From: <u>Curt Publow</u>

To: <u>IDEM OLQ Solid Waste Permits Submittals</u>; <u>Wren, Kira</u>

Cc: <u>Curt Publow</u>

Subject:SSLF StW Submittal 07.02.24.pdfDate:Tuesday, July 2, 2024 6:47:43 AMAttachments:SSLF StW Submittal 07.02.24.pdf

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Good morning, here is the latest storm water submittal for South Side Landfill. If you have any questions, please let us know.

Thank you, Curt Publow South Side Landfill, Inc. 2561 Kentucky Ave. Indianapolis, IN 46221 317-710-3534 www.ssidelandfill.com



2561 KENTUCKY AVENUE · PHONE (317) 247-6808 · INDIANAPOLIS, INDIANA 46221

July 1, 2024

Via: Email

Kira Wren IDEM, Office of Land Quality Solid Waste Permit Section 100 North Senate Ave. Indianapolis, IN 46204-2251

Re:

Storm Water Analysis South Side Landfill FP 49-01

Dear Ms. Wren:

In accordance with 329 IAC 10-20-11 South Side Landfill (SSLF) has attached analytical results, storm water basin sampling results, and storm water investigation – sampling field sheet for your review. Samples at DP#5 were collected on May 14, 2024, but there was no flow at the other outfalls on that date. Per permit condition G5 of the facility's permit, an electronic data file has been submitted via email to olqdata@idem.in.gov. This pdf copy of the complete report is being submitted to you by email.

During this event, there was only discharge from outfall DP#5 therefore there are no results for outfalls DP#2. DP#3, or DP#4. Outfall DP #1 was eliminated from the facility prior to the issuance of the current permit, so the basin report for Outfall DP #1 is not included with this report. There were not any outfalls and/or sedimentation basins added or eliminated since the last semi-annual report.

The results for DP#5 were below the site-specific benchmarks for all parameters.

If you have any questions or need more information, please contact me at 317-710-3534.

Sincerely

SOUTH SIDE LANDFILL, INC.

Curt Publow

Curt Publow

From: Curt Publow

Sent: Tuesday, July 2, 2024 6:34 AM

To: olqdata@idem.in.gov

Cc: Curt Publow

Subject: South Side Landfill 49-01 Storm Water Sampling Results

Attachments: SSLF 05.14.24.txt

Attached, please find the latest storm water sampling results for South Side Landfill.

Thank you, Curt Publow South Side Landfill, Inc. 2561 Kentucky Ave. Indianapolis, IN 46221 317-710-3534 www.ssidelandfill.com "Pace Analytical Services, Inc."

South Side Landfill 49-01

Storm Water

SampleDate	Sample	PointName Laborat	orySampleID	SampleTy	ype	Species	Name	Concent	ration
ConcentrationU	nits	Detected	DetectionLimit	Analyti	calMetho	ds	Estimat	edValue	Comments
SampleMedium	Progra	ımArea							
5/14/2024	DP#5	50373139001	Regular field	рН	7.8	standar	d units	Yes	0.1
SM4500-H+ B - 2	2000	NO	Storm water	Solid Wa	aste				
5/14/2024	DP#5	50373139001	Regular BOD5	8.5	mg/l	Yes	2	SM 5210	B-2001 NO
Storm v	water	Solid Waste							
5/14/2024	DP#5	50373139001	Regular TSS	128	mg/l	Yes	8.1	SM 2540	D 19th Ed.
NO	Storm	water Solid W	laste						
5/14/2024	DP#5	50373139001	Regular total	Phenolics	0.01	${\sf mg/l}$	No	0.01	4-AAP EPA
420.4 NO		Storm water	Solid Waste						
5/14/2024	DP#5	50373139001	Regular Ammoni	a 0.1	mg/l	No	0.1	SM4500-I	NH3 G - 1997
NO	Storm	water Solid W	laste						
5/14/2024	DP#5	50373139001	Regular Total	Iron	3.1	mg/l	Yes	0.1	EPA 200.7
Rev 4.4 NO		Storm water	Solid Waste						

