

UNITED STATED ENVIRONMENTAL PROTECTION AGENCY

REGION 7 901 NORTH 5TH STREET KANSAS CITY, KANSAS 66101

11 JAN 25 FIT 2: 69
ENVIRONMENT TO THE PROPERTY OF THE PROPERT

EXPEDITED SETTLEMENT AGREEMENT (ESA)

DOCKET NO.: CAA-07-2010-0033

This ESA is issued to: City of Dubuque Water Pollution Control Plant

At: 795 Julien Dubuque Drive, Dubuque, Iowa 52003 for violating Section 112(r)(7) of the Clean Air Act.

The United States Environmental Protection Agency, Region 7 (EPA), and City of Dubuque Water Pollution Control Plant, 795 Julien Dubuque Drive, Dubuque, Iowa 52003 (Respondent), have agreed to a settlement of this action before filing of a complaint, and thus this action is simultaneously commenced and concluded pursuant to Rules 22.13(b) and 22.18(B)(2) of the Consolidated Rules of Practice Governing the Administrative Assessment of Civil Penalties, Issuance of Compliance or Corrective Action Orders, and the Revocation, Termination or Suspension of Permits (Consolidated Rules), 40 C.F.R. §§ 22.13(b), 22.18(b)(2).

The Complainant, by delegation of the Administrator of EPA, is the Director of the Air, and Waste Management Division. The Respondent is City of Dubuque Water Pollution Control Plant, 795 Julien Dubuque Drive, Dubuque, Iowa 52003.

This is an administrative action for the assessment of civil penalties instituted pursuant to Section 113(d) of the Clean Air Act (CAA). Pursuant to Section 113(d) of the CAA, 42 U.S.C. § 7413(d), the Administrator and the Attorney General jointly determined that cases which meet the criteria set forth in EPA's policy entitled "Use of Expedited Settlements in Addressing Violations of the Clean Air Act Chemical Accident Prevention Provision, 40 C.F.R. Part 68," dated January 5, 2004, are appropriate for administrative penalty action.

ALLEGED VIOLATIONS

Facilities that produce, handle, process, distribute, or store certain chemicals are required to develop a Risk Management Program, prepare a Risk Management Plan (RMP), and submit the RMP to EPA in accordance with 40 C.F.R. Part 68. Facilities must fully update and resubmit the RMP, at a minimum, every five years or deregister the RMP facility within 6 months that it is no longer covered by the regulation. The EPA Risk Management Database, RMPInfo, indicates that your facility has failed to resubmit or update the Risk Management Plan by June 21, 2009. The City of Dubuque Water Pollution Control Plant's failure to update and resubmit the facility's RMP is a violation of 40 C.F.R. § 68.190.

SETTLEMENT

In consideration of Respondent's size of business, its full compliance history, its good faith effort to comply, and other factors as justice may require, and upon consideration of the

entire record, the parties enter into the ESA in order to settle the violations, described in the enclosed RMP Findings, for the total penalty amount of \$2,000.

This settlement is subject to the following terms and conditions:

The Respondent by signing below waives any objections that it may have regarding jurisdiction, neither admits nor denies the specific factual allegations contained herein and in the RMP Findings, and consents to the assessment of the penalty as stated above. Respondent waives its rights to a hearing afforded by Section 113(d)(2)(A) of the CAA, 42 U.S.C. § 7413(d)(2)(A), and to appeal this ESA. Each party to this action shall bear its own costs and fees, if any. Respondent also certifies, subject to civil and criminal penalties for making a false submission to the United States Government, that the Respondent has corrected the violations listed in the enclosed RMP Findings and has sent a cashier's check or certified check (payable to the "United States Treasury") in the amount of \$2,000 in payment of the full penalty amount to the following address:

U.S. Environmental Protection Agency Fines and Penalties Cincinnati Finance Center P.O. Box 979077 St. Louis, Missouri 63197-9000

The Docket Number of the ESA must be included on the check.

This original ESA, a copy of the completed RMP Findings, and <u>a copy of the check must</u> <u>be sent by certified mail to:</u>

Deanna Smith
Office of Regional Counsel
U.S. Environmental Protection Agency, Region 7
901 North 5th Street
Kansas City, Kansas 66101.

