ILLINOIS POLLUTION CONTROL BOARD
July 24, 2019

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)
CITY OF EVANSTON, EVANSTON	)	PCB 16-22 (Noramco-Chicago)
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 19-11 (Caterpillar)
NEW LENOX, NEW LENOX ILLINOIS,	)	PCB 19-12 (Crest Hill)
CITY OF LOCKPORT, LOCKPORT	)	PCB 19-13 (Joliet)
ILLINOIS, CATERPILLAR, INC., CITY	)	PCB 19-14 (Morton Salt)
OF CREST HILL, CREST HILL ILLINOIS,	)	PCB 19-15 (Palos Heights)
CITY OF JOLIET, JOLIET ILLINOIS,	)	PCB 19-16 (Romeoville)
MORTON SALT, INC., CITY OF PALOS	)	PCB 19-17 (IMTT Illinois)
HEIGHTS, PALOS HEIGHTS ILLINOIS,	)	PCB 19-18 (Stepan)
VILLAGE OF ROMEOVILLE,	)	PCB 19-19 (Park Forest)
ROMEOVILLE ILLINOIS, IMTT	)	PCB 19-20 (Ozinga Ready Mix)
ILLINOIS LLC, STEPAN CO., VILLAGE	)	PCB 19-21 (Ozinga Materials)
OF PARK FOREST, PARK FOREST	)	PCB 19-22 (Midwest Marine)
ILLINOIS, OZINGA READY MIX	)	PCB 19-23 (Mokena)
CONCRETE, INC., OZINGA	)	PCB 19-24 (Oak Lawn)
MATERIALS, INC., MIDWEST MARINE	)	PCB 19-25 (Dolton)
TERMINALS LLC, VILLAGE OF	)	PCB 19-26 (Glenwood)
MOKENA, MOKENA ILLINOIS,	)	PCB 19-27 (Morton Grove)
VILLAGE OF OAK LAWN, OAK LAWN	)	PCB 19-28 (Lansing)

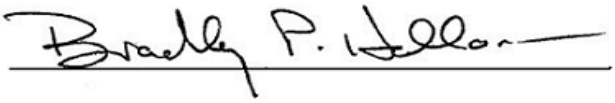
ILLINOIS, VILLAGE OF DOLTON, DOLTON ILLINOIS, VILLAGE OF GLENWOOD, GLENWOOD ILLINOIS, VILLAGE OF MORTON GROVE, MORTON GROVE ILLINOIS, VILLAGE OF LANSING, LANSING ILLINOIS, VILLAGE OF FRANKFORT, FRANKFORT ILLINOIS, VILLAGE OF WINNETKA, WINNETKA ILLINOIS, VILLAGE OF LA GRANGE, LA GRANGE ILLINOIS, VILLAGE 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 19-29 (Frankfort) 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

In a December 20, 2018 Board order, the Board stated that it "may submit questions to the Joint Petitioners and the Agency through a Board or hearing officer order prior to the public hearing." Village of Homewood et al., v. IEPA, PCB 16-14 (consol.), slip op. at 5 (December 20, 2018). To that end and to assist the Board in its consideration of the petitions, the parties are directed to file their respective responses to the questions found in the attachment to this order within 60 days, or September 23, 2019. If needed, the due dates for the parties' responses will be revisited at the next telephonic status conference.

The parties or their legal representatives are reminded to participate in a telephonic status conference with the hearing officer on August 22, 2019, at 10:30 a.m. The call-in number is as follows: 1-(646) 749-3122; Access Code: 337-666-445.

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 July 24, 2019, 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 July 24, 2019:

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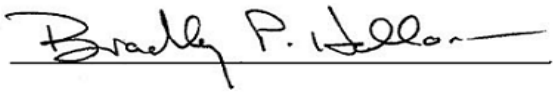

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ATTACHMENT 1
Board Questions
PCB 16-14 (Consolidated)
Time-Limited Water Quality Standard for Chloride

Questions for IEPA

IEPA filed its Recommendation (Rec.) on April 5, 2019. Petitioners filed responses to IEPA Recommendation on April 16, 18 and 19, 2019. Please comment on each of the responses filed, including the issues summarized below. Based on your comments, please consider revising the TLWQS conditions proposed in IEPA's Recommendation as well as other potential language contained under Question #20 below.

1. **Orland Park (PCB 16-15)**
   Orland Park raised questions regarding IEPA's recommendation on berms about what is meant by "working area", whether the intent is to capture runoff from the area used for unloading delivery trucks and loading spreader trucks, and what the disposal options are for the collected effluent. Orland Park seeks clarification on tarping of trucks, capturing wash water from cleaning trucks, and disposing of the spent wash water. Additionally, Orland Park notes difficulties in pre-wetting for different sized trucks. Orland Park Response to IEPA Recommendation (Apr. 16, 2019).

2. **MWRDGC (PCB 16-29)**
   MWRDGC made suggestions regarding "late joining" parties and offsets for new sources of chloride in de minimis amounts. MWRDGC Resp. to IEPA Rec. (Apr. 19, 2019).

3. **Oak Forest (PCB 16-33)**
   Oak Forest raised the issue that although training citizens and private companies to reduce chloride use is beneficial, they are not regulated and, as such, have no regulatory incentive to reduce chloride use. Oak Forest suggested IEPA create a grant program for funding retrofits on existing equipment to implement BMPs. Oak Forest also suggested the BMPs not limit the ability to have additional outdoor salt storage as long as the area is tarped in order to procure road salt exceeding the storage capacity of permanent structure that would allow entities to prepare for delays or deliveries of future shipments. Additionally, Oak Forest suggested the Illinois Department of Transportation partner with local communities to provide a centralized source of salt brine that municipalities could purchase to more easily implement BMPs. Oak Forest Resp. to IEPA Rec. (Apr. 16, 2019).

4. **IMTT Illinois (PCB 19-17)**
   IMTT Illinois requests guidance on the proposed requirement that petitioners participate in a chlorides workgroup, including the specific purpose, what the workgroup is intended to accomplish, rules of group governance, the rights of smaller and non-members, and the Board's or IEPA's authority to require membership. Additionally, IMTT commented on the proposed BMPs for salt storage, disposal of wash water, use of contractors for snow

and ice management, and recording of storm data. IMTT Resp. to IEPA Rec. (Apr. 19, 2019).

5. **Glenwood (PCB 19-26)**
Glenwood raised safety concerns regarding tarping of salt trucks. Glenwood also raised questions about collecting and disposing of wash water. Village of Glenwood Resp. to IEPA Rec. (Apr. 18, 2019).

6. **Winnetka (PCB 19-30)**
Winnetka seeks clarification on information to be gathered for re-evaluation in terms of the nature of information, the frequency of data collection period, how costs for the annual workgroup report will be allocated among petitioners, and whether each Municipal Separate Storm Sewer System (MS4) is to develop an annual report. Winnetka requests that BMPs become mandatory where applicable and fiscally possible to implement. Winnetka seeks clarification on whether financial limitations will be considered when evaluating new or innovative technologies. Additionally, Winnetka requests that BMP 7 for MS4s / Combined Sewer Overflow (CSO) Communities (Rec. Att. 3 at 4), regarding purchase and use of equipment to measure pavement temperature, specify a time period for implementation. Village of Winnetka Resp. to IEPA Rec. (Apr. 19, 2019).

7. **Channahon (PCB 19-33)**
Channahon seeks clarification regarding whether salt spreading trucks need to be tarped while they are in operation and spreading salt. Village of Channahon Resp. to IEPA Rec. (Apr. 19, 2019).

8. **Cook County (PCB 19-34)**
Cook County seeks clarification as to which chloride workgroups a petitioner must participate. Cook County also raises concerns about collecting runoff that includes precipitation from outside the work area, adding berms and regrading sites that might affect drainage in surrounding developed areas, sizing a holding system to collect the anticipated large volume of runoff, and disposing of the runoff. Cook County Dept. of Transportation and Highways Resp. to IEPA Rec. (Apr. 19, 2019).

10. IEPA suggested, "In its order granting the TLWQS, …the Board should identify the detailed set of measures the workgroup must implement." Rec. at 15. For a Board Order, please propose a detailed set of measures the workgroup must implement for inclusion in the language under Question #20.

11. IEPA proposed a set of Eligibility Criteria. Rec. at 26-27. The Eligibility Criteria does not mention a requirement to file a petition with the Board as an individual discharger or as part of a group of dischargers (35 Ill. Adm. Code 104.520(a) and (b)). Rather, the proposed Eligibility Criteria requires dischargers submit information directly to IEPA. Please comment on including a provision in the list of Eligibility Criteria that would require IEPA to act on the submission and thereby formally include or preclude the discharger from the dischargers covered under the chloride TLWQS.

12. In proposing eligibility criteria for dischargers who are not currently petitioners but who may want coverage under the TLWQS at a future date, IEPA states, "[A]ny discharger with a new source of chloride must offset at least their additional loading before receiving coverage under the TLWQS." Rec. at 27.

    a. What types of guidelines does IEPA envision for offsets?

    b. Would these dischargers be able to receive offsets from dischargers currently covered under the TLWQS that made quantifiable and verifiable reductions?

    c. How would IEPA and the dischargers establish a trading system for such offsets?