Storm Water Basin Sampling Results Report

South Side Landfill IDEM Permit No. 49-01

	Sample		Time	Name	Date	Laboratory	Total	Ammonia			Field	Total
Outfall	Location	Date	Sample	of	Analysis	Conducting	iron	as N	BOD ₅	TSS	рН	Phenolics
			Collected	Sampler	Reported	Analysis	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L)
						D.L.	0.020	0.10	2.0	1	0.10	0.005
						Test Method	E200.7	SM4500	M5210 B	SM2540D	SM4500	E420.1
DP #2	DP #2			C. Publow		No discharge during 1st half of 2019						
DP #2	DP #2			C. Publow			No discharge during 2nd half of 2019					
DP #2	DP #2			C. Publow		No discharge during 1st half of 2020						
DP #2	DP #2			C. Publow		No discharge during 2nd half of 2020						
DP #2	DP #2			C. Publow		+		No discharge				
DP #2	DP #2			C. Publow			N	lo discharge	during 2nd	half of 2021		
DP #2	DP #2			C. Publow			ì	No discharge	during 1st	half of 2022		
DP #2	DP #2			C. Publow						half of 2022		
DP #2	DP #2			C. Publow			l l	Vo discharge	e during 1st	half of 2023		_
DP #2	DP #2			C. Publow						half of 2023		
DP #2	DP #2			C. Publow			ì	Vo discharge	e during 1st	half of 2024		
DP #2	DP #2											
DP #2	DP #2											
CERTIFI	CATION											

I. Curt Publow (responsible corporate official or designee), certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluate the information submitted. Based on my inquiry of the persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that I am authorized to submit this information (329 IAC 10-11-3(d)).

A. Name: Curt Publow	C. Title: Environmental Compliance Manager
B. Signature: (with all me)	D. Date Signed: 7/1/24

- Note: 1. One report sheet per basin sampled
 - 2. A complete copy of the laboratory report, including chain of custody, is attached for each sample
 - 3. D.L. = Detection Limit
 - 4. ND = Not Detected at the reporting limit

Storm Water Basin Sampling Results Report

South Side Landfill IDEM Permit No. 49-01

	Sample		Time	Name	Date	Laboratory	Total	Ammonia		No.	Field	Total
Outfall	Location	Date	Sample	of	Analysis	Conducting	Iron	as N	BOD ₅	TSS	рН	Phenolics
			Collected	Sampler	Reported	Analysis	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L)
						D.L.	0.020	0.10	2.0	1	0.10	0.005
						Test Method	E200.7	SM4500	M5210 B	SM2540D	SM4500	E420.1
DP #3	DP #3	9/23/19	7:20 AM	C. Publow	10/3/19	Pace	2.6	0.15	7.6	76	8.3	ND
DP #3	DP #3	12/29/19	8:15 AM	C. Publow	1/13/20	Pace	1	12.5	19.9	46	8.17	ND
DP #3	DP #3	7/7/20	2:50 PM	C. Publow	7/21/20	Pace	4	0.31	5.7	90	8.1	ND
DP #3	DP #3	11/30/20	8:25 AM	C. Publow	12/11/20	Pace	0.18	17.7	7.8	3	8.1	ND
DP #3	DP #3	4/29/21	7:41 AM	C. Publow	5/12/21	Pace	1.4	0.18	9.1	67	8.24	0.041
DP #3	DP #3	11/11/21	2:25 PM	C. Publow	11/29/21	Pace	4.1	4.8	66.2	168	8	0.0466
DP #3	DP #3	7/8/22	10:20 AM	C. Publow	7/22/22	Pace	1.5	0.33	6.4	83.3	7.8	ND
DP #3	DP #3	12/14/22	9:33 AM	C. Publow	12/28/22	Pace	0.52	25.4	10.4	14.1	8.25	ND
DP #3	DP #3				No dischar	ge during 1st h	nalf of 2023					
DP #3	DP #3	1/12/24	1:10 PM	C. Publow	1/26/24	Pace	3.7	ND	ND	65.2	7.9	ND
DP #3	DP #3				No dischar	ge during 1st h	nalf of 2024					
DP #3	DP #3			· ·								
DP #3	DP #3											

CERTIFICATION

I, Curt Publow (responsible corporate official or designee), certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluate the information submitted. Based on my inquiry of the persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that I am authorized to submit this information (329 IAC 10-11-3(d)).

