

# Iowa Department of Natural Resources Laboratory Certification

This is to certify that  
**Davy Laboratories**

115 6th Street South  
La Crosse, WI 54601

**IA Lab #304**

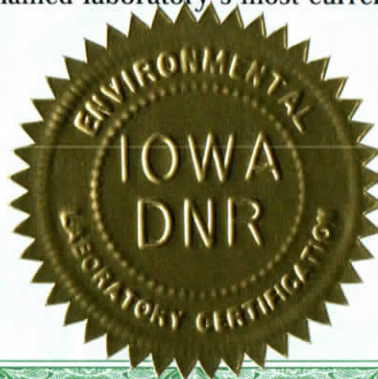
has complied with 567 Iowa Administrative Code Chapter 83 and is  
certified to analyze samples for some or all of the analytes in the following programs:

*Clean Water Act (CWA (WW))*

The specific analytes and methods that have been certified are contained on the "Approved Parameter List"  
attached to the above-named laboratory's most current letter of certification.

**Effective 09/01/2016**  
**Expires 09/01/2018**

*Certification status may change during the certificate  
period and possession of this certificate does not provide  
authority to analyze samples or use methods other than  
those specified in the most recent letter of certification  
from the Iowa Department of Natural Resources.*



**Kathleen A. Lee, Certification Officer**

A handwritten signature in blue ink that reads "Kathleen A. Lee".



### APPROVED PARAMETER LIST

Contaminant ID #	Contaminant Name	Source	Method Name	Status	SDWIS Report Code
<b>WW-MICRO - A/S #1 Regulated (INCOMPLETE group)</b>					
	Coliform Bacteria (Fecal)	SM	9222 D	Certified	NA
	Coliform Bacteria (Fecal)	SM	9223B 18QTFC	Certified	9223B-18QTFC
	Coliform Bacteria (E-coli)	SM	9223 B	Certified	NA
<b>WW-IOC - A/S #1 Regulated (INCOMPLETE group)</b>					
	Aluminum (Total)	EPA	200.7 Rev 4.4 (1994)	Certified	NA
	Aluminum (Total)	SM	3113 B (18, 19)	Certified	NA
	Ammonia (as N)	SM	4500-NH3 B (Distillation)	Certified	NA
	Ammonia (as N)	SM	4500-NH3 C (20-22)(Titration)	Certified	NA
	Ammonia (as N)	SM	4500-NH3 C-97 (Titr.)(ONLINE)	Certified	NA
	Ammonia (as N)	SM	4500-NH3 D (19-21)(ISE)	Certified	NA
	Ammonia (as N)	SM	4500-NH3 D-97 (ISE)(ONLINE)	Certified	NA
	Antimony (Total)	EPA	200.7 Rev 4.4 (1994)	Certified	NA
	Antimony (Total)	SM	3113 B (18, 19)	Certified	NA
	Arsenic (Total)	EPA	200.7 Rev 4.4 (1994)	Certified	NA
	Arsenic (Total)	SM	3113 B (18, 19)	Certified	NA
	Barium (Total)	EPA	200.7 Rev 4.4 (1994)	Certified	NA
	Beryllium (Total)	EPA	200.7 Rev 4.4 (1994)	Certified	NA
	Beryllium (Total)	SM	3113 B (18, 19)	Certified	NA
	Biochemical Oxygen Demand (BOD5)	SM	5210 B	Certified	NA
	Carb. Biochemical Oxygen Demand (CBOD5)	SM	5210 B	Certified	NA
	Boron (Total)	EPA	200.7 Rev 4.4 (1994)	Certified	NA
	Cadmium (Total)	EPA	200.7 Rev 4.4 (1994)	Certified	NA
	Cadmium (Total)	SM	3111 B (18, 19)	Certified	NA
	Cadmium (Total)	SM	3113 B (18, 19)	Certified	NA
	Calcium (Total)	EPA	200.7 Rev 4.4 (1994)	Certified	NA
	Calcium (Total)	SM	3111 B (18, 19)	Certified	NA
	Chromium (Total)	EPA	200.7 Rev 4.4 (1994)	Certified	NA
	Chromium (Total)	SM	3111 B (18, 19)	Certified	NA
	Chromium (Total)	SM	3113 B (18, 19)	Certified	NA
	Cobalt (Total)	EPA	200.7 Rev 4.4 (1994)	Certified	NA
	Copper (Total)	EPA	200.7 Rev 4.4 (1994)	Certified	NA
	Copper (Total)	SM	3111 B (18, 19)	Certified	NA
	Copper (Total)	SM	3113 B (18, 19)	Certified	NA
	Cyanide (Total)	SM	4500-CN C,E	Certified	NA
	Cyanide Amenable to Chlorination	SM	4500-CN C,G	Certified	NA
	Fluoride (Total)	EPA	300.0 Rev 2.1 (1993)	Certified	NA
	Fluoride (Total)	SM	4500-F C (ISE)	Certified	NA
	Iron (Total)	EPA	200.7 Rev 4.4 (1994)	Certified	NA
	Iron (Total)	SM	3111 B (18, 19, 21)	Certified	NA
	Kjeldahl Nitrogen (Total as N)	EPA	351.2 Rev 2.0 (1993)	Certified	NA
	Kjeldahl Nitrogen (Total as N)	SM	4500-NH3 C (20-22)(Titration)	Certified	NA
	Lead (Total)	EPA	200.7 Rev 4.4 (1994)	Certified	NA
	Lead (Total)	SM	3111 B (18, 19, 21)	Certified	NA
	Lead (Total)	SM	3113 B (18, 19, 21)	Certified	NA
	Magnesium (Total)	EPA	200.7 Rev 4.4 (1994)	Certified	NA
	Magnesium (Total)	SM	3111 B (18, 19)	Certified	NA
	Manganese (Total)	EPA	200.7 Rev 4.4 (1994)	Certified	NA

