Stoltz, Carrie R - DNR

From: Eaton, John M - DNR

Sent: Friday, April 26, 2024 11:33 AM

To: Stoltz, Carrie R - DNR **Subject:** FW: Stormwater Results

Attachments: Stormwater Sample Results 2021.pdf; Stormwater Sample Results 2020.pdf; Stormwater Sample

Results 2019.pdf; Stormwater Sample Results.pdf

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John Eaton

Phone: 715-491-4092 John.eaton@wisconsin.gov

From: Jean Leader < jleader@comrecycling.net> Sent: Wednesday, June 28, 2023 9:07 AM

To: Eaton, John M - DNR < john.eaton@wisconsin.gov>

Subject: Stormwater Results

CAUTION: This email originated from outside the organization.

Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi John,

Per our conversation, I have attached the past testing results for you.

Jean'

Jean Leader

Safety and Compliance Coordinator | Commercial Recycling Corporation P 715.748.2970 E <u>ileader@comrecycling.net</u>
A W6779 State Hwy 64, Medford, WI 54451





November 20, 2018

Brian Bailey REI Engineering 4080 North 20th Ave Wausau, WI 54401

RE: Project: 8114 COMMERCIAL RECYCLING CORP

Pace Project No.: 40179089

Dear Brian Bailey:

Enclosed are the analytical results for sample(s) received by the laboratory on November 07, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

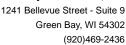
Sincerely,

1/M

Steven Mleczko for Brian Basten brian.basten@pacelabs.com (920)469-2436 Project Manager

Enclosures







CERTIFICATIONS

Project: 8114 COMMERCIAL RECYCLING CORP

Pace Project No.: 40179089

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485

A2LA Certification #: 2926.01 Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064 Arizona Certification #: AZ0014 Arkansas DW Certification #: MN00064 Arkansas WW Certification #: 88-0680 California Certification #: 2929 CNMI Saipan Certification #: MP0003 Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-

053-137

Florida Certification #: E87605 Georgia Certification #: 959

Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064

Maryland Certification #: 322

Maine Certification #: MN00064

Massachusetts Certification #: M-MN064 Michigan Certification #: 9909

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky UST Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 12064 North Dakota Certification #: R-150 Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647

North Carolina DW Certification #: 27700 North Carolina WW Certification #: 530 North Dakota Certification #: R-036 Ohio DW Certification #: 41244 Ohio VAP Certification #: CL101 Oklahoma Certification #: 9507

Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382

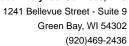
Wyoming UST Certification #: via A2LA 2926.01

Wisconsin Certification #: 999407970

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001 Texas Certification #: T104704529-14-1 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0



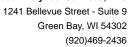


SAMPLE SUMMARY

Project: 8114 COMMERCIAL RECYCLING CORP

Pace Project No.: 40179089

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40179089001	OUTFALL	Water	11/06/18 07:30	11/07/18 09:10





SAMPLE ANALYTE COUNT

Project: 8114 COMMERCIAL RECYCLING CORP

Pace Project No.: 40179089

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40179089001	OUTFALL	EPA 6010	TXW	7	PASI-G
		EPA 120.1	DEY	1	PASI-G
		EPA 1664A OG	AR3	1	PASI-M
		SM 2540D	KTS	1	PASI-G
		SM 5210B	DDY	1	PASI-G
		EPA 9040	ALY	1	PASI-G
		EPA 410.4	TJJ	1	PASI-G



ANALYTICAL RESULTS

Project: 8114 COMMERCIAL RECYCLING CORP

Pace Project No.: 40179089

Date: 11/20/2018 02:20 PM

Sample: OUTFALL	Lab ID:	40179089001	Collected:	11/06/18	07:30	Received: 11/	07/18 09:10 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical	Method: EPA 6	010 Prepara	tion Metho	od: EPA	3010			
Aluminum	1170	ug/L	500	55.5	1	11/15/18 14:15	11/16/18 16:35	7429-90-5	
Arsenic	<8.3	ug/L	25.0	8.3	1	11/15/18 14:15	11/16/18 16:35	7440-38-2	
Chromium	4.3J	ug/L	10.0	2.5	1	11/15/18 14:15	11/16/18 16:35	7440-47-3	
Copper	9.3J	ug/L	20.0	6.3	1	11/15/18 14:15	11/16/18 16:35	7440-50-8	
Iron	1680	ug/L	246	73.9	1	11/15/18 14:15	11/16/18 16:35		
Lead	<5.9	ug/L	19.7	5.9	1	11/15/18 14:15	11/16/18 16:35		
Zinc	116	ug/L	40.0	11.6	1	11/15/18 14:15	11/16/18 16:35	7440-66-6	
120.1 Specific Conductance	Analytical	Method: EPA 1	20.1						
Specific Conductance @ 25C	55.4	umhos/cm	6.0	1.8	1		11/14/18 10:03		
1664A HEM, Oil and Grease	Analytical	Method: EPA 1	664A OG						
Oil and Grease	2.5J	mg/L	4.9	1.5	1		11/13/18 12:17		
2540D Total Suspended Solids	Analytical	Method: SM 25	540D						
Total Suspended Solids	16.2	mg/L	2.0	0.95	1		11/08/18 11:05		
5210B BOD, 5 day	Analytical	Method: SM 52	210B Prepara	ation Meth	od: SM	5210B			
BOD, 5 day	13.4	mg/L	6.0	6.0	3	11/07/18 10:25	11/12/18 12:08		
9040 pH	Analytical	Method: EPA 9	040						
pH at 25 Degrees C	6.8	Std. Units	0.10	0.010	1		11/09/18 08:57		H6
410.4 COD	Analytical	Method: EPA 4	10.4 Prepara	ation Meth	od: EPA	A 410.4			
Chemical Oxygen Demand	60.5	mg/L	44.8	13.4	1	11/14/18 06:37	11/14/18 10:18		



Project: 8114 COMMERCIAL RECYCLING CORP

Pace Project No.: 40179089

Date: 11/20/2018 02:20 PM

QC Batch: 306750 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET

Associated Lab Samples: 40179089001

METHOD BLANK: 1793839 Matrix: Water

Associated Lab Samples: 40179089001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<55.5	500	11/16/18 16:11	
Arsenic	ug/L	<8.3	25.0	11/16/18 16:11	
Chromium	ug/L	<2.5	10.0	11/16/18 16:11	
Copper	ug/L	<6.3	20.0	11/16/18 16:11	
Iron	ug/L	<73.9	246	11/16/18 16:11	
Lead	ug/L	<5.9	19.7	11/16/18 16:11	
Zinc	ug/L	<11.6	40.0	11/16/18 16:11	

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
minum	ug/L	5000	5020	100	80-120	
nic	ug/L	500	488	98	80-120	
mium	ug/L	500	499	100	80-120	
per	ug/L	500	508	102	80-120	
	ug/L	5000	5040	101	80-120	
	ug/L	500	486	97	80-120	
	ug/L	500	504	101	80-120	

MATRIX SPIKE & MATRIX SP	IKE DUPLICA	TE: 17938	41		1793842							
			MS	MSD								
	4	0179009001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Aluminum	ug/L	<55.5	5000	5000	5120	5170	102	103	75-125	1	20	
Arsenic	ug/L	<8.3	500	500	480	505	96	101	75-125	5	20	
Chromium	ug/L	<2.5	500	500	499	514	100	103	75-125	3	20	
Copper	ug/L	<6.3	500	500	493	516	98	103	75-125	5	20	
Iron	ug/L	192J	5000	5000	5330	5450	103	105	75-125	2	20	
Lead	ug/L	<5.9	500	500	493	505	98	101	75-125	2	20	
Zinc	ug/L	<11.6	500	500	519	531	102	104	75-125	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: 8114 COMMERCIAL RECYCLING CORP

Pace Project No.: 40179089

QC Batch: 306515 Analysis Method: EPA 120.1

QC Batch Method: EPA 120.1 Analysis Description: 120.1 Specific Conductance

Associated Lab Samples: 40179089001

METHOD BLANK: 1792616 Matrix: Water

Associated Lab Samples: 40179089001

Parameter Units Result Limit Analyzed Qualifiers

Specific Conductance @ 25C umhos/cm <1.8 6.0 11/14/18 10:00

LABORATORY CONTROL SAMPLE: 1792617

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Specific Conductance @ 25C umhos/cm 628 640 102 80-120

SAMPLE DUPLICATE: 1792618

Date: 11/20/2018 02:20 PM

40179089001 Dup Max **RPD RPD** Qualifiers Parameter Units Result Result Specific Conductance @ 25C 55.4 20 55.0 1 umhos/cm

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



EPA 1664A OG

Analysis Method:

Project: 8114 COMMERCIAL RECYCLING CORP

Pace Project No.: 40179089

QC Batch: 575136

QC Batch Method: EPA 1664A OG Analysis Description: 1664A HEM, Oil and Grease

Associated Lab Samples: 40179089001

METHOD BLANK: 3121875 Matrix: Water

Associated Lab Samples: 40179089001

Parameter Units Result Limit Analyzed Qualifiers

Oil and Grease mg/L <1.5 5.0 11/13/18 10:52

LABORATORY CONTROL SAMPLE: 3121876

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Oil and Grease mg/L 40 38.2 96 78-114

MATRIX SPIKE SAMPLE: 3121877

MS 10454601001 Spike MS % Rec Parameter Units Result Conc. Result % Rec Limits Qualifiers 517 421 Oil and Grease 38.5 -247 78-114 M1 mg/L

SAMPLE DUPLICATE: 3121878

Date: 11/20/2018 02:20 PM

 Parameter
 Units
 Result Result Result RPD
 Max RPD
 Qualifiers

 Oil and Grease
 mg/L
 ND
 8.6J
 18

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: 8114 COMMERCIAL RECYCLING CORP

Pace Project No.: 40179089

QC Batch: 305868 Analysis Method: SM 2540D

QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 40179089001

METHOD BLANK: 1787832 Matrix: Water

Associated Lab Samples: 40179089001

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Total Suspended Solids mg/L <0.48 1.0 11/08/18 11:05

LABORATORY CONTROL SAMPLE: 1787833

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers 110 **Total Suspended Solids** mg/L 100 110 80-120

SAMPLE DUPLICATE: 1787834

40179093001 Dup Max **RPD RPD** Parameter Units Result Result Qualifiers 340 0 5 **Total Suspended Solids** 340 mg/L

SAMPLE DUPLICATE: 1787835

Date: 11/20/2018 02:20 PM

40179097004 Dup Max RPD RPD Parameter Units Result Result Qualifiers 200 5 R1 Total Suspended Solids mg/L 180 11

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Analysis Method:

Project: 8114 COMMERCIAL RECYCLING CORP

Pace Project No.: 40179089

QC Batch: 305766

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

SM 5210B

Associated Lab Samples: 40179089001

METHOD BLANK: 1786899 Matrix: Water

Associated Lab Samples: 40179089001

Blank Reporting
Parameter Units Result Limit

 Parameter
 Units
 Result
 Limit
 Analyzed
 Qualifiers

 BOD, 5 day
 mg/L
 <2.0</td>
 2.0
 11/12/18 11:55

METHOD BLANK: 1786905 Matrix: Water

Associated Lab Samples: 40179089001

Date: 11/20/2018 02:20 PM

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

BOD, 5 day mg/L <2.0 2.0 11/12/18 12:30

LABORATORY CONTROL SAMPLE & LCSD: 1786902 Spike LCS LCSD LCS LCSD % Rec Max Parameter Units Conc. Result Result % Rec % Rec Limits RPD RPD Qualifiers

BOD, 5 day mg/L 198 224 222 113 112 84.6-115 1 20

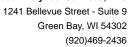
LABORATORY CONTROL SAMPLE & LCSD: 1786901 1786904 LCS Spike **LCSD** LCS LCSD % Rec Max **RPD RPD** Qualifiers Parameter Units Conc. Result Result % Rec % Rec Limits

BOD, 5 day mg/L 198 224 226 113 114 84.6-115 1 20

Parameter Units Result Result RPD RPD Qualifiers

BOD, 5 day mg/L 765 723 6 20

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.





