooler Temperature	Biological	lissue	is Frozen: Yes Comments:	No. AB.	Date and Initi contents:	als of person examining $5/20/08$ AB
Chain of Custody Present:	Dives []No		1.			
Chain of Custody Filled Out:			2.			
Chain of Custody Relinquished:	Diges []NO		3.		······································	
Sampler Name & Signature on COC:	. Dixes []No		4.			
Samples Arrived within Hold Time:	Dixes []No		5.			
Short Hold Time Analysis (<72hr):	Diges DNO		6. NEXIM	0110		······································
Rush Turn Around Time Requested:	UYes QNO		7.	<u> </u>		·····
Sufficient Volume:	QYes DNo		8.	*** *		
Correct Containers Used:	Yes ONO		9.			
-Pace Containers Used:	° D(Yes ⊡No					
Containers Intact:	Čių es ⊡No		10.			·····
Filtered volume received for Dissolved tests	□Yes □No	DN/A	11.			
Sample Labels match COC:	XYes DNo		12.			
-Includes date/time/ID/Analysis Matrix: V	$\sqrt{2}$					
All containers needing preservation have been checked.	OYes ONo	DIN/A	13.			
All containers needing preservation are found to be in compliance with EPA recommendation.	□Yes □No	D'N/A				
exceptions: VOA, coliform, TOC, Q&G, WI-DBO (water)	□Yes □No		Initial when		Lot # of added	
Samples checked for dechlorination:	 □Yes □No		14		<u> </u>	
leadspace in VOA Vials ( >6mm).			15		•	
frio Blank Present:			16.	····		- <u></u>
Trip Blank Custody Seals Present						
Pace Trip Blank Lot # (if purchased):	_					<b>4</b> 8 <sup>1</sup>
Night Notification ( Page totic -						
Person Contacted:		Data	lime:		rielo vata Require	su: Y/N
Comments/ Besolution:		Dale/		<u></u>		
		<u> </u>				
	······					······································
	<u> </u>				ť	- - - - - - - - - - - - - - - - - - -
Project Manager Review:					Date:	>10/UB

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)

.

	(Please	Print Clearly)					7						UPPER		ST RE	GION		Page	1 of	1
Company Name	ie: Ö	MNNI ALCO	CATES		MN: 612-607-1700 WI: 920-469-2430							WI: 920-469-2436			იიი	FOC				
Branch/Locatio	C	APPLILTUIN				Pa	cei	Ana	lytic	al °							COC No.		029	285
Project Contac	st:	SRIAN WA	y,NC2		(			www.pa	OelaDS.C	xom				• •	1	Quote #:	M.	としてていの		
Phone:	9-	20 /830-614	1		F	CH	łΑ	IN	OF	: CI	US'	ΓΟ	DY	445	1	Mail To Contact:	Bizin	n Wr	141021	<u> </u>
Project Number	r: N	isbuacs kia	2		A=None	B=HCL	с∍н	2504	Preserva D=HNO3	E=DI V	<u>es</u> Nater F	=Methan	ol G=Na	вон		Mail To Company:	ひうう	4 Jac	SSOL1	ATC
Project Name:		MAUTHE			H=Sodium	Bisulfate S	Solutio	n	I=Sodiun	n Thiosulfa	ate J=	Other			ſ	Mall To Address:	ONE	SYSTE	ns Dr	LIVE.
Project State:		(~)		- F	ILTERED (YES/NO)	<sup>7</sup> Y	/ N	2									APPL	tor, c	۲۵ ונ	1914
Sampled By (P	rint): Ry	LAN WAY	ته خان	PRI	ESERVATI		lick etter	A								Invoice To Contact:	B.2.1	to we	YNCZ	
Sampled By (S	iign): B	- O Ways			(,			,								Invoice To Company:	UN UN	LUNI		
PO #:		///	Regulat Progra	iory m:			ested	Ś								Invoice To Address:				
Data Packag	e Options	MS/MSD		Matrix Co	odes		čequ	Ĩ									SP.	maj		
	Level III	On your sample (billable)	B = Biota C = Charco	DW = 1 al GW = 1	Drinking Wa Ground Wa	ater	/ses	XY								Invoice To Phone:		7	<u> </u>	
	Level IV	NOT needed on your sample	S = Soil SI = Sludge	WW = WP = COLLECTION	Waste Wat	ter	Anal	出げ											S P	rofile #
PACE LAB #			DA	TE TH	ME					<u> </u>						1.250 LUA		ise Only)		
		JUTFALL CO	<sup>7</sup> /z.	103 6:	22 6	·w !		7								1-200 MIN				
							÷			<u> </u>	}			┝						<u> </u>
		<u>.</u>								ļ	ļ									<u> </u>
			•																	<u> </u>
										}										
						· .														
		<u> </u>								1	1					······································				
																	[			
		<u>-</u> '																		
						÷.														
							•													
Rush Tur (Rush T,	rnaround Tir AT subject	me Requested - Pre to approval/surchar	lims ge)	Relinquishe	d By:	) Win	122	1	5/201	ațe/Time: 105 (	1:35	<u>```</u>	Received	IBY. Ken	A	en 120/08	0920			4 <u>0.</u> 0-
Transmit Preti	Date Need	160: Is by (complete what you	Lwant)	Relinquishe	ву:	11.00		5	20/2	ate/Time:	44	6	Received	ที่ใจก	(h	NIMPAD 60000	N2 1415	- 10 1	<u> </u>	<u>1</u>
Email #1:		to by teemplete what you		Relinquishe	d By:	me				ate/Time:		<u> </u>	Received	d By:	<u>47</u>	Date/Time:		Receipt Temp	= P	D  ℃
Email #2:				L	/	U								V		U		Samp	le Receip	AI X <sup>HQ 1</sup>
Telephone:				Relinquishe	d By:	-			Di	ate/Time:			Receive	d By:		Date/Time:		OK	/ Adjuste	
rax;	amples on HO	D are subject to		Relinguisho						ate/Time			Receive			Data/Time <sup>,</sup>		Presen	UUSTOP	resent
spec	cial pricing and	release of liability								,						Cato nine.		Intac	I / Not III	tact



Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, WI 54302 (920)469-2436

May 27, 2008

Brian Wayner Omnni Associates, Inc. One Systems Drive Appleton, WI 549141654

RE: Project: N1866A05/003 MAUTHE Pace Project No.: 404324

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on May 27, 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,

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

### **REPORT OF LABORATORY ANALYSIS**

Page 1 of 8



ace Analytical® www.pacelabs.com

٠

•

### CERTIFICATIONS

Project: N18	66A05/003 MAUTHE							
Pace Project No.: 404	324							
Green Bay Certification	IDs ation #: E87948	Minnesota Cartification #: 055 000 334						
Illinois Certification #: 20	00050	South Carolina Certification #: 83006001						
California Certification #	: 06246CA	Wisconsin Certification #: 405132750						
New York Certification #	t: 11888	Wisconsin DATCP Certification #: 105-444						
North Carolina Certifica	tion #: 503	Louisiana Certification #: 04168						
			Minist a characterization of the second states of the second states of					
Green Bay Volatiles Cer	tification IDs							
Florida (NELAP) Certific	ation #: E87951	Minnesota Certification #: 055-999-334						
California Certification #	: 06247CA	South Carolina Certification #: 83006001						
Illinois Certification #: 20	0051	Wisconsin Certification #: 405132750						
New York Certification #	11887	Wisconsin DATCP Certification #: 105-444						
North Dakota Certification	on #: R-200	Kentucky Certification #: 83						
North Carolina Certifica	ion #: 503	Louisiana Certification #: 04169	a suddeste og som en som en stærere at som en stærere at en som en suddeste en som i som i sørere at som					

# **REPORT OF LABORATORY ANALYSIS**





# SAMPLE SUMMARY

# Project: N1866A05/003 MAUTHE

Pace Project No.: 404324

Lab ID	Sample ID	Matrix	Date Collected	Date Received
404324001	OUTFALL 001	Water	05/27/08 06:25	05/27/08 10:00

# **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



Page 3 of 8



.

Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, WI 54302 (920)469-2436

,

•

# SAMPLE ANALYTE COUNT

Project: Pace Project No.	N1866A05/003 MAUTHE 404324				
Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
404324001	OUTFALL 001	EPA 7196	DEY	1	PASI-G

### **REPORT OF LABORATORY ANALYSIS**





### **PROJECT NARRATIVE**

Project: N1866A05/003 MAUTHE

Pace Project No.: 404324

Method:EPA 7196Description:7196 Chromium, HexavalentClient:OMNNI ASSOCIATES, INC.Date:May 27, 2008

#### **General Information:**

1 sample was analyzed for EPA 7196. All samples were received in acceptable condition with any exceptions noted below.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

#### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

#### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

#### Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

#### **Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### **Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

#### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

# **REPORT OF LABORATORY ANALYSIS**





.

.

# ANALYTICAL RESULTS

Project: Pace Project No.:	N1866A05/00 404324	3 MAUTHE								
Sample: OUTFALI	L 001	Lab ID:	404324001	Collecte	d: 05/27/08	3 06:25	Received: 05/	27/08 10:00 N	Matrix: Water	
Parame	ters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7196 Chromium, H	exavalent	Analytica	I Method: EPA	7196						
Chromium, Hexaval	lent	0.60	mg/L	0.057	0.017	5		05/27/08 16:5	5 18540-29-9	

Date: 05/27/2008 05:26 PM

.

# **REPORT OF LABORATORY ANALYSIS**





# QUALITY CONTROL DATA

Project:	N1866A05/003	MAUTHE										
Pace Project No.:	404324											
QC Batch:	WETA/1606		Analys	is Method	: E	EPA 7196						
QC Batch Method:	EPA 7196		Analys	is Descrip	tion: 7	196 Chromiu	ım, Hexav	alent				
Associated Lab Sar	mples: 4043240	001										
METHOD BLANK:	33192											
Associated Lab Sar	nples: 404324(	001										
Paran	neter	Units	Blank Resul	R t	eporting Limit	Qualifier	s					
Chromium, Hexava	lent	mg/L	<0.0	0034	0.011	- I						
LABORATORY CO	NTROL SAMPLE	E: 33193										
			Spike	LCS	5	LCS	% Rec	:				
Paran	neter	Units	Conc.	Resu	ılt	% Rec	Limits	Q	ualifiers			
Chromium, Hexava	lent	mg/L	.3		0.31	104	90	-110				
MATRIX SPIKE & M	ATRIX SPIKE D	UPLICATE: 3319	4		33195							
			MS	MSD								
		404324001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramet	er	Units Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chromium, Hexaval	lent mg	1/L 0.60	1.5	1.5	2.1	2.1	100	103	90-110	2	20	

Date: 05/27/2008 05:26 PM

# **REPORT OF LABORATORY ANALYSIS**



ace Analytical ww.pacelabs.com

### QUALIFIERS

Project: N1866A05/003 MAUTHE

Pace Project No.: 404324

#### 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.

#### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

# **REPORT OF LABORATORY ANALYSIS**

Page 8 of 8



	Sar	nple Cond	litior	n Upon Receipt		
Pace Analytical"	Client Name	:_ <u></u>	)/	A550C	Project #	404324
Courier: 🗌 Fed Ex 🗍 UP Tracking #:	S [] USPS [] Clier	nt 🗌 Comm	ercial	Pace Other	Option Proj 1 Proj 1	nal se
Custody Seal on Cooler/Bo	x Present: 🗌 yes	no	Seals	s intact: 🔲 yes	no no	
Packing Material: 📋 Bubbl	e Wrap	Bags 🖉 N	lone	Other		
Thermometer Used		Type of Ice:	Wet	Blue None	Samples on ice, c	ooling process has begun
Cooler Temperature Temp should be above freezing t	ROIL 0.6°C	Biological 1	issue	is Frozen: Yes No Comments:	Date and Init contents:	ials of person examining $5 - 27 - 08 $ cy
Chain of Custody Present:		ØYes □No		1.		
Chain of Custody Filled Out:		ØYes ⊡No		2.		
Chain of Custody Relinquishe	ed:		Dn/a	3.		
Sampler Name & Signature o	n COC:	ØYes □No		4.		
Samples Arrived within Hold	lime:	Øyes 🗆 No		5.		
Short Hold Time Analysis (<	:72hr):	ØYes 🗆 No		6. Hex chrone	2	·
Rush Turn Around Time Re	quested:	OYes 2No		7.		
Sufficient Volume:		ØYes DNO		8.		
Correct Containers Used:		Øves □No		9.		
-Pace Containers Used:		ØYes 🗆 No				
Containers Intact:				10.		
Filtered volume received for E	Dissolved tests	□Yes □No		11.		
Sample Labels match COC:		Ves ONO		12.		
-Includes date/time/ID/Ana	lysis Matrix:	GW	_	:		
All containers needing preservation	have been checked.	QYes QNo		13.		
All containers needing preservation compliance with EPA recommend	on are found to be in ation.	□Yes □No				
exceptions: VOA, coliform, TOC, O&C	6, WI-DRO (water)	□Yes □No		Initial when completed	Lot # of added preservative	
Samples checked for dechlori	nation:	OYes ONo		14.		·····
Headspace in VOA Vials ( >6)	nm):	□Yes □No		15.		
Trip Blank Present:		DYes DNo		16.		
Trip Blank Custody Seals Pres	sent	□Yes □No				
Pace Trip Blank Lot # (if purch	nased):					
Client Notification/ Resolution Person Contacted:	on:	· · ·	Date/	lime:	Field Data Require	ed? Y / N
Comments/ Resolution:						<u> </u>
	<u></u>					
			·			······································
	Je start and the					MZZIM
Project Manager Review:	m			•••	Date:	<u> </u>

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)

1	(Please F	Print Clearly)		1								UPPER	MIDW	<u>EST RE</u>	GION		Page 1	of 🐧
Company Name		Acon		<del>.</del>	, je				-			MN: 6	12-607-	1700	WI: 920-469-2436		(	
Branch/Locatior	n:	APPI ETON		2		Pace	Ana	lytic	al"							COC No.	l	131215
Project Contact:	: B	RIAN WAY	WRR		(		www.pe	oelabs.	0011					]	Quote #:	M	AUTHE	
Phone:	97	0/830-614	١		' <b>(</b>	CHA	λIN	OF	= CI	US'	ΤO	DY		[	Mail To Contact:	Be	an wa	YNER
Project Number	" N	1866A05/00	53		=None B=	HCL C=	H2SO4	*Preserv D=HNO	ation Cod 3 E=DI \	es Nater F	=Methan	ol G≖N	аОН	[	Mail To Company:	0~	NNI ASSO	CIATRS_
Project Name:		MAUTHE		E E	=Sodium Bisu	Ifate Solut	ion	1=Sodiur	m Thiosulf	ate J=	Other				Mail To Address:	onics	YSTRAS C	ろくしか
Project State:		w۱	<u> </u>	FI (	LTERED? YES/NO)	YIN	2									PREL	cton wi	54914
Sampled By (Pri	rint):	BRIAN WAY	NER	PRE	SERVATION	Pick Letter	A								Invoice To Contact:	Biz.	AN WAY	NRR
Sampled By (Sig	gn):	3. O. Ways	run			·									invoice To Company:	10	unni	
PO #:			Regulat Progra	iory m:		lester	5 2								Invoice To Address:		. NE	
Data Package	e Options	MS/MSD	A = Air	Matrix Co w = wa	des ter	Requ	215									SP	nu)	
	Level III	(billable)	B = Biota C = Charco	DW = D al GW = G	rinking Water round Water	/ses	44								Invoice To Phone:		E	<u> </u>
	Level IV	NOT needed on your sample	S = Soil <u>SI = Sludge</u>	WW = V WP = W	Vaste Water	Analy	UT UT								CLIENT	LAB C	OMMENTS	Profile #
PACE LAB #	CLIE		DA	TE TIM	MATRD	·									COMMENTS	(Lab l	Jse Only)	
001	050	TALL CUI	5/2	10 6:2	5 GW	·	X								·	1-250,	Np A	
		· · · · · · · · · · · · · · · · · · ·																
							,									1		
			·				- : #											
						ł)												
		····																
		· · · · · · · · · · · · · · · · · · ·																
								ļ										
						÷												
Rush Turn (Rush TA	haround Tim	e Requested - Prelin approval/surcharge	ms e)	Relinquished	D. Way	an		D. 5/216	ate/Time:	7:10	DAm	Receive	By:	ul	4 5/37/8	8:40	PACE F	Project No.
Transmit Oralis	Date Neede	ed:		Relinquished	NA.	Ð	5	12 5/	ate/Time:	iı)	11	Receive	By:		Date/Time:	lar inan	4043	524
Email #1:	In Rush Results	by (complete what you t	want):	Relinquished	<u>гу</u> Ву:	m		- 4 0	ate/Time:	10.		Receive	By:	Ŧ	Date/Time:		Receipt Temp =	ROI °C
Email #2:		·····			<u>-</u>												Sample	Receipt pH
Telephone:				Relinquished	By:			D	ate/Time:			Receive	d By:		Date/Time:			Adjusted
San	mples on HOLD	are subject to		Relinguished	By:			D	ate/Time:	·····		Receive	d By:		Date/Time:		Present /	Not Present
specia	al pricing and r	elease of liability											-				Intact /	Not Intact



Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, WI 54302 (920)469-2436

June 16, 2008

Brian Wayner Omnni Associates, Inc. One Systems Drive Appleton, WI 549141654

RECEIVED JUN 18 2008 OMNNI ASSOCIATES

RE: Project: N1866A05/003 MAUTHE Pace Project No.: 404591

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on June 03, 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,

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

# **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



Page 1 of 10



### CERTIFICATIONS

. . . . . . . . . . . . .

# Project: N1866A05/003 MAUTHE

Pace Project No.: 404591

#### **Green Bay Certification IDs**

Florida (NELAP) Certification #: E87948 Illinois Certification #: 200050 California Certification #: 06246CA New York Certification #: 11888 North Dakota Certification #: R-150 North Carolina Certification #: 503

### Green Bay Volatiles Certification IDs

Florida (NELAP) Certification #: E87951 California Certification #: 06247CA Illinois Certification #: 200051 New York Certification #: 11887 North Dakota Certification #: R-200 North Carolina Certification #: 503 Minnesota Certification #: 055-999-334 South Carolina Certification #: 83006001 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 Kentucky Certification #: 82 Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334 South Carolina Certification #: 83006001 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 Kentucky Certification #: 83 Louisiana Certification #: 04169

.....

# **REPORT OF LABORATORY ANALYSIS**





# SAMPLE SUMMARY

Project: Pace Project No	N1866A05/003 MAUTHE				
Lab ID	Sample ID	Matrix	Date Collected	Date Received	
404591001	OUTFALL 001	Water	06/03/08 07:45	06/03/08 14:45	

# **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



Page 3 of 10



,

.

# SAMPLE ANALYTE COUNT

Project: Pace Project N	N1866A05/003 MAUTHE No.: 404591				
Lab ID	Sample ID	• Method	Analysts	Analytes Reported	Laboratory
404591001	OUTFALL 001	EPA 6010	DLB		PASI-G
		EPA 7196	DEY	1	PASI-G

**REPORT OF LABORATORY ANALYSIS** 



ace Analytical

Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, WI 54302 (920)469-2436

### **PROJECT NARRATIVE**

Project: N1866A05/003 MAUTHE Pace Project No.: 404591

Method: EPA 6010 Description: 6010 MET ICP, Dissolved Client: OMNNI ASSOCIATES, INC.

Date: June 16, 2008

#### **General Information:**

1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable): All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### **Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

# **REPORT OF LABORATORY ANALYSIS**

Page 5 of 10





### **PROJECT NARRATIVE**

Project: N1866A05/003 MAUTHE Pace Project No.: 404591

Method:EPA 7196Description:7196 Chromium, HexavalentClient:OMNNI ASSOCIATES, INC.Date:June 16, 2008

#### **General Information:**

1 sample was analyzed for EPA 7196. All samples were received in acceptable condition with any exceptions noted below.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

#### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

#### **Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

#### Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

#### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### **Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

#### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

### **REPORT OF LABORATORY ANALYSIS**





Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, VI 54302 (920)469-2436

### ANALYTICAL RESULTS

Project: N1866A05/003 MAUTHE

Pace Project No.: 404591

Sample: OUTFALL 001	Lab ID:	404591001	Collecte	d: 06/03/0	3 07:45	Received: 06	/03/08 14:45 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytica	I Method: EPA	6010						
Chromium	824 u	ıg/L	5.0	0.57	1		06/11/08 16:40	7440-47-3	
7196 Chromium, Hexavalent	Analytica	Analytical Method: EPA 7196							
Chromium, Hexavalent	0.90 r	ng/L	0.057	0.017	5		06/03/08 16:15	18540-29-9	

Date: 06/16/2008 01:01 PM

# REPORT OF LABORATORY ANALYSIS

Page 7 of 10




.

,

# QUALITY CONTROL DATA

Project:	N1866A05/0	03 MAUTH	ΙE										
Pace Project No.:	404591												
QC Batch:	WETA/167	3		Analy	sis Method	: 6	EPA 7196						· · · · · · · · · · · · · · · · · · ·
QC Batch Method:	EPA 7196			Analy	sis Descrip	tion: 7	7196 Chromi	um, Hexav	alent				
Associated Lab Sar	nples: 4045	91001											
METHOD BLANK:	36037												
Associated Lab Sar	nples: 4045	91001											
Param	neter		Units	Blani Resu	k R It	eporting Limit	Qualifie	rs					
Chromium, Hexaval	ent	mg/L	-	<0	0034	0.01	1						
LABORATORY CO	NTROL SAM	PLE: 360	38										
Param	neter		Units	Spike Conc.	LCS Resu	; ilt	LCS % Rec	% Ree Limits	c 5 Q	ualifiers	_		
Chromium, Hexaval	ent	mg/L	•	.3	3	0.28	94	90	-110				
							•						
MATRIX SPIKE & N	ATRIX SPIK	E DUPLIC	ATE: 36039			36040							
Paramet	er	Units	404591001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	, Qual
Chromium, Hexaval	ent	mg/L	0.90	1.5	1.5	2.5	2.5	104	107	90-110	2	20	

Date: 06/16/2008 01:01 PM

# **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..

nebàc

.

Pace Analytical \* www.pacelabs.com

# QUALITY CONTROL DATA

Project:	N1866A05/003 MAU	THE										
Pace Project No.:	404591											
QC Batch:	ICP/1309		Analys	is Method	l: <b>l</b>	EPA 6010			· · · · · .			
QC Batch Method:	EPA 6010		Analys	is Descrip	tion: I	CP Metals, T	race, Diss	olved				
Associated Lab Sa	mples: 404591001											
METHOD BLANK:	38776											
Associated Lab Sa	mples: 404591001											
			Blank	: R	leporting							
Parar	neter	Units	Resul	t	Limit	Qualifier	s					
Chromium	u	)/L	<	0.57	5.0	0						
LABORATORY CO	NTROL SAMPLE: 3	8777		<u> </u>								
			Spike	LCS	6	LCS	% Rec	;				
Parar	neter	Units	Conc.	Resu	ult	% Rec	Limits	Qı	ualifiers			
Chromium	ug	)/L	500		492	98	80	-120				
MATRIX SPIKE & I	MATRIX SPIKE DUPL	ICATE: 38778			38779							
			MS	MSD								
		404761001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parame	ter Unit	s Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chromium	ug/L	<0.57	500	500	478	473	96	95	75-125	1	20	

Date: 06/16/2008 01:01 PM

# **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..

nelac



# QUALIFIERS

Project: N1866A05/003 MAUTHE

Pace Project No.: 404591

### 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.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Date: 06/16/2008 01:01 PM

# **REPORT OF LABORATORY ANALYSIS**

Page 10 of 10



Sa	mple Condit	ion Upon Receip	t	
Pace Analytical Client Name	e:	unni	Project #	404591
Courier: 📋 Fed Ex 📋 UPS 🗌 USPS 🗌 Clie	ent 🗌 Commerc	cial 🕅 Pace Other	Option	al 🗤 🔒 💦 🖓
Tracking #:	SL.		Proj N	ame
Custody Seal on Cooler/Box Present:  ges	🕅 no S	eals intact: Uyes	no 🖾	
Packing Material: Bubble Wrap Bubbl	e Bags 🗶 Nor	ne 📋 Other		
Thermometer Used NA	Type of Ice:	Wet Blue None	Samples on ice, co	ooling process has begun
Cooler Temperature $\mathcal{W}_{\mathcal{I}}$	<b>Biological Tis</b>	sue is Frozen: Yes No Comments:	contents:	$\frac{\mathcal{U}}{\mathcal{U}} = \frac{\mathcal{U}}{\mathcal{U}} = \frac{\mathcal{U}}{\mathcal{U}$
Chain of Custody Present:	107/Yes []Na []		<b></b>	
Chain of Custody Filed Out:	Pares ElNo E	IN/A 2		
Chain of Custody Belinguished				
Sampler Name & Signature on COC:			<u> </u>	
Samples Arrived within Hold Time	Wes [INO [	IN/A 5	······	
Short Hold Time Analysis (<72hr)	Thes Ting T	]N/A  6	- <u></u>	
Bush Turn Around Time Bequested:		]N/A 7		
Sufficient Volume:	XQves DNo D	]n/a 8.		
Correct Containers Used:	Ares DNo D	]N/A 9.		
-Pace Containers Used:	No C	]N/A		
Containers Intact:	Gres DNO D	]N/A 10.		
Filtered volume received for Dissolved tests	□Yes □No □	WA 11.		
Sample Labels match COC:	Xayes DNo D	]n/a 12.		
-Includes date/time/ID/Analysis Matrix:	W			
All containers needing preservation have been checked.	Mares □No □	]N/A 13.		
All containers needing preservation are found to be in compliance with EPA recommendation.	p)es ⊡No E	]n/a		
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	□Yes □No	Initial when CO	Lot # of added preservative	
Samples checked for dechlorination:	🛛 Yes 🗆 No 🕅	DA 14.		
Headspace in VOA Vials ( >6mm):	□Yes □No 16	DN/A 15.		
Trip Blank Present:	□Yes □No 🕅	Dv/A 16.		
Trip Blank Custody Seals Present	🛛 Yes 🗆 No 🚺	WA		
Pace Trip Blank Lot # (if purchased):	<u> </u>			
Client Notification/ Resolution:		· ·	Field Data Require	d? Y / N
Person Contacted:	D	ate/Time:		
Comments/ Resolution:				
	·····	<u></u>		
	<u></u>			
Project Manager Review:			Date:	0/3/08

.

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)

	(Please	Print Clearly)				$\frown$						UPPER	MIDWES	TRE	GION		Page	1 of 🕻
<b>Çompany Name</b>	. 0	MNINI ASSO	CIATE	5	<b>_</b>				- (®			MN: 61	2-607-170	00 1	<b>WI: 920-469-2436</b>			031270
Branch/Locatio	n:	APPLATON			1	Pace	Ana	liytic	ai				)	_	(	COC No.		03127
Project Contact	:	BRIAN WA	YNCR		[		νννιν.μ	0001023.0					Nh./		Quote #:	MA	UTHR	
Phone:	97	20/830-6141			' <b>(</b>	CHA	<b>N</b> Ι	OF		US	ΓΟ	DY	the.		Mail To Contact:	BRIF	No WA	YNER
Project Number	: 0	18660200	3		=None B=	HCL C=	H2SO4	*Preserva D=HNO3	E=DI	es Water F:	=Methand	ol G=Na	он		Mall To Company:	Onn	A INC	SOCIATES
Project Name:		MAUTHE		- L	=Sodium Bisu	ulfate Solut	ion	I=Sodiun	n Thiosulf	ate J=	Other				Mail To Address:	ONR	SYSTE	ns Drive
Project State:		161		 Fil	TERED? (ES/NO)	Y/N	N	Y								APP	LICTON,	w1 54914
Sampled By (Pr	int): R	RIDIN WAYN	ch.	PRE	SERVATION	Pick • Letter	A	D							Invoice To Contact:	BRIF	ni Win	YNER
Sampled By (Si	gn): R	D Warnes			,										Invoice To Company:		Onnon	
PO #:			Regulato	ory		sted									Invoice To Address:			
Data Package	e Options	MS/MSD		Matrix Co	des	ane l	13	ڈ اذ								4	- provey	
	e) _evel III	On your sample	A = Air B = Biota	W = Wa DW = D	ter rinking Water	S R	1 1	Ĩ							Invoice To Phone			
	_evel IV		O = Oil S = Soil	SW = G SW = S WW = V	round Water urface Water Vaste Water	alyse	10 4											
PACE LAB #	CLIF		SI = Sludge	WP = W	ipe MATRD	<b>F</b>	E L	打き			1				CLIENT	LAB CU	JWIWEN I Ise Onivi	S Profile #
001			DAT		5 6.4	-										2.2	5000	, A.D.
	001	<u> </u>	15[0	רוע מי				+								0 0	Jun	
							1		<u> </u>									
		<u></u>												·····			<u> </u>	
	·····						+	+										
						·			<u> </u>									
		· · · · · · · · · · · · · · · · · · ·																
		<u> </u>					+	+										
		<u></u>					<u></u>	+								<u> </u>		<u> </u>
				_			<u>-</u>											
						<u> </u>		+	<u> </u>	<u> </u>								
								+	┼──							<u></u>	· · · · · · · · · · · · · · · · · · ·	
							·											
Rush Turn	naround Tir	ne Requested - Prel	ims l	Relinquished	By; .	<u> </u>	1	 Di	te/Time:	l	L	Received	Ву:		/ Date/Time:	L	PAC	E Project No.
(Rush TA	AT subject i	o approval/surcharg	je)	B.	il lybay	okin		<u> 1/2</u>	8	3:29		12	1/2s	M	bin \$13/08	0925	<u>ц</u>	14591
Transmit Prelin	n Rush Resul	ts by (complete what you	want):		Ken	per	1	13/08	ate/Time:	;44	5	Received	W W	rill	$\mathcal{M} = \frac{6}{3} \frac{1}{0} \frac{1}{3} \frac{1}{0} \frac{1}{3} \frac{1}{0} \frac{1}{3} \frac{1}{0} \frac{1}{3} \frac{1}{0} \frac{1}{3} \frac{1}{1} \frac{1}{$	1:45	<u> </u>	
Email #1:				Relinguished	фу: ()	/		Di	ate/Time:			Received	By:		Date/Time:		Receipt Tem	$\sim 1000$
Telephone:				Relinquished	V By:			D;	ate/Time:			Received	By:		Date/Time:		Saroj (Oł	djusted
Fax:										<u> </u>					<u></u>		Coolei	Custody Seal
Sar speci	ial pricing and	are subject to release of liability		Kelinquished	ву:			D	ate/Time:			Received	By:		Date/Time:		Preser	t / Not Intact

ce Analytical

Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, WI 54302 (920)469-2436

June 12, 2008

RECEIVED JUN 16 2008 OMNNI ASSOCIATES

Brian Wayner Omnni Associates, Inc. One Systems Drive Appleton, WI 549141654

RE: Project: N1866A05/003 MAUTHE Pace Project No.: 404904

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on June 10, 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,

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

# **REPORT OF LABORATORY ANALYSIS**

Page 1 of 7





# CERTIFICATIONS

### N1866A05/003 MAUTHE Project:

Pace Project No.: 404904

### **Green Bay Certification IDs**

Florida (NELAP) Certification #: E87948 Illinois Certification #: 200050 California Certification #: 06246CA New York Certification #: 11888 North Dakota Certification #: R-150 North Carolina Certification #: 503

Minnesota Certification #: 055-999-334 South Carolina Certification #: 8006001 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 Kentucky Certification #: 82 Louisiana Certification #: 04168

Green Bay Volatiles Certification IDs Florida (NELAP) Certification #: E87951 California Certification #: 06247CA Illinois Certification #: 200051 New York Certification #: 11887 North Dakota Certification #: R-200 North Carolina Certification #: 503

Minnesota Certification #: 055-999-334 South Carolina Certification #: 83006001 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 Kentucky Certification #: 83 Louisiana Certification #: 04169

..

