

# DAVY LABORATORIES

A Division of Davy Engineering Co., Inc.  
115 6th Street South  
La Crosse, WI 54601  
(608) 782-  
FAX (608) 784-  
[www.davyinc.com](http://www.davyinc.com)



## LABORATORY ANALYSIS REPORT

Pattison Sand Company, LLC  
Attn: Beth Regan  
701 1st St.  
Clayton, IA 52049

Date: May 24, 2013  
Client No: XXXXXXXXXX

Sample No: 3050331-01  
Sample Site: Quarry 1

Sample Collected: 08-May-13 07:40

Sample Received: 08-May-13 12:38

Parameter	Result	Units	LOD	LOQ/RL	Dilution	Prepared	Analyzed	Method	Qualifier
<b>Organic Analysis</b>									
Acrylamide	<1.70	mg/L	1.70	5.30	1	16-May-13 19:58	16-May-13 19:58	EPA 8015B	

Submitted by:  
Davy Laboratories

Paul A. Harris, Laboratory Director

The laboratory analyses reported were determined in accordance with methods from approved authoritative sources. Approved authoritative sources are defined and listed within the respective state certification codes. The results are representative of the samples only; conditions can be expected to vary at different times and under different sampling conditions. This report may not be reproduced, except in full, without the written approval of the laboratory. WI Certification Nos. 632021390 and 105-216, MN NELAC Certification No. 055-999-151, IA Certification No. 304.

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## LABORATORY ANALYSIS REPORT

Pattison Sand Company, LLC  
Attn: Beth Regan  
701 1st St.  
Clayton, IA 52049

Date: May 24, 2013  
Client No: ██████

### Notes and Definitions

LOD Limit of Detection, adjusted for the dilution factor  
LOQ/RL Limit of Quantitation/Reporting Limit, adjusted for the dilution factor  
Total metals are equivalent to total recoverable metals.

### Cooler Information

Temperature 2.60 °C	
COC/Labels Agree	Yes
COC/Labels Do Not Agree	Yes
Ice Present	No
Preservation Confirmed, <2 H2SO4	No
Preservation Confirmed, <2 HCl	No
Preservation Confirmed, <2 HNO3	No
Preservation Confirmed, <2 NaOH	No
Confirmed, Residual Chlorine Absent	No
Confirmed, Sulfide Absent	No

### Case Narrative

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## LABORATORY ANALYSIS REPORT

Pattison Sand Company, LLC  
Attn: Beth Regan  
701 1st St.  
Clayton, IA 52049

Date: September 24, 2013  
Client No: █████

Sample No: 3090497-01  
Sample Site: Toe of Dam

Sample Collected: 11-Sep-13 09:00

Sample Received: 12-Sep-13 11:49

Parameter	Result	Units	LOD	LOQ/RL	Dilution	Prepared	Analyzed	Method	Qualifier
<b>Organic Analysis</b>									
Acrylamide	<1.70	mg/L	1.70	5.30	1	18-Sep-13 17:33	18-Sep-13 17:33	EPA 8015B	

Submitted by:  
Davy Laboratories

Paul A. Harris, Laboratory Director

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## LABORATORY ANALYSIS REPORT

Pattison Sand Company, LLC  
Attn: Beth Regan  
701 1st St.  
Clayton, IA 52049

Date: September 24, 2013  
Client No: XXXXXXXXXX

### Notes and Definitions

LOD Limit of Detection, adjusted for the dilution factor  
LOQ/RL Limit of Quantitation/Reporting Limit, adjusted for the dilution factor  
Total metals are equivalent to total recoverable metals.

#### Cooler Information

Temperature 29.00 °C	
COC/Labels Agree	Yes
COC/Labels Do Not Agree	Yes
Ice Present	No
Preservation Confirmed, <2 H2SO4	No
Preservation Confirmed, <2 HCl	No
Preservation Confirmed, <2 HNO3	No
Preservation Confirmed, <2 NaOH	No
Confirmed, Residual Chlorine Absent	No
Confirmed, Sulfide Absent	No

#### Case Narrative

4/28/2016

John Hendrix  
Pattison Sand Company, LLC  
24312 Mississippi Rd  
Garnavillo, IA 52049

Project: WaterSampling  
Project Number: [none]

This analytical report is for the samples received on 4/21/2016 9:50:00AM. If you have any questions concerning this report please feel free to contact me at 1-800-858-█. The samples included in this analytical report are as follows:

<b>Sample Description</b>	<b>Laboratory ID</b>	<b>Matrix</b>	<b>Date Sampled</b>
Toe of Dam	1D61622-01	Water	04/20/16 10:00
South Shop Basin	1D61622-02	Water	04/20/16 10:00
Outfall 003	1D61622-03	Water	04/20/16 10:00

Sincerely,



Staci Arnold, Project Manager I

Pattison Sand Company, LLC  
24312 Mississippi Rd  
Garnavillo, IA 52049

Project: Water Sampling  
Project Number: [none]  
Project Manager: John Hendrix

Reported:  
04/28/16 16:21

**CHAIN OF CUSTODY RECORD**

**Keystone**  
LABORATORIES, INC.

600 East 17th Street South  
Newton, IA 50208  
641-792-8451

Page 1 of 1  
Printed: 4/18/2016 12:25:30PM  
www.keystonelabs.com

INVOICE TO  
**John Hendrix**  
Pattison Sand Company, LLC  
24312 Mississippi Rd  
Garnavillo, IA 52049

