ILLINOIS POLLUTION CONTROL BOARD
February 13, 2020

VILLAGE OF HOMEWOOD,	)	
HOMEWOOD ILLINOIS, VILLAGE OF	)	
ORLAND PARK, ORLAND PARK	)	
ILLINOIS, VILLAGE OF MIDLOTHIAN,	)	
MIDLOTHIAN ILLINOIS, VILLAGE OF	)	
TINLEY PARK, TINLEY PARK ILLINOIS,	)	PCB 16-14 (Homewood)
EXXONMOBIL OIL CORPORATION,	)	PCB 16-15 (Orland Park)
VILLAGE OF WILMETTE, WILMETTE	)	PCB 16-16 (Midlothian)
ILLINOIS, CITY OF COUNTRY CLUB	)	PCB 16-17 (Tinley Park)
HILLS, COUNTRY CLUB HILLS	)	PCB 16-18 (ExxonMobil)
ILLINOIS, NORAMCO-CHICAGO, INC.,	)	PCB 16-20 (Wilmette)
FLINT HILLS RESOURCES JOLIET LLC,	)	PCB 16-21 (Country Club Hills)
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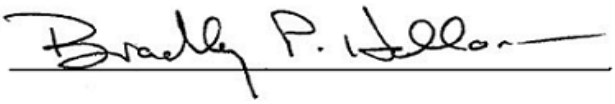
ILLINOIS, VILLAGE OF SKOKIE,	)	PCB 16-23 (INEOS Joliet)
SKOKIE ILLINOIS, ILLINOIS	)	PCB 16-25 (Evanston)
DEPARTMENT OF TRANSPORTATION,	)	PCB 16-26 (Skokie)
METROPOLITAN WATER	)	PCB 16-27 (IDOT)
RECLAMATION DISTRICT OF	)	PCB 16-29 (MWRDGC)
GREATER CHICAGO, VILLAGE OF	)	PCB 16-30 (Richton Park)
RICHTON PARK, RICHTON PARK	)	PCB 16-31 (Lincolnwood)
ILLINOIS, VILLAGE OF	)	PCB 16-33 (Oak Forest)
LINCOLNWOOD, LINCOLNWOOD	)	PCB 19-7 (Village of Lynwood)
ILLINOIS, CITY OF OAK FOREST, OAK	)	PCB 19-8 (Citgo Holdings)
FOREST ILLINOIS, VILLAGE OF	)	PCB 19-9 (New Lenox)
LYNWOOD, LYNWOOD ILLINOIS,	)	PCB 19-10 (Lockport)
CITGO HOLDINGS, INC., VILLAGE OF	)	PCB 19-12 (Crest Hill)
NEW LENOX, NEW LENOX ILLINOIS,	)	PCB 19-13 (Joliet)
CITY OF LOCKPORT, LOCKPORT	)	PCB 19-14 (Morton Salt)
ILLINOIS, CATERPILLAR, INC., CITY	)	PCB 19-15 (Palos Heights)
OF CREST HILL, CREST HILL ILLINOIS,	)	PCB 19-16 (Romeoville)
CITY OF JOLIET, JOLIET ILLINOIS,	)	PCB 19-17 (IMTT Illinois)
MORTON SALT, INC., CITY OF PALOS	)	PCB 19-18 (Stepan)
HEIGHTS, PALOS HEIGHTS ILLINOIS,	)	PCB 19-19 (Park Forest)
VILLAGE OF ROMEOVILLE,	)	PCB 19-20 (Ozinga Ready Mix)
ROMEOVILLE ILLINOIS, IMTT	)	PCB 19-21 (Ozinga Materials)
ILLINOIS LLC, STEPAN CO., VILLAGE	)	PCB 19-22 (Midwest Marine)
OF PARK FOREST, PARK FOREST	)	PCB 19-23 (Mokena)
ILLINOIS, OZINGA READY MIX	)	PCB 19-24 (Oak Lawn)
CONCRETE, INC., OZINGA	)	PCB 19-25 (Dolton)
MATERIALS, INC., MIDWEST MARINE	)	PCB 19-26 (Glenwood)
TERMINALS LLC, VILLAGE OF	)	PCB 19-27 (Morton Grove)
MOKENA, MOKENA ILLINOIS,	)	PCB 19-28 (Lansing)
VILLAGE OF OAK LAWN, OAK LAWN	)	PCB 19-29 (Frankfort)

ILLINOIS, VILLAGE OF DOLTON, DOLTON ILLINOIS, VILLAGE OF GLENWOOD, GLENWOOD ILLINOIS, VILLAGE OF MORTON GROVE, MORTON GROVE ILLINOIS, VILLAGE OF LANSING, LANSING ILLINOIS, VILLAGE OF FRANKFORT, FRANKFORT ILLINOIS, VILLAGE OF WINNETKA, WINNETKA ILLINOIS, VILLAGE OF LA GRANGE, LA GRANGE ILLINOIS, VILLAGE OF CHANNAHON, CHANNAHON ILLINOIS, COOK COUNTY DEPARTMENT OF TRANSPORTATION AND HIGHWAYS, VILLAGE OF NILES, NILES ILLINOIS, SKYWAY CONCESSION COMPANY LLC, VILLAGE OF ELWOOD, ELWOOD ILLINOIS, CITY OF CHICAGO, CHICAGO ILLINOIS, VILLAGE OF CRESTWOOD, CRESTWOOD ILLINOIS and VILLAGE OF RIVERSIDE, RIVERSIDE ILLINOIS, Petitioners, v. ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, Respondent.	)	PCB 19-30 (Winnetka) PCB 19-31 (La Grange) PCB 19-33 (Channahon) PCB 19-34 (CCDTH) PCB 19-35 (Niles) PCB 19-36 (Skyway) PCB 19-37 (Elwood) PCB 19-38 (Chicago) PCB 19-40 (Crestwood) PCB 19-48 (Riverside) (Time–Limited Water Quality Standard) (Consolidated)

HEARING OFFICER ORDER

Pursuant to my order of December 17, 2019, please find attached the Board's pre-filed questions.

IT IS SO ORDERED.



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CERTIFICATE OF SERVICE

It is hereby certified that true copies of the foregoing order were e-mailed on February 13, 2020, to each of the persons on the service list below.

It is hereby certified that a true copy of the foregoing order was e-mailed to the following on February 13, 2020:

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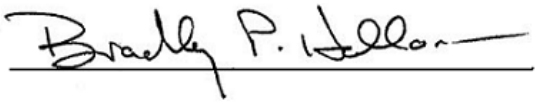

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ATTACHMENT 1
Board Questions
PCB 16-14 (Consolidated)
Time-Limited Water Quality Standard for Chloride

MWRD

1. Response to Board's Question 13(a) suggests changes to Table 1 of the draft order. MWRD also suggests several changes to the draft order in response Question 20. The attached draft order includes changes to the order language, updated tables and a new watershed map provided by MWRD. Please comment on whether the attached draft order reflects MWRD's suggested changes.

2. Response to Board's Question 15(i) notes that the relevant chloride concentration for Ruby Street (LDPRCW_01) should be 234 mg/L instead of 255 mg/L. In light of this correction, please comment on whether the proposed interim winter chloride criterion of 280 mg/L in draft Condition #5 needs to be revised to a lower concentration. If not, please explain why the correction of the Ruby Street chloride value has no bearing on the proposed interim chloride criterion.

