

## DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following “ Results Qualifiers” are used:

<b>J</b>	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
<b>U</b>	Indicates the analyte was analyzed for, but not detected.
<b>ND</b>	Indicates the analyte was analyzed for, but not detected
<b>E</b>	Indicates the reported value is estimated because of the presence of interference
<b>M</b>	Indicates Duplicate injection precision not met.
<b>N</b>	Indicates the spiked sample recovery is not within control limits.
<b>S</b>	Indicates the reported value was determined by the Method of Standard Addition (MSA).
<b>*</b>	Indicates that the duplicate analysis is not within control limits.
<b>+</b>	Indicates the correlation coefficient for the MSA is less than 0.995.
<b>D</b>	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
<b>M</b>	Method qualifiers “P” for ICP instrument “PM” for ICP when Microwave Digestion is used “CV” for Manual Cold Vapor AA “AV” for automated Cold Vapor AA “CA” for MIDI-Distillation Spectrophotometric “AS” for Semi -Automated Spectrophotometric “C” for Manual Spectrophotometric “T” for Titrimetric “NR” for analyte not required to be analyzed
<b>OR</b>	Indicates the analyte’s concentration exceeds the calibrated range of the instrument for that specific analysis.
<b>Q</b>	Indicates the LCS did not meet the control limits requirements
<b>H</b>	Sample Analysis Out Of Hold Time

## LAB CHRONICLE

<b>OrderID:</b>	P5276	<b>OrderDate:</b>	12/13/2024 11:44:00 AM
<b>Client:</b>	Tully Environmental, Inc	<b>Project:</b>	Transfer Station-SPDES
<b>Contact:</b>	Dean Devoe	<b>Location:</b>	L41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5276-01	001-WILLETS-PT-BLV D(NOV)	WATER			12/12/24 13:00			12/13/24
			Oil and Grease	1664A				
			TSS	SM2540 D			12/16/24 09:30 12/16/24 09:15	
P5276-02	002-35TH-AVE(NOV)	WATER			12/12/24 13:00			12/13/24
			Oil and Grease	1664A				
			TSS	SM2540 D			12/16/24 09:30 12/16/24 09:15	
P5276-03	001-WILLETS-PT-BLV D(DEC)	WATER			12/12/24 13:00			12/13/24
			TSS	SM2540 D			12/16/24 09:15	
P5276-04	002-35TH-AVE(DEC)	WATER			12/12/24 13:00			12/13/24
			TSS	SM2540 D			12/16/24 09:15	



# SAMPLE DATA

## Report of Analysis

Client:	Tully Environmental, Inc	Date Collected:	12/12/24 13:00
Project:	Transfer Station-SPDES	Date Received:	12/13/24
Client Sample ID:	001-WILLETS-PT-BLVD(NOV)	SDG No.:	P5276
Lab Sample ID:	P5276-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Oil and Grease	9.30		1	0.40	5.00	mg/L		12/16/24 09:30	1664A
TSS	281		1	1.00	4.00	mg/L		12/16/24 09:15	SM 2540 D-15

Comments: \_\_\_\_\_

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

## Report of Analysis

Client:	Tully Environmental, Inc	Date Collected:	12/12/24 13:00
Project:	Transfer Station-SPDES	Date Received:	12/13/24
Client Sample ID:	002-35TH-AVE(NOV)	SDG No.:	P5276
Lab Sample ID:	P5276-02	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Oil and Grease	9.40		1	0.40	5.00	mg/L		12/16/24 09:30	1664A
TSS	299		1	1.00	4.00	mg/L		12/16/24 09:15	SM 2540 D-15

Comments: \_\_\_\_\_

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

## Report of Analysis

Client:	Tully Environmental, Inc	Date Collected:	12/12/24 13:00
Project:	Transfer Station-SPDES	Date Received:	12/13/24
Client Sample ID:	001-WILLETS-PT-BLVD(DEC)	SDG No.:	P5276
Lab Sample ID:	P5276-03	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	320		1	1.00	4.00	mg/L		12/16/24 09:15	SM 2540 D-15

Comments: \_\_\_\_\_

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

## Report of Analysis

Client:	Tully Environmental, Inc	Date Collected:	12/12/24 13:00
Project:	Transfer Station-SPDES	Date Received:	12/13/24
Client Sample ID:	002-35TH-AVE(DEC)	SDG No.:	P5276
Lab Sample ID:	P5276-04	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	327		1	1.00	4.00	mg/L		12/16/24 09:15	SM 2540 D-15

Comments: \_\_\_\_\_

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits



# QC RESULT SUMMARY

### Preparation Blank Summary

**Client:** Tully Environmental, Inc

**SDG No.:** P5276

**Project:** Transfer Station-SPDES

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: <b>LB133962BL</b>							
Oil and Grease	mg/L	< 2.5000	2.5000	U	0.4	5.0	12/16/2024
Sample ID: <b>LB133963BL</b>							
TSS	mg/L	< 2.0000	2.0000	U	1	4	12/16/2024

### Duplicate Sample Summary

<b>Client:</b>	Tully Environmental, Inc	<b>SDG No.:</b>	P5276
<b>Project:</b>	Transfer Station-SPDES	<b>Sample ID:</b>	LB133962BS
<b>Client ID:</b>	LB133962BSD	<b>Percent Solids for Spike Sample:</b>	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Oil and Grease	mg/L	+/-18	16.8		17.1		1	1.77		12/16/2024

### Duplicate Sample Summary

<b>Client:</b>	Tully Environmental, Inc	<b>SDG No.:</b>	P5276
<b>Project:</b>	Transfer Station-SPDES	<b>Sample ID:</b>	P5276-01
<b>Client ID:</b>	001-WILLETS-PT-BLVD(NOV)DUP	<b>Percent Solids for Spike Sample:</b>	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
TSS	mg/L	+/-5	281		284		1	0.96		12/16/2024

### Laboratory Control Sample Summary

**Client:** Tully Environmental, Inc

**SDG No.:** P5276

**Project:** Transfer Station-SPDES

**Run No.:** LB133962

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133962BS							
Oil and Grease	mg/L	20.0	16.8		84	1	78-114	12/16/2024

### Laboratory Control Sample Summary

**Client:** Tully Environmental, Inc

**SDG No.:** P5276

**Project:** Transfer Station-SPDES

**Run No.:** LB133962

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133962BSD							
Oil and Grease	mg/L	20.0	17.1		86	1	78-114	12/16/2024

### Laboratory Control Sample Summary

**Client:** Tully Environmental, Inc

**SDG No.:** P5276

**Project:** Transfer Station-SPDES

**Run No.:** LB133963

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133963BS							
TSS	mg/L	550	510		93	1	90-110	12/16/2024



# RAW DATA

## Extraction and Analytical Summary Report

**Analysis Method:** 1664A  
**Test:** Oil and Grease  
**Run Number:** LB133962  
**Analysis Date:** 12/16/2024  
**BalanceID:** WC SC-6  
**OvenID:** EXT OVEN-3

**ANALYST:** jignesh  
**REVIEWED BY:** Iwona  
**Extraction Date:** 12/16/2024  
**Extraction IN Time:** 08:10  
**Extraction OUT Time:** 08:33  
**Thermometer ID:** EXT OVEN#3

Dish #	Lab ID	Client ID	Matrix	pH	Sample Vol (ml)	Final Volume (ml)	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Silica Gel Weight (g)	Weight After Drying (g)	Final Weight After Drying (g)	Change Weight (g)	Result in ppm
1	LB133962BL	LB133962BL	WATER	1.3	1000	100	3.2056	3.2056	0	3.2057	3.2057	0.0001	0.1
2	LB133962BS	LB133962BS	WATER	1.3	1000	100	2.7413	2.7413	0	2.7581	2.7581	0.0168	16.8
3	LB133962BSD	LB133962BSD	WATER	1.3	1000	100	3.1586	3.1586	0	3.1757	3.1757	0.0171	17.1
4	P5276-01	001-WILLETS-PT-BLVD (NOV)	WATER	1.6	1000	100	3.0647	3.0647	0	3.0740	3.0740	0.0093	9.3
5	P5276-02	002-35TH-AVE (NOV)	WATER	1.6	1000	100	3.0929	3.0929	0	3.1023	3.1023	0.0094	9.4



**Alliance**  
TECHNICAL GROUP

**Test:** Oil and Grease

**Analysis Date:** 12/16/2024

**Chemicals Used:**

Chemical Name	Chemical Lot #
HEXANE	W3153
pH Paper 0-14	M6069
Sodium Sulfate	EP2571
1:1 HCL	WP110826
Silica Gel	NA
Sand	NA