A copy of the check must also be sent to:

Kathy M. Robinson Regional Hearing Clerk U.S. Environmental Protection Agency, Region 7 901 North 5th Street Kansas City, Kansas 66101.

Upon Respondent's submission of the signed original ESA, EPA will take no further civil action against Respondent for the alleged violations of the CAA referenced in the RMP Findings.

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The EPA does not waive any other enforcement action for any other violations of the CAA or any other statute.

If the signed original ESA with an attached copy of the check is not returned to the EPA Region 7 office at the above address in correct form by the Respondent within 45 days of the date of Respondent's receipt of it (90 days if an extension is granted), the proposed ESA is withdrawn, without prejudice to EPA's ability to file an enforcement action for the violations identified herein and in the RMP Findings.

This ESA is binding on the parties signing below.

This ESA is effective upon filing with the Regional Hearing Clerk.

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FOR RESPONDENT:

Jonathan Brown
Name (print): Jonathan Brown

Date: 12/28/2010

Title (print): Managet
City of Dubuque Water Pollution Control Plant

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Date: 1/20/11

Date: 1/5/2010

FOR	COM	PT A	INIA	NIT	
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Becky Weber

Director

Air and Waste Management Division

EPA Region 7

Kristen Nazar

Assistant Regional Counsel

Office of Regional Counsel

EPA Region 7

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Date: Jan 25, 2011

I hereby ratify the ESA and incorporate it herein by reference. It is so ORDERED.

Karina Borromeo

Regional Judicial Officer

Risk Management Program Inspection Findings CAA § 112(r) Violations

City of Dubuque Water Pollution Control Plant 795 Julien Dubuque Drive Dubuque, Iowa 52003

Docket No. CAA-07-2010-0033

COMPLETE THIS FORM AND RETURN IT WITH THE ESA.

VIOLATIONS

PENALTY AMOUNT

Risk Management Plan

\$2,000

Required Corrections [§ 68.190]

The owner or operator failed to revise and update the RMP at least once every 5 years of its most recent submittal or deregistered within 6 months indicating the facility is no longer covered by the RMP regulations as required at § 68.190.

Please attach confirmation that the RMP resubmission/update has been received.

Total Unadjusted Penalty

\$2,000

Calculation of Adjusted Penalty

- Reference the multipliers for calculating proposed penalties for violations found during RMP inspection matrix. Finding the row for service population of greater than 50,000 gives a multiplier factor of 1. Therefore, the multiplier for City of Dubuque = 1.
- 2nd Adjusted Penalty = \$2,000 (Unadjusted Penalty) X 1 (Size-Threshold Multiplier)
 Adjusted Penalty = \$2,000
- An Adjusted Penalty of \$2,000 would be assessed to City of Dubuque for the violations found during the RMP submittal data review for the Water Pollution Control Plant. This amount will be found in the Expedited Settlement Agreement.