Project: 8114 COMMERCIAL RECYCLING CORP

Pace Project No.: 40179089

QC Batch: 306003 Analysis Method: EPA 9040
QC Batch Method: EPA 9040 Analysis Description: 9040 pH

Associated Lab Samples: 40179089001

SAMPLE DUPLICATE: 1788832

Date: 11/20/2018 02:20 PM

40178431002 Dup Max Parameter Units Result Result **RPD** RPD Qualifiers 7.5 pH at 25 Degrees C Std. Units 7.5 20 H6 0

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: 8114 COMMERCIAL RECYCLING CORP

Pace Project No.: 40179089

Date: 11/20/2018 02:20 PM

QC Batch: 306468 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD

Associated Lab Samples: 40179089001

METHOD BLANK: 1792426 Matrix: Water

Associated Lab Samples: 40179089001

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Chemical Oxygen Demand mg/L <13.4 44.8 11/14/18 10:18

LABORATORY CONTROL SAMPLE: 1792427

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Chemical Oxygen Demand mg/L 500 497 99 90-110

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1792428 1792429

MS MSD 40179092001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual Chemical Oxygen Demand 526 97 90-110 3 mg/L <14.2 526 519 537 101 10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1792430 1792431

MS MSD 40179092002 MS MSD MS MSD Spike Spike % Rec Max Parameter Units Conc. % Rec RPD Result Conc. Result Result % Rec Limits RPD Qual Chemical Oxygen Demand <14.2 526 526 530 528 99 99 90-110 0 10 mg/L

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: 8114 COMMERCIAL RECYCLING CORP

Pace Project No.: 40179089

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay
PASI-M Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: 575136

[BE] Batch extracted by solid phase extraction (SPE).

ANALYTE QUALIFIERS

Date: 11/20/2018 02:20 PM

H6 Analysis initiated outside of the 15 minute EPA required holding time.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

(920)469-2436



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 8114 COMMERCIAL RECYCLING CORP

Pace Project No.: 40179089

Date: 11/20/2018 02:20 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
40179089001	OUTFALL	EPA 3010	306750	EPA 6010	306916
40179089001	OUTFALL	EPA 120.1	306515		
40179089001	OUTFALL	EPA 1664A OG	575136		
40179089001	OUTFALL	SM 2540D	305868		
40179089001	OUTFALL	SM 5210B	305766	SM 5210B	306266
40179089001	OUTFALL	EPA 9040	306003		
40179089001	OUTFALL	EPA 410.4	306468	EPA 410.4	306508

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Project Contact: Utha Dem l		1			ačelabs.c			,	46	m		Quote #:	T (0)	1701	<u>е</u> В
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# **Sample Preservation Receipt Form**

Cli	ent	: Na	me	: _ `	RE								_	Ĭ	Pre	ojec	t #	4	01	790	gey												Green Bay, \
	Allo	ontair	ners n	eedin	g pres	ervati	on ha	ve be	en ch		l and r				s pNo	ωN/	4					n (if p	H adji	usted)	:					l when pleted:	W	Date/ Time:	
		Towns and the second		Glas	s				selverbere E Enterne		Plast	tic					Vi	ials				Jars		G	ener	al	(>6mm) *	52	Act pH ≥9	:12	53	justed	Volume
Pace Lab#	AG1U	AG1H	AG4S	AG4U	AGSU	AG2S	BG3U	BP1U	BP2N	BP2Z	врзи	врзс	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	N O	Vials	HZSO4 pH	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH <2	oH after adjusted	(mL)
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Pace Analytical

1241 Bellevue Street, Green Bay, WI 54302

Document Name: Sample Condition Upon Receipt (SCUR)

Document Revised: 25Apr2018
Issuing Authority:

Document No.: F-GB-C-031-Rev.07

Pace Green Bay Quality Office

# Sample Condition Upon Receipt Form (SCUR)

n	T-1			Project #	1104 - 4	<b>0470000</b>
Client Name:	上				WU# · 4	0179089
Courier: ☐ CS Logistics ☐	Fed Ex   Speed	ee 🗀	JPS_F	Waltco		
Г Client Г	Pace Other:				40179089	
Tracking #:	389090	1			10173003	
Custody Seal on Cooler/Bo	x Present: F yes	Fno S	Seals int	act: Tyes Tino		
<b>Custody Seal on Samples F</b>				act: 「 yes 「 no		
	ble Wrap F Bubl	_		one 「Other _		
Thermometer Used SR			fice ( W	let Blue Dry None	Samples on	ice, cooling process has begun
<b>"</b>	corr: /Corr: K					
•	yes_f_no	ŧ	Biologic	al Tissue is Frozen:	yesi no	Person examining contents:
Temp should be above freezing t Biota Samples may be received						Initials:
Chain of Custody Present:		Yes [	JNo □	N/A 1.		
Chain of Custody Filled Out:		EYes [	□No □	N/A 2.		
Chain of Custody Relinquishe	ed:	Yes I	⊒No □	N/A 3. no time	2	ask Whis
Sampler Name & Signature o	on COC:	ZYes (		N/A 4.		
Samples Arrived within Hold	Time:	ØYes ∣	∃No	5.		
- VOA Samples frozer	upon receipt	□Yes, [	□No	Date/Time:		
Short Hold Time Analysis (	<72hr):	ØYes [	∃No	6.		
Rush Turn Around Time Re	quested:	□Yes↓	⊴No	7.		
Sufficient Volume:				8.		
For Analysis: 🗷 🗸	res 🗆 No MS/MSD	): □Yes _I	a‰ □	N/A		
Correct Containers Used:		∠ETYes [	□No	9.	:	
-Pace Containers Used:		∠ZiYes [	JNo □	N/A		
-Pace IR Containers Used	<b>!</b> :	□Yes [		N/A		÷
Containers Intact:		ÆlYes [	JNo	10.		
Filtered volume received for [	Dissolved tests	□Yes [		MA 11.		
Sample Labels match COC:		ÆYes [		N/A 12.		
-Includes date/time/ID/Ana	alysis Matrix:	W				•
Trip Blank Present:		□Yes [	JNo Æ	N/A 13.		
Trip Blank Custody Seals Pre	sent		JNo ⊿	/		
Pace Trip Blank Lot # (if purc			-			
Client Notification/ Resoluti		······································	·····	if	checked, see attache	ed form for additional comments
Person Contacted:		·····	Da	ite/Time:	·······	•
Comments/ Resolution:	***************************************					
		•				
						<u></u>
Project Manager Review:			61		Date:	11-7-18
			11			





December 06, 2019

Jason Christopherson REI 4080 N. 20th Ave Wausau, WI 54401

RE: Project: 8114 COMMERCIAL RECYCLING CORP

Pace Project No.: 40199708

### Dear Jason Christopherson:

Enclosed are the analytical results for sample(s) received by the laboratory on November 22, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

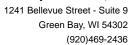
Sincerely,

Brian Basten brian.basten@pacelabs.com (920)469-2436

Project Manager

Enclosures







#### **CERTIFICATIONS**

Project: 8114 COMMERCIAL RECYCLING CORP

Pace Project No.: 40199708

**Pace Analytical Services Minneapolis** 

A2LA Certification #: 2926.01 Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064 Arizona Certification #: AZ0014 Arkansas DW Certification #: MN00064 Arkansas WW Certification #: 88-0680 California Certification #: 2929

CNMI Saipan Certification #: MP0003 Colorado Certification #: MN00064 Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-

053-137

Florida Certification #: E87605 Georgia Certification #: 959 Guam EPA Certification #: MN00064 Hawaii Certification #: MN00064

Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086

Maine Certification #: MN00064 Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Louisiana DW Certification #: MN00064

Massachusetts DWP Certification #: via MN 027-053-137

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647

North Carolina DW Certification #: 27700 North Carolina WW Certification #: 530 North Dakota Certification #: R-036 Ohio DW Certification #: 41244 Ohio VAP Certification #: CL101 Oklahoma Certification #: 9507

Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: WN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C

Wyoming UST Certification #: via A2LA 2926.01

Wisconsin Certification #: 999407970

#### Pace Analytical Services Green Bay

1241 Believue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky UST Certification #: 82

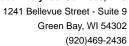
Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001 Texas Certification #: T104704529-14-1 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0



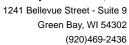


### **SAMPLE SUMMARY**

Project: 8114 COMMERCIAL RECYCLING CORP

Pace Project No.: 40199708

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40199708001	OUTFALL	Water	11/21/19 07:30	11/22/19 09:20





### **SAMPLE ANALYTE COUNT**

Project: 8114 COMMERCIAL RECYCLING CORP

Pace Project No.: 40199708

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40199708001	OUTFALL	EPA 200.7	TXW	7	PASI-G
		EPA 120.1	DEY	1	PASI-G
		EPA 1664B OG	JER	1	PASI-M
		SM 2540D	JXM	1	PASI-G
		SM 4500-H+B	ALY	1	PASI-G
		SM 5210B	EXM	1	PASI-G
		EPA 410.4	TJJ	1	PASI-G



### **ANALYTICAL RESULTS**

Project: 8114 COMMERCIAL RECYCLING CORP

Pace Project No.: 40199708

Date: 12/06/2019 12:44 PM

Sample: OUTFALL	Lab ID:	40199708001	Collected:	11/21/19	07:30	Received: 11/	22/19 09:20 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytica	l Method: EPA 2	00.7 Prepara	ation Meth	od: EP/	A 200.7			
Aluminum	674	ug/L	500	90.3	1	11/25/19 05:38	11/25/19 14:59	7429-90-5	
Arsenic	<8.3	ug/L	25.0	8.3	1	11/25/19 05:38	11/25/19 14:59	7440-38-2	
Chromium	<2.5	ug/L	10.0	2.5	1	11/25/19 05:38	11/25/19 14:59	7440-47-3	
Copper	9.7J	ug/L	11.2	3.4	1	11/25/19 05:38			
Iron	928	ug/L	117	35.2	1	11/25/19 05:38	11/25/19 14:59		
Lead	<5.9	ug/L	19.7	5.9	1	11/25/19 05:38			
Zinc	73.4	ug/L	40.0	11.6	1	11/25/19 05:38	11/25/19 14:59	7440-66-6	
120.1 Specific Conductance	Analytica	l Method: EPA 1	20.1						
Specific Conductance @ 25C	84.6	umhos/cm	6.0	1.8	1		11/26/19 10:50		
1664B HEM, Oil and Grease	Analytica	l Method: EPA 1	664B OG						
Oil and Grease	<1.5	mg/L	5.0	1.5	1		12/04/19 08:27		
2540D Total Suspended Solids	Analytica	l Method: SM 25	540D						
Total Suspended Solids	15.0	mg/L	2.4	1.1	1		11/26/19 12:16		
4500H+ pH, Electrometric	Analytica	l Method: SM 45	500-H+B						
pH at 25 Degrees C	7.0	Std. Units	0.10	0.010	1		11/26/19 10:39		H6
5210B BOD, 5 day	Analytica	l Method: SM 52	210B Prepara	ation Meth	od: SM	5210B			
BOD, 5 day	15.2	mg/L	5.0	5.0	2.5	11/22/19 11:50	11/27/19 11:36		
410.4 COD	Analytica	l Method: EPA 4	10.4 Prepara	ation Meth	od: EP	A 410.4			
Chemical Oxygen Demand	69.9	mg/L	50.0	14.7	1	12/03/19 05:33	12/03/19 09:24		



Project: 8114 COMMERCIAL RECYCLING CORP

Pace Project No.: 40199708

Date: 12/06/2019 12:44 PM

QC Batch: 341668 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 MET

Associated Lab Samples: 40199708001

METHOD BLANK: 1984962 Matrix: Water

Associated Lab Samples: 40199708001

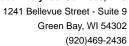
Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<90.3	500	11/25/19 13:51	
Arsenic	ug/L	<8.3	25.0	11/25/19 13:51	
Chromium	ug/L	<2.5	10.0	11/25/19 13:51	
Copper	ug/L	<3.4	11.2	11/25/19 13:51	
Iron	ug/L	<35.2	117	11/25/19 13:51	
Lead	ug/L	<5.9	19.7	11/25/19 13:51	
Zinc	ug/L	<11.6	40.0	11/25/19 13:51	

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
minum	ug/L	5000	4950	99	85-115	
enic	ug/L	500	489	98	85-115	
omium	ug/L	500	459	92	85-115	
per	ug/L	500	476	95	85-115	
	ug/L	5000	4950	99	85-115	
	ug/L	500	501	100	85-115	
	ug/L	500	489	98	85-115	

	4	0199550001	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Aluminum	ug/L	<90.3	5000	5000	4880	4970	97	99	70-130	2	20	
Arsenic	ug/L	<8.3	500	500	485	488	97	98	70-130	1	20	
Chromium	ug/L	<2.5	500	500	460	468	92	93	70-130	2	20	
Copper	ug/L	50.6	500	500	530	534	96	97	70-130	1	20	
Iron	ug/L	258	5000	5000	5130	5140	97	98	70-130	0	20	
Lead	ug/L	<5.9	500	500	489	500	97	100	70-130	2	20	
Zinc	ug/L	35.6J	500	500	506	519	94	97	70-130	2	20	

MATRIX SPIKE & MATRIX SP	IKE DUPLIC	CATE: 1984	966		1984967							
			MS	MSD								
	4	10199669001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Aluminum	ug/L	0.77 mg/L	5000	5000	5960	5700	104	99	70-130	4	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.