REPORT TO  
**John Hendrix**  
Pattison Sand Company, LLC  
24312 Mississippi Rd  
Garnavillo, IA 52049

LAB USE ONLY  
Work Order: 1161622  
Temperature: \_\_\_\_\_  
Turn-Cooler: **No**

Custody Seal  
Containers Intact  
COC/Labels Agree  
Preservation Confirmed  
Received on Ice

SITE INFORMATION  
Sampler: John Hendrix  
Project: Water Sampling

SPECIAL INSTRUCTIONS  
None  
Turn Around Time: ASAP  
 Standard  RUSH, need by \_\_\_\_\_

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
01-001	<u>Toe of Dam</u>	Water	GRAB	<u>4/20/16</u>	<u>10:00am</u>	<u>3</u>	8316-Acry/Amide	<u>01</u>
01-002	<u>South Shop Basin</u>	Water	GRAB	<u>4/20/16</u>	<u>10:00am</u>	<u>3</u>	8316-Acry/Amide	<u>02</u>
01-003	<u>Outlet 003</u>	Water	GRAB	<u>4/20/16</u>	<u>10:00am</u>	<u>3</u>	8316-Acry/Amide	<u>03</u>

Relinquished By: John Hendrix Date/Time: 4/20/16 10:30am

Relinquished By: Kathleen Swenborg Date/Time: 4-21-16

Received by Lab By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Remarks: \_\_\_\_\_

Original - Return with Report • Yellow - Lab Copy

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.

Pattison Sand Company, LLC  
24312 Mississippi Rd  
Garnavillo, IA 52049

Project: Water Sampling  
Project Number: [none]  
Project Manager: John Hendrix

**Reported:**  
04/28/16 16:21

**Toe of Dam**  
**1D61622-01(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

**Determination of Carbonyl Compounds**

Acrylamide	<5.0	5.0	10.0	ug/L	1	1ZD1076	04/27/16	04/27/16	EPA 8316	
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Pattison Sand Company, LLC  
24312 Mississippi Rd  
Garnavillo, IA 52049

Project: Water Sampling  
Project Number: [none]  
Project Manager: John Hendrix

**Reported:**  
04/28/16 16:21

**South Shop Basin**  
**1D61622-02(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

**Determination of Carbonyl Compounds**

Acrylamide	<5.0	5.0	10.0	ug/L	1	1ZD1076	04/27/16	04/27/16	EPA 8316	
------------	------	-----	------	------	---	---------	----------	----------	----------	--

*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.*



Pattison Sand Company, LLC  
24312 Mississippi Rd  
Garnavillo, IA 52049

Project: Water Sampling  
Project Number: [none]  
Project Manager: John Hendrix

**Reported:**  
04/28/16 16:21

**Outfall 003**  
**1D61622-03(Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

**Determination of Carbonyl Compounds**

Acrylamide	<5.0	5.0	10.0	ug/L	1	1ZD1076	04/27/16	04/27/16	EPA 8316	
------------	------	-----	------	------	---	---------	----------	----------	----------	--

*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.*

Pattison Sand Company, LLC  
24312 Mississippi Rd  
Garnavillo, IA 52049

Project: Water Sampling  
Project Number: [none]  
Project Manager: John Hendrix

**Reported:**  
04/28/16 16:21

**Determination of Carbonyl Compounds - Quality Control**

**Keystone Laboratories, Inc. - Newton**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1ZD1076 - General Prep HPLC/IC**

**Blank (1ZD1076-BLK1)**

Prepared & Analyzed: 04/27/16

Acrylamide ND 5.0 10.0 ug/L

**Matrix Spike (1ZD1076-MS1)**

Source: 1D61622-01

Prepared & Analyzed: 04/27/16

Acrylamide 381.2 5.0 10.0 ug/L 400.000 ND 95.3 70-130

**Matrix Spike Dup (1ZD1076-MSD1)**

Source: 1D61622-01

Prepared & Analyzed: 04/27/16

Acrylamide 407.5 5.0 10.0 ug/L 400.000 ND 102 70-130 6.68 30

Pattison Sand Company, LLC  
24312 Mississippi Rd  
Garnavillo, IA 52049

Project: Water Sampling  
Project Number: [none]  
Project Manager: John Hendrix

**Reported:**  
04/28/16 16:21

**Certified Analyses included in this Report**

Method/Matrix	Analyte	Certifications	
Code	Description	Number	Expires
KS-KC	Kansas Department of Health and Environment-KC	E-10110	05/31/2016
KS-NT	Kansas Department of Health and Environment (NELAP	E-10287	05/31/2016
MO-KC	Missouri Department of Natural Resources	140	04/30/2015
SIA1X	Iowa Department of Natural Resources	95	02/01/2016

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Pattison Sand Company, LLC  
24312 Mississippi Rd  
Garnavillo, IA 52049

Project: Water Sampling  
Project Number: [none]  
Project Manager: John Hendrix

**Reported:**  
04/28/16 16:21

### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference