



Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **CARUS CHEMICAL**

Project/Facility Number: IL0002623 Date Received : 01/13/23

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 2.00

Client Sample ID: **B01** Lab Sample ID: **23A0174-01**

Matrix: Water Date/Time Collected: 01/12/23 15:55

Sample Type: Field pH: 11.1 Collected By: PDJ

Biochemical Oxygen Demand, 5 day, by Standard Method 5210B

Method: 5210B Prepared: 01/13/23 15:32

Units: mg/L Analyzed: 01/18/23 10:25

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
BOD 5DAY	ND	J7	2.00	

Chloride by Ion Chromatography 300.0

Method: 300.0 Prepared: 01/17/23 10:21

Units: mg/L Analyzed: 01/17/23 10:21

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Chloride	205		1.00	

Mercury by EPA Method 245.1

Method: 245.1 Prepared: 01/17/23 09:40

Units: ug/L Analyzed: 01/24/23 10:10

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Mercury	0.10		0.06	2

IEPA-DIVISION OF RECORDS MANAGEMENT

RELEASABLE

FEBRAURY 9, 2023

REVIEWER

MED

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Test results meet all requirements of NELAC (accredited by Florida DOH #E37645). If you have any questions about this report, please contact Tom Weiss, Laboratory Manager, at 217.782.9780.

Reported:
01/25/23 12:04
Page 1 of 9



Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **CARUS CHEMICAL**

Project/Facility Number: IL0002623 Date Received : 01/13/23

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 2.00

Client Sample ID: **B01** Lab Sample ID: **23A0174-01**

Matrix: Water Date/Time Collected: 01/12/23 15:55

Sample Type: Field pH: 11.1 Collected By: PDJ

Metals by EPA Method 200.7 - ICP/Hardness by Standard Method 2340B

Method: 200.7/2340B Prepared: 01/17/23 07:39

Units: ug/L Analyzed: 01/19/23 11:43

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Aluminum	535		100	40000
Arsenic	33.7		10.0	
Barium	13.8		5.00	
Beryllium	ND		1.00	
Boron	386		20.0	
Cadmium	ND		3.00	
Calcium	19000		500	100000
Chromium	376		5.00	
Cobalt	ND		10.0	
Copper	12.4		10.0	
Iron	ND		200	40000
Lead	ND		5.00	
Magnesium	12400		500	100000
Manganese	6840		150	
Nickel	ND		5.00	
Potassium	785000		14000	100000
Selenium	ND	J6	100	
Silver	3.83	J6	3.00	
Sodium	140000		1000	
Strontium	55.7		10.0	
Vanadium	198		5.00	
Zinc	77.5		25.0	
Hardness	98400		1980	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Test results meet all requirements of NELAC (accredited by Florida DOH #E37645). If you have any questions about this report, please contact Tom Weiss, Laboratory Manager, at 217.782.9780.

Reported:
01/25/23 12:04
Page 2 of 9



Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **CARUS CHEMICAL**

Project/Facility Number: IL0002623

Date Received : 01/13/23

Funding Code: WP02

Visit Number:

Trip ID:

Temperature C: 2.00

Client Sample ID: **B01**

Lab Sample ID: **23A0174-01**

Matrix: Water

Date/Time Collected: 01/12/23 15:55

Sample Type:

Field pH: 11.1

Collected By: PDJ

Nitrate-Nitrite, Colorimetric, Automated Cadmium by EPA Method 353.2

Method: 353.2

Prepared: 01/13/23 13:23

Units: mg/L

Analyzed: 01/13/23 13:23

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Nitrogen, Nitrite (NO ₂) + Nitrate	4.08		1.00	

Nitrogen, Ammonia, Colorimetric, Automated Phenate by EPA Method 350.1

Method: EPA 350.1

Prepared: 01/13/23 12:10

Units: mg/L

Analyzed: 01/13/23 12:54

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Ammonia as N	0.88		0.10	

Nitrogen, Kjeldahl, Total, Colorimetric, Semi- by EPA Method 351.2

Method: 351.2

Prepared: 01/17/23 08:13

Units: mg/L

Analyzed: 01/17/23 13:51

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Nitrogen, Kjeldahl	1.39		0.50	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Test results meet all requirements of NELAC (accredited by Florida DOH #E37645). If you have any questions about this report, please contact Tom Weiss, Laboratory Manager, at 217.782.9780.