Total Adjusted Penalty

\$2,000

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***** Risk Management Plan *****
**** Section 1. Registration Information *****
* Source Identification
                           Water Pollution Control Plant
Facility Name:
Parent Company #1 Name:
                           City of Dubuque, Iowa
Parent Company #2 Name:
* Submission and Acceptance
                           Re-submission
Submission Type:
Subsequent RMP
                           5-year update (40 CFR 68.190(b)(1))
Submission Reason:
Description:
                           23-JUN-2004
Receipt Date:
                           21-JUN-2004
Postmark Date:
Next Due Date:
                           21-JUN-2009
                           13-AUG-2004
Completeness Check Date:
Complete RMP:
                           YES
De-Registration/Closed
                           Source no longer uses any regulated substance
Reason:
De-Registration/Closed
Reason Other Text:
De-Registered/Closed
                            09-NOV-2010
Date:
De-Registered/Closed
Effective Date:
                           05-NOV-2010
Certification Received:
                           YES
* Facility Identification
                           1000 0013 4428
EPA Facility Identifier:
Other EPA Systems
                           IAD980633739
Facility ID:
* Dun and Bradstreet Numbers (DUNS)
Facility DUNS:
Parent Company #1 DUNS:
Parent Company #2 DUNS:
* Facility Location Address
                            795 Julien Dubuque Drive
Street 1:
Street 2:
                           Dubuque
City:
                           IOWA
State:
                            52003
ZIP:
ZIP4:
                            7996
                           DUBUQUE
County:
* Facility Latitude and Longitude
                           42.469966
Latitude (decimal):
                           -090.660168
Longitude (decimal):
Lat/Long Method:
                           Interpolation - Photo
                           Administrative Building
Lat/Long Description:
Horizontal Accuracy
Measure:
Horizontal Reference
                           North American Datum of 1983
Datum Name:
                           24000
Source Map Scale Number:
* Owner or Operator
Operator Name:
                           Paul Horsfall
                           (563) 589-4176
Operator Phone:
* Mailing Address
                           795 Julien Dubuque Drive
Operator Street 1:
Operator Street 2:
Operator City:
                           Dubuque
                           TOWA
Operator State:
                           52003
Operator ZIP:
                           7996
Operator ZIP4:
Operator Foreign State
or Province:
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Operator Foreign ZIP:
Operator Foreign Country:
* Name, Title and E-mail Address of Person or Position Responsible for Part 68 (RMP) Implementation
RMP Name of Person:
                           Jonathan Brown
RMP Title of Person or
Position:
                           Chemist/Assitant Manager
RMP E-mail Address:
                           jobrown@cityofdubuque.org
* Emergency Contact
Emergency Contact Name:
                           Paul Horsfall
Emergency Contact Title:
                           Manager
Emergency Contact Phone:
                           (563) 589-4176
Emergency Contact
24-Hour Phone:
                           (563) 589-4176
Emergency Contact Ext.
or PIN:
Emergency Contact E-mail
                           phorsfal@cityofdubuque.org
Address:
* Other Points of Contact
Facility or Parent
Company E-mail Address:
Facility Public Contact
                           (563) 589-4176
Phone:
Facility or Parent
Company WWW Homepage
Address:
* Local Emergency Planning Committee
                           Dubuque County LEPC
LEPC:
* Full Time Equivalent Employees
Number of Full Time
Employees (FTE) on Site:
FTE Claimed as CBI:
* Covered By
                           YES
OSHA PSM :
EPCRA 302 :
                           YES
CAA Title V:
Air Operating Permit ID: 19-1474
* OSHA Ranking
OSHA Star or Merit
Ranking:
* Last Safety Inspection
Last Safety Inspection
(By an External Agency)
                           15-JAN-2003
Date:
Last Safety Inspection
Performed By an External
                           Fire Department
Agency:
* Predictive Filing
Did this RMP involve
predictive filing?:
* Preparer Information
Preparer Name:
Preparer Phone:
                           none
Preparer Street 1:
Preparer Street 2:
Preparer City:
Preparer State:
Preparer ZIP:
Preparer ZIP4:
Preparer Foreign State:
Preparer Foreign Country:
Preparer Foreign ZIP:
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- * Confidential Business Information (CBI) CBI Claimed: Substantiation Provided: Unsanitized RMP Provided:
- * Reportable Accidents Reportable Accidents:

No accidents meeting RMP reporting requirements were claimed.

***** Executive Summary *****

RMP Executive Summary

The City of Dubuque Water Pollution Control Plant is a publicly owned and operated wastewater treatment facility that serves the citizens and industries of Dubuque Iowa. The plant is located in a valley near the Mississippi River. The primary activity at this site is the treatment of wastewater. The Water Pollution Control Plant (WECP) uses chlorine in 2000-pound cylinders for the seasonal disinfection of wastewater and magnesium bisulfite solution for dechlorination prior to discharge. Magnesium bisulfite is not listed as a chemical of concern under RMP. The plant has 17 employees and is staffed 24hrs per day 365 days a year. Chlorine is used on a seasonal basis to disinfect treated wastewater. The amount of chlorine on site is between 6000 and 12000 pounds during the chlorination season and up to 2000 pounds off-season. 150 to 300 pounds per day of chlorine gas are used during routine operation.