A. Name: Curt Publow	C. Title: Environmental Compliance Manager
B. Signature: unfilla	D. Date Signed: 7/1/z4

Note: 1. One report sheet per basin sampled

- 2. A complete copy of the laboratory report, including chain of custody, is attached for each sample
- 3. D.L. = Detection Limit
- 4. ND = Not Detected at the reporting limit

Storm Water Basin Sampling Results Report

South Side Landfill IDEM Permit No. 49-01

	Sample		Time	Name	Date	Laboratory	Total	Ammonia			Field	Total
Outfall	Location	Date	Sample	of	Analysis	Conducting	Iron	as N	BOD₅	TSS	рН	Phenolics
			Collected	Sampler	Reported	Analysis	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L)
						D.L.	0.020	0.10	2	1	0.10	0.005
						Test Method	E200.7	SM4500	M5210 B	SM2540D	SM4500	E420.1
DP #4	DP #4				No dischar	ge during 1st h	alf of 2019					
DP #4	DP #4	12/29/19	8:25 AM	C. Publow	1/13/20	Pace	0.41	8.4	8	15	8.3	ND
DP #4	DP #4				No dischar	ge during 1st h	alf of 2020					
DP #4	DP #4				No discharg	je during 2nd l	nalf of 2020)				
DP #4	DP #4				No dischar	ge during 1st h	alf of 2021					
DP #4	DP #4	11/11/21	2:35 PM	C. Publow	11/29/21	Pace	0.55	4.6	6.6	20.6	8.2	ND
DP #4	DP #4				No dischar	ge during 1st h	alf of 2022					
DP #4	DP #4		and the state of t		No discharg	ge during 2nd l	nalf of 2022	2				
DP #4	DP #4	_			No dischar	ge during 1st h	alf of 2023					
DP #4	DP #4	1/12/24	1:20 PM	C. Publow	1/26/24	Pace	6.7	ND	6.5	184	8.2	ND
DP #4	DP #4				No dischar	ge during 1st h	nalf of 2024					
DP #4	DP #4					T T T T T T T T T T T T T T T T T T T						
DP #4	DP #4					Wilder to the state of the stat						

ICERTIFICATION

I. Curt Publow (responsible corporate official or designee), certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluate the information submitted. Based on my inquiry of the persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that I am authorized to submit this information (329 IAC 10-11-3(d)).

A. Name: Curt Publow	C. Title: Environmental Compliance Manager
B. Signature: uf llan	D. Date Signed: 7/1/2 4

- Note: 1. One report sheet per basin sampled
 - 2. A complete copy of the laboratory report, including chain of custody, is attached for each sample
 - 3. D.L. = Detection Limit
 - 4. ND = Not Detected at the reporting limit

Storm Water Basin Sampling Results Report

South Side Landfill IDEM Permit No. 49-01

	Sample		Time	Name	Date	Laboratory	Total	Ammonia			Field	Total
Outfall	Location	Date	Sample	of	Analysis	Conducting	Iron	as N	BOD_5	TSS	рН	Phenolics
			Collected	Sampler	Reported	Analysis	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L)
						D.L.	0.020	0.10	2.0	1	0,10	0.005
						Test Method	E200.7	SM4500	M5210 B	SM2540D	SM4500	E420.1
DP #5	DP #5	9/23/19	7:32 AM	C. Publow	10/3/19	Pace	0.24	ND	ND	16	7.8	ND
DP #5	DP #5	12/29/19	8:35 AM	C. Publow	1/13/20	Pace	0.27	0.18	2.6	14	7.87	ND
DP #5	DP #5	7/7/20	3:00 PM	C. Publow	7/21/20	Pace	1.6	ND	ND	87	7.9	ND
DP #5	DP #5	11/30/20	8:38 AM	C. Publow	12/11/20	Pace	0.21	0.44	ND	6	8.3	ND
DP #5	DP #5	4/29/21	8:10 AM	C. Publow	5/12/21	Pace	7.4	0.18	5.1	325	8.1	ND
DP #5	DP #5	5/26/21	8:15 AM	C. Publow	6/10/21	Pace	0.62	0.13	3.7	26	7.75	ND ND
DP #5	DP #5	11/11/21	2:45 PM	C. Publow	11/29/21	Pace	0.99	0.52	3.8	31.2	8	ND
DP #5	DP #5	7/8/22	10:35 AM	C. Publow	7/22/22	Pace	0.28	ND	ND	9	7.8	ND
DP #5	DP #5	12/14/22	10:30 AM	C. Publow	12/28/22	Pace	0.27	0.17	ND	7.1	8.27	ND
DP #5	DP #5	9/12/23	8:17 AM	C. Publow	9/26/23	Pace	0.27	0.12	4.1	7.9	8.1	ND
DP #5	DP #5	12/29/23	11:08 AM	C. Publow	1/11/24	Pace	0.16	0.12	ND	ND	7.9	ND
DP #5	DP #5	5/14/24	1:30 PM	C. Publow	5/31/24	Pace	3.1	ND	8.5	128	7.8	ND
DP #5	DP #5										, and a second	

CERTIFICATION

I, Curt Publow (responsible corporate official or designee), certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluate the information submitted. Based on my inquiry of the persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that I am authorized to submit this information (329 IAC 10-11-3(d)).