### Standards Used:

Standard Name	Amount Used	Standard Lot #
LCSW	2.5 ML	WP100827
LCSWD	2.5 ML	WP100828
MS/MSD	NA	NA

### BALANCE CALIBRATION / OVEN Dessicator Data

Analytical Balance ID # : WC SC-6

## Before Analysis

0.0020 gram Balance: 0.0018 (0.0018-0.0022) In OVEN TEMP1 : 70 °C Dessicator Time In1 : 10:26

1.0000 gram Balance: 1.0004 (0.9950-1.0050) In Time1: 09:30

Bal Check Time: 08:15 Out OVEN TEMP1: 70 °C Dessicator Time Out1: 11:00

Out Time1: 10:25

## After Analysis

0.0020 gram Balance: 0.0019 (0.0018-0.0022) In OVEN TEMP2 : 71 °C Dessicator Time In2 : 12:11

1.0000 gram Balance: 1.0005 (0.9950-1.0050) In Time2: 11:30

Bal Check Time: 12:47 Out OVEN TEMP2: 71 °C Dessicator Time Out2: 12:45

Out Time2: 12:10

WORKLIST(Hardcopy Internal Chain)

WorkList Name : oil & grease p5276      WorkList ID : 186342      Department : Wet-Chemistry      Date : 12-16-2024 07:54:13

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5276-01	001-WILLETTS-PT-BLVD(NOV)	Water	Oil and Grease	Conc H2SO4 to pH < 2	TULL01	L41	12/12/2024	1664A
P5276-02	002-35TH-AVE(NOV)	Water	Oil and Grease	Conc H2SO4 to pH < 2	TULL01	L41	12/12/2024	1664A

Date/Time 12/16/24 08:30  
Raw Sample Received by: [Signature]  
Raw Sample Relinquished by: [Signature]

Date/Time 12-16-24  
Raw Sample Received by: [Signature]  
Raw Sample Relinquished by: [Signature]

# TOTAL SUSPENDED SOLIDS - SM2540D

SUPERVISOR: Iwona

ANALYST: Niha

Date: 12/13/2024

Run Number: LB133963

BalanceID: WC SC-6

OvenID: WC OVEN-1

FilterID: 17416528

ThermometerID: WET OVEN#1

TEMP1 IN: 103 °C 12/13/2024 13:00 TEMP1 OUT: 104 °C 12/13/2024 14:00  
 TEMP2 IN: 103 °C 12/13/2024 15:00 TEMP2 OUT: 104 °C 12/13/2024 16:00  
 TEMP3 IN: 103 °C 12/16/2024 09:15 TEMP3 OUT: 104 °C 12/16/2024 10:45  
 TEMP4 IN: 104 °C 12/16/2024 11:15 TEMP4 OUT: 103 °C 12/16/2024 12:45

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Sample Volume (ml)	1st Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	2nd Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Final Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Weight (g)	Result mg/L
1	LB133963BL	LB133963BL	1.4012	1.4012	100	1.4012	1.4012	1.4012	0.0000	0
2	LB133963BS	LB133963BS	1.3985	1.3985	100	1.4495	1.4495	1.4495	0.0510	510
3	P5220-03	GAS-AUD-1610-1611-1612	1.3646	1.3646	300	1.4007	1.4007	1.4007	0.0361	120.3
4	P5260-02	COMP	1.4655	1.4655	100	1.4842	1.4842	1.4842	0.0187	187
5	P5276-01	001-WILLETTS-PT-BLVD (NOV)	1.3670	1.3670	150	1.4092	1.4092	1.4092	0.0422	281.3
6	P5276-01DUP	001-WILLETTS-PT-BLVD (NOV) DUP	1.3854	1.3854	150	1.4280	1.4280	1.4280	0.0426	284
7	P5276-02	002-35TH-AVE (NOV)	1.3693	1.3693	150	1.4142	1.4142	1.4142	0.0449	299.3
8	P5276-03	001-WILLETTS-PT-BLVD (DEC)	1.3742	1.3742	150	1.4222	1.4222	1.4222	0.0480	320
9	P5276-04	002-35TH-AVE (DEC)	1.3581	1.3581	150	1.4072	1.4072	1.4072	0.0491	327.3

A = Sample Volume (ml)  
 B = Final Empty Dish Weight (g)  
 C = Final Empty Dish + Sample weight after 1.5 hr drying @105°C(g)  
 D = Weight (g)

Weight (g) = C - B

Result mg/L =  $\frac{D}{A} \times 1000 \times 1000$

10133963

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TSS-12132024

WorkList ID : 186324

Department : Wet-Chemistry

Date : 12-13-2024 12:05:47

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5260-02	COMP	Water	TSS	Cool 4 deg C	ARAM01	M11	12/11/2024	SM2540 D
P5220-03	GAS-AUD-1610-1611-1612	Water	TSS	Cool 4 deg C	PSEG03	L41	12/09/2024	SM2540 D
P5276-01	001-WILLETS-PT-BLVD(NOV)	Water	TSS	Cool 4 deg C	TULL01	L41	12/12/2024	SM2540 D
P5276-02	002-35TH-AVE(NOV)	Water	TSS	Cool 4 deg C	TULL01	L41	12/12/2024	SM2540 D
P5276-03	001-WILLETS-PT-BLVD(DEC)	Water	TSS	Cool 4 deg C	TULL01	L41	12/12/2024	SM2540 D
P5276-04	002-35TH-AVE(DEC)	Water	TSS	Cool 4 deg C	TULL01	L41	12/12/2024	SM2540 D

Date/Time 12.16.2024, 08:30  
Raw Sample Received by: NF(wc)  
Raw Sample Relinquished by: JF qdc

Date/Time 12.16.2024, 09:30  
Raw Sample Received by: JF qdc  
Raw Sample Relinquished by: NF(wc)

**Instrument ID:** WC SC-3

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133962**

Review By	jignesh	Review On	12/16/2024 1:36:56 PM
Supervise By	Iwona	Supervise On	12/16/2024 1:40:27 PM
SubDirectory	LB133962	Test	Oil and Grease
<b>STD. NAME</b>	<b>STD REF.#</b>		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	W3153,M6069,EP2571,WP110826,NA,NA,WP100827,WP100828,NA		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB133962BL	LB133962BL	MB	12/16/24 09:30		jignesh	OK
2	LB133962BS	LB133962BS	LCS	12/16/24 09:30		jignesh	OK
3	LB133962BSD	LB133962BSD	LCSD	12/16/24 09:30		jignesh	OK
4	P5276-01	001-WILLETS-PT-BLV	SAM	12/16/24 09:30		jignesh	OK
5	P5276-02	002-35TH-AVE(NOV)	SAM	12/16/24 09:30		jignesh	OK

**Instrument ID:** WC SC-3

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133963**

Review By	Niha	Review On	12/16/2024 2:05:17 PM
Supervise By	Iwona	Supervise On	12/16/2024 2:06:11 PM
SubDirectory	LB133963	Test	TSS
<b>STD. NAME</b>	<b>STD REF.#</b>		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	N/A		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB133963BL	LB133963BL	MB	12/16/24 09:15		Niha	OK
2	LB133963BS	LB133963BS	LCS	12/16/24 09:15		Niha	OK
3	P5220-03	GAS-AUD-1610-1611	SAM	12/16/24 09:15		Niha	OK
4	P5260-02	COMP	SAM	12/16/24 09:15		Niha	OK
5	P5276-01	001-WILLETS-PT-BL	SAM	12/16/24 09:15		Niha	OK
6	P5276-01DUP	001-WILLETS-PT-BL	DUP	12/16/24 09:15		Niha	OK
7	P5276-02	002-35TH-AVE(NOV)	SAM	12/16/24 09:15		Niha	OK
8	P5276-03	001-WILLETS-PT-BL	SAM	12/16/24 09:15		Niha	OK
9	P5276-04	002-35TH-AVE(DEC)	SAM	12/16/24 09:15		Niha	OK

## Prep Standard - Chemical Standard Summary

**Order ID :** P5276

**Test :** Oil and Grease,TSS

**Prepbatch ID :**

**Sequence ID/Qc Batch ID:** LB133962, LB133963,

**Standard ID :**

EP2571, WP100827, WP100828, WP110826, WP99896,

**Chemical ID :**

E3551, M6069, M6121, W2606, W2783, W2845, W2898, W2979, W3112, W3153,



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	<a href="#">EP2571</a>	12/11/2024	01/03/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	Yogesh Patel  12/16/2024
<b><u>FROM</u></b> 4000.00000gram of E3551 = Final Quantity: 4000.000 gram								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
114	hexavalent chromium color reagent	<a href="#">WP100827</a>	02/02/2023	02/09/2023	Rubina Mughal	WETCHEM_SCALE_5 (WCS-5)	None	Iwona Zarych 02/02/2023
<b><u>FROM</u></b> 0.25000gram of W2979 + 50.00000ml of W2783 = Final Quantity: 50.000 ml								

## Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3456	Cyanide Intermediate Working Std, 5PPM	<a href="#">WP100828</a>	02/02/2023	02/03/2023	Iwona Zarych	None	WETCHEM_FIPETTE_3 (WC)	Sohil Jodhani 02/07/2023

**FROM** 0.25000ml of W2898 + 49.75000ml of WP99896 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
229	1:1 HCL	<a href="#">WP110826</a>	11/22/2024	05/13/2025	Jignesh Parikh	None	None	Iwona Zarych 11/22/2024

**FROM** 500.00000ml of M6121 + 500.00000ml of W3112 = Final Quantity: 1.000 L



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
11	Sodium hydroxide absorbing solution 0.25 N	<a href="#">WP99896</a>	11/15/2022	05/15/2023	Jignesh Parikh	WETCHEM_SCALE_4 (WCS-4)	None	Iwona Zarych 11/15/2022
<b>FROM</b> 21.00000L of W2606 + 210.00000gram of W2845 = Final Quantity: 21.000 L								

## CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	140440 / TEST PAPERS,PH,0-2.5,.2SENSI, 100PK	80A0441	02/29/2028	09/03/2024 / jignesh	08/19/2024 / Jaswal	M6069

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	0000275677	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6121

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	0000263246	06/17/2023	12/23/2020 / ketankumar	12/23/2020 / ketankumar	W2783

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-7 / Sodium Hydroxide Pellets 12 Kg	21C2456604	01/31/2024	03/30/2022 / JIGNESH	06/24/2021 / apatel	W2845

## CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Supelco	90157 / Cyanide Standard, 1000ppm from Supelco	HC03107133	06/30/2023	01/24/2022 / apatel	01/24/2022 / apatel	W2898

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	31390 / 1,5-Diphenylcarbazine	MKCR6636	12/09/2027	12/09/2022 / lwona	12/09/2022 / lwona	W2979

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24G1962003	08/22/2025	11/25/2024 / jignesh	11/21/2024 / jignesh	W3153



# Certificate of Analysis

1.19533.0500 Cyanide standard solution traceable to SRM from NIST  $K_2[Zn(CN)_4]$  in  $H_2O$   
1000 mg/l CN Certipur®  
Batch HC03107133

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## Batch Values

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Concentration	$\beta$ (CN <sup>-</sup> )	1002	mg/l
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Determination method: Argentometric titration.

The content of this solution was determined with silver nitrate standard solution (article number 1.09081) standardized against volumetric standard sodium chloride (article number 1.02406). The expanded measurement uncertainty is  $\pm 0.7\%$  ( $k=2$  coverage factor for 95% coverage probability). The certified value is traceable to primary standard NIST SRM 999c (NIST: National Institute of Standards and Technology, USA) by means of volumetric standard sodium chloride, measured in the accredited calibration laboratory of Merck KGaA, Darmstadt, Germany in accordance to DIN EN ISO/IEC 17025.

Date of release (DD.MM.YYYY) 02.07.2020

Minimum shelf life (DD.MM.YYYY) 30.06.2023

Ayfer Yildirim

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Responsible laboratory manager quality control

This document has been produced electronically and is valid without a signature.

Acetone  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis



Material No.: 9254-03  
Batch No.: 0000263246  
Manufactured Date: 2020/06/17  
Expiration Date: 2023/06/17  
Revision No: 1

## Certificate of Analysis

Test	Specification	Result
Assay ((CH <sub>3</sub> ) <sub>2</sub> CO) (by GC, corrected for water)	>= 99.4 %	99.7
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0000 ppm	0.1000
Substances Reducing Permanganate	Passes Test	PT
Titration Acid (µeq/g)	<= 0.3	0.1
Titration Base (µeq/g)	<= 0.6	< 0.1
Water (H <sub>2</sub> O)	<= 0.5 %	0.3
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	5

For Laboratory, Research or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US  
Packaging Site: Phillipsburg Mfg Ctr & DC

  
Jamie Ethier  
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700  
Avantor Performance Materials, LLC  
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700



**PRODUCTOS  
QUÍMICOS  
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR  
MONTERREY, N.L. MEXICO  
CP 64070  
TEL +52 81 13 52 57 57  
www.pqm.com.mx

## CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na <sub>2</sub> SO <sub>4</sub>
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na <sub>2</sub> SO <sub>4</sub> )	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO <sub>4</sub> )	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

### COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3



## Certificate of Analysis

### Product information

Product	pH-Fix 0.3-2.3
REF	92180
LOT	80A0441
Expiration date:	29.02.2028
Date of examination:	23.01.2024
Gradation:	pH 0.3-0.7-1.0-1.3-1.6-1.9-2.3

### Confirmation

Hereby we confirm, that the above mentioned product has successfully passed our quality control system in accordance with ISO 9001 and meets the specific quality criteria.

This document has been produced electronically and is valid without a signature.



Hydrochloric Acid, 36.5-38.0%  
BAKER INSTRA-ANALYZED® Reagent  
For Trace Metal Analysis

avantor™



R → 16/13/24  
Met dig

M 6121

Material No.: 9530-33  
Batch No.: 0000275677  
Manufactured Date: 2020/12/16  
Retest Date: 2025/12/15  
Revision No: 1

## Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	1
ACS - Free Chlorine (as Cl <sub>2</sub> )	<= 0.5 ppm	< 0.5
Phosphate (PO <sub>4</sub> )	<= 0.05 ppm	< 0.03
Sulfate (SO <sub>4</sub> )	<= 0.5 ppm	< 0.3
Sulfite (SO <sub>3</sub> )	<= 0.8 ppm	0.3
Ammonium (NH <sub>4</sub> )	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	< 0.2
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	29.7
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9530-33

Batch No.: 0000275677

Test	Specification	Result
Trace Impurities – Germanium (Ge)	$\leq 3.0$ ppb	< 2.0
Trace Impurities – Gold (Au)	$\leq 4.0$ ppb	< 0.2
Heavy Metals (as Pb)	$\leq 100$ ppb	< 50
Trace Impurities – Iron (Fe)	$\leq 15.0$ ppb	< 1
Trace Impurities – Lead (Pb)	$\leq 1.0$ ppb	< 0.5
Trace Impurities – Lithium (Li)	$\leq 1.0$ ppb	0.2
Trace Impurities – Magnesium (Mg)	$\leq 10.0$ ppb	0.4
Trace Impurities – Manganese (Mn)	$\leq 1.0$ ppb	< 0.4
Trace Impurities – Mercury (Hg)	$\leq 0.5$ ppb	0.1
Trace Impurities – Molybdenum (Mo)	$\leq 10.0$ ppb	< 5.0
Trace Impurities – Nickel (Ni)	$\leq 4.0$ ppb	< 0.3
Trace Impurities – Niobium (Nb)	$\leq 1.0$ ppb	< 0.2
Trace Impurities – Potassium (K)	$\leq 9.0$ ppb	< 2.0
Trace Impurities – Selenium (Se), For Information Only	ppb	1.0
Trace Impurities – Silicon (Si)	$\leq 100.0$ ppb	< 10.0
Trace Impurities – Silver (Ag)	$\leq 1.0$ ppb	< 0.3
Trace Impurities – Sodium (Na)	$\leq 100.0$ ppb	< 5.0
Trace Impurities – Strontium (Sr)	$\leq 1.0$ ppb	< 0.2
Trace Impurities – Tantalum (Ta)	$\leq 1.0$ ppb	< 0.9
Trace Impurities – Thallium (Tl)	$\leq 5.0$ ppb	< 2.0
Trace Impurities – Tin (Sn)	$\leq 5.0$ ppb	< 0.8
Trace Impurities – Titanium (Ti)	$\leq 1.0$ ppb	0.2
Trace Impurities – Vanadium (V)	$\leq 1.0$ ppb	< 0.2
Trace Impurities – Zinc (Zn)	$\leq 5.0$ ppb	0.3
Trace Impurities – Zirconium (Zr)	$\leq 1.0$ ppb	< 0.1

For Laboratory, Research or Manufacturing Use

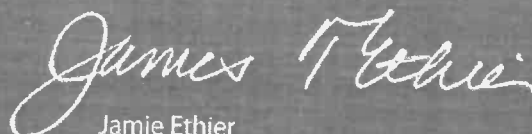
Product Information (not specifications):

Appearance (clear, fuming liquid)

Meets ACS Specifications

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr &amp; DC



Jamie Ethier  
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

W 2979

Rec: 12/09/22

exp. 12/09/27

Product Name:

1,5-Diphenylcarbazide - ACS reagent

Product Number:

259225

Batch Number:

MKCR6636

Brand:

SIAL

CAS Number:

140-22-7

MDL Number:

MFCD00003013

Formula:

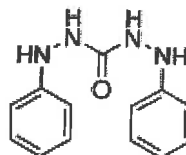
C<sub>13</sub>H<sub>14</sub>N<sub>4</sub>O

Formula Weight:

242.28 g/mol


Quality Release Date:

02 JUN 2022



## Certificate of Analysis

Test	Specification	Result
Appearance (Color)	Conforms to Requirements	Pink
Off-White to Pink, Light Purple or Tan		
Appearance (Form)	Powder or Chunks	Powder
Melting Point	173.0 - 176.0 °C	173.0 °C
Infrared Spectrum	Conforms to Structure	Conforms
Residue on ignition (Ash)	≤ 0.05 %	0.01 %
15 minutes, 800 Degrees Celsius		
Solubility	Pass	Pass
Sensitivity Test	Pass	Pass
Meets ACS Requirements	Current ACS Specification	Conforms



Larry Coers, Director  
Quality Control  
Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at [Sigma-Aldrich.com](http://Sigma-Aldrich.com). For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



n-Hexane 95%  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis



Material No.: 9262-03  
Batch No.: 24G1962003  
Manufactured Date: 2024-05-23  
Expiration Date: 2025-08-22  
Revision No.: 0

WJ3153  
SB  
0844e. 11/25/2024  
SB

## Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	$\leq 5$	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	$\leq 10$	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	$\leq 5$	1
Assay (Total Saturated C <sub>6</sub> Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	98 %
Color (APHA)	$\leq 10$	5
Residue after Evaporation	$\leq 1.0$ ppm	0.1 ppm
Substances Darkened by H <sub>2</sub> SO <sub>4</sub>	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	< 0.01 %

For Laboratory, Research, or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA  
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak  
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700



# SHIPPING DOCUMENTS

# CHEMTECH

## CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092

(908) 789-8900 • Fax (908) 789-8922

www.chemtech.net

CHEMTECH PROJECT NO.

QUOTE NO.

COC Number

PS276

2041879 PS278

### CLIENT INFORMATION

### CLIENT PROJECT INFORMATION

### CLIENT BILLING INFORMATION

REPORT TO BE SENT TO:

COMPANY: Tully Environmental Inc

ADDRESS: 57 Seawall Blvd

CITY: Pt Washington STATE: NY ZIP: 11050

ATTENTION: D. Devoe

PHONE: 718 4467000

FAX:

PROJECT NAME: Transfer Station SPDES

PROJECT NO.: 242113 LOCATION:

PROJECT MANAGER:

e-mail:

PHONE:

FAX:

BILL TO: Same

PO#:

ADDRESS:

CITY:

STATE:

ZIP:

ATTENTION:

PHONE:

### ANALYSIS

### DATA TURNAROUND INFORMATION

### DATA DELIVERABLE INFORMATION

FAX (RUSH) \_\_\_\_\_ DAYS\*

HARDCOPY (DATA PACKAGE): \_\_\_\_\_ DAYS\*

EDD: \_\_\_\_\_ DAYS\*

\*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

- ☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)  
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP  
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B  
+ Raw Data ☐ Other \_\_\_\_\_  
☐ EDD FORMAT \_\_\_\_\_

TSS O&G BTEX

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER	
1.	001 Willets Pt Blvd (Nov)	W		X	12/12	1pm		X	X									
2.	002 35th Ave (Nov)	W		X	12/12	1pm		X	X									
3.	001 Willets Pt Blvd (Dec)	W		X	12/12	1pm		X		X								
4.	002 35th Ave (Dec)	W		X	12/12	1pm		X		X								
5.																		
6.																		
7.																		
8.																		
9.																		
10.																		

### SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:

DATE/TIME:

RECEIVED BY:

1. D Devoe

1.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 4.1°C

Comments:

RELINQUISHED BY SAMPLER:

DATE/TIME: 12/12/24

RECEIVED BY:

2. FedEx

2.

RELINQUISHED BY SAMPLER:

DATE/TIME:

RECEIVED BY:

3.

3.

Page \_\_\_\_ of \_\_\_\_

CLIENT: ☐ Hand Delivered ☐ Other

CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete

☐ YES ☐ NO



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

### Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488