- 1. Prevention and Release Policies Summary The prevention of a release is provided for by the following steps.
- a. All aspects of handling chlorine are limited to a small number of employees trained in the handling and operation of 2000-pound chlorine cylinders and associated chlorinating equipment.
- b. In addition all employees receive chlorine safety awareness training each year.
- c. The changing of chlorine tanks is limited to daytime working hours Monday through Friday when management supervision is available.
- d. Chlorine use is scheduled to allow for weekend and holiday chorination without the need to change or add additional tanks of chlorine. In the unlikely case that additional chlorine would be needed a supervisor and a trained employee would be called in to perform the task as needed.
- e. Prior to the start of the chlorinating season the mechanical integrity of all lines and fittings
- is verified. Valves, yokes, pigtail lines, and controls are checked and replaced as needed. f. Chlorine is taken from the cylinder as a gas only by orienting the tank so that the valves are in a vertical position and then using the top valve for gas only use. Valves and pigtails are arranged so that using the top gas valve is the only possible choice without reorienting the valve
- position. Using gas only during normal operation limits the potential release of chlorine if there should be a valve or piping failure.

 g. Leak detection is provided for in the chlorine storage area and the chlorination control room.

 The leak detection devices are connected into the plant wide SCADA system for monitoring purposes
- The leak detection devices are connected into the plant wide SCADA system for monitoring purposes and a local audible alarm. SCADA will also provide an onscreen alarm and an audible alarm throughout the entire plant in addition to the local audible alarm.
- h. In the event of a release employees of the WPCP have been trained in response procedures for communicating with the Dubuque Fire Department and HAZMAT team. This communication would include information relating to severity of the leak, current weather conditions, number of employees on site, and the location of employees. WPCP employees will also notify our only neighbor of the occurrence of a release so that precautions may take place at their facility.
- i. Management of the WPCP is very aware of the possible dangers associated with the use of chlorine and takes an active role in the day to day handling and use of chlorine. The record of over twenty-five years without an accidental release testifies to this commitment.
- 2. Release scenarios the Water Pollution Control Plant (WPCP) is located in a valley close to the Mississippi River. The nearest resident is at least .4 miles away and at an elevation of approximately 80 feet above the level of the plant, any schools or hospitals are at least 120 feet above plant elevation. Do to these facts we feel confident in using the building enclosure as a mitigating factor to limit the worst case toxic endpoint distance for the release of chlorine. RMP Comp was used for the worst case, EPA lookup tables for the alternative case. Landview V was used to determine receptors. For the worst case scenario the population densities from Landview V were used. Population densities for the alternative case was determined by local knowledge, there are no residents within the alternative case radius.

Worst Case - The worst case would be the release of 200 pounds per minute of chlorine for a duration of ten minutes giving a total release of 2000 pounds. The release would be inside a structure limiting the release rate to 110 pounds per and the toxic endpoint to 0.9 miles. RMP Comp was used to determine the toxic endpoint. The receptors identified were residents, an industrial area, a state park, a girls softball complex, a wildlife refuge and a hospital (nursing home).

Landview V was used to determine population densities.

Alternative Case - The alternative case is the release of 15 pounds per minute of gaseous chlorine from a pipe leak for 60 minutes resulting in the release of 900 pounds. The scenario selected represents the most likely release from a 2000-pound cylinder using gas only. This type of leak could come from a failure in the pigtail, a crimped lead washer or a leaking packing in the chlorine valve. The toxic endpoint was determined using lookup tables in the 'Risk Management Program Guidance for Wastewater Treatment Flants' by the USEPA. The toxic endpoint is 0.1 miles. The receptors are a state park and an industrial area. There are no residents within the 0.1 mile radius of the toxic endpoint.

- 3. Compliance The Dubuque WPCP is in compliance with OSHA PSM and USEPA RMP
- 4. Accidental Releases There have been no accidental releases of chlorine at this location for over twenty years.
- 5. Emergency Response Emergency response has been coordinated with the Dubuque County LEPC, City of Dubuque Fire Department and HAZMAT team. WPCP employees have been trained in response procedures for communicating with the Dubuque Fire Department and HAZMAT team. A WPCP staff person is a member of the LEPC and a resource person for the HAZMAT team.
- 6. Program Changes The WPCP will continue to look for ways to limit the use of chlorine for treatment purposes. No program changes are foreseen in the near future.