Project: 8114 COMMERCIAL RECYCLING CORP

Pace Project No.: 40199708

Date: 12/06/2019 12:44 PM

MATRIX SPIKE & MATRIX	SPIKE DUPL	ICATE: 1984	MS MS	MSD	1984967							
		40199669001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Arsenic	ug/L	0.015J mg/L	500	500	550	531	107	103	70-130	3	20	
Chromium	ug/L	0.41 mg/L	500	500	878	824	93	83	70-130	6	20	
Copper	ug/L	0.22 mg/L	500	500	717	677	100	92	70-130	6	20	
Iron	ug/L	20.6 mg/L	5000	5000	25800	24600	104	80	70-130	5	20	
Lead	ug/L	0.056 mg/L	500	500	545	522	98	93	70-130	4	20	
Zinc	ug/L	0.83 mg/L	500	500	1340	1290	102	92	70-130	4	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: 8114 COMMERCIAL RECYCLING CORP

Pace Project No.: 40199708

QC Batch: 341896 Analysis Method: EPA 120.1

QC Batch Method: EPA 120.1 Analysis Description: 120.1 Specific Conductance

Associated Lab Samples: 40199708001

METHOD BLANK: 1985752 Matrix: Water

Associated Lab Samples: 40199708001

Parameter Units Result Limit Analyzed Qualifiers

Specific Conductance @ 25C umhos/cm <1.8 6.0 11/26/19 10:39

LABORATORY CONTROL SAMPLE: 1985753

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Specific Conductance @ 25C umhos/cm 608 624 103 90-110

SAMPLE DUPLICATE: 1985754

Date: 12/06/2019 12:44 PM

40199575001 Dup Max **RPD RPD** Parameter Units Result Result Qualifiers Specific Conductance @ 25C 80200 83100 4 20 umhos/cm

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: 8114 COMMERCIAL RECYCLING CORP

Pace Project No.: 40199708

QC Batch:

647899

QC Batch Method: EPA 1664B OG

Analysis Method: Analysis Description: EPA 1664B OG

1664B HEM, Oil and Grease

Associated Lab Samples: 40199708001

Parameter

METHOD BLANK: 3485762 Matrix: Water

Associated Lab Samples:

40199708001

Blank Result

Reporting

Limit

Analyzed

Qualifiers

Oil and Grease

Oil and Grease

Oil and Grease

Oil and Grease

Units mg/L

mg/L

Units

mg/L

mg/L

<1.5

5.0 12/04/19 08:27

LABORATORY CONTROL SAMPLE: 3485763

Parameter

Units

Spike Conc. 40

LCS Result

ND

LCS % Rec % Rec Limits

Qualifiers

MATRIX SPIKE SAMPLE:

3485764

Parameter

Parameter

10500817001 Result

Spike Conc.

40.8

<1.5

36.0

MS Result

90

MS % Rec

78-114

% Rec Limits

78-114

Qualifiers

SAMPLE DUPLICATE: 3485765

Date: 12/06/2019 12:44 PM

Units

10500411001 Result

<1.4

Dup Result

RPD

33.8

Max RPD

81

18

Qualifiers

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: 8114 COMMERCIAL RECYCLING CORP

Pace Project No.: 40199708

QC Batch: 341870 Analysis Method: SM 2540D

QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 40199708001

METHOD BLANK: 1985683 Matrix: Water

Associated Lab Samples: 40199708001

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Total Suspended Solids mg/L <0.48 1.0 11/26/19 12:16

LABORATORY CONTROL SAMPLE: 1985684

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers **Total Suspended Solids** mg/L 100 102 102 80-120

SAMPLE DUPLICATE: 1985685

35513865001 Dup Max **RPD RPD** Parameter Units Result Result Qualifiers 11300 3 10 **Total Suspended Solids** 10900 mg/L

SAMPLE DUPLICATE: 1985686

Date: 12/06/2019 12:44 PM

35513865002 Dup Max RPD RPD Parameter Units Result Result Qualifiers 5050 Total Suspended Solids mg/L 4920 3 10

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.





Project: 8114 COMMERCIAL RECYCLING CORP

Pace Project No.: 40199708

QC Batch: 341878 Analysis Method: SM 4500-H+B QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 40199708001

SAMPLE DUPLICATE: 1985710

Date: 12/06/2019 12:44 PM

40199458001 Dup Max Parameter Units Result Result **RPD** RPD Qualifiers 7.6 pH at 25 Degrees C Std. Units 7.6 5 H6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

(920)469-2436



#### **QUALITY CONTROL DATA**

Project: 8114 COMMERCIAL RECYCLING CORP

Pace Project No.: 40199708

QC Batch: 341572

QC Batch Method: SM 5210B

210B Analysis Description:

SM 5210B

s Description: 5210B BOD, 5 day

Associated Lab Samples: 40199708001

METHOD BLANK: 1983752 Matrix: Water

Associated Lab Samples: 40199708001

Blank Reporting

Analysis Method:

 Parameter
 Units
 Result
 Limit
 Analyzed
 Qualifiers

 BOD, 5 day
 mg/L
 <2.0</td>
 2.0
 11/27/19 11:15

METHOD BLANK: 1983757 Matrix: Water

Associated Lab Samples: 40199708001

Date: 12/06/2019 12:44 PM

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

BOD, 5 day mg/L <2.0 2.0 11/27/19 11:48

LABORATORY CONTROL SAMPLE & LCSD: 1983754 1983755 Spike LCS LCSD LCS **LCSD** % Rec Max Parameter Units Conc. Result Result % Rec % Rec Limits RPD RPD Qualifiers BOD, 5 day mg/L 198 213 224 108 113 84.6-115 5 20

LABORATORY CONTROL SAMPLE & LCSD: 1983754 1983756 LCS Spike **LCSD** LCS LCSD % Rec Max **RPD RPD** Qualifiers Parameter Units Conc. Result Result % Rec % Rec Limits

BOD, 5 day mg/L 198 213 226 108 114 84.6-115 6 20

SAMPLE DUPLICATE: 1983875 40199697001 Dup Max

 Parameter
 Units
 Result
 Result
 RPD
 RPD
 Qualifiers

 BOD, 5 day
 mg/L
 280
 300
 7
 20

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



EPA 410.4

410.4 COD

Project: 8114 COMMERCIAL RECYCLING CORP

Pace Project No.: 40199708

Date: 12/06/2019 12:44 PM

QC Batch: 342218 Analysis Method:
QC Batch Method: EPA 410.4 Analysis Description:

Associated Lab Samples: 40199708001

METHOD BLANK: 1987430 Matrix: Water

Associated Lab Samples: 40199708001

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Chemical Oxygen Demand mg/L <14.7 50.0 12/03/19 09:23

LABORATORY CONTROL SAMPLE: 1987431

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Chemical Oxygen Demand mg/L 500 518 104 90-110

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1987432 1987433

MS MSD MSD MS 40199765001 Spike Spike MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits **RPD** RPD Qual Chemical Oxygen Demand 104 90-110 <15.5 526 526 549 545 103 10 mg/L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1987434 1987435

MS MSD 40199765002 MS MSD MS MSD Spike Spike % Rec Max RPD Parameter Conc. % Rec % Rec **RPD** Units Result Conc. Result Result Limits Qual Chemical Oxygen Demand <15.5 526 526 547 547 103 103 90-110 0 10 mg/L

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



#### **QUALIFIERS**

Project: 8114 COMMERCIAL RECYCLING CORP

Pace Project No.: 40199708

#### **DEFINITIONS**

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

TNI - The NELAC Institute.

#### **LABORATORIES**

PASI-G Pace Analytical Services - Green Bay
PASI-M Pace Analytical Services - Minneapolis

### **BATCH QUALIFIERS**

Batch: 647899

[BE] Batch extracted by solid phase extraction (SPE).

#### **ANALYTE QUALIFIERS**

Date: 12/06/2019 12:44 PM

H6 Analysis initiated outside of the 15 minute EPA required holding time.

(920)469-2436



### **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 8114 COMMERCIAL RECYCLING CORP

Pace Project No.: 40199708

Date: 12/06/2019 12:44 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
40199708001	OUTFALL	EPA 200.7	341668	EPA 200.7	341794
40199708001	OUTFALL	EPA 120.1	341896		
40199708001	OUTFALL	EPA 1664B OG	647899		
40199708001	OUTFALL	SM 2540D	341870		
40199708001	OUTFALL	SM 4500-H+B	341878		
40199708001	OUTFALL	SM 5210B	341572	SM 5210B	342011
40199708001	OUTFALL	EPA 410.4	342218	EPA 410.4	342319

	(Please Print Clearly)		]	_	<u> </u>	)					<u>ŲPP</u>	ER MID	WEST F	<u>REGION</u>		Page	1 of ♀
Company N Branch/Loc				/	Bon	e An	oh Hi	cal*			MN:	612-60	7-1700	<b>WI</b> : 920-469-2436	- 1	101997	1 of ?
	Mausau		4	/-/	1 av		pecelab:							1	<u> </u>	10 (99)	DX S
Project Con	L ZUING : JEMG		4 /		<b>~.</b>	<b>.</b>								Quote #:			
Phone:	715-748-2970	<u>"</u>	4 _	- (	SH ₂	<u>AIN</u>				STC	DY		_	Mail To Contact:	Jason	Christoph	urson
Project Num	19011	. a	- 10 A TO 10 A			:=H2SO4	D=HN0	vation Co	i Water		anol G=	NaOH		Mail To Company:	REI	•	
Project Nam	- Formational Academ	ing Comp		Sodium Bis	ultate Sol	utton	I=Sodi	um Thiosu	ulfate	J=Other			J	Mail To Address:	JUMPI	Sto Mer	son@
Project State	<u> </u>	0	(YE	ERED? (S/NO)	Y/N	_ / Y	<u> 1</u>	$ \mathcal{N} $	N	N	W				PEI	stophers	ring. Con
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Sampled By	(Sign): Sunder				J -		1,21							Invoice To Company:	5A		
PO #:		Regulatory Program:			ste	1 %	深	T	10		1.0			Invoice To Address:			
(bil	age Options MS/MSD   able  On your sample	A = Air B = Biota	trix Code W = Water DW = Drink		s Reque	050016	off + Conduction		186		20,0	<b>,</b>			SAN	T	
	PA Level IV (billable) NOT needed on	C = Charcoal O = Oil	GW = Grou SW = Surfa	ce Water	85	13	13	32	1/87	Ē	1736	]		Invoice To Phone:	715-	675-	1284
PACE LAB#		S = Soil SI = Sludge COLL DATE	WW = Was WP = Wipe ECTION TIME		Analy	21/6	Ho	12	5-Day	0	36 10.	1		CLIENT COMMENTS	LABC	OMMENTS Use Only)	Profile #
001	Outfall	1/21/19	730	5W		X	X	X	X	X	X				``		
											17"					i	
							74.5									k/M	
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	rnaround Time Requested - Prelim TAT subject to approval/surcharge Date Needed:	) \\(	alshed By:	Gen	dec	11,	Dat X//	e/Time:	9:01	1 Am	Received	By	ils	Date/Tinte:	9 VIAN	PACE Pro	oject No.
Transmit Prel	lim Rush Results by (complete what you wa		uished By	The second			Dat 11/2	e/Time: 1// 9	3:av	-הכל	Received	Ву:		Date/Time:	7	- 4014	1/08
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x:							Jau	1.111494			received i	οу. ``		Date/Time:	· •	ව්රැ / Adj Cooler Cus	
	amples on HOLD are subject to	Relinqu	uished By:				Date	e/Time:			Received I	Ву:		Date/Time:		Present / No	t Present