A. Name: Curt Publow	C. Title: Environmental Compliance Manager
B. Signature: July	D. Date Signed: 7/1/24

- Note: 1. One report sheet per basin sampled
 - 2. A complete copy of the laboratory report, including chain of custody, is attached for each sample
 - 3. D.L. = Detection Limit
 - 4. ND = Not Detected at the reporting limit

Storm Water Investigation - Sampling Field Sheet

Site Name:	Site Name: South Side Landfill, Inc. County: Marion								
Sample Location:	DP#5								
	5/14/24		Time:	13:30					
Sample pH (std.uni	F		strument Used:	A2					
Instrument Calibrat	tion Notes:	4.1	10.2 4.0	10.0	manadadadaday ya qayimma aa				
Instrument Calibration Notes: 4.1 , 10. z , 4.0 , 10.0 Other Field Measurements									
Containers		maidines (88 e Mille) Si							
<u>Volume</u>	<u>Material</u>		Quantity	<u>Preservative</u>	<u>Analysis</u>				
1,000	Plastic		2	None	BOD, TSS				
250 ml	Plastic		1	H₂SO₄	NH ₃ -N				
250 ml	Plastic		1	HNO ₃	Total Iron				
250 ml	Glass / Amber		1	H₂SO₄	Total Phenolics				
				Addition Addition Addition					
Samples Iced?	XYes		Container Source Pace	Preservative Source	Pace				
Sample Appearance	e: (color, odor, cla	rity, su:	spended solids, r	eaction to preservative	ve, etc:)				
		-	=	No reactions					
	·								
Sampling Equipme	nt Used: Only F	Pace Ana	alytical bottles were	used during collection of	samples.				
Other Notes:	Samples were collec	ted and i	mmediately placed i	n a cooler with ice.					
Samples were hand de	elivered to Pace Analy	rtical.							
	Sampler Name (prin	4) (rt Publow						





May 31, 2024

Curt Publow South Side Landfill, Inc 2561 Kentucky Avenue Indianapolis, IN 46221

RE: Project: SSLF Storm Water

Pace Project No.: 50373139

Dear Curt Publow:

Enclosed are the analytical results for sample(s) received by the laboratory on May 15, 2024. 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 - Indianapolis

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

Sincerely,

Olivia Deck olivia.deck@pacelabs.com (317)228-3102 Project Manager

Enclosures

cc: JIM FLETCHER, DECATUR HILLS INC.







CERTIFICATIONS

Project: SSLF Storm Water

Pace Project No.: 50373139

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177 Kentucky UST Agency Interest #: 80226 Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204 Texas Certification #: T104704355 Washington Dept of Ecology #: C1081 Wisconsin Laboratory #: 999788130

USDA Foreign Soil Permit #: 525-23-13-23119 USDA Compliance Agreement #: IN-SL-22-001





SAMPLE SUMMARY

Project: SSLF Storm Water

Pace Project No.: 50373139

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50373139001	DP#5	Water	05/14/24 13:30	05/15/24 10:40



SAMPLE ANALYTE COUNT

Project: SSLF Storm Water

Pace Project No.: 50373139

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50373139001	DP#5	EPA 200.7	ELK	1	PASI-I
		SM 2540D	IRH	1	PASI-I
		SM 5210B	LHZ	1	PASI-I
		EPA 420.4	ZM	1	PASI-I
		SM 4500-NH3 G	OAS	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis



ANALYTICAL RESULTS

Project: SSLF Storm Water

Pace Project No.: 50373139

Date: 05/31/2024 09:42 AM

Sample: DP#5	Lab ID: 503	73139001	Collected: 05/14/2	24 13:30	Received: 05	5/15/24 10:40 N	latrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Met Pace Analytica		Indianapolis					
Field pH	7.8	Std. Units		1		05/14/24 13:30		
200.7 Metals, Total	Analytical Met Pace Analytica		D.7 Preparation Me Indianapolis	thod: EF	PA 200.7			
Iron	3.1	mg/L	0.10	1	05/21/24 20:38	05/23/24 12:23	7439-89-6	
2540D Total Suspended Solids	Analytical Met Pace Analytica							
Total Suspended Solids	128	mg/L	8.1	1		05/20/24 20:04		
5210B BOD, 5 day	Analytical Met Pace Analytica		0B Preparation Me Indianapolis	thod: SN	И 5210B			
BOD, 5 day	8.5	mg/L	2.0	1	05/15/24 17:18	05/20/24 13:38		
420.4 Phenolics, Total	Analytical Met Pace Analytica		0.4 Preparation Me Indianapolis	thod: EF	PA 420.4			
Phenolics, Total Recoverable	ND	ug/L	10.0	1	05/23/24 10:00	05/23/24 14:29	64743-03-9	
4500 Ammonia Water	Analytical Met Pace Analytica							
Nitrogen, Ammonia	ND	mg/L	0.10	1		05/22/24 13:28	7664-41-7	



SSLF Storm Water Project:

Pace Project No.: 50373139

QC Batch: QC Batch Method: 790983

EPA 200.7

Analysis Method:

EPA 200.7

Analysis Description:

200.7 Metals, Total

Laboratory:

Pace Analytical Services - Indianapolis

Associated Lab Samples: 50373139001

METHOD BLANK:

Matrix: Water

Associated Lab Samples: 50373139001

> Blank Result

Reporting Limit

Analyzed

Qualifiers

Parameter Iron

Units mg/L

ND

0.10 05/23/24 11:37

LABORATORY CONTROL SAMPLE: 3619446

Parameter

Units mg/L

Units

mg/L

Result

363 ug/L

mg/L

Spike Conc.

LCS Result

LCS % Rec % Rec Limits

Qualifiers

MATRIX SPIKE SAMPLE:

Date: 05/31/2024 09:42 AM

Iron

Iron

Iron

3619447

Parameter

50373089001 Result

10

Spike Conc.

10

3619449

9.0

MS Result

90

9.3

MS % Rec

90

85-115

% Rec Limits

70-130

Qualifiers

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

3619448

250 ug/L

MS

MSD

MSD

% Rec

Max **RPD**

RPD Qual

50373089005 Parameter Units

MS

Spike

Conc.

10

MSD Spike

Conc. Result 10

Result 9.3 9.1

% Rec 87

MS

% Rec Limits 89 70-130

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:

SSLF Storm Water

Pace Project No.:

50373139

QC Batch:

790908

QC Batch Method:

SM 2540D

Analysis Method:

SM 2540D

Analysis Description:

2540D Total Suspended Solids

Laboratory:

Pace Analytical Services - Indianapolis

Associated Lab Samples: 50373139001

METHOD BLANK:

Matrix: Water

Associated Lab Samples: 50373139001

Parameter

Blank Result Reporting Limit

95.0

Analyzed

Qualifiers

Total Suspended Solids

Units mg/L

Units

mg/L

mg/L

ND

05/20/24 20:04

LABORATORY CONTROL SAMPLE:

Parameter

Parameter

3619213

Spike Conc.

100

LCS Result

LCS % Rec % Rec Limits

Qualifiers

10 R1

10 R1

SAMPLE DUPLICATE: 3619214

Total Suspended Solids

Date: 05/31/2024 09:42 AM

Total Suspended Solids

50373131001 Units

Dup Result Result

108

138

RPD

89

95

Max **RPD**

80-120

Qualifiers

SAMPLE DUPLICATE: 3619215

Parameter Units Total Suspended Solids mg/L 50373159001 Result

Dup Result

282

156

RPD 12

Max RPD

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:

SSLF Storm Water

Pace Project No.:

50373139

QC Batch:

QC Batch Method:

790158

SM 5210B

Analysis Method:

SM 5210B

Analysis Description:

5210B BOD, 5 day

Laboratory:

Blank

Result

Pace Analytical Services - Indianapolis

Associated Lab Samples:

50373139001

Matrix: Water

METHOD BLANK: 3615232 Associated Lab Samples:

50373139001

Parameter

Units

Reporting

Limit

Qualifiers Analyzed

mg/L ND 2.0 05/20/24 13:31

LABORATORY CONTROL SAMPLE:

Parameter

3615234

Units

mg/L

Units

Spike Conc.