3. Response to Board Question 15(ii)(2) states that Compliance with the interim criteria would be assessed once every five years, based on measurements collected on a weekly basis over the previous five year. Please explain the rationale for proposing a 5-year period for assessing compliance with the interim criterion. Comment on whether the compliance interval could be reduced to shorter time interval.

4. Response to Board Question 15(ii)(4) and (5) states that the compliance points for the CAWS and LDPR would be at the Lockport Forebay on the CSSC (RM 290.9) and the USGS gage at Channahon, IL, respectively. Please clarify whether these are the only two locations the interim criterion would be applicable during the term of the TLWQS.

5. Please explain why instream chloride level is not measured by water sampling instead of monitoring specific conductance at Channahon.

6. In response to Question 16 (i) & (ii), MWRD states that requiring chloride workgroups specific and detailed measures goes beyond the Board's authority. Please elaborate on the reasons why MWRD believes the other provisions concerning chloride workgroups are within the Board's authority, but not outreach and education provisions that are intended to reduce chloride levels in receiving streams. Also, comment on whether the individual petitioners should be required to implement the outreach and education provisions instead of the workgroups.

7. In response to Question 18 (a) regarding new sources of chloride, MWRD states that the eligibility criteria under draft Condition #1(c) must apply to new sources of chloride only if

the discharge is "significant". Please clarify what is meant by "significant" discharger. Comment on whether the eligibility criteria must include a numeric threshold value to define a "significant" source or discharger.

8. In response to Question 19 regarding compliance strategy, MWRD states that any revisions to the underlying designated uses and/or criterions would be proposed at the end of the full 15-year term. Please clarify whether the Joint Petitioners intend to perform specific toxicity studies to collect new or additional information necessary to revise the underlying designated use or criterion during the term of the TLWQS. If so, should the TLWQS include a condition requiring the Joint Petitioners to conduct additional toxicity studies.

IEPA

9. IEPA's response to Board questions include several changes to the proposed draft order included in the July 24, 2019 hearing officer order. As noted above, MWRD has also suggested changes to the draft order. Please comment on whether the changes to the attached draft order reflect IEPA's suggested changes.

10. In response to Board's Question16(i), MWRD states that neither IEPA nor the Board have authority to require chloride workgroups to conduct outreach and education. Please comment on whether IEPA agrees with MWRD. If so, please clarify whether the petitioners should be required to perform outreach and education. If not, comment on whether the Board should retain the outreach and education provisions under paragraph 4 of the draft order.

11. Regarding Board's Question 18 concerning offsets for new sources seeking coverage under the TLWQS, MWRD states, "If an offset requirement is adopted, then IEPA should be tasked with developing a trading system, in consultation with stakeholders." MWRD Resp. at 11. Please comment on whether IEPA intends to develop a system for trading chloride offsets. If so, what would be the timeline for the availability of the trading platform? If not, comment on whether offsets requirement could be met on a case-by-case basis.

12. In response to Question 20 (Condition 1(i)), IEPA states that it cannot comply with the 90-day response deadline because NPDES permit includes a 15-day notice to the facility along with a 30-day public notice. Please comment on whether a 120-day time limit is acceptable to IEPA. If not, please propose a reasonable response time limit.

13. IEPA states that Table 4 of the proposed order needs a column for the Chloride Workgroups. Table 4 already sets forth separate implementation schedules for Chloride Workgroups. If IEPA wants additional specificity regarding various workgroups, please propose appropriate revisions to Table 4.

14. IEPA states that the proposed TLWQS is consistent with applicable federal regulations. Rec. at 27. Please clarify whether the chloride standards for CAWS and LDPR under 35 Ill. Adm. Code 302.407 have been approved by USEPA in accordance with the requirements of 40 CFR Part 131 to ensure that the TLWQS is granted from currently applicable standards for "Clean Water Act purposes". If so, please submit any approval documentation into the record.

15. According to 35 Ill. Adm. Code 104.570, "[b]efore a TLWQS becomes effective for Clean Water Act purposes, the Agency must submit the TLWQS to USEPA and obtain USEPA's approval in compliance with section 303(c) of the Clean Water Act and 40 CFR 131.20 and 131.21."

    a. Please clarify whether IEPA has been engaged in discussions with USEPA regarding the Joint Submittal for chloride TLWQS.

    b. If so, comment on whether IEPA has received any indication regarding the approvability of the TLWQS request. Please submit into the record any correspondence from USEPA regarding the Joint Submittal petition for TLWQS.

16. Citgo's Jim Huff asks the Board for guidance on the impact of the TLWQS, if granted, on the current permit conditions contained in Citgo's NPDES permit. Huff PFT. at 9. Please comment on how IEPA will implement conditions of the TLWQS with respect to Citgo's permit.

17. Please comment on whether the Cook County Department of Transportation's alternate language for BMP #16 (James PFT. at 4) acceptable to IEPA.

18. IMTT's response questions whether IEPA or the Board has the authority to require membership in a workgroup as a component of a permit or variance condition. IMTT notes that membership in a workgroup is "not specifically authorized by statute and forces a petitioner to accept a compliance obligation over which it has no or limited control, i.e. the actions of a group." IMTT Resp. at 3. Please comment on whether the provision to require mandatory participation in a chloride workgroup is within the Board's authority under the Act.

James Huff (Citgo)

19. On page 5 you explain that the main reason for withdrawing the proposal for revised chloride water quality standards rulemaking in Docket R18-32 was due to USEPA's request for extensive additional toxicity testing. Please comment on whether USEPA, IEPA, MWRD or IAWA are currently conducting or funding toxicity testing for Illinois waterways that may lead to a revised chloride standard. If not, should the proposed TLWQS include a condition requiring such studies to be performed by the petitioners during the term of the TLWQS?

20. The CSSC chloride data on page 6 indicates that 2019 had 10 days of the running 4-day average exceedence of the chronic chloride standard of 620 mg/L. Please explain the conditions leading to such a large number of exceedence compared to previous 10 years.

21. On pages 7 and 8 you highlight the importance of education and outreach conducted by Citgo of both onsite, as well as off-site residents. Please comment on whether outreach and education should be an integral part of the TLWQS. If so, should the responsibility of conducting such activities be delegated to the chloride workgroups, IEPA or the individual petitioners?

Village of Crestwood

22. Village of Crestwood's Individual Submittal (8-1-2018) lists the outfall locations at Tinley Creek, Laramie Ditch, Cal-Sag Tributary, and East Crestwood Ditch. Please clarify whether any of these receiving waterways must be included in Table 1 of the proposed draft order.

Laura Barghusen (Openlands)

23. You mention "the Chicago Wilderness Region" several times in your testimony. Please clarify whether this region is within the watersheds affected by the proposed chloride TLWQS. Please submit a map of the wilderness region if one is available to Openlands.

24. On page 3, you note that efforts being made locally to improve conditions for the ellipse mussel to increase its population throughout the Chicago Wilderness rivers and streams. Please explain the reasons for focusing on ellipse mussel in the Chicago wilderness area. Also, clarify whether ellipse mussel is classified as an endangered species.

25. On page 8, you refer to the U.S. Army Corps of Engineers' (USACE) Chicago Rivers Restoration Framework Plan. Please clarify whether this plan focuses only on habitat restoration or the improvements also address broader issues like reducing pollutant loadings, including chloride. Also, comment on the implementation schedule of the projects included in the USACE plan.