Sample Preservation Receipt Form Project # 40199706 Client Name:

All containers needing preservation have been checked and noted below: Yes DNo DN/A

Lab Lot# of pH paper: 171 53541 Initial when Time: completed: Lab Lot# of pH paper: 1/7 Lab Std #ID of preservation (if pH adjusted): \aOH+Zn Act pH≥9 /OA Vials (>6mm) H after adjusted **Plastic** Vials Jars General Glass Volume aOH pH≥12 12SO4 pH <2 INO3 pH ≤2 (mL) WGFU VG9M WPFU VG9H ZPLC VG9U VG9D **AG1U** AG1H AGSU BG3U DG9A DG9T JGFU AG2S **BP3N** SP5T AG4S BPIU BP2N **BP3S BP2Z** Pace Z Lab # 2.5 / 5 / 10 001 2.5 / 5 / 10 002 2.5 / 5 / 10 003 2.5 / 5 / 10 004 2.5 / 5 / 10 005 2.5 / 5 / 10 006 2.5 / 5 / 10 007 2.5 / 5 / 10 008 2.5/5/10 009 2.5 / 5 / 10 010 2.5 / 5 / 10 011 2.5 / 5 / 10 012 2.5 / 5 / 10 013 2.5 / 5 / 10 014 2.5 / 5 / 10 015 2.5 / 5 / 10 016 2.5 / 5 / 10 017 2.5 / 5 / 10 018 019 2.5 / 5 / 10 2.5 / 5 / 10 020 Headspace in VOA Vials (>6mm): □Yes □No MN/A *If yes look in headspace column Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:

AG1U I liter amber glass AG1H I liter amber glass HCL	BP2N	1 liter plastic unpres 500 mL plastic HNO3	DG9T	40 mL amber ascorbic 40 mL amber Na Thio 40 mL clear vial unpres	WGFU	4 oz amber jar unpres 4 oz clear jar unpres 4 oz plastic jar unpres
AG4S 125 mL amber glass H2SO4 AG4U 120 mL amber glass unpres	BP3U	500 mL plastic NaOH, Znact 250 mL plastic unpres	VG9H	40 mL clear vial HCL		· · · · · · · · · · · · · · · · · · ·
AG5U 100 mL amber glass unpres AG2S 500 mL amber glass H2SO4 BG3U 250 mL clear glass unpres	BP3N	250 mL plastic NaOH 250 mL plastic HNO3 250 mL plastic H2SO4	장이 강화하다 중요하다 함께	40 mL clear vial MeOH 40 mL clear vial DI		120 mL plastic Na Thiosulfate ziploc bag

Pace Analytical

1241 Bellevue Street, Green Bay, WI 54302

Document Name:
Sample Condition Upon Receipt (SCUR)

).: ): Document Revised: 25Apr2018

Document No.: F-GB-C-031-Rev.07

Issuing Authority:
Pace Green Bay Quality Office

# Sample Condition Upon Receipt Form (SCUR)

Courier: CS Logistics Fed Ex Speedee Courier: Client Pace Other:  Client Pace Other:  Custody Seal on Cooler/Box Present: yes no Coustody Seal on Samples Present: yes no	Seals intac	4019976	<b>11 11 11 11 11 11 11 11 11 11 11 11 11 </b>
Packing Material: Bubble Wrap Bubble Ba	ngs T Non of Ice: Wet	e Cother	Person examining contents Date:
Chain of Custody Present:	s □No □N/A	11.	
Chair ago at 1 Fill 10 /	Mo □N/A		
Chain of Custody Relinquished: X	□No □N/A		
	No □N/A		
	₃□No	5.	
- VOA Samples frozen upon receipt □Yes	No	Date/Time:	
	□No	6.	
	Z-No	7.	
Sufficient Volume:	-	8.	
For Analysis: ⊠⊻es □No MS/MSD: □Yes	Man □n/a	ł	
	□No	9.	
-Pace Containers Used: 图Yes	□No □N/A		
-Pace IR Containers Used: □Yes	□No DANA		
Containers Intact:	□No	10.	
iltered volume received for Dissolved tests	□No <b>⊠</b> N/A		
	□No □N/A		
-Includes date/time/ID/Analysis Matrix:		, <del></del>	
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ace Trip Blank Lot # (if purchased):			
lient Notification/ Resolution: Person Contacted: Comments/ Resolution:	Date/		ched form for additional comments
TO CONTROL OF THE PROPERTY OF	···		

State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921
dor wi nov

# Storm Water Chemical Analysis Report

Form 3400-176B (R 01/20)

age 1 of 3

Notice: The Department is authorized to request the information in this report under ch. 283, Wis. Stats. Proper use of this form will aid permittees in making complete information submittals and thereby minimize the need for subsequent information requests by the Department. If false information from quarterly visual inspections is reported to the Department, you could be subject to penalties up to \$10,000 pursuant to s. 283.91(4), Wis. Stats. Personally identifiable information on this form may be used for other water quality program purposes.

Please type or clearly print your answers to all questions.

Section I: Facility/Site Info	rmation										·
Facility/Site Name (as Appea			rization)					Cou	nty		······································
Commercial Recycling Co	orp. CR	.C II Facil	ity					Tay	lor		$\overline{\mathbf{Y}}$
Location Address/Description	(if differ	ent from m	ailing addr	ress be	low)			Stat	e	ZIP Code	
W6617 State Highway 64									WI	5445	1
Municipality			City	Fac	cility Ide	ntific	ation (FID) and/o	r FIN N	lumber (i	if known)	
Medford		0	Village Township	FIC	):	8	61058880	FI	N:	61324	
Section II: Facility/Site Cor	ntact Pe	rson (pers		' 1		_				0.732.7	
Contact Person				Title							
Jean Leader				Safet	<del>-</del>		liance Coordina	tor			
Mailing Address (if different to	lailing Address (if different than site location address)  Municipality								State	ZIP Code	
Phone Number (include area	Phone Number (include area code) Fax (include area code) Email Address									oliophia)	
715-748-2970	code)	rax (incid	ide area co	oue)		- 1	Email Address or			oncable)	
Section III: Laboratory Info	rmation						records@comre	ecyciii	ig.net		
Lab Name	mation							WI (	Certificati	ion Number	
Pace Analytical Services,	LLC									405132750	
Phone Number (include area	code)	Subcontra	act Lab Na	me(s)	(if applic	able	·)				<del></del>
920-469-2438		N/A									
Submit lab reports along wit	h all info	rmation (in	cluding ch	nain of	custody	for	ms, quality contro	ol data,	etc.) rec	eived from labo	oratory.
Section IV: Sample Inform	ation										
Discharge or Outfall Numb	er S	ample Nu	mber		Descri	ptior	of Outfall or Disc	charge	(pipe, gr	ass swale, char	nnel, etc.)
					Catch	Ba	sin				
Date of Sample Collection	Amount o	of Rainfall	(nearest ter	nth of a	n inch)	Rai	nfall Event:				
11/10/2020							Start Time			End Time	
Sample Collection:			·····	Time	Interval	Betv	veen Sample Coll	ection	Numi	per of Samples	Collected
Start Time		End Time	Э				· · · · · · · · · · · · · · · · ·				
7:00 am					T - 12 - 21 - 21 - 2 - 2 - 2 - 2 - 2 - 2						
When a facility has more than significant materials, and manabeen clearly stated in the facility	one outfa agement, ly monitor	ll which hav one outfall ring plan an	e storm wa may be sel d that the r	ater disc ected to epreser	charges o representative o	subs ent th utfall	tantially similar ba ne group of similar is clearly identifie	sed on outfalls d as su	considera provided ch on the	ation of industrial I that this strateg drainage base r	activity, y has nap.
Is this outfall representative of	of other d	ischarges t	from the fa	cility?	() Y	es (	○ No				
If yes, identify all of the outfal	lls that th	is one repr	esents:				_				
•		,									
Discharge or Outfall Number	er S	ample Nui	mber		Descri	ptior	of Outfall or Disc	charge	(pipe, gr	ass swale, char	nnel, etc.)
Date of Sample Collection	Amount	of Rainfall	(nearest ter	nth of a	n inch)	Rai	nfall Event:		4		
							Start Time			End Time	
Sample Collection:				Time	Interval	Betv	veen Sample Coll	ection	Numb	per of Samples	Collected
Start Time		End Time	€	1							
	<u> </u>	i a a la constitución de la cons		-111. 2							
Is this outfall representative of		_		icility?	$\bigcirc$ $\land$	es (	○ No				
If yes, identify all of the outfal	lls that th	is one repr	esents:								
List additional sample informa	ation on r	nage 2		····	<del></del>	·	<del>, ,</del>				

# Storm Water Chemical Analysis Report Form 3400-176B (R 01/20) Page 2 of 3

Discharge or Outfall Numl	er	Sample Number		Descri	ption of Outfall or Di	scharge (p	ipe, grass	s swale, channel, etc.)	
	1.			<u> </u>	ID-1-6-II F				
Date of Sample Collection	Amour	nt of Rainfall (nearest	tenth of ar	n inch)	Rainfall Event: Start Time	•	1	End Time	
					Start Time	3		end time	
Sample Collection:	1	· · · · · · · · · · · · · · · · · · ·	Time I	nterval	Between Sample Co	ollection	Number	of Samples Collected	
Start Time	1	End Time							
			ł						
Is this outfall representative	of other	r discharges from the	facility?	() Y	es ( No		,		
If yes, identify all of the outfi	alls that	this one represents:			_				
Discharge or Outfall Numl	er	Sample Number		Descri	ntion of Outfall or Di	scharge (p	ine gras	s swale, channel, etc.)	
a looma. go or oasian ram		Campio Italiaci		0000	phon of outlant of St	oonargo (p	ipo, grao	o orraio, orialinos, otos,	
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Date of Campio Concollen	, ,,,,,	it of standar (noarost	toriar or ar	1 11.10117	Start Time	9		End Time	
Sample Collection:			Time I	nterval	Between Sample Co	ollection	Number	of Samples Collected	
Start Time		End Time							
····							<u> </u>		
Is this outfall representative	of othe	r discharges from the	facility?	$\bigcirc$ Y	es No				
If yes, identify all of the outf	alls that	this one represents:							
Discharge or Outfall Num	oer	Sample Number		Descri	ption of Outfall or Di	scharge (p	ipe, grass	s swale, channel, etc.)	
•					•	<b>0</b> (1		, , ,	
Date of Sample Collection	Amour	nt of Rainfall (nearest	tenth of ar	inch)	Rainfall Event:	<del></del>	<del> </del>		
zano en campro concentra					Start Time	Э		End Time	
Sample Collection:	1		Time I	nterval	Between Sample Co	ollection	Number	of Samples Collected	
Start Time		End Time	1						
Is this outfall representative	of other	r discharges from the	facility?	$\bigcirc$ Y	es O No				
If yes, identify all of the outfor	alls that	this one represents:							
Section V: Certification &	Signat	ture (person attesting of the Storm Wa	g to the a	ccuracy	and completeness				
This form must be signed	by an o					dance with	s NR 2	16 22(7) Wis Adm	
Code. See instructions or	page	3. If this form is not	signed,	or is fo	und to be incomple	ete, it will i	oe return	ed.	
I certify under penalty of law	that th	is document and all a	ttachment	ts were	prepared under my	direction o	r supervis	sion in accordance	
with a system designed to a of the person or persons wh	ssure the	nat qualified personne	el properly	gather	and evaluate the inf	formation s	ubmitted	. Based on my inquiry	
submitted is, to the best of r	ny knov	vledge and belief, true	e, accurati	e, and o	complete. I am awar	e that there	are sign	ificant penalties for	
submitting false information	includi	ng the possibility of fi	ne and im	prisonn	nent for knowing viol	ations.	ŭ	•	
Signature of Authorized Rep	resenta	ative		][	ate Signed	Telephone	Number	r (include area code)	
Mari W.A.	A /A = :	~ :			12/14/2020		715-7	48-2970	
Type or Print Name   Company Name									
Diane Messman		Comme	ercial Rec	cycling	Corp	General	eral Manager		
Mailing Address	<del></del>				/ /unicipality	L	State	ZIP Code	
W6779 State Hwv 64					Medford		wi	54451	

Page 3 of 3

#### Instructions

Please type or clearly print your answers to all questions. Read instructions before completing this form.

# Section I: Facility/Site Information

Provide the name of the facility as it appears on the permit application or permit cover letter and location address. If known, provide the Facility Identification (FID) and/or FIN Number assigned by the WDNR.

#### Section II: Facility/Site Contact Person

Provide the facility contact information for the person responsible for collecting the storm water samples. The mailing address should be given for the facility contact person if it is different from the facility site location address information.

# Section III: Laboratory Information

Provide the name of the laboratory, WI Certification number, and laboratory contact information for the laboratory that performed the chemical analyses on your facility's storm water samples.

# Section IV: Sample Information

Provide the name and description of the outfalls sampled; the date and start and end time of the sample collection; and the amount, start and end times of the sampled rainfall event. Also include the time interval between sample collection and the number of samples collected. Indicate if this outfall is representative of other discharges from the facility and identify those representative outfalls. Use additional sheets if necessary.

# Section V: Certification & Signature

State Statutes provide for severe penalties for submitting false information on this form. State regulations require this form be signed as follows:

- 1. For a corporation, by a principal executive officer of at least the level of Vice President, or a duly authorized representative having overall responsibility for the operation covered by this permit.
- 2. For a unit of government, a principal executive officer, a ranking elected official, or other duly authorized representative.
- 3. For a partnership, by a general partner; for a sole proprietorship, by the proprietor.
- 4. For a limited liability company, by member or manager.

Sign the form, print or type the name of the individual signing the certification and the date of signature, and provide the contact information.

#### Mailing Addresses

Unless otherwise directed, mail this completed form to the Wisconsin Department of Natural Resources (WDNR) office associated with the county of the facility site location as follows:

	-··- <b>,</b> -··-	NODTHERN REGION	(NOR)							
		NORTHERN REGION	(NOK)							
Ashland	Forest	Price	WDNR Eau Claire Service Center							
Barron	Iron	Rusk	1300 W Clairemont Ave							
Bayfield	Langlade	Sawyer	Eau Claire, WI 54701							
Burnett	Lincoln	Taylor	715-839-1636							
Douglas	Oneida	Vilas	7 10 000 1000							
Florence	Polk	Washburn								
		NORTHEAST REGION	(NER)							
Brown	Manitowoc	Shawano	WDNR Northeast Regional Headquarters							
Calumet	Marinette	Waupaca	2984 Shawano Avenue							
Door	Marquette	Waushara	Green Bay, WI 54313-6727							
Fond du Lac	Menominee	Winnebago								
Green Lake	Oconto		(920) 662-5100							
Kewaunee	Outagamie	•								
WEST CENTRAL REGION (WCR)										
Buffalo	Jackson	Pierce	WDNR Eau Claire Service Center							
Chippewa	Juneau	Portage	1300 W Clairemont Ave							
Clark	La Crosse	St. Croix	Eau Claire, WI 54701							
Crawford	Marathon	Trempealeau								
Dunn	Monroe	Vernon	715-839-1636							
Eau Claire	Pepin	Wood								
		SOUTH CENTRAL REGIO	ON (SCR)							
Columbia	Green	Richland	WDNR South Central Regional Headquarters							
Dane	lowa	Rock	3911 Fish Hatchery Rd.							
Dodge	Jefferson	Sauk	Fitchburg, WI 53711							
Grant	LaFayette		(608) 275-3266							
		SOUTHEAST REGION	(SER)							
Kenosha	Racine	Washington	WDNR SER Headquarters							
Milwaukee	Sheboygan	Waukesha	2300 N Dr. Martin Luther King Jr. Dr							
Ozaukee	Walworth		Milwaukee, WI 53212							



November 25, 2020

Erin Henderson REI 4080 N 20th Ave Wausau, WI 54401

RE: Project: 8114 COMMERCIAL RECYCLING

Pace Project No.: 40218134

#### Dear Erin Henderson:

Enclosed are the analytical results for sample(s) received by the laboratory on November 11, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

· Pace Analytical Services - Green Bay

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

Sincerely,

Steven Mleczko for Brian Basten

DVM

brian.basten@pacelabs.com

(920)469-2436 Project Manager

Enclosures

cc: Kaylin Felix, REI





Green Bay, WI 54302 (920)469-2436

# **CERTIFICATIONS**

Project:

8114 COMMERCIAL RECYCLING

Pace Project No.:

40218134

# Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky UST Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 12064 North Dakota Certification #: R-150

Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0



# **SAMPLE SUMMARY**

Project:

8114 COMMERCIAL RECYCLING

Pace Project No.:

40218134

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40218134001	OUTFALL	Water	11/10/20 07:00	11/11/20 09:10



# **SAMPLE ANALYTE COUNT**

Project:

8114 COMMERCIAL RECYCLING

Pace Project No.:

40218134

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40218134001	OUTFALL	EPA 6010	TXW	5
		EPA 410.4	TJJ	1

PASI-G = Pace Analytical Services - Green Bay



# **ANALYTICAL RESULTS**

Project: 8114 COMMERCIAL RECYCLING

Pace Project No.: 40218134

Date: 11/25/2020 11:10 AM

Sample: OUTFALL	Lab ID:	Collecte	d: 11/10/20	07:00	Received: 11/	11/20 09:10 M	atrix: Water		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical	Method: EPA 6	010 Prepa	ration Metho	od: EP	A 3010			
	Pace Anal	ytical Services	- Green Ba	у					
Aluminum	6350	ug/L	500	90.3	1	11/13/20 06:12	11/16/20 22:05	7429-90-5	
Chromium	14.4	ug/L	10.0	2.5	1	11/13/20 06:12	11/16/20 22:05	7440-47-3	
Copper	31.5	ug/L	10.0	3.4	1	11/13/20 06:12	11/16/20 22:05	7440-50-8	
Iron	10000	ug/L	100	56.7	1	11/13/20 06:12	11/16/20 22:05	7439-89-6	
Zinc	275	ug/L	40.0	11.6	1	11/13/20 06:12	11/16/20 22:05	7440-66-6	
410.4 COD	Analytical	Method: EPA 4	10.4 Prepa	aration Meth	od: EF	PA 410.4			
	Pace Anal	ytical Services	- Green Ba	у					
Chemical Oxygen Demand	131	mg/L	50.0	14.7	1	11/19/20 18:10	11/19/20 21:32		



# **QUALITY CONTROL DATA**

Project:

Aluminum Chromium Copper Iron Zinc 8114 COMMERCIAL RECYCLING

Pace Project No.:

40218134

QC Batch:
QC Batch Method:

371193 EPA 3010 Analysis Method:

EPA 6010

Analysis Description:

6010 MET

Laboratory:

Pace Analytical Services - Green Bay

Associated Lab Samples:

40218134001

METHOD BLANK: 2146256

____

Matrix: Water

Associated Lab Samples:

Date: 11/25/2020 11:10 AM

Parameter

40218134001

Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
ug/L	<90.3	500	11/16/20 21:40	
ug/L	<2.5	10.0	11/16/20 21:40	
ug/L	<3.4	10.0	11/16/20 21:40	
ug/L	<56.7	100	11/16/20 21:40	
ug/L	<11.6	40.0	11/16/20 21:40	

LABORATORY CONTROL SAMPLE: 2146257

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	5000	5060	101	80-120	
Chromium	ug/L	500	516	103	80-120	
Copper	ug/L	500	510	102	80-120	
Iron	ug/L	5000	5150	103	80-120	
Zinc	ug/L	500	524	105	80-120	

MATRIX SPIKE & MATRIX S	PIKE DUPLI	CATE: 2146	258		2146259							
			MS	MSD								
	4	40218120001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Aluminum	ug/L	96.2J	5000	5000	5320	5200	105	102	75-125	2	20	
Chromium	ug/L	<2.5	500	500	531	517	106	103	75-125	3	20	
Copper	ug/L	9.4J	500	500	551	537	108	106	75-125	3	20	
Iron	ug/L	78.2J	5000	5000	5380	5250	106	103	75-125	2	20	
Zinc	ug/L	24.7J	500	500	570	526	109	100	75-125	8	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



# **QUALITY CONTROL DATA**

Project:

8114 COMMERCIAL RECYCLING

Pace Project No.:

40218134

QC Batch: QC Batch Method: 371921 EPA 410.4 Analysis Method:

EPA 410.4

Analysis Description:

410.4 COD

Laboratory:

Pace Analytical Services - Green Bay

Associated Lab Samples:

40218134001

Matrix: Water

METHOD BLANK: 2150639 Associated Lab Samples:

40218134001

Units

mg/L

Blank Result Reporting Limit

Analyzed

Qualifiers

Chemical Oxygen Demand

Units mg/L

<14.7

50.0 11/19/20 21:31

LABORATORY CONTROL SAMPLE:

Parameter

Parameter

2150640

Spike Conc.

LCS Result

LCS % Rec % Rec Limits

Qualifiers

Chemical Oxygen Demand

Parameter

Chemical Oxygen Demand

Units mg/L

40218051001

Result

<15.5

500

513

103

90-110

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

2150641

MSD Spike

Conc.

2150642

566

MS

Result

MSD

564

Result

MSD % Rec % Rec

Limits

90-110

Max **RPD RPD** 

> 10 0

Qual

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

526

526

MS 40218051002

2150643

MSD Spike Conc.

MSD Result MS

MS

% Rec

106

MSD

105

105

Max

Parameter Chemical Oxygen Demand

Units Result 266 mg/L

Spike Conc.

MS

Spike

Conc.

526 526

MS Result 821

2150644

% Rec 817 105 % Rec

% Rec Limits

90-110

RPD

RPD Qual 10

Date: 11/25/2020 11:10 AM

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



#### **QUALIFIERS**

Project: 8114 COMMERCIAL RECYCLING

Pace Project No.: 40218134

#### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

TNI - The NELAC Institute.

Date: 11/25/2020 11:10 AM



# QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:

8114 COMMERCIAL RECYCLING

Pace Project No.:

Date: 11/25/2020 11:10 AM

40218134

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40218134001	OUTFALL	EPA 3010	371193	EPA 6010	371294
40218134001	OUTFALL	EPA 410.4	371921	EPA 410.4	371932

(Please Print	Clearly)									<u>UPPE</u>	R MIDV	VEST R	EGION	Page 1 of
Company Name: REI										MN: 6	612-607	-1700	WI: 920-469-2436	
Branch/Location: Wave	1 W.	1 /		Pace		alytic								40218134
Project Contact:		7 /			www.ţ	oacalabs.	oom						Quote #:	
Phone:			(	CHA	AIN	OF	- C	US	TO	DY			Mail To Contact:	Erin Henderson
Project Number: 8114		A=No		44.0	H2SO4		ation Coc	les	F≂Metha			]	Mail To Company:	PEL Engineering
	rial Recycline	<b>⊣</b> l,,_c,	odium Bisu				m Thiosul		=Other			]	Mail To Address:	REI Engineering ehenderson@
Project State: WT	ass Recycline	FILTE	RED?	YIN	1	12			Τ	T				reiengineering
	pader	PRESER	IVATION	Pick	C	Ö	<b> </b>	<del>                                     </del>					Invoice To Contact:	SAA
Samulad Bu (Slave	-baaei	(COI	DE)*	Letter	1	1	-						Invoice To Company:	SAA
PO#:	Regulator	y (3)		43		_								L SAF COLOR
	Program:	atrix Codes		4 3		3							Invoice To Address:	SAA
(billable) Or	A = Air	W = Water		12		0					1.			
EPA Level III	(billable)  (billable)  (billable)  (c = Charcosi  (O = Oil	DW = Orinkir GW = Groun SW = Surfac	d Water	Analyses Requ	COD	54					1.		Invoice To Phone:	715-675-9784
	our sample S = Soil SI = Sludge	WW = Waste WP = Wipe	e Water	1	ک	17 P							CLIENT	LAB COMMENTS Profile #
PACE LAB# CLIENT FI	ELD ID DATE	TIME	MATRIX										COMMENTS	(Lab Use Only)
OUI Outfall	11/10/2	o 7.60.4	SW		$\times$	X	Ç.							
			# 1 h	177										
				7.4										
						201	7m							
				s( 10≠										
					<i>F</i> ,									
		1										14.5		
Rush Turnaround Time Requ (Rush TAT subject to appro- Date Needed:	val/surcharge)	nquished By:	X	adu		1/// _{Dat}	e/Time:	]!'[	•	Received	B / /	3/2	Date/Time:	PACE Project No.
Transmit Prelim Rush Results by (com	· · · · · · · · · · · · · · · · · · ·	12/4/	40				11/20	O ^c	110		4ML	ИX	plue Illilo	CS16 Receipt Temp = LSI °C
Email #1: Email #2:	Reli	nquished By:				Dat	e/Time:			Received	By:	4	Date/Time;	Sample Receipt pH
Telephone:	Reti	nquished By:				Date	e/Time:			Received	Ву:		Date/Time:	QRy Adjusted
Fax: Samples on HOLD are subject		nquished By:				Date	e/Time:	· · · · · · · · · · · · · · · · · · ·		Received	Ву:		Date/Time:	Cooler Custody Seal Present / Not Present
special pricing and release of it	ability	- 4.34 					<u></u>			212				Intact / No Intact Version 6.0 06/14/06

Sample Preservation Receipt Form Project # 4028134 Slient Name: LUT Green Bay, WI 543025 Project # All containers needing preservation have been checked and noted below: ★ es □No □N/A Initial when Date/ completed: Time: Lab Lot# of pH paper: 1004194 Lab Std #ID of preservation (if pH adjusted): NaOH+Zn Act pH ≥9 /OA Vials (>6mm) after adjusted **Plastic Vials** Glass Jars General 12SO4 pH ≤2 VaOH pH ≥12 Volume 4NO3 pH s2 WGFU (mL) VG9M WPFU AG1H AG5U AG2S BG3U VG9D JGFU AG10 AG4S AG40 BP1U **BP3U BP3B BP3S** VG9A **VG9**0 **VG9H JG9**0 **BP3N** DG9T ZPLC **SP5T** ace S 3b# 01 2.5 / 5 / 10 Q2 2.5 / 5 / 10 03 2.5 / 5 / 10 04 2.5 / 5 / 10 05 2.5 / 5 / 10 06 2.5 / 5 / 10 07 2.5 / 5 / 10 08 2.5 / 5 / 10 09 2.5 / 5 / 10 10 2.5 / 5 / 10 11 2.5 / 5 / 10 12 2.5 / 5 / 10 13 2.5 / 5 / 10 14 2.5/5/10 15 2.5 / 5 / 10 16 2.5 / 5 / 10 17 2.5 / 5 / 10 18 2.5/5/10 19 2.5 / 5 / 10 2.5/5/10 Headspace in VOA Vials (>6mm): □Yes □No xN/A *If yes look in headspace column xceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: 31UI1 liter amber glass BP1U 1 liter plastic unpres VG9A 40 mL clear ascorbic **JGFU** 4 oz amber jar unpres BP3U DG9T JG9U 31U 1 liter clear glass 250 mL plastic unpres 40 mL amber Na Thio 9 oz amber jar unpres 31H 1 liter amber glass HCL BP3B 250 mL plastic NaOH VG9U 40 mL clear vial unpres WGFU 4 oz clear jar unpres 34S 125 mL amber glass H2SO4 **BP3N** 250 mL plastic HNO3 VG9H 40 mL clear vial HCL WPFU 4 oz plastic jar unpres BP3S 250 mL plastic H2SO4 VG9M 34U 120 mL amber glass unpres 40 mL clear vial MeOH SP5T 120 mL plastic Na Thiosulfate 35U 100 mL amber glass unpres VG9D 40 mL clear vial D **ZPLC** ziploc bag

GN

32S 500 mL amber glass H2SO4

33U 250 mL clear glass unpres

Pace Analytical 1241 Bellevue Street, Green Bay, WI 54302

Document Name: Sample Condition Upon Receipt (SCUR)

Document No.: ENV-FRM-GBAY-0014-Rev.00

Document Revised: 26Mar2020

Author: Pace Green Bay Quality Office

# Sample Condition Upon Receipt Form (SCUR)

Client Name: LLI Courier: CS Logistics Fed Ex Speedee   Client Pace Other:	UPS	- F <w< th=""><th>Project #: altco</th><th>1 '</th><th> 0218134        </th></w<>	Project #: altco	1 '	0218134 
Fracking #: 2644918-1				40218134	
Custody Seal on Cooler/Box Present: yes 🔀 no	Seals	intact:	☐ yes ☐ no		
Custody Seal on Samples Present: ☐ yes 💢no			☐ yes ☐ no		
Packing Material: Bubble Wrap Bubble Ba				······································	
	e of Ice	e Voe	Blue Dry None	Samples o	n ice, cooling process has begun  Person examining contents:
Cooler Temperature Uncorr: LOT /Corr:	Di di		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
Temp Blank Present: yes no	Biolo	gicai i	issue is Frozen:	yesi no	Date: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Temp should be above freezing to 6°C. Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.					Labeled By Initials:
Chain of Custody Present:	es 🗆 No	□N/A	1.		
Chain of Custody Filled Out:	es 🗆 No	□n/a	2.		
Chain of Custody Relinquished:	es 🗆 No	□n/a	3.		
	es 🗆 No				
	es 🗆 No	-	5.		
	es 🗆 No		Date/Time:		
	es 1 <b>⊠</b> 4No		6.	-, <u>, , , , , , , , , , , , , , , , , , </u>	
<del> </del>	es QNo	••••	7.		
Sufficient Volume:			8.		
For Analysis: ÆYes □No MS/MSD: □Y	es Duno	□N/A	· .		
	es 🗆 No	<del>~.`</del> -	9.	·	
	es □No		0.		
	es □No				
	es 🗆 No		10	<u> </u>	
	es □No		10.	· · · · · · · · · · · · · · · · · · ·	
	es 🗆 No		1		
	Es MINO	LJIN/A	12.		
-Includes date/time/ID/Analysis Matrix: \( \Lambda \) Trip Blank Present:	/ ′es □No	ZŠN/A	12		
·	'es □No		13.		
Pace Trip Blank Lot # (if purchased):	-S 1140	y JEINIA			
Client Notification/ Resolution:	<u></u>			f checked, see attac	ched form for additional comments
Person Contacted:		_ Date/	Time:		
Comments/ Resolution:					



(920)469-2436



November 23, 2021

Shaun Carrol REI

,

RE: Project: 8114 COMMERCIAL RECYCLING

Pace Project No.: 40236833

#### Dear Shaun Carrol:

Enclosed are the analytical results for sample(s) received by the laboratory on November 12, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Green Bay

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

Sincerely,

Brian Basten

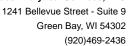
brian.basten@pacelabs.com

(920)469-2436 Project Manager

Enclosures

cc: Kaylin Felix, REI







#### **CERTIFICATIONS**

Project: 8114 COMMERCIAL RECYCLING

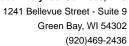
Pace Project No.: 40236833

#### Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky UST Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 12064 North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001 Texas Certification #: T104704529-14-1 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 USDA Soil Permit #: P330-16-00157 Federal Fish & Wildlife Permit #: LE51774A-0



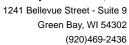


# **SAMPLE SUMMARY**

Project: 8114 COMMERCIAL RECYCLING

Pace Project No.: 40236833

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40236833001	OUTFALL	Water	11/11/21 06:00	11/12/21 08:50





# **SAMPLE ANALYTE COUNT**

Project: 8114 COMMERCIAL RECYCLING

Pace Project No.: 40236833

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40236833001	OUTFALL	EPA 6010D	TXW	5
		EPA 410.4	TMK	1

PASI-G = Pace Analytical Services - Green Bay

(920)469-2436



# **ANALYTICAL RESULTS**

Project: 8114 COMMERCIAL RECYCLING

Pace Project No.: 40236833

Date: 11/23/2021 01:49 PM

Sample: OUTFALL	Lab ID:	40236833001	Collecte	d: 11/11/21	06:00	Received: 11/	12/21 08:50 M	atrix: Water	•
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical	Method: EPA 6	010D Prep	paration Met	hod: E	PA 3010A			
	Pace Anal	ytical Services	- Green Ba	ıy					
Aluminum	740	ug/L	500	90.3	1	11/17/21 06:40	11/19/21 11:30	7429-90-5	
Chromium	2.7J	ug/L	10.0	2.5	1	11/17/21 06:40	11/19/21 11:30	7440-47-3	
Copper	11.3	ug/L	10.0	3.4	1	11/17/21 06:40	11/19/21 11:30	7440-50-8	
Iron	999	ug/L	100	56.7	1	11/17/21 06:40	11/19/21 11:30	7439-89-6	
Zinc	63.5	ug/L	40.0	11.6	1	11/17/21 06:40	11/19/21 11:30	7440-66-6	
410.4 COD	Analytical	Method: EPA 4	10.4 Prepa	aration Meth	od: EF	PA 410.4			
	Pace Anal	ytical Services	- Green Ba	ıy					
Chemical Oxygen Demand	67.7	mg/L	50.0	14.7	1	11/17/21 23:55	11/18/21 02:51		



#### **QUALITY CONTROL DATA**

Project: 8114 COMMERCIAL RECYCLING

Pace Project No.: 40236833

Date: 11/23/2021 01:49 PM

QC Batch: 401976 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D MET

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40236833001

METHOD BLANK: 2321425 Matrix: Water

Associated Lab Samples: 40236833001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<90.3	500	11/19/21 11:01	
Chromium	ug/L	<2.5	10.0	11/19/21 11:01	
Copper	ug/L	<3.4	10.0	11/19/21 11:01	
Iron	ug/L	<56.7	100	11/19/21 11:01	
Zinc	ug/L	<11.6	40.0	11/19/21 11:01	

LABORATORY CONTROL SAMPLE: 2321426 Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Aluminum 10000 10200 102 80-120 ug/L Chromium ug/L 250 252 101 80-120 250 262 Copper ug/L 105 80-120 10000 10300 Iron ug/L 103 80-120 Zinc ug/L 250 263 105 80-120

MATRIX SPIKE & MATRIX	SPIKE DUPLIC	CATE: 2321	427		2321428							
Parameter	4 Units	0236645001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	271J	10000	10000	10300	10400	100	102	75-125	1	20	
Chromium	ug/L	15.5	250	250	265	271	100	102	75-125	2	20	
Copper	ug/L	16.4	250	250	297	308	112	117	75-125	4	20	
Iron	ug/L	58000	10000	10000	70600	71300	126	133	75-125	1	20	P6
Zinc	ug/L	1260	250	250	1580	1580	129	127	75-125	0	20	P6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



#### **QUALITY CONTROL DATA**

Project: 8114 COMMERCIAL RECYCLING

Pace Project No.: 40236833

Date: 11/23/2021 01:49 PM

QC Batch: 402084 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40236833001

METHOD BLANK: 2322233 Matrix: Water

Associated Lab Samples: 40236833001

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Chemical Oxygen Demand mg/L <14.7 50.0 11/18/21 02:48

LABORATORY CONTROL SAMPLE: 2322234

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units Chemical Oxygen Demand 500 518 104 90-110 mg/L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2322235 2322236

MSD MS 40236642007 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Result % Rec % Rec **RPD** RPD Result Conc. Conc. Limits Qual Chemical Oxygen Demand mg/L 57.3 526 526 594 585 102 100 90-110 2 10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2322237 2322238

MS MSD 40237011001 MS MSD MS MSD % Rec Spike Spike Max **RPD** RPD Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits Qual Chemical Oxygen Demand 471 526 526 1010 1020 103 104 90-110 0 10 mg/L

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



#### **QUALIFIERS**

Project: 8114 COMMERCIAL RECYCLING

Pace Project No.: 40236833

#### **DEFINITIONS**

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

TNI - The NELAC Institute.

#### **ANALYTE QUALIFIERS**

Date: 11/23/2021 01:49 PM

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.





# **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 8114 COMMERCIAL RECYCLING

Pace Project No.: 40236833

Date: 11/23/2021 01:49 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40236833001	OUTFALL	EPA 3010A	401976	EPA 6010D	402163
40236833001	OUTFALL	EPA 410.4	402084	EPA 410.4	402090

	(Please Print Clearly)		]	سر_ د							<u>UPPER</u>					Page 1 of	* •
Company Na	me: REI Englisel	ina	]		/			, <b>A</b>			MN: 61	2-607-1	1700	WI: 920-469-2436		260-	7
Branch/Locat	tion: Wausan WI	<del>- 3 -</del>	1 /	/_#	ace	Ana								((		2602	$\mathcal{L}$
Project Conta		l	1 /			www.pa	celabs.c	Um						Quote #:			
Phone:	715-675-978	34	1 '	C	HA	IN	OF	C	US'	TO	DY			Mail To Contact:	Shave	u Carroll	
Project Numb	per: 8/14		A=No		CL C=		Preserva D=HNO3	tion Coc	ies		ol G=Na	юн		Mail To Company:			La
Project Name	: Compacial Reeve	ling	- 1	odium Bisulf			I=Sodium			Other				Mail To Address:	Scarr	Engineering engineering	7
Project State		0	FILTE (YES	RED?	Y/N	Ν	N	,							@ reid	engineerina	)
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(bill	A Level III On your sample B=	Air Biota Charcoal	W = Water DW = Drinki		Analyses Requested	53	107							Invoice To Phone:	-	me	—
☐ EP	A Level IV NOT needed on S =	Oil	GW = Groun SW = Surfac WW = Wast	ce Water	alys	35	lae	b *					-		<del></del>		
PACE LAB#	your sample   SI =	Sludge COLL	WP = Wipe LECTION	MATRIX	Æ	10 ×	50	<b>`</b>				-		CLIENT COMMENTS		JMMENTS Pro Jse Only)	file#
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	TAT subject to approval/surcharge)	- 1	Deap	Toac	u		11/2/	<u>′                                    </u>	1:24	pm		Sen!	7	an 11/11/	26_	and the second	•
Transmit Pre	Date Needed:  Blim Rush Results by (complete what you wan		nquished By:	· Kal	// .	11	/11/2	ate/Time:	: 3:15P	M .	Receive	d By:		Date/Time:			
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Email #2:			Na	14C0	)		12/2		850	)	1///	my	W		21 850	Sample Receipt	РН
Telephone: Fax:		Reli	nquished By:			,	Da	ate/Time			Receive	d ByF		Date/Time:		Cooler Custody	
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L	psmg and tolocod of lidolity							-								Version 6.0 06/14/06	

VG9D

40 mL clear vial DI

**ZPLC** 

GN

ziploc bag

AG5U 100 mL amber glass unpres

AG2S 500 mL amber glass H2SO4

BG3U 250 mL clear glass unpres

Pace Analytical [®]
1241 Bollowus Street Croop Boy MI 5420

Document Name:

Sample Condition Upon Receipt (SCUR)

Document No.:

Document Revised: 26Mar2020

Author:

ENV-FRM-GBAY-0014-Rev.00

Pace Green Bay Quality Office

Sample Condition Upo	on Receipt Form (SCUR)
PET	Project #:
Client Name:	WO#:40236833
Courier: CS Logistics Fed Ex Speedee UPS X V	WUH · 40230033
☐ Client ☐ Pace Other:	
Tracking #: 3033444 - 1	
Custody Seal on Cooler/Box Present. The Seals intac	10230033
Custody Seal on Samples Present: Lyes Rao Seals intac	
Packing Material:    Bubble Wrap    Bubble Bags    Nor	
Thermometer Used SR - 14 Type of Ice: Wet	
Cooler Temperature Uncorr: 5 /Corr:	Person examining contents:
	Tissue is Frozen: Tyes no Date: 1//2/2 Initials:
Temp should be above freezing to 6°C. Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.	Labeled By Initials:
Chain of Custody Present:	1.
Chain of Custody Filled Out:                        ✓ Yes □No □N/A	
Chain of Custody Relinquished:	3.
Sampler Name & Signature on COC:	4.
Samples Arrived within Hold Time: ∠ ves □No	5.
- VOA Samples frozen upon receipt □Yes □No	Date/Time:
Short Hold Time Analysis (<72hr): □Yes ⋈No	6.
Rush Turn Around Time Requested: □Yes ☑No	7.
Sufficient Volume:	8.
For Analysis: "⊠yes □no MS/MSD: □yes ੴno □n/A	
Correct Containers Used:	9.
-Pace Containers Used: Xes □No □N/A	
-Pace IR Containers Used: □Yes □No ▷N/A	
Containers Intact:	10.
Filtered volume received for Dissolved tests	11.
Sample Labels match COC:	12/11/2:00 pm 11/12/2/Mp
-Includes date time ID/Analysis Matrix:	
Trip Blank Present:	13.
Trip Blank Custody Seals Present	
Pace Trip Blank Lot # (if purchased):	
Client Notification/ Resolution:	If checked, see attached form for additional comments
	/Time:
Comments/ Resolution:	
PM Review is documented electronically in LIMs. By releasing the	project, the PM acknowledges they have reviewed the sample logic





November 07, 2023

Jason Christopherson REI 4080 N. 20th Ave Wausau, WI 54401

RE: Project: 8114

Pace Project No.: 40270076

Dear Jason Christopherson:

Enclosed are the analytical results for sample(s) received by the laboratory on October 25, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Green Bay

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

Sincerely,

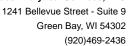
Brian Basten brian.basten@pacelabs.com (920)469-2436

Project Manager

**Enclosures** 

cc: Brian Bailey, REI Engineering







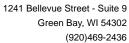
#### **CERTIFICATIONS**

Project: 8114
Pace Project No.: 40270076

# Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky UST Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 12064 North Dakota Certification #: R-150

South Carolina Certification #: 83006001 Texas Certification #: T104704529-21-8 Virginia VELAP Certification ID: 11873 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 USDA Soil Permit #: P330-21-00008 Federal Fish & Wildlife Permit #: 51774A





# **SAMPLE SUMMARY**

Project: 8114
Pace Project No.: 40270076

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40270076001	OUTFALL 1	Water	10/24/23 07:00	10/25/23 08:25
40270076002	OUTFALL 2	Water	10/24/23 07:00	10/25/23 08:25



# **SAMPLE ANALYTE COUNT**

Project: 8114
Pace Project No.: 40270076

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40270076001	OUTFALL 1	EPA 200.7	SIS	5
		EPA 410.4	TJJ	1
40270076002	OUTFALL 2	EPA 200.7	SIS	5
		EPA 410.4	TJJ	1

PASI-G = Pace Analytical Services - Green Bay



# **ANALYTICAL RESULTS**

Project: 8114
Pace Project No.: 40270076

Date: 11/07/2023 09:34 AM

Sample: OUTFALL 1	Lab ID:	40270076001	Collected	l: 10/24/23	3 07:00	Received: 10/	25/23 08:25 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical	Method: EPA 2	00.7 Prepa	ration Meth	od: EP	A 200.7			
	Pace Anal	ytical Services	- Green Bay	,					
Aluminum	3730	ug/L	500	90.3	1	10/31/23 06:14	10/31/23 16:56	7429-90-5	
Chromium	9.0J	ug/L	10.0	2.5	1	10/31/23 06:14	10/31/23 16:56	7440-47-3	
Iron	4680	ug/L	100	56.7	1	10/31/23 06:14	10/31/23 16:56	7439-89-6	
Total Hardness by 2340B	32300	ug/L	5400	1000	1	10/31/23 06:14	10/31/23 16:56		
Zinc	88.6	ug/L	40.0	11.6	1	10/31/23 06:14	10/31/23 16:56	7440-66-6	
410.4 COD	Analytical	Method: EPA 4	10.4 Prepa	ration Meth	od: EP	A 410.4			
	Pace Anal	ytical Services	- Green Bay	,					
Ohamiaal Ourrean Damand	41.0J	mg/L	50.0	14.7	1	11/07/23 05:33	11/07/23 08:21		
Chemical Oxygen Demand	41.00	g, <u>_</u>							
Chemical Oxygen Demand  Sample: OUTFALL 2		40270076002		l: 10/24/23	3 07:00	Received: 10/	25/23 08:25 Ma	atrix: Water	
				l: 10/24/23 LOD	07:00 DF	Received: 10/	25/23 08:25 Ma	atrix: Water  CAS No.	Qual
Sample: OUTFALL 2  Parameters	Lab ID:	<b>40270076002</b> Units	Collected	LOD	DF	Prepared			Qual
Sample: OUTFALL 2  Parameters	Lab ID:  Results  Analytical	40270076002	Collected	LOD .	DF	Prepared			Qual
Sample: OUTFALL 2 Parameters 200.7 MET ICP	Lab ID:  Results  Analytical	40270076002  Units  Method: EPA 2 ytical Services	Collected	LOD .	DF	Prepared A 200.7		CAS No.	Qual
Sample: OUTFALL 2 Parameters  200.7 MET ICP  Aluminum	Lab ID:  Results  Analytical Pace Anal	40270076002 Units	Collected LOQ 00.7 Prepa - Green Bay	LOD ration Meth	DF od: EP	Prepared A 200.7 10/31/23 06:14	Analyzed	CAS No.	Qual
Sample: OUTFALL 2 Parameters  200.7 MET ICP  Aluminum	Lab ID:  Results  Analytical Pace Anal 2670	Units  Method: EPA 2 ytical Services ug/L	Collected LOQ 00.7 Prepa - Green Bay 500	LOD ration Meth	DF od: EP	Prepared A 200.7 10/31/23 06:14 10/31/23 06:14	Analyzed 10/31/23 16:57	CAS No. 7429-90-5 7440-47-3	Qual
Sample: OUTFALL 2  Parameters  200.7 MET ICP  Aluminum Chromium Iron	Lab ID:  Results  Analytical Pace Anal 2670 4.4J	Units  Method: EPA 2 ytical Services ug/L ug/L	Collected LOQ 00.7 Prepa - Green Bay 500 10.0	LOD	DF od: EPa 1 1	Prepared A 200.7  10/31/23 06:14 10/31/23 06:14 10/31/23 06:14	Analyzed  10/31/23 16:57 10/31/23 16:57	CAS No. 7429-90-5 7440-47-3	Qual
Parameters  200.7 MET ICP  Aluminum Chromium Iron Total Hardness by 2340B	Lab ID:  Results  Analytical Pace Anal 2670 4.4J 2310	Units  Method: EPA 2 ytical Services ug/L ug/L ug/L ug/L	Collected LOQ 00.7 Prepa - Green Bay 500 10.0 100	LOD	DF od: EP/ 1 1 1	Prepared A 200.7  10/31/23 06:14 10/31/23 06:14 10/31/23 06:14 10/31/23 06:14	Analyzed  10/31/23 16:57 10/31/23 16:57 10/31/23 16:57	CAS No.  7429-90-5 7440-47-3 7439-89-6	Qual
Sample: OUTFALL 2 Parameters  200.7 MET ICP  Aluminum Chromium	Lab ID:  Results  Analytical Pace Anal 2670 4.4J 2310 43400 14.9J	Units  Hethod: EPA 2 ytical Services ug/L ug/L ug/L ug/L ug/L ug/L	Collected  LOQ  00.7 Prepa - Green Bay  500 10.0 100 5400 40.0	90.3 2.5 56.7 1000 11.6	DF od: EP/	Prepared A 200.7  10/31/23 06:14 10/31/23 06:14 10/31/23 06:14 10/31/23 06:14	Analyzed  10/31/23 16:57 10/31/23 16:57 10/31/23 16:57 10/31/23 16:57	CAS No.  7429-90-5 7440-47-3 7439-89-6	Qual
Sample: OUTFALL 2  Parameters  200.7 MET ICP  Aluminum Chromium Iron Total Hardness by 2340B Zinc	Lab ID:  Results  Analytical Pace Anal 2670 4.4J 2310 43400 14.9J  Analytical	Units  Method: EPA 2 ytical Services ug/L ug/L ug/L ug/L ug/L ug/L	Collected  LOQ  00.7 Prepa - Green Bay 500 10.0 100 5400 40.0  10.4 Prepa	90.3 2.5 56.7 1000 11.6	DF od: EP/	Prepared A 200.7  10/31/23 06:14 10/31/23 06:14 10/31/23 06:14 10/31/23 06:14	Analyzed  10/31/23 16:57 10/31/23 16:57 10/31/23 16:57 10/31/23 16:57	CAS No.  7429-90-5 7440-47-3 7439-89-6	Qual



#### **QUALITY CONTROL DATA**

Project: 8114
Pace Project No.: 40270076

QC Batch: 458997 QC Batch Method: EPA 200.7 Analysis Method: EPA 200.7

Analysis Description: 200.7 MET

Laboratory:

Pace Analytical Services - Green Bay

Associated Lab Samples: 40270076001, 40270076002

METHOD BLANK: 2636370

Date: 11/07/2023 09:34 AM

Matrix: Water

Associated Lab Samples: 40270076001, 40270076002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<90.3	500	10/31/23 16:26	
Chromium	ug/L	<2.5	10.0	10/31/23 16:26	
Iron	ug/L	<56.7	100	10/31/23 16:26	
Total Hardness by 2340B	ug/L	<1000	5400	10/31/23 16:26	
Zinc	ug/L	<11.6	40.0	10/31/23 16:26	

LABORATORY CONTROL SAMPLE:	2636371					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Aluminum	ug/L	10000	9710	97	85-115	_
Chromium	ug/L	250	248	99	85-115	
Iron	ug/L	10000	10100	101	85-115	
Total Hardness by 2340B	ug/L		67100			
Zinc	ug/L	250	242	97	85-115	

MATRIX SPIKE & MATRIX SI	PIKE DUPLI	CATE: 2636	372	2636373								
			MS	MSD								
	4	10270130003	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Aluminum	ug/L	321J	10000	10000	10700	10500	104	101	70-130	2	20	
Chromium	ug/L	3.8J	250	250	270	272	106	107	70-130	1	20	
Iron	ug/L	1250	10000	10000	13200	12100	119	108	70-130	9	20	
Total Hardness by 2340B	ug/L	518000			587000	574000				2		
Zinc	ug/L	751	250	250	1360	1060	242	123	70-130	25	20	M0,R1

MATRIX SPIKE & MATRIX SI	PIKE DUPLI	CATE: 2636	374	2636375												
			MS	MSD												
	4	10270213001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max					
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual				
Aluminum	ug/L	<90.3	10000	10000	9940	10100	99	101	70-130	2	20					
Chromium	ug/L	<2.5	250	250	255	257	101	102	70-130	0	20					
Iron	ug/L	211	10000	10000	10500	10600	103	104	70-130	1	20					
Total Hardness by 2340B	ug/L	<1000			68500	69500				2						
Zinc	ug/L	17.5J	250	250	264	266	99	99	70-130	1	20					

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



#### **QUALITY CONTROL DATA**

Project: 8114
Pace Project No.: 40270076

Date: 11/07/2023 09:34 AM

QC Batch: 459679 Analysis Method:
QC Batch Method: EPA 410.4 Analysis Description:

Analysis Description: 410.4 COD
Laboratory: Pace Analytical Services - Green Bay

EPA 410.4

Associated Lab Samples: 40270076001, 40270076002

METHOD BLANK: 2639849 Matrix: Water

Associated Lab Samples: 40270076001, 40270076002

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Chemical Oxygen Demand mg/L <14.7 50.0 11/07/23 08:20

LABORATORY CONTROL SAMPLE: 2639850

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units Chemical Oxygen Demand 500 519 104 90-110 mg/L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2639851 2639852

MSD MS 40270049001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Result **RPD** RPD Result Conc. Conc. % Rec % Rec Limits Qual Chemical Oxygen Demand mg/L 25.0J 526 526 544 554 99 100 90-110 2 10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2639853 2639854

MS MSD

40270055005 Spike Spike MS MSD MS MSD % Rec Max

**RPD** RPD Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits Qual 99 Chemical Oxygen Demand <15.5 526 526 519 522 99 0 10 mg/L 90-110

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

(920)469-2436



#### **QUALIFIERS**

Project: 8114
Pace Project No.: 40270076

#### **DEFINITIONS**

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

DL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

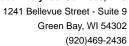
TNI - The NELAC Institute.

#### **ANALYTE QUALIFIERS**

Date: 11/07/2023 09:34 AM

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

R1 RPD value was outside control limits.





# **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 8114
Pace Project No.: 40270076

Date: 11/07/2023 09:34 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40270076001	OUTFALL 1	EPA 200.7	458997	EPA 200.7	459118
40270076002	OUTFALL 2	EPA 200.7	458997	EPA 200.7	459118
40270076001	OUTFALL 1	EPA 410.4	459679	EPA 410.4	459705
40270076002	OUTFALL 2	EPA 410.4	459679	EPA 410.4	459705

Pace Analytical*	CHAIN	CHAIN-OF-CUSTODY Analytical Request Document  Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields										LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here 40270076												
Company			Dilling Info		T - Complet	e all releve	nt fields		١,										(0210010					
RET Engine	ecrina		5	5 AA									ALL	SH	ADEC	) AR	EAS	are	e for LAB USE ONLY					
RET Engine Address: 400 N. 20-10 Au	12 11 15	אלא ענגי	1	•					4	2		ntaine	r Prese	rvatıv	e Type '	**			Lab Project Manager:					
		<u> </u>	Email To:	542 h.	1. 1					eserva	tive Ty								I rric acid, (4) sodium hydroxide, (5) zinc acetate,					
Report To: See Dely W  Copy To: Site Collection Info/Address:									(6) m (C) a	ethan mmoni	ol, (7) so ium hyd	odium iroxide	bisulfate , (D) TSP	e, (8) s l, (U) L	odium th Inpresen	iiosulfa ved, (O	te, (9) f ) Other	nexan 	ne, (A) ascorbic acid, (B) ammonium sulfate,					
Customer Project Name/Number:			State:	County/Ci	ty: Tır	ne Zone Co	llected:	· · · · · ·				1	Analy	/ses					Lab Profile/Line: Lab Sample Receipt Checklist:					
8114																			Custody Seals Present/Intact Y N NA					
Phone: Email: JChristo pless Collected By (print):	[ ] Yes	ce Monitori [ ] No	-	·	Z						*		•		Custody Signatures Present Y N NA Collector Signature Present Y N NA Bottles Intact Y N NA									
Collected By (print):	Purchase Orde Quote #:	er #: <b>-</b>	Ų		DW PWS I				1~		į.		į.		jes.				Correct Bottles Y N NA Sufficient Volume Y N NA					
Collected By (signature):	Turnaround D	ate Require	ed:			ely Packed	on Ice:		15	ľ									Samples Received on Ice Y N NA VOA - Headspace Acceptable Y N NA					
					[ ] Yes	[ ] No			7	•									USDA Regulated Soft Y N NA Samples in molding Time Y N NA					
Sample Disposal: [ ] Dispose as appropriate [ ] Return	Rush: [ ] Sa	me Day	[ ] Next Da	ау	Field Filte [ ] Yes	red (if appli			4).6	<b>,</b>		l							Residual (mloring Present Y N NA Cl Strips:					
[ ] Archive:	[ ] 2 Day	3 Day Expedite Cha		[ ] 5 Day	Analysis:	• •					X				ů.				Sample pH Acceptable  PH Strips:  Sulfide Present  NNA					
* Matrix Codes (Insert in Matrix bo Product (P), Soil/Solid (SL), Oil (Oil									Netals		2								Lead Acetate Strips:					
Customer Sample ID	Matrix *	Comp / Grab	Compos	ted (or site Start)	<u> </u>	site End	Res Cl	# of Ctns	140	700	fare		61		1 .		,		Lab Sample # / Comments:					
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Octoball 2		Grab	10/24	Zam				3		<del> </del>									10017					
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Customer Remarks / Special Condit	ions / Possible	<u>l</u> Hazards:	Type of lo	e Used:	Wet I	Blue Pr	y No	ne	<u> </u>	SHC	RT HO	LDS P	RESENT	(<72	hours):	. Y	N	N/A						
	.,			laterial Use		(1)		***************************************	٠,		Tracki		********		~~~				Temp Blank Received: Y N NA					
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			Radchem	sample(s) s	creened (<	500 cpm):	Y N	/NA		- 4	ples re			Clien	r .Co	urier	, Da	re Cr	Cooler 1 Therm Corr. Factor:OC					
Relinquished by/Company: (Signaty	re)	Date	e/Tj/me:	/	Received b	y/Company	/: (Signati	ure)			Date/			Circii	T		LAB U	_	ONLY Comments:					
Acon Horde		10	14/d	3 9:30	An AS	<del>RS</del>	VR	EZ			10/2	24/2	ر 9 د	3		e#:								
Relinguished by/Cømparly: (Signatu		Date	e/Time:		Received b	y/Company	/: (Signat	ure)			Date/		- //	- 4 1	Acctr Temp	num: Nate:		//	Trip Blank Received: Y N NA					
- Oslon (REE	? 	10	124/23	1.oup	<b>)</b>				•						Prelo		/,	, d	HCL MeOH TSP Other					
Relinquished by/Company: (Signatu	re)		Time:	06)	Received b	y/Company	/: (Signati	ure)	~		Date/			<b>E</b> )	PM:			*	Non Conformance(s): Page 10 of 12 of:					
						,	U				, ,	7												

Effective Date: 8/16/2022

	Sample Preservation, Receipt Form  Project # 40 2 700 74  containers needing preservation have been checked and noted below.  Lab Lot# of pH paper.  Lab Lot# of pH paper.  Sample Preservation, Receipt Form  Project # 40 2 700 74  Initial when completed completed.																																	
•				Glass					L	Plast							Vials					ars		L		General		/OA Vials (>6mm) *	H <2	VaOH+Zn Act pH ≥9	1≥12	1 <2	oH after adjusted	Volume
Pace Lab#	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	везп	BP1U	врзи	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	<b>V</b> G9H	VG9M	VG9D	JGFU	ეცმე	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2	VOA Vials	H2SO4 pH ≤2	NaOH+Zn	NaOH pH≥12	HNO3 pH ≤2	pH after	(mL)
001											ン	)																	X			X		2.5 / 5
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4G1F1 4G4S						04		-3B -3N	•	mL pla mL pla															3									
G5U	100	mL a	mber	glass	unpr	es	В	P3S		mL pl							9M		nL cle		_				25T				Na Th		ate		1	
AG2S	500	mL a	mber	glass	H2S	O4	В	P2Z		mL pl						VC	9D	40 m	nL cle	ar via	DI			4	PLC		c bag							
3G3U	250	mL c	lear g	lass ι	unpre	S																		1	N 1								_	age <u>1</u> of
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DC#_Title: ENV-FRM-GBAY-0014 v03_SCUR

Effective Date: 8/17/2022

Sample Condition Upon Receipt Form (SCUR)

Campio Conamon	оро.	Project #:
Client Name: REJ	_	WO#: 40270076
Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS	Zw	
☐ Client ☐ Pace Other:		11 81 11 84 18 18 11 21 11 81
Tracking #: 3720873-1		40270076
Custody Seal on Cooler/Box Present:  ✓ yes ☐ no Seal	s intact:	
· · · · · · · · · · · · · · · · · · ·		☐ yes ☐ no
	None	•
Thermometer Used SR - 139 Type of Ice	: Wet	Blue Dry None
Cooler Temperature Uncorr: /. O /Corr: /. O		Person examining contents:
Temp Blank Present:	ogical T	Tissue is Frozen: ☐ yes ☐ no Date: ### Date: ### Date: #### Date: ####################################
Temp should be above freezing to 6°C. Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.		Labeled By Initials:
Chain of Custody Present: ✓ Yes □No	□n/a	1.
Chain of Custody Filled Out: Yes □No	□n/a	2.
Chain of Custody Relinquished: Yes □No	□n/a	3.
Sampler Name & Signature on COC:	□n/a	4.
Samples Arrived within Hold Time: Yes □No		5.
- DI VOA Samples frozen upon receipt ☐Yes ☐No		Date/Time:
Short Hold Time Analysis (<72hr):		6.
Rush Turn Around Time Requested:		7.
Sufficient Volume:		8.
For Analysis: Tyes Ono MS/MSD: Oyes No	□n/a	
Correct Containers Used: ☐Yes ☐No		9.
Correct Type: Pace Green Bay, Pace IR Non-Pace		
Containers Intact: ✓ Yes □No		10.
Filtered volume received for Dissolved tests	N/A	11.
Sample Labels match COC: Yes □No	□N/A	12.
-Includes date/time/ID/Analysis Matrix:		
Trip Blank Present: □Yes □No	[ZN/A	13.
Trip Blank Custody Seals Present	N/A	
Pace Trip Blank Lot # (if purchased):		
Client Notification/ Resolution:		If checked, see attached form for additional comments
Person Contacted:Comments/ Resolution:	_Date/	ime:
Community (Coolidan)		
PM Review is documented electronically in LIMs. By releasi	ng the	project, the PM acknowledges they have reviewed the sample logi

Page Zof Z