LCS Result

LCS % Rec % Rec Limits

Qualifiers

BOD, 5 day

BOD, 5 day

SAMPLE DUPLICATE: 3615235

50373160001

198

Dup Result

201

RPD

102

Max **RPD**

85-115

Qualifiers

BOD, 5 day

Date: 05/31/2024 09:42 AM

Parameter

mg/L

Result 440

390

12

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:

SSLF Storm Water

Pace Project No.:

50373139

QC Batch:

791585

QC Batch Method: EPA 420.4

Analysis Method:

Analysis Description:

EPA 420.4

420.4 Phenolics

Laboratory:

Result

Pace Analytical Services - Indianapolis

Associated Lab Samples: 50373139001

METHOD BLANK:

Matrix: Water

Associated Lab Samples: 50373139001

Blank

Reporting Limit

Analyzed

102

Qualifiers

Phenolics, Total Recoverable

Units ug/L

ND

10.0 05/23/24 14:27

LABORATORY CONTROL SAMPLE:

Parameter

Parameter

3622189

Spike Conc.

LCS Result

LCS % Rec % Rec Limits

Qualifiers

Phenolics, Total Recoverable

Units ug/L

50373243001

Result

ug/L

79.0

51.2

3622191

MS

Result

229

50

90-110

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

3622190

MSD

MS Spike Conc.

167

Spike Conc.

167

MSD Result

MS % Rec

90

MSD % Rec

70

100

% Rec **RPD** Limits

90-110

Max RPD Qual

20 M0

Phenolics, Total Recoverable

MATRIX SPIKE SAMPLE:

Date: 05/31/2024 09:42 AM

Parameter

3622192

Units

ug/L

Parameter Phenolics, Total Recoverable

50373409001 Units Result

Spike Conc. <0.010 mg/L

MS Result

53.0

196

MS % Rec

% Rec Limits

90-110

Qualifiers

16

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:

SSLF Storm Water

Pace Project No.:

50373139

QC Batch:

791376

QC Batch Method: SM 4500-NH3 G Analysis Method:

SM 4500-NH3 G

Analysis Description:

4500 Ammonia

Laboratory:

Blank

Result

Pace Analytical Services - Indianapolis

Associated Lab Samples:

Associated Lab Samples:

50373139001

METHOD BLANK:

50373139001

Parameter

Units

Reporting

Matrix: Water

Limit Analyzed

Qualifiers

Nitrogen, Ammonia

mg/L

ND

0.10 05/22/24 12:45

LABORATORY CONTROL SAMPLE:

Parameter

3621147

Spike Conc.

LCS Result

5

133

LCS % Rec

MSD

% Rec Limits

Qualifiers

Nitrogen, Ammonia

Parameter

Date: 05/31/2024 09:42 AM

Units mg/L

Result

2.0

5.1

102

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

3621148

MS 50373114002

MSD Spike Spike Conc. Conc.

5

MS Result Result

7.0

100

3621149

MS % Rec

MSD % Rec

98

92

90-110

% Rec Limits

Max **RPD** RPD

20

Qual

MATRIX SPIKE SAMPLE:

Nitrogen, Ammonia

3621153

Parameter Units Nitrogen, Ammonia mg/L

Units

mg/L

50373114003 Result

Spike Conc.

MS Result

226

6.9

MS % Rec

99

% Rec Limits

90-110

90-110

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.



QUALIFIERS

Project: SSLF Storm Water

Pace Project No.: 50373139

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 adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

Date: 05/31/2024 09:42 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: SSLF Storm Water

Pace Project No.: 50373139

Date: 05/31/2024 09:42 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50373139001	DP#5				
50373139001	DP#5	EPA 200.7	790983	EPA 200.7	791650
50373139001	DP#5	SM 2540D	790908		
50373139001	DP#5	SM 5210B	790158	SM 5210B	790222
50373139001	DP#5	EPA 420.4	791585	EPA 420.4	791682
50373139001	DP#5	SM 4500-NH3 G	791376		



CHA

WO#:50373139



ument

accurately.