26. Regarding chloride monitoring (page 8-9), you recommend that MWRD must monitor chloride at least once per week at locations within the vicinity of known chloride-intolerant aquatic life uses.

    a. Please clarify if you are aware of the specific locations in the affected waterways with known chloride-intolerant aquatic life uses. If so, would it be possible to identify such locations with reference to the nearest MWRD's ambient water quality monitoring sites.

    b. Please comment on whether weekly chloride monitoring should be included as a condition of the TLWQS.

27. On page 9, you conclude that the proposed TLWQS does not adequately account for recent research on the sensitivity of fingernail clams, the glochidia of fatmucket mussels, and several other sensitive or intolerant species in the CAWs and the LDPR. Please provide specific changes or additions to the proposed draft order, including a revised interim criterion that would address your concerns regarding protection of sensitive or intolerant species.

Revised Potential Draft Order Language

In lieu of the applicable water quality standards for chloride under 35 Ill. Adm. Code 302~~and total dissolved solids~~ for the waterways listed in Table 1 for the dischargers listed in Table 2 and the watershed depicted in Figure 1; the Board grants a Time Limited Water Quality Standard (TLWQS) for chloride subject to the following conditions.

Additional dischargers not listed in Table 2, wishing to be considered eligible under this TLWQS for chloride, must meet the Eligibility Criteria listed below and receive approval from IEPA.

1. **Eligibility Criteria**

   a) A discharger must be located in the Chicago Area Waterway System (CAWS) or Lower Des Plaines River (LDPR) watersheds as identified by the Board pursuant to Section 104.565(d)(2)(A)(i).

   b) The discharger must belong to one of the classes identified by the Board pursuant to 35 Ill. Adm Code 104.540.

   c) The discharger, if a new source of chloride, must offset at least their additional loading before receiving coverage under the TLWQS.

   d) The discharger must have joined and will be participating in either the CAWS chlorides workgroup or the LDPR chlorides workgroup.

   e) The discharger is committed to implementing a pollutant minimization program which includes all the Best Management Practices (BMP) identified by the Board's order granting the TLWQS.

   f) The discharger is committed to implementing any required BMP not currently being implemented within 12 months.

   g) The discharger must commit to participating in the re-evaluation proposal pursuant 35 Ill. Adm. Code Section 104.580.

   h) The discharger must submit the following information to the Illinois EPA:

      1) the location of the discharger's activity and the location of the points of its discharge;

      2) identification of discharger's NPDES permits;

      3) identification and description of any process, activity, or source that contributes to a violation of the chlorides water quality standard, including the material used in that process or activity;

4) a description and copy of all Pollutant Minimization Plans that are currently being implemented or were implemented in the past; and

5) identification of any other BMPs being implemented to reduce chloride in the discharge that are not identified by the Board's order granting the TLWQS.

i) Within 90 days, IEPA must notify the discharger whether it is approved to be covered under this TLWQS.

2. **Best Management Practices**

a) The dischargers covered by this TLWQS must implement the Best Management Practices identified in Table 3 according to the Implementation Schedule in Table 4.

3. **Individual Dischargers Covered by this TLWQS**

a) By the deadline listed in Table 4, dischargers must each prepare a Pollutant Minimization Program for their own operations that identifies the specific BMPs in Table 3 that it will implement along with the applicable monitoring, recordkeeping and reporting procedures, and the relevant schedule for implementation as provided in Table 4.

b) By the deadlines listed in Table 4, dischargers must submit an Annual Report to IEPA and the appropriate chlorides workgroup on the discharger's prior year's usage of deicing agents and steps taken to minimize chloride use. Dischargers must make the report publicly available and include the following:

BMPs

1) List of the BMPs being used and to what extent

2) Analysis of BMPs that the discharger has implemented over the term of the TLWQS, including a discussion of the effectiveness and environmental impact of the BMPs, and any hinderances or any unexpected achievements or setbacks

3) Analysis of any alternative treatments or new technology that could be implemented by the discharger to reduce chloride loadings to the waterways

Deicing Agents Used

4) Types of deicing agents used and whether they are used as dry, pre-wetted, or liquid (e.g., sodium chloride rock salt, calcium chloride, magnesium chloride, calcium magnesium acetate, potassium acetate, potassium chloride, abrasives, urea, organics)

5) Estimate of the amount of chloride salt usage ~~on~~ in the past year and over the term of the TLWQS

6) Estimates of relative amounts applied and relative percent coverage achieved by the following types of deicing agents: dry, wet, liquid

7) Application practices used (cleared using pre-wetted salt; cleared using anti-icing)

8) Application rates (pounds/lane mile, ~~or~~ gallons/lane mile, lbs/square foot, gallons/square foot) by deicing agent type and storm event (e.g. 1-inch storm event; long duration freezing rain event)

9) Description of how application rates varied for different types of weather and how they have changed over the term of the TLWQS.

10) Whether the use of liquids was increased, and dry chloride salt application rates were reduced

11) Callouts

    a) Summary of snowfall data

    b) Number of callouts

    c) Quantity and type of precipitation during the callout

    d) Application rate for each type of deicing agent during the callout

    e) Quantity of chloride salt used for each callout

Training

12) Annual training that was completed for the entire workforce that applied chloride-based deicing salts

13) Identification of additional training that is necessary

14) Explanation of why discharger was unable to complete the training identified in the previous annual report

Deicing and Snow Removal Equipment

15) Types and numbers of snow and/or ice removal equipment used (e.g., snowplows as well as mechanically controlled spreaders and computer-/sensor-controlled spreaders for dry solids, pre-wetted solids, or liquids)

16) Description of equipment washing as well as wash water collection and disposal or reuse for making brine

Salt Storage

17) Number of chloride salt storage areas

18) Number of chloride salt storage areas in fully enclosed structures

19) Number of chloride salt storage areas on an impervious pad

20) Number of chloride salt storage areas without a fully enclosed storage structure or impervious storage pad

21) Information on salt storage methods used to ensure good housekeeping policies are implemented (e.g., cleaned-up salt piles)

Purchases

22) Identification of necessary capital purchases and expenditures over the next three years to reduce de-icing chloride salt applications, focused on increased use of liquids and reducing chloride salt application rates as well as cleaning up salt piles. (e.g., new storage structures; new or retrofitted salt spreading equipment necessary to allow for pre-wetting and proper rates of application)

23) Explanation of why discharger was unable to make all capital purchases and expenditures identified in the previous annual report.

Environmental Monitoring Data

24) Any changes to a facility's NPDES treatment technologies

25) NPDES effluent data, if any, for chloride discharges

26) Summary of relevant, available instream chloride monitoring data for local waterway (which may reference data gathered by State or Federal agencies or other parties)

Projections

27) Proposed steps for the coming year

28) Description of how the dischargers will implement an adaptive, iterative management approach based on reviewing annual reports to adjust salt application practices to achieve further chloride reductions in the coming year

4. **Chloride Workgroups**

a) The dischargers covered by this TLWQS must participate in a chloride workgroup whose main goals are working toward the reduction of chloride in the receiving stream and gathering information for the reevaluation.

b) The dischargers must participate in the workgroup(s) associated with the watershed in which the discharge is located.

c) Workgroups must convene at least semi-annually and continue meeting throughout the term of the TLWQS.

d) By the deadlines listed in Table 4, the workgroup must submit a Status Report to IEPA and make the report publicly available. The Status Report must compile and analyze the individual discharger Annual Reports into a watershed-wide report and include the following:

1) Chlorides monitoring data

2) Workgroup's outreach strategy, including efforts to include other dischargers under the TLWQS, and outreach and training for nonpoint sources

3) New BMPs and treatment technologies to reduce chloride loading to the environment

4) Impediments faced by dischargers under the TLWQS that prevent them from completing the training and making all capital purchases necessary to implement the required BMPs

5) Possible solutions to impediments listed in (4)(d)(4)

6) Identification and description of any financial, technical, or other assistance the workgroup may be able to provide individual dischargers to overcome the impediments described in (4)(d)(4)

7) Results of criteria measurement and compliance demonstration with the highest attainable condition under Item 5

e) Workgroups must prepare outreach and educational materials to create awareness about the environmental impacts of chlorides. Workgroups

must share these materials with other users of road salt in their local area, including residents, road salt applicators, elected officials, and businesses. Outreach and education materials may include various forms of social media, incentives for chloride reduction, support for community-based training of commercial road salt spreaders, training for residents and other entities that apply road salt, and funding or other support to implement chloride BMPs in communities where new equipment is not affordable.

f) Workgroups must coordinate with IEPA to identify communities located in the TLWQS watersheds who have Municipal Separate Storm Sewer System (MS4) permits. Workgroups must reach out to the MS4 communities to remind them of the general permit special condition requiring participation in a watershed chloride workgroup and provide information on participating in their workgroup. Additionally, workgroups must provide MS4 communities with their education materials.

g) Workgroups must coordinate with IEPA to identify different nonpoint source categories beginning in year seven of the TLWQS term. Workgroups must work with IEPA to prioritize and implement education outreach efforts for nonpoint sources based on their road salting practices and proximity to surface waters.

(h) Workgroups must identify all sampling points and sampling frequency in a sampling plan to demonstrate compliance with the highest attainable condition as delineated in Item 5.

5. **Criteria Measurement and Compliance Demonstration**

a) ~~The interim summer criterion for the months of May through November is 500 mg/L.~~

~~b)~~ The interim winter criterion for the months of December through April is 280 mg/L. Compliance is to be assessed as an average of the measurements during the months of December through April at the end of the first five-year term, using a 4-year seasonal average for the first re-evaluation period, and then every five years thereafter.

~~b~~c) Measurements for the interim ~~summer and~~ winter criterion for CAWS must be based on instream water quality sampling at Lockport Forebay on the CSSC (RM 290.9) upstream of the confluence with the Des Plaines River.

~~c~~d) Measurements for the interim ~~summer and~~ winter criteriona for LDPR must be based on instream water quality monitoring~~sampling~~ at the USGS

gage 05539670 ~~at the Des Plaines River at Oil Tanking (Site LPRCW_03) at River Mile 275.8~~ in Channahon, IL.

~~e) Measurements for the interim summer and winter criteria for General Use Waters must be based on instream water quality sampling or modeling at the edge of the permitted mixing zone.~~

~~f) Measurements for the interim summer and winter criteria for CSSC must be based on instream water quality sampling in the CSSC near the confluence of the CSSC with LDPR.~~

6. **Re-evaluation**

a) By the deadlines listed in Table 4, dischargers under this TLWQS or the chloride workgroups must submit a proposed re-evaluation under 35 Ill. Adm. Code 104.580, which assesses the highest attainable condition using all existing and readily available information.

b) To ensure that there is enough data collected to perform the re-evaluation, the chloride workgroups must conduct sufficient data collection in the receiving stream~~that was used in the support of this chloride TLWQS must continue~~.

c) Chloride workgroups must evaluate if the chloride sampling plan and data collection needs to be expanded or otherwise modified.

d) At each re-evaluation, dischargers covered under this TLWQS or the chloride workgroups must ~~shall~~ evaluate each required BMP, analyze its effectiveness, and provide a recommendation about whether it should be continued as is, modified to improve its effectiveness, or eliminated. The dischargers covered under this TLWQS or the chloride workgroups must ~~shall~~ consider any new or innovative technology that could improve water quality if implemented and identify all such technologies.

7. **Time-Limited Water Quality Standard Term**

a) The term of the TLWQS expires 15 years after USEPA approval.

b) During the 15-year term, a re-evaluation of the Highest Attainable Condition must be submitted to the Board and subsequently to USEPA six months before the end of each five-year TLWQS period. The discharges in Table 2 must participate in the group that conducts and submits this re-evaluation.

c) If the 280 mg/L interim criterion is not attained at the end of the first five years, then the dischargers covered by this TLWQS must evaluate the

feasibility of implementing additional measures beyond those identified in Tables 3 and 4 to reduce ambient chloride levels in the Watershed.

The Agency is directed to modify or issue NPDES Permits for each discharger covered by this TLWQS that incorporate the conditions of this TLWQS, the Best Management Practices in Table 3, and the implementation schedule in Table 4.

Table 1: Receiving Waters, Use Designations and Generally Applicable Water Quality Standards for Chloride ~~and Total Dissolved Solids~~

RECEIVING WATER		USE DESIGNATION	HUC Code	IEPA SEGMENT CODE	Generally Applicable Chloride Water Quality Standard
Chicago Area Waterway System	**CAWS**				
Upper Northshore Channel from Wilmette Pumping Station to North Side WRP	Upper NSC	CAWS Aquatic Life Use A	071200030104	HCCA-02	302.208(g) 500 mg/L Chloride Year Round
Lower NSC from North Side WRP to confluence with NBCR	Lower NSC	CAWS Aquatic Life Use A	071200030104	HCCA-04	302.208(g) 500 mg/L Chloride Year Round
North Branch of the Chicago River	NBCR	CAWS Aquatic Life Use A	071200030106	HCC-02 HCC-08	302.407(g)(3) 500 mg/L Chloride Year Round
Chicago River (from Lake Michigan to confluence with NBCR and SBCR)	CR: Lake Michigan-NBCR & SBCR	General Use	071200030107	HCB-01	302.208(g) 500 mg/L Chloride Year Round
South Branch of the Chicago River	SBCR	CAWS Aquatic Life Use A	071200030107	HC-01	302.407(g)(3) 500 mg/L Chloride Year Round
Chicago Sanitary and Ship Canal	CSSC	CAWS and Brandon Pool Aquatic Life Use B	071200030107 071200040705	GI-03 GI-06 GI-02	303.449 May-Nov. 500 mg/L Chloride Dec.-Apr.

RECEIVING WATER		USE DESIGNATION	HUC Code	IEPA SEGMENT CODE	Generally Applicable Chloride Water Quality Standard
					Acute 990 mg/L Chronic 620 mg/L
Cal-Sag Channel	CSC	CAWS Aquatic Life Use A	071200030403 071200040702	H-02 H-01	302.407(g)(3) 500 mg/L Chloride Year Round
Grand Calumet River	GCR	CAWS Aquatic Life Use A	071200030407	HAB-41	302.407(g)(3) 500 mg/L Chloride Year Round
Lake Calumet	LC	CAWS Aquatic Life Use A	040400010603	IL_RHO	302.407(g)(3) 500 mg/L Chloride Year Round
Lake Calumet Connecting Channel	LCCC	CAWS Aquatic Life Use A	040400010603	NA	302.407(g)(3) 500 mg/L Chloride Year Round
Calumet River from Lake Michigan to its confluence with GCR and LCR	CR	CAWS Aquatic Life Use A	040400010603	HAA-01	302.407(g)(3) 500 mg/L Chloride Year Round
Little Calumet River from its confluence with CR and GCR to its confluence with CSC	LCR	CAWS Aquatic Life Use A	071200030407	HA-05 HA-04	302.407(g)(3) 500 mg/L Chloride Year Round
Lower Des Plaines River	**LDPR**				
Des Plaines River from Kankakee River to the I-55 Bridge	DPR: KR-I-55 Bridge	General Use	071200040705	IL_G-03 IL_G-11	302.208(g) 500 mg/L Chloride Year Round

RECEIVING WATER		USE DESIGNATION	HUC Code	IEPA SEGMENT CODE	Generally Applicable Chloride Water Quality Standard
Des Plaines River from the I-55 Bridge to Brandon Road Lock and Dam	DPR: I-55 Bridge – BRLD	Upper Dresden Island Pool Aquatic Life Use	071200040705	IL_G-11	302.407(g)(3) 500 mg/L Chloride Year Round
Des Plaines River from the Brandon Road Lock and Dam to confluence with CSSC	DPR: BRLD – CSSC	CAWS and Brandon Pool Aquatic Life Use B	071200040705	IL_G-12 IL_G-23	302.407(g)(3) 500 mg/L Chloride Year Round
Des Plaines River from confluence with the CSSC to the Will County Line	DPR: CSSC-Will County Line	General Use	071200040705 071200040706	IL_G-24 IL_G-39	302.208(g) 500 mg/L Chloride Year Round
Hickory Creek	HC	General Use	071200040601 071200040603	IL_G-04 IL_G-06 IL_G-22	302.208(g) 500 mg/L Chloride Year Round
Union Ditch	UD	General Use	071200040601	IL_GG-FN-A1 IL_GG-FN-C1	302.208(g) 500 mg/L Chloride Year Round
Spring Creek	SC	General Use	071200040602	IL_GGA-02	302.208(g) 500 mg/L Chloride Year Round
Marley Creek	MC	General Use	071200040603	IL_GGB-01	302.208(g) 500 mg/L Chloride Year Round
East Branch of Marley Creek	EBMC	General Use	071200040603	NA	302.208(g) 500 mg/L Chloride Year Round

Table 2: Individual Dischargers and Receiving Waters

PCB	PERMIT HOLDER	FACILITY LOCATION	RECEIVING WATER	PERMIT NUMBER	DISCHARGER CATEGORY
16-14	**Village of Homewood**	2020 Chestnut Re., Homewood, IL 60430	CalR & LCR	ILR400357 – Cook County	MS4
16-15	**Village of Orland Park**	Orland Park, Cook and Will Counties, IL	CSC HC SC MC	ILR400414	MS4
16-16	**Village of Midlothian**	14801 S. Pulaski, Midlothian, IL 60445	CSC	ILR400387	MS4
16-17	**Village of Tinley Park**	16250 S. Oak Park Ave., Tinley Park, IL 60477	CalR & LCR	ILR400460	MS4
16-18	**ExxonMobil Joliet Refinery, ExxonMobil Oil Corp.**	25915 South Frontage Rd, Channahon, IL 60410	DR-KR	IL0002861 ILR10	IS
16-20	**Village of Wilmette**	711 Laramie Ave., Wilmette, IL 60091	NBCR NSC	MS4 ILR40-0473 CSO ILM580012	MS4 CSO
16-21	**City of Country Club Hills**	4200 West 183rd St., Country Club Hills, IL	CalR & LCR	ILR400177	MS4
16-22	**Noramco-Chicago, Inc.**	12228 New Ave., Lemont, IL 60439	CSSC	NA (Pending permit application: IL0001309)	SSF

PCB	PERMIT HOLDER	FACILITY LOCATION	RECEIVING WATER	PERMIT NUMBER	DISCHARGER CATEGORY
16-23	**INEOS Joliet, LLC**	23425 Amoco Road, Channahon, IL 60410	DPR: KR-WC	IL 0001643	IS
16-25	**City of Evanston**	2100 Ridge Ave., Evanston, IL 60201	NSC	ILM580036 (CSO) ILR400335 (MS4)	MS4 CSO
16-26	**Village of Skokie**	5127 Oakton St., Skokie, IL	NSC	ILM580036 (CSO) ILR400447 (MS4)	MS4 CSO
16-27	**IDOT**	2300 S. Dirksen Pkwy, Springfield, IL	**CAWS** CR NBCR SBCR CSSC CSG GCR LC LCCC CalR & LCR NSC **LDPR** DPR: KR-WC HC UD SC MC EBMC	ILR00493	IDOT/IT

PCB	PERMIT HOLDER	FACILITY LOCATION	RECEIVING WATER	PERMIT NUMBER	DISCHARGER CATEGORY
16-29	**Calumet WRP, MWRDGC**	400 E. 130th St., Chicago, IL 60628	CSC CalR & LCR	IL0028061 ILR003177	POTW
	Lemont WRP, MWRDGC	13 Stephen St., Lemont, IL	CSSC	IL0028070	POTW
	Lockport Powerhouse, MWRDGC	2400 South Powerhouse Rd., Lockport, IL 60441	CSSC	IL0077305	IS
	Stickney WRP, MWRDGC	6001 W. Pershing Rd., Cicero, IL 60804-4112	SBCR CSSC	IL0028053 ILR003183	POTW
	Terrence J. O'Brien (North Side) WRP, MWRDGC	3500 W. Howard St., Skokie, IL 60076	NBCR NSC	IL0028088	POTW
16-30	**Village of Richton Park**	4455 Sauk Trail, Richton Park, IL 46071	CalR & LCR	IL3012550 ILR40 (MS4)	MS4 SSF
16-31	**Village of Lincolnwood**	6900 N. Lincoln Ave., Lincolnwood, IL 60712	NSC	ILR400218 ILM580034	MS4 CSO
16-33	**City of Oak Forest**	15440 S. Central Ave., Oak Forest, IL 60452	CSC CalR & LCR	ILR400408	MS4
19-7	**Village of Lynwood**	21460 E Lincoln Hwy, Lynwood, IL 60411	CalR & LCR	ILR40-0380	MS4 SSF
19-8	**CITGO Petroleum Corp. – Lemont Refinery**	135th Street and New Avenue, Lemont, IL 60439	CSSC	IL0001859	IS
19-9	**Village of New Lenox – STP #1, STP #2, STP #3**	1 Veterans Pkwy, New Lenox, IL 60451	DR-KR HC SC	IL0020559 IL0046264 IL0075957	POTW MS4

PCB	PERMIT HOLDER	FACILITY LOCATION	RECEIVING WATER	PERMIT NUMBER	DISCHARGER CATEGORY
				ILR400397	
19-10	**Lockport Sewage Treatment Plant**	425 W. Division St., Lockport, IL 60441	DPR: KR-WC	IL0029611 (Lockport) IL0021261 (BBFM) ILR40 (MS4)	POTW MS4
19-11	**Caterpillar, Inc.**	2200 Channahon Rd., Joliet, IL 60434	DPR: KR-WC	IL0001732	IS
19-12	**Crest Hill East Sewage Treatment Plant,** **Crest Hill MS4**	1610 Plainfield Rd., Crest Hill, IL 60403	DPR: KR-WC	IL0064998 (NPDES) ILR40 (MS4)	POTW MS4
19-13	**City of Joliet**	150 W. Jefferson St., Joliet, IL 60432	DPR: KR-WC HC SC	IL0022519 (NPDES) IL0033553 (NPDES) ILR10 (MS4)	POTW CSO MS4 SSF
19-14	**Morton Salt, Inc.-Chicago, IL-Calumet site**	3443-3461 East 100th Street, Chicago, IL 60617	CalR & LCR	ILR00 (General Permit)	SSF
19-15	**City of Palos Heights Public Works**	7607 West College Dr., Palos Heights, IL 60463	CSC	ILR400417 (MS4)	MS4 SSF

PCB	PERMIT HOLDER	FACILITY LOCATION	RECEIVING WATER	PERMIT NUMBER	DISCHARGER CATEGORY
19-16	**Village of Romeoville**	615 Anderson Dr, Romeoville, IL	DPR: KR-WC	ILL048526 ILR400436	POTW MS4
19-17	**IMTT Illinois LLC, Joliet Facility**	24420 W Durkee Road, Joliet, IL 60410	DPR: KR-WC	IL0063061	IS
		13589 Main St., Lemont, IL 60439	CSSC	IL0005126 IL0061182	
19-18	**Stepan Millsdale, Stepan Company**	2250 Stepan Drive, Elwood, IL 60421	DPR: KR-WC	IL0002453	IS
19-19	**Village of Park Forest Storm Sewer System**	350 Victory Drive, Park Forest, IL	CalR & LCR	ILR400421 (MS4)	MS4
19-20	**Ozinga Ready Mix Concrete, Inc.**	2525 Oakton St., Evanston, IL 60202 1818 East 103rd St., Chicago, IL 60617 12660 Laramie Ave., Alsip, IL 60803 11400 Old Lemont Rd., Lemont, IL 60439 2255 South Lumber St., Chicago, IL 60616 18825 Old La Grange Rd., Mokena, IL 60448 2001 North Mendell St., Chicago, IL 60642 504 Railroad St., Joliet, IL 60436	NSC CalR & LCR CSC CSSC SBCR HC NBCR DPR: KR-WC	ILR004480 ILR003588 ILR006916 ILR005770 ILR003584 ILR003587 ILR005319 ILR005865	IS IS IS IS IS IS IS IS

PCB	PERMIT HOLDER	FACILITY LOCATION	RECEIVING WATER	PERMIT NUMBER	DISCHARGER CATEGORY
19-21	**Ozinga Materials, Inc.**	13100 South Ashland Ave., Calumet Park, IL 60827	CSC CalR & LCR	Permit Pending	IS
19-22	**Midwest Marine Terminals, LLC**	11701 South Torrence Ave., Chicago, IL 60617	CalR & LCR	ILR006553	IS
19-23	**Village of Mokena**	WTP: 11400 W. 191st St., Mokena, IL 60448 MS4: 11004 Carpenter St., Mokena, IL 60448	EBMC HC EBMC	IL0024201 ILR40	POTW MS4
19-24	**Village of Oak Lawn, Public Works**	5550 and 5532 West 98th St., Oak Lawn, IL	CSC	ILR400409 ILR400712	MS4 SSF
19-25	**Village of Dolton**	14122 Chicago Rd., Dolton, IL 60419	CalR & LCR	ILR400182 (MS4) ILM580017 (CSO)	CSO
19-26	**Glenwood Public Works Department, Village of Glenwood**	19100 Glenwood/Chicago Heights Rd., Glenwood, IL	CalR & LCR	ILR400344	MS4 SSF
19-27	**Village of Morton Grove, Public Works**	7840 Nagle Ave., Morton Grove, IL	NBCR	ILR400391 (MS4) ILM580005 (CSO)	CSO MS4 SSF
19-28	**Village of Lansing**	3141 Ridge Road, Lansing, IL 60438	CalR & LCR	ILR400373 ILM580027	CSO MS4

PCB	PERMIT HOLDER	FACILITY LOCATION	RECEIVING WATER	PERMIT NUMBER	DISCHARGER CATEGORY
19-29	**Village of Frankfort Regional WWTP**	20538 South La Grange Rd., Frankfort, IL	HC	IL0072192	POTW
19-30	**Village of Winnetka**	1390 Willow Road, Winnetka, IL 60093	NBCR	ILR400476	MS4
19-31	**Village of La Grange**	320 East Avenue, La Grange, IL 60525	CSSC	ILM580009 (CSO) ILR400364 (MS4)	CSO MS4 SSF
19-33	**Village of Channahon STP**	26221 S. Blackberry Lane, Channahon, IL 60410	DPR: KR-WC	IL0069906	POTW
	Village of Channahon, MS4	Various	DPR: KR-WC	IL400623	MS4
19-34	**Cook County Department of Transportation and Highways**	Cook County	**CAWS:** NBCR CSSC CSC CalR & LCR NSC **LDPR:** HC UD SC MC EBMC	ILR400485	MS4
19-35	**Village of Niles**	6849 West Touhy Ave., Niles, IL 60714	NBCR	ILR400398	CSO MS4 SSF
19-36	**Chicago Skyway Toll Bridge,**		CalR & LCR	ILR400739 (MS4)	MS4

PCB	PERMIT HOLDER	FACILITY LOCATION	RECEIVING WATER	PERMIT NUMBER	DISCHARGER CATEGORY
	Skyway Concession Company, LLC				
19-37	**Village of Elwood – Deer Run STP**	26550 Elwood International Port Road, Elwood, IL 60421	DPR: KR-WC	IL0074713	POTW
19-38	**City of Chicago, Department of Water Management**	1000 East Ohio Street, Chicago, IL 60611	CR NBCR SBCR CSSC LCCC CalR & LCR	ILR400173	MS4
		1000 East Ohio Street, Chicago, IL 60611	CR NBCR SBCR CSSC CSC CalR & LCR NSC	IL0045012	CSO
19-40	**Village of Crestwood**	13840 S. Cicero Ave., Crestwood, IL	CSC	ILR400320	MS4
19-48	**Village of Riverside, Salt Storage Facility**	3860 Columbus Blvd., Riverside, IL 60546	CSSC	ILM580015	SSF
	Village of Riverside, CSOs	3860 Columbus Blvd., Riverside, IL 60546	CSSC	ILM580015	CSO
	Village of Lemont*				
	Village of Burr Ridge*				
	Village of Woodridge*				

* Per IEPA Rec. Att. 2., these non-petitioners may seek coverage under the TLWQS.

TABLE KEY

Discharger Category

POTW Publicly Owned Treatment Works

IS	Industrial Source
IDOT/IT	Illinois Department of Transportation/Illinois Tollway
SSF	Salt Storage Facility
CSO	Community with Combined Sewer Overflow Outfalls
MS4	Municipal Separate Storm Sewer System

Discharge Locations / Receiving Waters

CAWS	**Chicago Area Waterway System**
CR	Chicago River
NBCR	North Branch of the Chicago River
SBCR	South Branch of the Chicago River
CSSC	Chicago Sanitary and Ship Canal
CSC	Cal-Sag Channel
GCR	Grand Calumet River
LC	Lake Calumet
LCCC	Lake Calumet Connecting Channel
CalR & LCR	Calumet River and Little Calumet River
NSC	North Shore Channel

LDPR Lower Des Plaines River

DPR:	Des Plaines River
KR	Kankakee River
WC	Will County Line
HC	Hickory Creek
UD	Union Ditch
SC	Spring Creek
MC	Marley Creek
EBMC	East Branch of Marley Creek

Table 3: Best Management Practices

	Best Management Practice	POTWs	Industrial Sources	CSO Communities	MS4 Communities	IDOT / Tollway	Salt Storage Facilities
Permittees and parties covered under the Time Limited Water Quality Standard for Chloride (PCB 16-14 (Consolidated)) must implement the following Best Management Practices as applicable and indicated below for each discharger type:							
1.	Participate in a Chlorides workgroup for the CAWS and LDPR.	☐	☐	☐	☐	☐	
2.	Store all salt on an impermeable pad that must be constructed to ensure that minimal stormwater is coming into contact with salt unless the salt is stored in a container that ensures stormwater does not come into contact with the salt.	☐	☐	☐	☐	☐	
3.	Cover salt piles at all times except when in active use, unless stored indoors.	☐	☐	☐	☐	☐	
4.	At salt piles and during salt loading/unloading operations, implement good housekeeping policies to prevent or reduce salt runoff, including cleanup of salt at the end of each day or conclusion of a storm event, tarping of trucks for transportation of bulk chloride, maintaining the pad and equipment, good practices during unloading and loading, cleanup of loading and spreading equipment after each snow/ice event, written inspection program for storage facility, structures and/or work area, removing surplus materials from the site when winter activity finished where applicable, annual inspection and repairs completed prior to winter season where	☐	☐	☐	☐	☐	

	Best Management Practice	POTWs	Industrial Sources	CSO Communities	MS4 Communities	IDOT / Tollway	Salt Storage Facilities
	appropriate, evaluate the opportunity to reduce or reuse the wash water~~proper disposal of wash water from trucks/spreaders, etc~~.						
5.	Calibrate all salt spreading equipment at least annually before November 30th. Records of the calibration results must be maintained for each piece of spreading equipment.	☐	☐	☐	☐	☐	
6.	Pre-wet road salt before use, either by applying liquids to the salt stockpile, or by applying liquids by way of the spreading equipment as the salt is deposited on the road.	☐	☐	☐	☐	☐	
7.	~~Purchase equipment to m~~Measure the pavement temperature ~~unless such~~ using equipment ~~has already been~~ installed on road salt spreading vehicles.	☐	☐	☐	☐	☐	
8.	Develop and implement a protocol to vary the salt application rate based on pavement temperature, existing weather conditions, and forecasted weather conditions.	☐	☐	☐	☐	☐	
9.	Track and record salt quantity used and storm conditions from each call-out.	☐	☐	☐	☐	☐	
10.	Develop a written plan must for implementation of anti-icing, with milestones. The plan should consider increased use of liquids (e.g., carbohydrate products) beginning with critical locations such as bridges over streams.	☐	☐	☐	☐	☐	
11.	Provide employees involved in winter maintenance operations with annual training before November 30th on best management	☐	☐	☐	☐	☐	

	Best Management Practice	POTWs	Industrial Sources	CSO Communities	MS4 Communities	IDOT / Tollway	Salt Storage Facilities
	practices in the use of road salt in operations, including the practice of plowing first and applying salt only after snow has been cleared.						
12.	Be responsible for complying with all applicable BMPs even when deicing practices are contracted out and ensure that contractors are property trained and comply with all applicable BMPs.	□	□	□	□	□	
13.	Complete an annual report, which is standardized in an electronic format and submit~~ted through~~ to IEPA~~'s website~~ and ~~to~~ the watershed group.	□	□	□	□	□	
14.	Install equipment to measure the pavement temperature on the winter maintenance fleet for a sufficient number of vehicles to provide sufficient information to adjust application rates for the most efficient levels. Develop and complete a plan to equip the winter maintenance fleet before the first re-evaluation.			□	□	□	
15.	Before the first re-evaluation, develop a method for conducting a post-winter review to identify areas of success and areas in need of improvement. Items to be completed as part of the review must include, but are not limited to, an evaluation of each salt spreader's application rate, variations in application rates, and discussion of the variation compared to the recommended rates. Once developed, the review should occur annually in the			□	□	□	

	Best Management Practice	POTWs	Industrial Sources	CSO Communities	MS4 Communities	IDOT / Tollway	Salt Storage Facilities
	spring/early summer following each winter season.						
16.	For working areas, provide berms and or sufficient slope to allow snow melt and stormwater to drain away from the area. In some cases, it may be necessary to channel water to a collection point such as a sump, holding tank or lined basin for collection.	□	□	□	□	□	
17.	Obtain and put into place equipment necessary to enable implementation of all salt spreading/deicing measure specified in this BMP, such as any new or retrofitted salt spreading equipment necessary to allow for pre-wetting and proper rates of application.	□	□	□	□	□	
18.	Use deicing material storage structures for all communities covered under General Permit ILR40 for MS4 communities.			□	□		
A.	Store all salt on an impermeable pad that must be constructed to ensure that minimal stormwater is coming into contact with salt.						□
B.	Pads must be constructed to avoid drainage onto the pad. Any drainage that enters the pad should be directed to a stormwater retention pond.						□
C.	Outdoor salt piles not stored under permanent cover must be covered by well-secured tarps at all times except when in active use. While working on the pile, fixed or mobile berms						□

	Best Management Practice	POTWs	Industrial Sources	CSO Communities	MS4 Communities	IDOT / Tollway	Salt Storage Facilities
	shall be incorporated around non-working face to minimize stormwater contact. The permittee shall stage tarp when starting final lift and tarp over the edge of the berm/pad where possible.						
D.	At salt piles and during salt loading/unloading operations, implement good housekeeping policies to prevent or reduce salt runoff, including cleanup of salt at the end of each day or conclusion of a storm event, tarping of trucks for transportation of bulk chloride, maintaining the pad and equipment, good practices during unloading and loading, cleanup of loading and spreading equipment after each snow/ice event, written inspection program for storage facility, structures and/or work area, removing surplus materials from the site when winter activity finished where applicable, annual inspection and repairs completed prior to winter season where appropriate, evaluate the opportunity to reduce or reuse the wash water ~~proper disposal of wash water from trucks/spreaders~~, etc.						□
E.	Annual training must be conducted for employees responsible for loading/unloading/handling at docks and trucks at the facility.						□
F.	Complete an annual report, which is standardized in an electronic format and submitted through IEPA's website and to the watershed group.						□

	Best Management Practice	POTWs	Industrial Sources	CSO Communities	MS4 Communities	IDOT / Tollway	Salt Storage Facilities
G.	The Permittee must participate in a Chlorides workgroup for the CAWS or LDPR, depending on the watershed within which the facility's discharge is located.						
H.	Working areas should be bermed and/or sloped to allow snow melt and stormwater to drain away from the area. In some cases, it may be necessary to channel water to a collection point such as a sump, holding tank or lined basin for collection.						
I.	The Permittee shall make use of fixed and mobile berms where appropriate to redirect flow and ~~taper~~ tarp over the edge of the pad where possible to minimize stormwater contact.						
J.	The Permittee should consider the retention of stormwater which contacts the salt from a 25-year/24-hour storm event where feasible. Such retention could be either within the berm or in a separate basin, or the impacted stormwater could be stored and used as pre-wetting brine.						

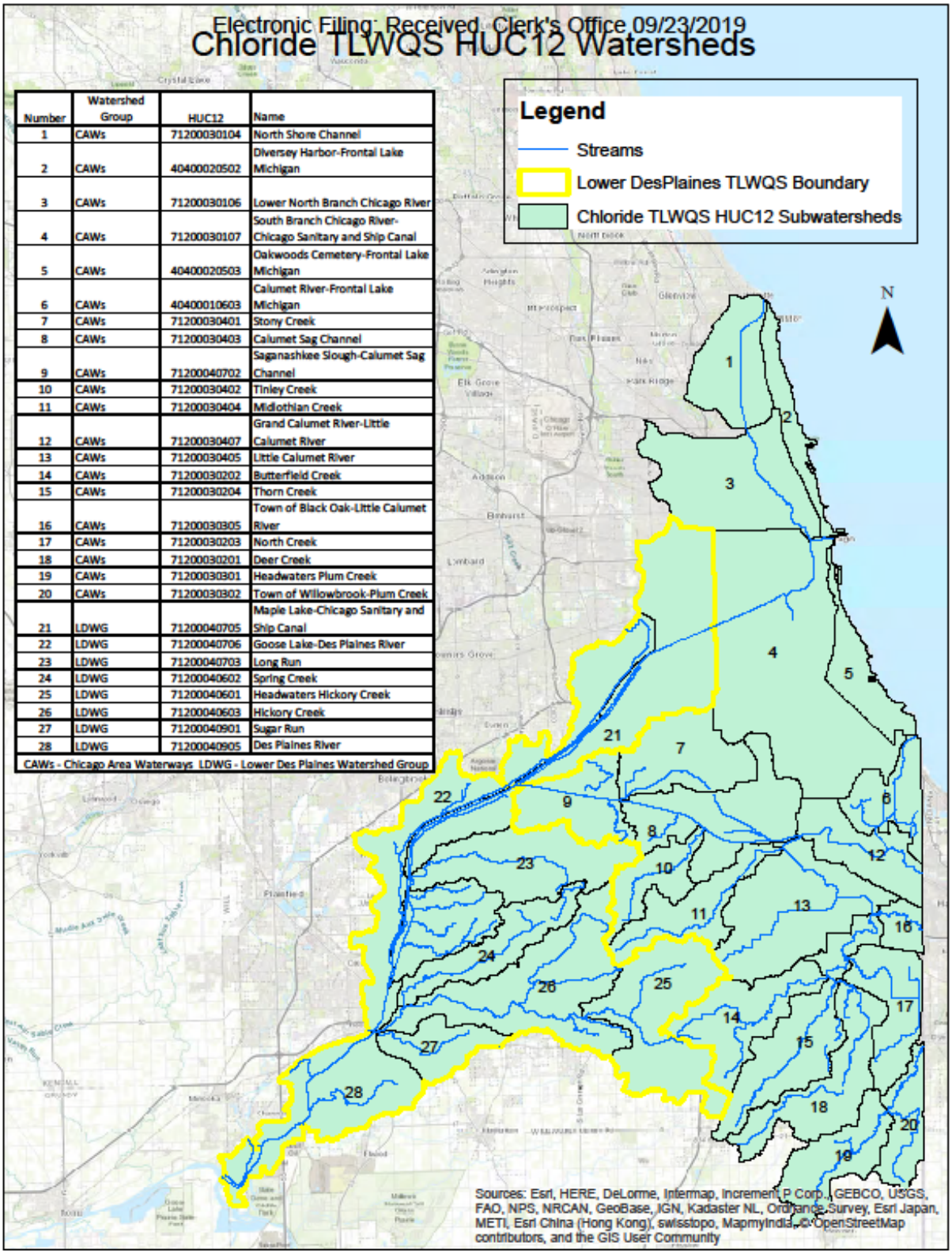
Joint Pet. at 2.8 - 2.19, 9.4 – 9.11; Rec. Att. 3.

Table 4: Implementation Schedules

	Implementation Schedules	POTWs	Industrial Sources	CSO Communities	MS4 Communities	IDOT / Tollway	Salt Storage Facilities
Individual dischargers covered under the Time Limited Water Quality Standard for Chloride (PCB 16-14 (Consolidated)) must meet the following deadlines as applicable and indicated below for each discharger type:							
1.	**6 months after effective date of TLWQS:** Establish a mechanism for tracking of de-icing salt usage for each facility.	□	□	□	□	□	□
	Prepare a Pollutant Minimization Program.	□	□	□	□	□	□
2.	**EVERY YEAR beginning with YEAR 2 by July 1:** Submit Annual Report regarding salt usage for deicing and steps taken to minimize chloride salt usage to IEPA and make report publicly available.	□	□	□	□	□	□
	Submit progress report on evaluation of water softening chemical substitution options to IEPA.		□				
3.	**EVERY YEAR beginning with YEAR 2 by November 30:** Complete annual training of all salt applicator personnel, including both employees and contractors, on Best Management Practices in minimizing the use of chloride salt in deicing.	□	□	□	□	□	□

	Implementation Schedules	POTWs	Industrial Sources	CSO Communities	MS4 Communities	IDOT / Tollway	Salt Storage Facilities
Chloride Workgroups comprised of individual dischargers covered under the Time Limited Water Quality Standard for Chloride (PCB 16-14 (Consolidated)) must meet the following deadlines:							
	YEAR 3 by July 1: Chloride Workgroups each submit Status Report to IEPA.						
	YEAR 4: Chloride Workgroups collectively submit to the Board their proposed re-evaluation pleading consistent with the Board's Order granting the TLWQS.						
	YEAR 8 by July 1: Chloride Workgroups each submit Status Report to IEPA.						
	YEAR 9: Chloride Workgroups collectively submit to the Board their second proposed re-evaluation pleading consistent with the Board's Order granting the TLWQS or the Board's Order adopting the first re-evaluation.						
	YEAR 13 by July 1: Chloride Workgroups each submit Status Report to IEPA.						
	YEAR 14: Chloride Workgroups collectively submit to the Board a notice of whether the chloride water quality standards, current at the time, have been met, or whether the dischargers covered under this TLWQS will seek a new TLWQS.						

Figure 1: Chloride TLWQS Watersheds



Number	Watershed Group	HUC12	Name
1	CAWs	71200030104	North Shore Channel
2	CAWs	40400020502	Diversey Harbor-Frontal Lake Michigan
3	CAWs	71200030106	Lower North Branch Chicago River
4	CAWs	71200030107	South Branch Chicago River-Chicago Sanitary and Ship Canal
5	CAWs	40400020503	Oakwoods Cemetery-Frontal Lake Michigan
6	CAWs	40400010603	Calumet River-Frontal Lake Michigan
7	CAWs	71200030401	Stony Creek
8	CAWs	71200030403	Calumet Sag Channel
9	CAWs	71200040702	Saganashkee Slough-Calumet Sag Channel
10	CAWs	71200030402	Tinley Creek
11	CAWs	71200030404	Midlothian Creek
12	CAWs	71200030407	Grand Calumet River-Little Calumet River
13	CAWs	71200030405	Little Calumet River
14	CAWs	71200030202	Butterfield Creek
15	CAWs	71200030204	Thorn Creek
16	CAWs	71200030305	Town of Black Oak-Little Calumet River
17	CAWs	71200030203	North Creek
18	CAWs	71200030201	Deer Creek
19	CAWs	71200030301	Headwaters Plum Creek
20	CAWs	71200030302	Town of Willowbrook-Plum Creek
21	LDWG	71200040705	Maple Lake-Chicago Sanitary and Ship Canal
22	LDWG	71200040706	Goose Lake-Des Plaines River
23	LDWG	71200040703	Long Run
24	LDWG	71200040602	Spring Creek
25	LDWG	71200040601	Headwaters Hickory Creek
26	LDWG	71200040603	Hickory Creek
27	LDWG	71200040901	Sugar Run
28	LDWG	71200040905	Des Plaines River

CAWs - Chicago Area Waterways LDWG - Lower Des Plaines Watershed Group