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* Process Chemicals
                           53702
Process ID:
                           Chlorination of Wastewate
Description:
                          70938
Process Chemical ID:
                          Program Level 3 process
Program Level:
                          Chlorine
Chemical Name:
                          7782-50-5
CAS Number:
Quantity (lbs):
                          10000
CBI Claimed:
                          TOXIC
Flammable/Toxic:
* Process NAICS
                           53702
Process ID:
Process NAICS ID:
                          54937
                          Program Level 3 process
Program Level:
                          22132
NAICS Code:
                          Sewage Treatment Facilities
NAICS Description:
***** Section 2. Toxics: Worst Case *****
                        . 35267
Toxic Worst ID:
Percent Weight:
                          Gas liquified by pressure
Physical State:
                          EPA's RMP*Comp(TM)
Model Used:
Release Duration (mins): 10
Wind Speed (m/sec):
                          1.5
Atmosphere Stability
                          F
Class:
Topography:
                           Urban
Passive Mitigation Considered
Dike:
                           YES
Enclosures:
Berms:
Drains:
Sumps:
Other Type:
***** Section 3. Toxics: Alternative Release *****
Toxic Alter ID:
                           41663
Percent Weight:
                          Gas liquified by pressure
Physical State:
                          EPA's RMP Guidance for Waste Water Treatment
Model Used:
Plants Reference Tables or Equations
Wind Speed (m/sec):
                           3
Atmosphere Stability
```

D

Class:

```
Topography:
                            Urban
Passive Mitigation Considered
Dike:
Enclosures:
                            YES
Berms:
Drains:
Sumps:
Other Type:
Active Mitigation Considered
Sprinkler System:
Deluge System:
Water Curtain:
Neutralization:
Excess Flow Valve:
Flares:
Scrubbers:
Emergency Shutdown:
Other Type:
***** Section 4. Flammables: Worst Case *****
***** Section 5. Flammables: Alternative Release *****
**** Section 6. Accident History ****
**** Section 7. Program Level 3 *****
** Description:
Program Level 3 Prevention Program Chemicals
Prevention Program
                            44885
Chemical ID:
Chemical Name:
                            Chlorine
                            TOXIC
Flammable/Toxic:
CAS Number:
                            7782-50-5
Prevention Program Level
                            30915
3 ID:
                            22132
NAICS Code:
* Saftey Information
Safety Review Date (The
date on which the safety
information was last
                            22-MAR-2004
reviewed or revised):
* Process Hazard Analysis (PHA)
PHA Completion Date
(Date of last PHA or PHA
update:
                            24-MAR-2004
The Technique Used
What IF:
Checklist:
What If/Checklist:
                            YES
HAZOP:
Failure Mode and Effects
Analysis:
Fault Tree Analysis:
Other Technique Used:
PHA Change Completion
Date (The expected or
actual date of
completion of all
changes resulting from
                           30-MAR-2004
last PHA or PHA update)
Major Hazards Identified
                            YES
Toxic Release:
Fire:
                           YES
```

Explosion:

Runaway Reaction: Polymerization: Overpressurization: YES Corrosion: Overfilling: Contamination: Equipment Failure: YES Loss of Cooling, Heating, Electricity, YES Instrument Air: Earthquake: Floods (Flood Plain): YES Tornado: Hurricanes: Other Major Hazard Identified: Process Controls In Use Vents: Relief Valves: YES Check Valves: Scrubbers: Flares: Manual Shutoffs: YES Automatic Shutoffs: Interlocks: YES Alarms and procedures: Keyed Bypass: Emergency air supply: Emergency Power: Backup Pump: Grounding Equipment: Inhibitor Addition: Rupture Disks: YES Excess Flow Device: Quench System: Purge System: None: Other Process Control In Ųse: Mitigation Systems In Use Sprinkler System: Dikes: Fire Walls: Blast Walls: Deluge System: Water Curtain: Enclosure: YES Neutralization: Other Mitigation System In Use: Monitoring/Detection Systems In Use Process Area Detectors: Perimeter Monitors: None: Other Monitoring/Detection System In Use: Changes Since Last PHA Update Reduction in Chemical Inventory: Increase in Chemical Inventory: Change Process Parameters:

Installation of Process

Controls:

Installation of Process Detection Systems: Installation of Perimeter Monitoring Systems: Installation of Mitigation Systems: None Recommended:

None: Other Change Since Last

PHA or PHA update:

Review of Operating Procedures Operating Procedures Revision Date (The date of the most recent review or revision of

operating procedures): 22-MAR-2004

YES

* Training Training Revision Date (The date of the most recent review or revision of training

programs): 03-MAY-2003

The Type of Training Provided Classroom:

On the Job:

Other Type of Training

Provided:

The Type of Competency Testing Used Written Test: Oral Test: Demonstration: YES Observation: Other Type of Competency

Testing Used:

* Maintenance Maintenance Procedures Revision Date (The date of the most recent review or revision of

maintenance procedures): 23-MAR-2004

Equipment Inspection Date (The date of the most recent equipment inspection or test):

31-MAR-2004

Equipment Tested: (Equipment most recently

Chlorine lines and valves inspected or tested)

* Management of Change Change Management Date (The date of the most recent change that triggered management of change procedures): Change Management Revision Date (The date of the most recent review or revision of management of change procedures):

25-MAR-2004

* Pre-Startup Review Pre-Startup Review Date (The date of the most recent pre-startup

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review):
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25-MAR-2004

* Compliance Audits
Compliance Audit Date
(The date of the most
recent compliance audit):
Compliance Audit Change
Completion Date
(Expected or actual date
of completion of all
changes resulting from
the compliance audit):

Incident Investigation
Incident Investigation
Date (The date of the
most recent incident
investigation (if any)):
Incident Investigation
Change Date (The
expected or actual date
of completion of all
changes resulting from
the investigation):

- * Employee Participation Plans
 Participation Plan
 Revision Date (The date
 of the most recent
 review or revision of
 employee participation
 plans):
 28-APR-2004
- * Hot Work Permit Procedures
 Hot Work permit Review
 Date (The date of the
 most recent review or
 revision of hot work
 permit procedures): 28-APR-2004
- * Contractor Safety Procedures
 Contractor Safety
 Procedures Review Date
 (The date of the most
 recent review or
 revision of contractor
 safety procedures): 28-APR-2004
 Contractor Safety
 Performance Evaluation
 Date (The date of the
 most recent review or
 revision of contractor
- * Confidential Business Information CBI Claimed:

safety performance):

**** Section 9. Emergency Response *****

* Written Emergency Response (ER) Plan
Community Plan (Is facility included in
written community emergency response plan?):
Facility Plan (Does facility have its own
written emergency response plan?):
Response Actions (Does ER plan include
specific actions to be taken in reponse to
accidental releases of regulated
substance(s)?):
Public Information (Does ER plan include
procedures for informing the public and

29-APR-2004

local agencies responding to accidental release?):
Healthcare (Does facility's ER plan include information on emergency health care?):

- * Emergency Response Review Review Date (Date of most recent review or update of facility's ER plan):
- * Emergency Response Training Training Date (Date of most recent review or update of facility's employees):
- * Local Agency
 Agency Name (Name of local agency with which
 the facility ER plan or response activities
 are coordinated):
 Agency Phone Number (Phone number of local
 agency with which the facility ER plan or
 response activities are coordinated):

* Subject to:
OSHA Regulations at 29 CFR 1910.38:
OSHA Regulations at 29 CFR 1910.120:
Clean Water Regulations at 40 CFR 112:
RCFA Regulations at CFR 264, 265, and 279.52:
OPA 90 Regulations at 40 CFR 112, 33 CFR 154, 49 CFR 194, or 30 CFR 254:
State EPCRA Rules or Laws:
Other (Specify):

Dubuque County LEPC and HAZMAT Team

(563) 589-4160

YES

YES

IN THE MATTER OF City of Dubuque Water Pollution Control Plant, Respondent Docket No. CAA-07-2010-0033

CERTIFICATE OF SERVICE

I certify that a true and correct copy of the foregoing Expedited Settlement Agreement (ESA) was sent this day in the following manner to the addressees:

Copy hand delivered to Attorney for Complainant:

Kristen Nazar Assistant Regional Counsel Region 7 United States Environmental Protection Agency 901 N. 5th Street Kansas City, Kansas 66101

Copy by Certified Mail Return Receipt to:

Jonathan Brown, Manager City of Dubuque Water Pollution Control Plant 795 Julien Dubuque Drive Dubuque, Jowa 52003

Dated: 185111

Kathy Robinson

Hearing Clerk, Region 7