Reported:
01/25/23 12:04
Page 3 of 9



Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **CARUS CHEMICAL**

Project/Facility Number: IL0002623

Date Received : 01/13/23

Funding Code: WP02

Visit Number:

Trip ID:

Temperature C: 2.00

Client Sample ID: **B01**

Lab Sample ID: **23A0174-01**

Matrix: Water

Date/Time Collected: 01/12/23 15:55

Sample Type: Field pH: 11.1

Collected By: PDJ

pH

Method: SM 4500H+B

Prepared: 01/13/23 13:30

Units: pH

Analyzed: 01/13/23 13:30

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Laboratory pH	10.9	Q	0.1	
pH analysis sample temp°C	20.4			

Phosphorus, All Forms, Colorimetric, Automated, by EPA Method 365.1

Method: 365.1

Prepared: 01/17/23 08:14

Units: mg/L

Analyzed: 01/17/23 12:44

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Phosphorus as P	0.083		0.005	

Total Suspended Solids by Standard Method 2540D

Method: SM 2540D

Prepared: 01/17/23 07:53

Units: mg/L

Analyzed: 01/17/23 07:53

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Total Suspended Solids	54		4	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Test results meet all requirements of NELAC (accredited by Florida DOH #E37645). If you have any questions about this report, please contact Tom Weiss, Laboratory Manager, at 217.782.9780.

Reported:
01/25/23 12:04
Page 4 of 9



Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **CARUS CHEMICAL**

Project/Facility Number: IL0002623 Date Received : 01/13/23

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 2.00

Client Sample ID: **P01** Lab Sample ID: **23A0174-02**

Matrix: Water Date/Time Collected: 01/12/23 14:02

Sample Type: Field pH: 7.9 Collected By: PDJ

Biochemical Oxygen Demand, 5 day, by Standard Method 5210B

Method: 5210B Prepared: 01/13/23 15:32

Units: mg/L Analyzed: 01/18/23 10:25

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
BOD 5DAY	3.10	J7	2.00	

Chloride by Ion Chromatography 300.0

Method: 300.0 Prepared: 01/17/23 10:33

Units: mg/L Analyzed: 01/17/23 10:33

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Chloride	131		1.00	

Mercury by EPA Method 245.1

Method: 245.1 Prepared: 01/17/23 09:40

Units: ug/L Analyzed: 01/24/23 10:12

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Mercury	ND		0.06	2

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Test results meet all requirements of NELAC (accredited by Florida DOH #E37645). If you have any questions about this report, please contact Tom Weiss, Laboratory Manager, at 217.782.9780.

Reported:
01/25/23 12:04
Page 5 of 9



Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **CARUS CHEMICAL**

Project/Facility Number: IL0002623 Date Received : 01/13/23

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 2.00

Client Sample ID: **P01** Lab Sample ID: **23A0174-02**

Matrix: Water Date/Time Collected: 01/12/23 14:02

Sample Type: Field pH: 7.9 Collected By: PDJ

Metals by EPA Method 200.7 - ICP/Hardness by Standard Method 2340B

Method: 200.7/2340B Prepared: 01/17/23 07:39

Units: ug/L Analyzed: 01/19/23 11:49

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Aluminum	ND		100	40000
Arsenic	ND		10.0	
Barium	38.1		5.00	
Beryllium	ND		1.00	
Boron	48.5		20.0	
Cadmium	ND		3.00	
Calcium	26800		500	100000
Chromium	ND		5.00	
Cobalt	ND		10.0	
Copper	ND		10.0	
Iron	1530		200	40000
Lead	ND		5.00	
Magnesium	8850		500	100000
Manganese	79.8		15.0	
Nickel	ND		5.00	
Potassium	6510		1400	100000
Selenium	ND	J5	100	
Silver	ND	J5	3.00	
Sodium	87000		1000	
Strontium	48.4		10.0	
Vanadium	ND		5.00	
Zinc	ND		25.0	
Hardness	103000		1980	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Test results meet all requirements of NELAC (accredited by Florida DOH #E37645). If you have any questions about this report, please contact Tom Weiss, Laboratory Manager, at 217.782.9780.