Section Require	n A d Client Information:	Section I Required		Informatio	on:			50373	113	8															Pag	e:	1	of 1		
Compan	South Side Landfill	Report To:	Curt	Publow	1					Atter	ntion:	(Curt F	ublo	w						1									
Address		Сору То:	Jim F	letcher	r					Com	pany	Name	S	outh	Side	Land	dfill				RE	GULA	ATOR	Y AGE	ENCY					
							-			Addr	ess:										Г	NPE	DES	T (GROU	ND W	ATER	DRINKIN	3 WATER	
Email To	cpublow@ssidelandfill.com	Purchase	Order N	o.: SS	SLF		-				Quote)									T	UST	Г	F	RCRA		Г	OTHER		_
Phone:	317-270-5543 Fax:	Project Na	me:	SSLF S	Storm Wa	ater					Projec	ct (Olivia	Dec	k						Si	te Lo	cation			and the same of th				
	ted Due Date/TAT:	Project Nu	mber:							-	Profile	e#: 2	1999								7	SI	TATE:	_	IN					
	and the second s					-	-					-						R	eque	estec	d Ana	lysis	Filter	ed (Y/	N)	1				
	Section D Valid Matrix C		(F)	6						1	T				1		N/A		T	T	T	П		П	T					
			codes to left)	C=COMP)	*	COLLI	ECTED		,		-	T	rese	rvati	ves	_	Α.	N	+	+	+	-	+	-						
	WATER WASTE WATER PRODUCT	WT WW	id code		COMPOSITE S	START	COMPOS END/GF	SITE	COLLECTION									П									9			
	SOIL/SOLID OIL	SL OL	(see valid	(G=GRAB					OLLE	S							-			-						1	3			
	SAMPLE ID WIPE AIR	WP AR OT)=9)					AT C	KER.		П		1			est		_	(NOCN)	2						June			
	(A-Z, 0-9 / ,-) OTHER Sample IDs MUST BE UNIQUE	TS	l SO	TYPE						IAI	ved						T Sis	တ္တ	Z - K							1	Chic			
#			× ×	LET					LETI	S	eser	4	8	-	203	anol	alys	TSS	onis		5						Inal			
ITEM			MATRIX CODE	SAMPLE	DATE	TIME	DATE	TIME	SAMPLE TEMP	# OF CONTAINERS	Unpreserved	H ₂ SO₄	HC H	NaOH	Na ₂ S ₂ O ₃	Methanol	Analysis	BOD,	Ammonia -	Iron - Total	SIGIO						Residual Chlorine (Y/N)	e Project N	lo./ Lab I.D).
1	DP#5		WT	G			5-14-24	11:30p		5	2	2	1					~	Ve		1							001	- N. W.	
2																														
3																														
4																		Ц		_	1				_					
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6									_	_	_	\sqcup			-	_		Н	-	4	+		_	\perp	-	Н	-			
7			\vdash						-	-	+	\vdash	-	-	-	+	1	Н	-	+	+	\vdash	+	-	+	\vdash	-			
8			\vdash	-						-	+	\vdash	+	-	+	+	-	H	-	+	+	\vdash	+	-	+	\vdash	_			
9			\vdash						-	⊢	+	\vdash	+	-	\vdash	+	-	Н	+	+	+	\vdash	+	+	+	\vdash	+			
10			+	-		-			-	\vdash	+	H	+	-	+	+	1	H	-	+		H	+	\vdash	+	+	+			
11		-		-					-	+	+	+	+	-	+	+	1	H		+	+	1	+	+	+	+	-			
12	ADDITIONAL COMMENTS	1	RELI	NQUIŞHI	ED BY / AF	FFILIATIO	ON	DATE			TIME				ACC	EPTE	D BY	/ AFF	ILIAT	ION		Di	ATE	TI	ME	_	SAN	MPLE CONDIT	IONS	
Field pl	DP#5 7.8	1	10	Di	11.		LF	5-15			0:1		111	1	1	0	-	556						10:1			T	T		
1010	DEATS 7.0	0	10	VA A	car /					-	-	-	ME		7	1				B	ace	0	5/24	1/2	JAI	1	17		11.	
		u	JE Y	MA				5/15/	24	10	1:40	JAM!	6	1/	er	w	976	W.	KHI	(1	are	511	2124	10	40	1.6	2 4	N	y	
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					-		PRINT Nan				7	-	. 0	./ 1		_					100					in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)	
					-					1	1	2	P	3	00	,		DA	ATE S	igned		- /.				Temp in	lce ()	Cust	mple (Y)	
							SIGNATUR	CE OF SAME	LER		- 1	- 1	1/-	21	Ma	_		I (N	M/DD	D/YY):	5	11	4/	24		-	~	Se	Sa	



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents	DIVI	Y C	5/15/24 11:40	/		
1. Courier: □FED EX JUPS □CLIENT □PACE	□NOM/1	JETT I	OTHER 5. Packing Material:	8 Bubbl	e Bags	
2. Custody Seal on Cooler/Box Present: Yes	M No		None	Other		
(If yes)Seals Intact: ☐ Yes ☐ No (leave blank	if no seals	were prese	ent) 6. Ice Type: Wet 🗆 Blue 🗀 Non			
3. Thermometer: 12345678 ABCD 4. Cooler Temperature(s): (1971-1971-1971-1971-1971-1971-1971-1971	EFGH)	7. Was the PM notified of out of temp cooler?: Cooler temp should be above freezing to 6°C	llyes	□No	NA
(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECE	IVED (use Cor	mments belov	w to add more) 8. EZ Bottle Order? Yes No			
			If yes but not on COC what is the EZ Bottle Order Number?:	571	0	
All	discrepand	cies will be	e written out in the comments section below.			
	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		/	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCI.			
Short Hold Time Analysis (48 hours or less)? Analysis:	/		Circle: NO3 (<2) HZSO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:	52	Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Rush TAT Requested (4 days or less):		V	Residual Chlorine Check (Total/Amenable/Free Cyanide)			/
Custody Signatures Present?	/		Headspace Wisconsin Sulfide?			
Containers Intact?:	V		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	/		Trip Blank Present?		/	
Extra labels on Terracore Vials? (soils only)		NA	Trip Blank Custody Seals?:			
COMMENTS:						
	-					
					-	

Sample Container Count

** Place a RED dot on containers

that are out of conformance **

			MeOH (only)	1		ı				ABAD	ER G	1 400				÷		DI	ACT	10					ОТ	ıco			Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
			SBS							AIVID	EKG	LASS						PL	AST	IC					OTI	1EK			Red	Yellow	Green	Black
COC Line Item	WGFU	WGKU BG1U	R	рсэн Усэн	VOA VIAL HS >6mm	VG9U DG9U	VG9T	AGOU	AG1H	AG10	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	вьзо	BP3N	BP3F	BP3S	BP3B	BP3Z	ССЗН	CG3F	Syringe Kit		Matrix	HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9
1												1			2				1		1							WT	-	/		
2																																
3																											-					
4																																
5																																
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Container Codes

	Glass												
DG9H	40mL HCl amber voa vial	BG1T	glass										
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass										
DG9S	40mL H2SO4 amber vial	CG3U	250mL Unpres Clear Glass										
DG9T	40mL Na Thio amber vial	AG0U	100mL unpres amber glass										
DG9U	40mL unpreserved amber vial	AG1H	1L HCl amber glass										
VG9H	40mL HCl clear vial	AG1S	1L H2SO4 amber glass										
VG9T	40mL Na Thio. clear vial	AG1T	1L Na Thiosulfate amber glass										
VG9U	40mL unpreserved clear vial	AG1U	1liter unpres amber glass										
I	40mL w/hexane wipe vial	AG2N	500mL HNO3 amber glass										
WGKU	8oz unpreserved clear jar	AG2S	500mL H2SO4 amber glass										
WGFU	4oz clear soil jar	AG2U	500mL unpres amber glass										
JGFU	4oz unpreserved amber wide	AG3S	250mL H2SO4 amber glass										
ССЗН	250mL clear glass HCl	AG3SF	250mL H2SO4 amb glass -field filtered										
CG3F	250mL clear glass HCl, Field Filter	AG3U	250mL unpres amber glass										
BG1H	1L HCl clear glass	AG3B	250mL NaOH amber glass										
BG1S	1L H2SO4 clear glass												

	Plastic										
BP1B	1L NaOH plastic	BP4L	125mL unpreserved plastic								
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic								
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic								
BP1U	1L unpreserved plastic		Miccelloneous								
BP1Z	1L NaOH, Zn, Ac		Miscellaneous								
BP2N	500mL HNO3 plastic	Syring	ge Kit LL Cr+6 sampling kit								
BP2C	500mL NaOH plastic	ZPLC	Ziploc Bag								
BP2S	500mL H2SO4 plastic	R	Terracore Kit								
BP2U	500mL unpreserved plastic	SP5T	120mL Coliform Sodium Thiosulfate								
BP2Z	500mL NaOH, Zn Ac	GN	General Container								
врзв	250mL NaOH plastic	U	Summa Can (air sample)								
	250mL HNO3 plastic	WT	Water								
BP3F	250mL HNO3 plastic-field filtered	SL	Solid								
BP3U	250mL unpreserved plastic	OL:	Oil								
BP3S	250mL H2SO4 plastic	NAL	Non-aqueous liquid								
BP3Z	250mL NaOH, ZnAc plastic	WP	Wipe								
BP3R	250mL Unpres. FF SO4/OH buffer										