### APPROVED PARAMETER LIST

Contaminant ID #	Contaminant Name	Source	Method Name	Status	SDWIS Report Code
	Manganese (Total)	SM	3111 B (18, 19, 21)	Certified	NA
	Mercury (Total)	EPA	245.1 Rev 3.0 (1994)	Certified	NA
	Molybdenum (Total)	EPA	200.7 Rev 4.4 (1994)	Certified	NA
	Molybdenum (Total)	SM	3113 B (18, 19, 21)	Certified	NA
	Nickel (Total)	EPA	200.7 Rev 4.4 (1994)	Certified	NA
	Nickel (Total)	SM	3111 B (18, 19, 21)	Certified	NA
	Nickel (Total)	SM	3113 B (18, 19, 21)	Certified	NA
	Nitrate (as N)	SM	Calculate (NO3-N&NO2-N)-NO2-N	Certified	NA
	Nitrate (as N)	SM	4500-NO3 D	Certified	NA
	Nitrate-Nitrite (Total as N)	EPA	353.2 Rev 2.0 (1993)	Certified	NA
	Nitrite (as N)	EPA	300.0 Rev 2.1 (1993)	Certified	NA
	Nitrite (as N)	SM	4500-NO2 B	Certified	NA
	Nitrogen (Total)	EPA/SM	Calculate TKN + NO2-N + NO3-N	Certified	NA
	Organic Nitrogen (as N)	SM	Calculate (TKN-N - NH3-N)	Certified	NA
	Potassium (Total)	EPA	200.7 Rev 4.4 (1994)	Certified	NA
	Potassium (Total)	SM	3111 B (18, 19, 21)	Certified	NA
	Selenium (Total)	EPA	200.7 Rev 4.4 (1994)	Certified	NA
	Selenium (Total)	SM	3113 B (18, 19)	Certified	NA
	Silver (Total)	EPA	200.7 Rev 4.4 (1994)	Certified	NA
	Silver (Total)	SM	3111 B (18, 19, 21)	Certified	NA
	Silver (Total)	SM	3113 B (18, 19, 21)	Certified	NA
	Sodium (Total)	EPA	200.7 Rev 4.4 (1994)	Certified	NA
	Sodium (Total)	SM	3111 B (18, 19, 21)	Certified	NA
	Sulfate	ASTM	D516-07	Certified	NA
	Sulfide	SM	4500-S D	Certified	NA
	Sulfide	SM	4500-S F (19, 20, 21)	Certified	NA
	Thallium (Total)	EPA	200.7 Rev 4.4 (1994)	Certified	NA
	Tin (Total)	EPA	200.7 Rev 4.4 (1994)	Certified	NA
	Titanium (Total)	EPA	200.7 Rev 4.4 (1994)	Certified	NA
	Vanadium (Total)	EPA	200.7 Rev 4.4 (1994)	Certified	NA
	Zinc (Total)	EPA	200.7 Rev 4.4 (1994)	Certified	NA
	Zinc (Total)	SM	3111 B (18, 19, 21)	Certified	NA