Reported:
01/25/23 12:04
Page 6 of 9



Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **CARUS CHEMICAL**

Project/Facility Number: IL0002623 Date Received : 01/13/23

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 2.00

Client Sample ID: **P01** Lab Sample ID: **23A0174-02**

Matrix: Water Date/Time Collected: 01/12/23 14:02

Sample Type: Field pH: 7.9 Collected By: PDJ

Nitrate-Nitrite, Colorimetric, Automated Cadmium by EPA Method 353.2

Method: 353.2 Prepared: 01/13/23 13:25

Units: mg/L Analyzed: 01/13/23 13:25

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Nitrogen, Nitrite (NO2) + Nitrate	0.120	J3	0.100	

Nitrogen, Ammonia, Colorimetric, Automated Phenate by EPA Method 350.1

Method: EPA 350.1 Prepared: 01/13/23 12:10

Units: mg/L Analyzed: 01/13/23 12:54

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Ammonia as N	ND		0.10	

Nitrogen, Kjeldahl, Total, Colorimetric, Semi- by EPA Method 351.2

Method: 351.2 Prepared: 01/17/23 08:13

Units: mg/L Analyzed: 01/17/23 13:51

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Nitrogen, Kjeldahl	1.64	J3	0.50	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Test results meet all requirements of NELAC (accredited by Florida DOH #E37645). If you have any questions about this report, please contact Tom Weiss, Laboratory Manager, at 217.782.9780.

Reported:
01/25/23 12:04
Page 7 of 9



Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **CARUS CHEMICAL**

Project/Facility Number: IL0002623

Date Received : 01/13/23

Funding Code: WP02

Visit Number:

Trip ID:

Temperature C: 2.00

Client Sample ID: **P01**

Lab Sample ID: **23A0174-02**

Matrix: Water

Date/Time Collected: 01/12/23 14:02

Sample Type: Field pH: 7.9

Collected By: PDJ

pH

Method: SM 4500H+B

Prepared: 01/13/23 13:30

Units: pH

Analyzed: 01/13/23 13:30

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Laboratory pH	7.7	Q	0.1	
pH analysis sample temp°C	19.6			

Phosphorus, All Forms, Colorimetric, Automated, by EPA Method 365.1

Method: 365.1

Prepared: 01/17/23 08:14

Units: mg/L

Analyzed: 01/17/23 12:44

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Phosphorus as P	0.143		0.005	

Total Suspended Solids by Standard Method 2540D

Method: SM 2540D

Prepared: 01/17/23 07:53

Units: mg/L

Analyzed: 01/17/23 07:53

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>Reporting Limit</u>	<u>Regulatory Level</u>
Total Suspended Solids	6		4	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Test results meet all requirements of NELAC (accredited by Florida DOH #E37645). If you have any questions about this report, please contact Tom Weiss, Laboratory Manager, at 217.782.9780.

Reported:
01/25/23 12:04
Page 8 of 9



Illinois Environmental Protection Agency Laboratory

825 N. Rutledge Springfield, Illinois 62702 217.782.9780

LABORATORY RESULTS

Name: **CARUS CHEMICAL**

Project/Facility Number: IL0002623 Date Received : 01/13/23

Funding Code: WP02 Visit Number:

Trip ID: Temperature C: 2.00

Notes and Definitions

- Q Maximum holding time exceeded.
- J7 Blank spike failed low - possible low bias or false non-detect result.
- J6 Blank spike failed high - possible high bias or false positive result.
- J5 Blank spike failed high, result was less than the reporting limit - impact on data may be minimal.
- J3 The reported value failed to meet the established quality control criteria for either precision or accuracy possibly due to matrix effects.
- ND Analyte NOT DETECTED at or above the reporting limit
- * Non-NELAP accredited

Report Authorized by:

Tom Weiss
Laboratory Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Test results meet all requirements of NELAC (accredited by Florida DOH #E37645). If you have any questions about this report, please contact Tom Weiss, Laboratory Manager, at 217.782.9780.

Reported:
01/25/23 12:04
Page 9 of 9

BW

IEPA - BW/DWPC/FOS - LAB SHEET

Field ID: B01

09-Funding Code: W P 0 2 10-Agency Routing PR 12-File Code: EMER 13-Sample Type: S

15-Reporting: B 16-DID: Basin _____ County 0 9 9 Plant _____ 17-Sampling Program: ER

18-Facility/Sample Pt: CARUS CHEMICAL CO / B01
(50-character limit)

19-Begin 2 3 0 1 1 2 20-Begin 1 5 5 5

Date: Y Y M M D D H H M M
(24-hour clock)

23-Instructions to Lab: _____

21-Collected by: P D J 22-Transported by: B E N

27-Received by: _____ Date: _____
Y Y M M D D

Received by: _____ Date: _____
Y Y M M D D

Circle One: Effluent Stream Specials:
Influent Process Flows WWTP
Sludge Cooling Water Other

Program: _____

NPDES No. IL0002623 BW ID: W0990300006

Receiving Stream Name: _____

Receiving Stream Conditions (velocity, etc): _____

Effluent Conditions: _____

Composite Sample
Ending Date: 5 2 9 F 0
Ending Time: 5 2 9 F 0
Y Y M M D D
H H M M
(24-hour clock)

03-Lab Parameter Group: _____

Additional Lab Parameters:	Field Parameters:	Results
	501F0	
	Air Temp (°C)	
<u>BOD5</u>	502F0	
	Water Temp (°C)	<u>9.1°C</u>
<u>TSS</u>	504F0	
	Dissolved O ₂	<u>10.1 mg/L</u>
<u>CHLORIDE</u>	503F0	
	Conductance	
<u>AMMONIA</u>	500F0	
	pH	<u>11.1 SU</u>

NO₃/NO₂

P

TKN

ICP22

Hg (added BW)

Comments & Unusual Conditions & Severity: (If applicable, Stamp- "No Visible Problem This Visit"): _____
Weather Conditions: _____


Remarks: COLLECTED FROM EMERGENCY CONTAINMENT POND

Sampling Techniques:
GRAB-LIQUID

FOR LABORATORY USE ONLY

LAB ID NO. _____

23A0174-01



Sample Received By: [Signature]

Corrected Receipt Temp: 2 °C TMD ID: 8

Date/Time Received: 11/13/23 10:30

Supervisor: _____

Mail To:



Agency ID: 170000105552

Media File Type: WATER

Bureau ID: W0990300006

Site Name: Carus Chemical Co

Site Address1: 1500 8th St

Site Address2:

Site City: Lasalle

State: IL

Zip: 61301-3500

**This record has been determined to
be partially or wholly exempt from
public disclosure**

Exemption Type:

Redaction

Exempt Doc #: 1

Document Date: 1 /12/2023

Staff: SSD

Document Description: LABORATORY RESULTS

Category ID: 01 Category Description: FIELD OPERATIONS/INSPECTIONS

Exempt Type: Redaction

Permit ID: IL0002623

Date of Determination: 2 /9 /2023

BW ✓

IEPA - BW/DWPC/FOS - LAB SHEET

Field ID: PO1

09-Funding Code: W P 0 2 10-Agency Routing PR 12-File Code: EMER 13-Sample Type: S

15-Reporting: B 16-DID: Basin _____ County 0 9 9 Plant _____ 17-Sampling Program: ER

18-Facility/Sample Pt: CARUS CHEMICAL CO / PO1
(50-character limit)

19-Begin 2 3 0 1 1 2 20-Begin 1 4 0 2

Date: Y Y M M D D H H M M
(24-hour clock)

23-Instructions to Lab: _____

21-Collected by: P D J 22-Transported by: B E N

27-Received by: _____ Date: _____
Y Y M M D D

Received by: _____ Date: _____
Y Y M M D D

Circle One: Effluent Stream Specials:
Influent Process Flows WWTP
Sludge Cooling Water Other

Program: _____

NPDES No. IL0002623 BW ID: W0990300006

Receiving Stream Name: _____

Receiving Stream Conditions (velocity, etc): _____

Effluent Conditions: _____

Weather Conditions: _____

Composite Sample

Ending Date: 5 2 9 F 0
Y Y M M D D

Ending Time: 5 2 9 F 0
H H M M
(24-hour clock)

03-Lab Parameter Group: _____

Additional Lab Parameters:	Field Parameters:	Results
	501F0	
<u>BOD5</u>	Air Temp (°C)	
	502F0	
<u>TSS</u>	Water Temp (°C)	<u>4.5 °C</u>
	504F0	
<u>CHLORIDE</u>	Dissolved O ₂	<u>11.3 mg/L</u>
	503F0	
<u>AMMONIA</u>	Conductance	
	500F0	
	pH	<u>7.9 SU</u>

NO₃/NO₂

P

TKN

ICP22

Hg (added BW)

Comments & Unusual Conditions & Severity: (If applicable, Stamp- "No Visible Problem This Visit"):

Remarks: COLLECTED FROM POND AT [REDACTED], LA SALLE

Sampling Techniques: GRAB-LIQUID

FOR LABORATORY USE ONLY

LAB ID NO.

23A0174-02



Mail To:



Sample Received By: [Signature]

Corrected Receipt Temp: 2 °C TMD ID: 4

Date/Time Received: 11/3/23 10:30

Supervisor: _____