# **REPORT OF LABORATORY ANALYSIS**





•

# SAMPLE SUMMARY

Project:	N1866A05/003 MAUTHE				
Pace Project	No.: 404904				
Lab ID	Sample ID	Matrix	Date Collected	Date Received	
404904001	OUTFALL 001	Water	06/10/08 06:17	06/10/08 11:45	

.

# **REPORT OF LABORATORY ANALYSIS**





.

.

.

# SAMPLE ANALYTE COUNT

Project:	N1866A05/003 MAUTHE											
Pace Project No.	404904											
••••••••••••••••••••••••••••••••••••••				Analytes								
Lab ID	Sample ID	Method	Analysts	Reported	Laboratory							
404904001	OUTFALL 001	EPA 7196	DEY	1	PASI-G							

# **REPORT OF LABORATORY ANALYSIS**





# ANALYTICAL RESULTS

.

Project: N1866A05/003 MAUTHE

Pace Project No.: 404904

Sample: OUTFALL 001	Lab ID:	404904001	Collecte	d: 06/10/0	8 06:17	Received: 06	/10/08 11:45	Matrix: Water		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
7196 Chromium, Hexavalent	Analytica	I Method: EPA	7196							
Chromium, Hexavalent	<b>0.85</b> r	ng/L	0.057	0.017	5		06/10/08 15:0	00 18540-29-9		

Date: 06/12/2008 11:49 AM

# **REPORT OF LABORATORY ANALYSIS**





.

.

# QUALITY CONTROL DATA

Project:	N1866A05/003	MAUTH	łE										
Pace Project No.:	404904												
QC Batch:	WETA/1727			Analy	sis Method	l:	EPA 7196						
QC Batch Method:	EPA 7196			Analys	sis Descrip	tion:	7196 Chromi	ium, Hexav	alent				
Associated Lab Sam	nples: 4049040	001											
METHOD BLANK:	39044												
Associated Lab Sam	nples: 404904(	001											
Param	eter		Units	Blani Resu	k R It	eporting Limit	Qualifie	rs					
Chromium, Hexaval	ent	mg/L	-	<0.	.0034	0.01	1						
LABORATORY CON		: 3904	15				<u></u>	<u> </u>	<u></u>				
				Spike	LCS	6	LCS	% Rec	>				
Param	eter		Units	Conc.	Resu	ilt	% Rec	Limits	Q	ualifiers	_		
Chromium, Hexaval	ent	mg/L		3	3 - '	0.32	107	90	-110				
MATRIX SPIKE & M	ATRIX SPIKE D	UPLIC	ATE: 39046			39047				····			
Paramete	er	Units	404904001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Hexaval	ent mg	j/L	0.85	1.5	1.5	2.4	2.5	103	108	90-110	.3	20	
										'	``		

Date: 06/12/2008 11:49 AM

# **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..

nebc



# QUALIFIERS

Project: N1866A05/003 MAUTHE Pace Project No.: 404904

### 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.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

## **REPORT OF LABORATORY ANALYSIS**

Page 7 of 7



$\sim$	San	ple Con	ditior	n Upon R	leceipt		,
Pace Analytical"	Client Name:	OMNN	`/	Asencia		Proiect #	404904
(			·	123000			
Courier: 🔲 Fed Ex 🗍 UPS Tracking #:	S 🗌 USPS 🗍 Clien	t 🗌 Comm	nercial	Pace	Other	Option Proj D	al ue:Date:
Custody Seal on Cooler/Box	Present: yes	no	Seals	s intact: [	] yes 🗌	] no	ame:
Packing Material:  Bubble	≥ Wrap ⊟Bubble	Bags 🖂 I	None	Other			
Thermometer Used	Na	Type of Ice	: (Wet	Blue N	one	] Samples on ice, co	ooling process has begun
Cooler Temperature	ROI	Biological	Tissue	is Frozen:	Yes No	Date and Initia	als of person examining
Temp should be above freezing to	6°C			Comment	5:	contents: 4	
Chain of Custody Present:				1.			
Chain of Custody Filled Out:				2.			
Chain of Custody Relinquishe	d:			3.			
Sampler Name & Signature or	1 COC:			4		···	·
Samples Arrived within Hold T	ime:			5.		·	
Short Hold Time Analysis (<	72hr):			6. HEP	chron	$\wedge$	
Rush Turn Around Time Rec	luested:			7.		·····	
Sufficient Volume:				8.			
Correct Containers Used:			⊡n/a	9.			
-Pace Containers Used:					<u></u>		
Containers Intact:				10.			
Filtered volume received for D	issolved tests			11.			
Sample Labels match COC:				12.			
-Includes date/time/ID/Anal	ysis Matrix:	<u>W</u>					
All containers needing preservation I	have been checked.		⊡n/a	13.			
All containers needing preservation compliance with EPA recommendation	n are found to be in ation.	ØYes □No	□n/a			1	
exceptions: VOA, coliform, TOC, O&G	, WI-DRO (water)	OYes ONo		Initial when completed	$\sim$	Lot # of added preservative	
Samples checked for dechloring	nation:	OYes ONo		14.			
Headspace in VOA Vials ( >6n	n <b>m):</b>			15.			
Trip Blank Present:				16.			
Trip Blank Custody Seals Pres	ent	□Yes □No	. 🗆 N/A				
Pace Trip Blank Lot # (if purch	ased):	<u> </u>					
Client Notification/ Resolution						Field Data Required	1? Y / N
Person Contacted:			Date/	Гіте:			
Comments/ Resolution:							
				<u> </u>			
·				······			
				-	•	[,	IMAN
Project Manager Review:	m				<u> </u>	Date: <u> </u>	

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)

.

	(Please Print Clearly)								UPPER		EST RE	GION	1-1	Page	ot
Company Nar	me: OMNNI ASSOCIAT	<u>с</u> –				• 3			MN: 6	12-607-1	1700	WI: 920-469-2436	• .	1	131280
Branch/Locat	tion: APPLATON		ace		<b>IYTIC</b>								COC No.		
Project Conta	ACT: BRIAD WAYNER											Quote #:	MF	NOTHE	
Phone:	920/830-6141	_ ' <b>(</b>	CH/	<b>NΙ</b>	OF	: Cl	JSI	ΓΟ	DY			Mail To Contact:	BIETO	A WA	YNER
Project Numb	Der: N1866A05/003	A≖None B≖	ICL C	H2SO4	Preserva D=HNO3	tion Code E=DI V	es Vater F=	=Methan	ol G=Na	зон		Mall To Company:	0	うもう	
Project Name	" MALTHE	H=Sodium Bisu	fate Solui	ion	I=Sodiun	n Thiosulfa	ate J=	Other			ſ	Mail To Address:	ONE	System	S DRIVE
Project State:	: wi	FILTERED? (YES/NO)	Y/N	N									API	Charlon ,	W154914
Sampled By (	(Print): KOTAN WAYNER	PRESERVATION (CODE)*	Pick Letter	A								Invoice To Contact:	BRIT	- WAY	JER
Sampled By (	(Sign): Bind Wayner											Invoice To Company:	C M	<i>k</i> NNI	
PO #:	Regula Progra	tory im:	lested	51							ĺ	Invoice To Address:	_	NE	
Data Packa	age Options MS/MSD	Matrix Codes	Sequ	j ż								:	5	77	
	A Level III (billable) C = Charce	DW = Drinking Water al GW = Ground Water SW = Surface Water	/ses	470 670								Invoice To Phone:		7	
	A Level IV NOT needed on S = Soil your sample S = Soil SI = Sludg	WW = Waste Water	Analy	Hex Hex	h							CLIENT	LAB CO	OMMENTS	Profile #
PACE LAB #			ļ. ·	<u></u>	·	ļ						COMMENTS	(Lab L	Jse Only)	
001	OUTFALLOON %	olas 6:17 Gru	i'	X	ļ								1-23	OMCU	
			· .												
			1, <sup>10</sup> 2									!			
	· · ·		200 1 <b>2</b>												
			1												
			· · ·	-	1										
					<u> </u>									·· ····	
				1		·									
			-			<u> </u>									
				*	<u> </u>							······································			
			1.										·	·	
Rush Tu	urnaround Time Requested - Prelims	Relinquished By:	. )	<u>.</u>	, Da	ite/Time:			Reseived		1	Date/Time:		PACE	Project No.
(Rush	TAT subject to approval/surcharge) Date Needed:	Balinguished By:	Vays	<u> </u>	4/10/	08 7	: 16 4	$\sim$	$\mathcal{D}_{\cdot}$		rel	19 6/10/08	8:20	4140	104 1
Transmit Pre	elim Rush Results by (complete what you want):	D- Mel	Ľ	6/10	108	10/11110.	11:4	45	Receiver	Ľ.	$\square$	61008			
Email #1:		Relinquished By:		7.7	Da	ate/Time:			Received	d By:	<u> </u>	Date/Time:		Receipt Temp =	KG1 °C
Email #2: Telephone:		Relinguished By:				ate/Time:			Recoiver			Data		Sample	Kecelpt pH Adjusted
Fax:		i toiniquisneu by,			Ua	iter titte:			Received	ы бу:		Date/Time:		Cooler C	ustody Seal
•	Samples on HOLD are subject to	Relinquished By:			Da	ate/Time:			Received	d By:		Date/Time:		Present	Not Present
sp	ecial pricing and release of liability	L		·										Intact /	Not Intact



Pace Analytical Services, Inc. 1241 Believue Street Green Bay, WI 54302 (920)469-2436

June 17, 2008

Brian Wayner Omnni Associates, Inc. One Systems Drive Appleton, WI 549141654

RE: Project: N1866A05/003 MAUTHE Pace Project No.: 405215

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on June 17, 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,

Steven Mleczko

. . . . .

steve.mleczko@pacelabs.com Project Manager

Enclosures

**REPORT OF LABORATORY ANALYSIS** 





Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, WI 54302 (920)469-2436

### CERTIFICATIONS

Project: N1866A05/003 MAUTHE

Pace Project No.: 405215

**Green Bay Certification IDs** 

Florida (NELAP) Certification #: E87948 Illinois Certification #: 200050 California Certification #: 06246CA New York Certification #: 11888 North Dakota Certification #: R-150 North Carolina Certification #: 503

Green Bay Volatiles Certification IDs

Florida (NELAP) Certification #: E87951 California Certification #: 06247CA Illinois Certification #: 200051 New York Certification #: 11887 North Dakota Certification #: R-200 North Carolina Certification #: 503 Minnesota Certification #: 055-999-334 South Carolina Certification #: 83006001 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 Kentucky Certification #: 82 Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334 South Carolina Certification #: 83006001 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 Kentucky Certification #: 83 Louisiana Certification #: 04169

**REPORT OF LABORATORY ANALYSIS** 

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..

nelàc



# SAMPLE SUMMARY

Project:	N1866A05/003 MAUTHE			
Pace Project N	o.: 405215			
Lab ID	Sample ID	Matrix	Date Collected	Date Received
405215001	OUTFALL 001	Water	06/17/08 06:55	06/17/08 14:45

# **REPORT OF LABORATORY ANALYSIS**





Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, VI 54302 (920)469-2436

.

# SAMPLE ANALYTE COUNT

	Samplo ID	Method	Analysts	Analytes	Laboratory	
Project: Pace Project N	N1866A05/003 MAUTHE					

# **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..

nebč



.

# ANALYTICAL RESULTS

Project: N1	1866A05/003	MAUTHE								
Pace Project No.: 40	)5215									
Sample: OUTFALL 00	01	Lab ID:	405215001	Collecte	d: 06/17/08	8 06:55	Received: 0	6/17/08 14:45	Matrix: Water	
Parameters	s	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7196 Chromium, Hexa	ivalent	Analytical	Method: EPA	7196						
Chromium, Hexavalent		<b>1.4</b> n	n <b>g/L</b>	0.057	0.017	5		06/17/08 16:	11 18540-29-9	

Date: 06/17/2008 04:21 PM

# **REPORT OF LABORATORY ANALYSIS**





•

# QUALITY CONTROL DATA

Project:	N1866A05/0	03 MAUTH	E										
Pace Project No.:	405215												
QC Batch:	WETA/176	i1		Analys	sis Method	l :t	EPA 7196						
QC Batch Method:	EPA 7196			Analys	sis Descrij	ption:	7196 Chromiu	ım, Hexav	alent				
Associated Lab Sar	nples: 4052	215001											
METHOD BLANK:	41592												
Associated Lab Sar	nples: 4052	215001											
Paran	neter		Units	Blani Resu	c F It	Reporting Limit	Qualifier	s					
Chromium, Hexava	lent	mg/L			0034	0.01	1						
LABORATORY CO	NTROL SAM	PLE: 4159	3										
				Spike	LCS	S,	LCS	% Rec	;				
Param	neter		Units	Conc.	Res	uit	% Rec	Limits	Q	ualifiers			
Chromium, Hexava	lent	mg/L		.3		0.28	94	90	-110				
						:							
MATRIX SPIKE & N	ATRIX SPIK		TE: 41594			41595						·	
				MS	MSD								
			405215001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramet	er	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec _	Limits	RPD	RPD	Qual
Chromium, Hexaval	ent	mg/L	1.4	1.5	1.5	2.8	2.8	95	93	90-110	.9	20	

Date: 06/17/2008 04:21 PM

# REPORT OF LABORATORY ANALYSIS





# QUALIFIERS

Project: N1866A05/003 MAUTHE Pace Project No.: 405215

### 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.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Date: 06/17/2008 04:21 PM

# **REPORT OF LABORATORY ANALYSIS**

Page 7 of 7



Sa	mple Conditio	n Upon Receipt	ن العام
Pace Analytical Client Name	». <u>Omni A</u> s	sociates	Project # <u>405215</u>
Courier: [] Fed Ex [] UPS [] USPS [] Clie Tracking #:	ent 🗌 Commercial	Pace Other _	Optional Pröj. Due Date: Proj. Name:
Custody Seal on Cooler/Box Present:		s intact: 🗌 yes	no
Packing Material: Dubble Wrap Bubble	e Bags 闪 None	Other	
Thermometer Used NA	Type of Ice: We	t Blue None	Samples on ice, cooling process has begun
Cooler Temperature <u>ROI</u> Temp should be above freezing to 6°C	Biological Tissue	is Frozen: Yes No Comments:	Date and Initials of person examining contents:
Chain of Custody Present:		1.	
Chain of Custody Filled Out:		2.	
Chain of Custody Relinquished:		3.	
Sampler Name & Signature on COC:	Dyes DNO DN/A	4.	
Samples Arrived within Hold Time:	Yes DNO DN/A	5.	
Short Hold Time Analysis (<72hr):	Yes DNO DN/A	6. Nexchron p	
Rush Turn Around Time Requested:	Yes \$\NON/A	7.	
Sufficient Volume:		8.	
Correct Containers Used:		9.	
-Pace Containers Used:			
Containers Intact:		10.	
Filtered volume received for Dissolved tests		11.	
Sample Labels match COC:		12.	
-Includes date/time/ID/Analysis Matrix:	$\dot{\mathcal{W}}$		
All containers needing preservation have been checked.		13.	
All containers needing preservation are found to be in compliance with EPA recommendation.	□Yes □No □ÌYA		
exceptions: VOA, coliform, TOC, O&G, WI-DBO (water)	□Yes □No	Initial when completed	Lot # of added preservative
Samples checked for dechlorination:		14	
Headspace in VOA Vials ( >6mm):		15	
Trip Blank Present:		16.	······································
Trip Blank Custody Seals Present			
Pace Trip Blank Lot # (if purchased):		<u> </u>	
Client Notification/ Resolution:	<u> </u>		Field Data Required? Y / N
Person Contacted:	Date/	Time:	
Comments/ Resolution:			
	<u></u>		
			· · · · · · · · · · · · · · · · · · ·
	<u> </u>		
Project Manager Powiews			Date: 10/17/102

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) F-ALL-C-003-REV.3 (11Se

,

	( – 10	ase r	-rini Cieariy)		_1	_							UPPER		r RE	GION		Page 1	of (
Company Nar	me:	Or	UNNET AS	SOCIAT	TIS .	, <b>F</b>							<b>MN:</b> 61	12-607-170	0 1	NI: 920-469-2436		C	01001
Branch/Locat	tion:	ł	APPLATON			1	Pace	Ana	alytic						_		COC No.	L	131281
Project Conta	ict:	Ba	LIAN WAY	NER		/		www.p	60618 <i>0</i> 3.	com					/	Quote #:	N	AUTHR	
Phone:		G	120/830.614	11		(	CHA	<b>N</b>	OF	<b>- C</b>	US'	TO	DY		)/[	Mail To Contact:	BRIAN	, LUAYNU	2
Project Numb	er:	~	J1866A05/0	03		None B=	HCL C:	=H2SO4	Preserv D=HNO	ation Cod 3 E=DI	l <u>es</u> Water F	=Methan	ol G=Na	юн		Mail To Company:	Ome	VI Associ	ATES
Project Name	:		MAUTHR		н	Sodium Bisu	lifate Solu	tion	I=Sodiu	m Thiosull	ate J	=Other				Mail To Address:	one s	ystrms	DRIVE
Project State:	:		Lu1		FIL (Y	TERED? 'ES/NO)	Y/N	N									APPLA	70~, WI 51	1914
Sampled By (	Print):	1	BRIAN WA.	INCR	PRES ((	ERVATION	Pick: Letter	A								Invoice To Contact:	BRIAN	WAYNE	R
Sampled By (	(Sign):	ŀ	Bi of Way	pres												Invoice To Company:	٥	~~~~ (	
PO #:				Regulato Program	n:		stec	$ _{t}$							ſ	Invoice To Address:			
Data Packa	ige Opti	ons	MS/MSD	N	Matrix Coo	les	leque	13 5									Ś	APPR)	
	able) A Level I A Level I		On your sample (billable)	A = Air B = Biota C = Charcoal O = Oll	W = Wat DW = Dr GW = Gr SW = Su	er Inking Water ound Water rface Water	lyses R	AUAL								Invoice To Phone:		/	
PACE LAB #			your sample	S = Soil SI = Sludge C	WW = W WP = Wi OLLECTION	aste Water pe MATRIX	Ana	NHC)								CLIENT COMMENTS	LAB CC (Lab U	MMENTS se Only)	Profile #
m	4	507	FALL 00)	6/17	los 6:5	5 60		X		1						1-250 MA		<u></u>	
W.I								5											
		• •	<u>, , , , , , , , , , , , , , , , , , , </u>				1. t. a.												
									_										
								•											
							:+-		_										
									1										
								1										,	
							<u>'</u>									· · · · · · · · · · · · · · · · · · ·			
Rush Tu (Rush	urnarour TAT sut Date	nd Tim bject to Neede	e Requested - Pre papproval/surcharg ed:	lims F ge) F	Relinquished I	V Wa	yun		6/17/	ate/Time:	7:5	2 pm	Received A-2 Received	Bene Bene	pe D	n e Datertime: 11 Alpa D BaterTime:	0920	PACE Pro 405	oject No. 215
Transmit Pre Email #1:	elim Rush	Results	s by (complete what you	i want):	Relinquished	eng	per		16	Date/Time:	14	12			p	Male III	US PRD	Receipt Temp ≖	DU .01
Email #2:					/	U U		<del>_</del>						0		0		Sample R	ecelpt pH
Telephone: Fax:				F	Relinquished	Ву:			D	ate/Time:			Received	l By:		Date/Time:		OK / Ad	Ijusted VIII
- sp	Samples o ecial pricir	n HOLD ng and re	are subject to elease of liability	F	Relinquished	By:			D	ate/Time:		·	Received	з Ву:		Date/Time:		Present / N Intact / N	ot Present



Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, WI 54302 (920)469-2436

# RECEIVED

June 24, 2008

# OMNNI ASSOCIATES

Brian Wayner Omnni Associates, Inc. One Systems Drive Appleton, WI 549141654

RE: Project: MAUTHE OUTFALL N1866A05/003 Pace Project No.: 405500

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on June 24, 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,

Steven Mieczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

# REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



Page 1 of 8



,

# CERTIFICATIONS

Project:	MAUTHE OUTFALL N1866A05/003
Pace Project No.:	405500

Green Bay Certification IDs Florida (NELAP) Certification #: E87948 Illinois Certification #: 200050 California Certification #: 06246CA New York Certification #: 11888 North Dakota Certification #: R-150 North Carolina Certification #: 503	Minnesota Certification #: 055-999-334 South Carolina Certification #: 83006001 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 Kentucky Certification #: 82 Louisiana Certification #: 04168	<b>A</b> 1111 - <b>1</b> 11
Green Bay Volatiles Certification IDs Florida (NELAP) Certification #: E87951 California Certification #: 06247CA Illinois Certification #: 200051 New York Certification #: 11887 North Dakota Certification #: R-200	Minnesota Certification #: 055-999-334 South Carolina Certification #: 83006001 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 Kentucky Certification #: 83	
North Carolina Certification #: 503	Louisiana Certification #: 04169	

# **REPORT OF LABORATORY ANALYSIS**





# SAMPLE SUMMARY

Project: Pace Project N	MAUTHE OUTFALL N1866A05/003 No.: 405500			
Lab ID	Sample ID	Matrix	Date Collected	Date Received
405500001	OUTFALL 001	Water	06/24/08 07:11	06/24/08 09:50

# **REPORT OF LABORATORY ANALYSIS**





Pace Analytical Services, Inc. 1241 Believue Street Green Bay, WI 54302 (920)469-2436

...

÷

# SAMPLE ANALYTE COUNT

Project: Pace Project N	MAUTHE OUTFALL N1866A05/003 No.: 405500				
Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
405500001	OUTFALL 001	EPA 7196	RRS	1	PASI-G

# **REPORT OF LABORATORY ANALYSIS**



ace Analvtical

### **PROJECT NARRATIVE**

Project: MAUTHE OUTFALL N1866A05/003

Pace Project No.: 405500

Method:EPA 7196Description:7196 Chromium, HexavalentClient:OMNNI ASSOCIATES, INC.Date:June 24, 2008

### **General Information:**

1 sample was analyzed for EPA 7196. All samples were received in acceptable condition with any exceptions noted below.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### **Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### **Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

# **REPORT OF LABORATORY ANALYSIS**





•

.

# **ANALYTICAL RESULTS**

Project: MAUTHE OUTFALL N1866A05/003

Pace	Proie	ect No.:	405500	
Pace	Proje	ect No.:	405500	

۰,

Sample: OUTFALL 001	Lab ID:	405500001	Collecte	d: 06/24/0	8 07:11	Received: 06	5/24/08 09:50 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7196 Chromium, Hexavalent	Analytica	I Method: EPA	7196						
Chromium, Hexavalent	0.20	ng/L	0.011	0.0034	1		06/24/08 16:02	18540-29-9	в

Date: 06/24/2008 05:02 PM

# **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..

nebc

Page 6 of 8



# QUALITY CONTROL DATA

Project:	MAUTHE	OUTFALL N1	866A05/003										
Pace Project No.:	405500												
QC Batch:	WETA/18	317		Analys	sis Method	d: I	EPA 7196						
QC Batch Method:	EPA 719	6		Analys	sis Descrij	ption:	7196 Chromiu	m, Hexav	alent				
Associated Lab Sar	mples: 40	5500001		•									
METHOD BLANK:	44505	• • • • • • • • • • • • • • • • •			· · · · · · · · · · · · · · · · · · ·								
Associated Lab Sar	nples: 40	5500001											
				Blan	(F	Reporting							
Paran	neter		Units	Resu	lt	Limit	Qualifier	5					
Chromium, Hexava	lent	mg/L		(	0.012	0.01	1						
LABORATORY CO	NTROL SA	MPLE: 4450	6										
				Spike	LC	S	LCS	% Rec	:				
Paran	neter		Units	Conc.	Res	ult	% Rec	Limits	Qı	ualifiers			
Chromium, Hexava	lent	mg/L		.3		0.31	104	90	-110		-		
MATRIX SPIKE & M			TE: 44507			44508							
				MS	MSD								
		4	05506001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramet	er	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chromium, Hexava	lent	mg/L	0.16	.3	.3	0.46	0.46	102	101	90-110	.5	20	

Date: 06/24/2008 05:02 PM

# **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..

.

nebàč



Pace Analytical Services, Inc. 1241 Believue Street Green Bay, WI 54302 (920)469-2436

# QUALIFIERS

Project: MAUTHE OUTFALL N1866A05/003 Pace Project No.: 405500

### 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.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

# **REPORT OF LABORATORY ANALYSIS**

Page 8 of 8



Sar	nple Condition	n Upon Receipt		
Pace Analytical Client Name	: <u>Ouni</u> A	ssociates	Project #_	405500
Courier: 🔲 Fed Ex 🔲 UPS 🗍 USPS 🗍 Clier	nt 🗌 Commercial	Pace Other	Optic	nal and the second second
Tracking #:	\		Proj. Proj.	DuelDatear + = Name
Custody Seal on Cooler/Box Present:		s intact: 🗌 yes 🗌	] no	
Packing Material: Dubble Wrap Dubble	Bags None	Other		
Thermometer Used	Type of Ice: Wet	Blue None	Samples on ice,	cooling process has begun
Cooler Temperature	Biological Tissue	e is Frozen: Yes No	Date and Ini contents:_	11alsiot person examining
Temp should be above freezing to 6°C		Comments:		
Chain of Custody Present:		1.	<u> </u>	
Chain of Custody Filled Out:	Dives ONO ON/A	2.		
Chain of Custody Relinquished:		3		
Sampler Name & Signature on COC:	Dixes DNO DN/A	4.	··· ···	
Samples Arrived within Hold Time:	Yes No ON/A	5.		
Short Hold Time Analysis (<72hr):	Dixes []NO []N/A	6. hexprome		<u> </u>
Rush Turn Around Time Requested:	Dyes DNO DN/A	7		<u></u>
Sufficient Volume:	Yes DNO DNA	8		····
Correct Containers Used:	Dixes []No []N/A	9.		
-Pace Containers Used:	Dixes INO IN/A			
Containers Intact:	Dives DNO DN/A	10.		
Filtered volume received for Dissolved tests	Dyes DNO DNA	11.		
Sample Labels match COC:		12.		
-Includes date/time/ID/Analysis Matrix:	Ŵ			
All containers needing preservation have been checked.		13.		
All containers needing preservation are found to be in compliance with EPA recommendation.	CYes DNO DAKA		- <b>-</b>	
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):		15.		<u> </u>
Trip Blank Present:		16.		
Trip Blank Custody Seals Present	DYes DNO DINA			
Pace Trip Blank Lot # (if purchased):	-			
Client Notification/ Resolution:			Field Data Requi	red? Y / N
Person Contacted:	Date/	Time:		
Comments/ Resolution:				
			<u> </u>	
			<u> </u>	
Project Manager Review:		- <u></u>	Date:	6/24/0P

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)

(Please Print Clearly)					UPPER MIDWEST REGION												Page 1 of		
Company Name: OM NNI ASSOCIATES					<b>/</b>		A	L	- 1 <sup>®</sup>	WI: 920-469-2436		Ω	31282						
, Branch/Locatic	/Location: APPLATON														(				
Project Contact: BRIAN WAYNER														Quote #:	MAUTHE				
Phone: 920/830-6141				CHAIN OF CUSTODY											Mail To Contact:	BRIA	N WAYN	DRR	
Project Number: NIRCLADS/007				A=No	one B=H	ICL C=	H2SO4	Preserva	E=DI W	<u>s</u> ∕ater F	=Methan		Mail To Company:	an	INI Pose	CIATES			
Project Name: MARTUE				H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other											Mall To Address:	ONE	SYSTEMS	DRIVE	
Project State:			FILTE	Y/N	Y/N N									APPL	RETON, WI	54914			
Sampled By (P	Print):	Ra ( ) and (			PRESERVATION (CODE)*		A								Invoice To Contact:	Ro		n R	
Sampled By (S	Sign):	R: DIL					<u> </u>								Invoice To Company:		MAL VORY		
PO #:		Regulate													Invoice To Address:	0			
Dete Baekog		MS/MSD	Program	i:		dues	らき										CAME		
(billab	ble)	On your sample	e A = Air B = Biota	W = Water DW = Drinki	no Water	Re	210	1											
EPA Level III (billable) C = Charcos			GW ≈ Grou SW ≈ Surfa	lyse									Invoice To Phone:						
		your sample s		WW = Wast WP = Wipe	WW = Waste Water WP = Wipe		U E								CLIENT	LAB COMMENTS Profile #			
PACE LAB #	CL	IENT FIELD ID	DATI		MATRIX			ļ							COMMENTS	(Lab l	Use Only)		
001	OUTF	FALL OOL	4/24	11:17 80	GW		$ $ $\ge$								1-250M1#				
	<u> </u>				<u> </u>										·····				
						i ugi	<b> </b>												
			· .		Ļ	4		ļ	ļ										
					ļ		ļ		<b> </b>							·	· · · · · · · · · · · · · · · · · · ·		
	<u></u>																		
						. 15													
													_						
		·····				5													
								1											
Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:					Relinquished By: Date/Time:								Received By: Date/Time:				PACE Project No.		
					elinguished By:				/1/08 1:52 / Date/Time:			Received By:		<u>ue</u>			405500		
Transmit Prelim Rush Results by (complete what you want):					D- Mielly 4/24/08 9:50							JUNEL BANKLY 10/2			SMULL 10/24	De viec	Receipt Temp =	TA1 °C	
Email #1: Email #2:		elinquished By: / Date/Time:								Recēlved By: U U Date/Time:				Sample F	Receipt pH				
Telephone:		telinquished By: Date/Time:								Received By: Date/Time:			Date/Time:		OK / Adjusted				
Fax: Samples on HOLD are subject to Reli				elinguished By: Date/Time fr								Receiver	Received Rv: Date/Time:				Cooler Custody Sea Present / Not Present		
special pricing and release of liability																	Intact / Rot Intact		