WW-IOC - A/S #2 Regulated (INCOMPLETE group)

	Acidity as CaCO3	SM	2310 B(4a)	Certified	NA
	Alkalinity as CaCO3	SM	2320 B	Certified	NA
	Bromide	EPA	300.0 Rev 2.1 (1993)	Certified	NA
	Calcium (Total)	EPA	200.7 Rev 4.4 (1994)	Certified	NA
	Chloride	SM	4500-Cl B	Certified	NA
	Chloride	SM	4500-Cl E	Certified	NA
	Chemical Oxygen Demand (COD)	SM	5220 D	Certified	NA
	Hardness (Total as CaCO3)	SM	2340 C	Certified	NA
	Oil and Grease	EPA	1664 A	Certified	NA
	Orthophosphate (as P)	EPA	365.1 Rev 2.0 (1993)	Certified	NA
	Orthophosphate (as P)	SM	4500-P E (18, 19, 20)	Certified	NA
	Phenols	EPA	420.1 (Rev 1978)	Certified	NA
	Phosphorus (Total)	EPA	365.1 Rev 2.0 (1993)	Certified	NA
	Phosphorus (Total)	EPA	365.3 (Issued 1978)	Certified	NA
	Residue-Filterable (TDS)	SM	2540 C	Certified	NA
	Residue-Nonfilterable (TSS)	USGS	I-3765-85	Certified	NA

### APPROVED PARAMETER LIST

Contaminant ID #	Contaminant Name	Source	Method Name	Status	SDWIS Report Code
	Residue-Total	SM	2540 B	Certified	NA
	Silica	SM	4500-SiO2 C (20, 21)	Certified	NA
	Specific conductance	SM	2510 B	Certified	NA
	Surfactants	SM	5540 C	Certified	NA
	Turbidity	SM	2130 B	Certified	NA
<b>WW-IOC - A/S #3 Regulated Sludge (INCOMPLETE group)</b>					
	Arsenic (Total)	EPA	6010C	Certified	NA
	Arsenic (Total)	EPA	7010	Certified	NA
	Cadmium (Total)	EPA	6010C	Certified	NA
	Cadmium (Total)	EPA	7000A	Certified	NA
	Chromium (Total)	EPA	6010C	Certified	NA
	Chromium (Total)	EPA	7000A	Certified	NA
	Copper (Total)	EPA	6010C	Certified	NA
	Copper (Total)	EPA	7000A	Certified	NA
	Lead (Total)	EPA	6010C	Certified	NA
	Lead (Total)	EPA	7000A	Certified	NA
	Mercury (Total)	EPA	7471B	Certified	NA
	Molybdenum (Total)	EPA	6010C	Certified	NA
	Molybdenum (Total)	EPA	7010	Certified	NA
	Nickel (Total)	EPA	6010C	Certified	NA
	Nickel (Total)	EPA	7000A	Certified	NA
	Residue-Total	SM	2540 G	Certified	NA
	Residue-Total	SM	2540 B	Certified	NA
	Selenium (Total)	EPA	6010C	Certified	NA
	Selenium (Total)	EPA	7010	Certified	NA
	Zinc (Total)	EPA	6010C	Certified	NA
	Zinc (Total)	EPA	7000A	Certified	NA
<b>WW-IOC - A/S #1 Excluded (INCOMPLETE group)</b>					
	Alkalinity as CaCO3	SM	2320 B	Certified	NA
	Chlorine, Total residual	SM	4500-Cl G-00 (ONLINE)	Certified	NA
	Hydrogen Ion (pH)	SM	4500-H+ B	Certified	NA
	Oxygen, dissolved	SM	4500-O G	Certified	NA
	Residue-Filterable (TDS)	SM	2540 C	Certified	NA
	Residue-Settleable	SM	2540 F	Certified	NA
	Residue-Volatile	EPA	160.4	Certified	NA

End of list.

(If status is Provisional, refer to the UHL evaluation report for description and required action to upgrade status to Certified.)

## PERSONNEL AND REPORTING REQUIREMENTS

### Personnel:

Jennifer M. Buchholz, Laboratory Director	Paula Vollmar, Client Services
Julie Klimek, QA/QC Officer	Stephanie Tollefson, Microbiology Supervisor

### Reporting Requirements:

#### CWA Reporting:

Refer to paragraph 567 IAC 83.6(6)"c" and include information required in paragraphs 567 IAC 63.2(2)"b" through "e".