Questions for Petitioners

13. **104.530(a)(2)**
Identification of the currently applicable water quality standard for the pollutant or parameter for which a TLWQS is sought

Specific Water Quality Standards
The Joint Petition specifically identifies the currently applicable water quality standard for which a TLWQS is sought as 35 Ill. Adm. Code 302.407(g)(3). This is the 500 mg/L year-round chloride standard that applies to the CAWS/LDPR Aquatic Life Use waters. Joint Pet. at 1.2-1.3. However, while the Joint Petition identifies other waterways within the watershed that are subject to chloride standards for General Use at 35 Ill. Adm. Code 302.208(g) and the CSSC at 35 Ill. Adm. Code 303.449, it is not clear what other water quality standards for which a TLWQS is sought.

The Joint Petition states the scope of the watershed "includes some areas not covered by the Board's CAWS/LDPR water quality standards. Those areas are covered by the General Use standards, which include the winter chloride standard of 500 mg/L." Joint Pet. at 1.4. The Joint Petitioners identify the following receiving waters as General Use Waters: Hickory Creek, Union Ditch, Spring Creek, Marley Creek, and East Branch of Marley Creek. Additionally, the Joint Petition points to the CSSC and the Calumet River System, stating, "these reaches still need to be included in the TLWQS for the Watershed . . . ." Joint Pet. at 2.2. The chloride water quality standard applicable to the CSSC is 35 Ill. Adm. Code 303.449; however, Joint Petitioners note, "[A]s to the CSSC, it is not yet known whether the site-specific criteria for that reach that were adopted by the Board will be approved by U.S. EPA. If not, then the 500 mg/L standards for the rest of the Watershed would apply." Joint Pet. at 2.2.

While both the General Use chloride standard at 35 Ill. Adm. Code 302.208(g) and the CAWS/LDPR standard at 35 Ill. Adm. Code 302.407(g)(3) are both 500 mg/L year-round, they have different sections in the Board's rules.

a) Please identify each of the currently applicable water quality standards for which a TLWQS is sought for the various use designations. Please comment on any necessary revisions to Table 1 below based on the response.

Seasonally Applicability of TLWQS

The information and monitoring data provided in the appendices focus on chloride levels in the winter months of December – April. For example, the Joint Petition states, "The monitoring results for chloride levels in the Watershed during the period of January 2006 through April 2017 indicate that many of the reaches do not consistently meet the water quality standards in the winter." Joint Pet. at 2.1.

While the current chloride standards for General Use at Section 302.208(g) and CAWS/LDPR at Section 302.407(g)(3) apply year-round, the previously applicable TDS/chloride standards at 302.407(g)(2) and the CSSC chloride standard at 303.449 are seasonal.

b) Please clarify if petitioners are seeking a TLWQS for only the winter months of December–April. If not, please provide additional justification for including summer months.

14. **104.530(a)(4)**
a map of the proposed watershed, water body or waterbody segment to which the TLWQS will apply, as well as a written description of the watershed, water body, or waterbody segment, including the associated segment code;

The Joint Petition lists specific waterbodies within the proposed chloride TLWQS watershed, and the individual submittals reference specific waterbodies for the locations of the discharges. (Joint Pet. at 1.4). The map of the proposed chloride watersheds (Joint Pet. App. 4) does not specifically identify these waterbodies.

a) For clarity, please specifically depict and label each of these waterbodies on the map of the proposed chloride TLWQS watersheds.

b) Additionally, please identify each of the segments by aquatic life use for the Board's current rules.

c) 35 IAC 104.530(a)(4) requires the "associated segment code." For the area encompassed by the outlined Proposed Chloride Watersheds, please provide the Hydrologic Unit Codes (HUC). Please depict on the map the HUC to the level that was used to delineate the outline, such as: HUC2 (Regions), HUC4 (Subregions), HUC6 (Basin), HUC8 (Subbasins), HUC10 (Watersheds), and HUC12 (Subwatersheds).

15. **104.530(a)(12)**
the proposed highest attainable condition of the watershed, water body, or waterbody segment identified in subsection (a)(4) expressed as set forth in Section

104.565(d)(4), including projected changes in the highest attainable condition throughout the proposed term of the TLWQS

The "highest attainable condition" is defined as the "highest attainable interim use and interim criterion" or "interim use and interim criterion" per Section 104.565(d)(4)(B)(i), (ii) (35 Ill. Adm. Code 104.565(d)(4)(B)(i), (ii)).

For an interim criterion, Joint Petitioners propose either a range from 269 to 280 mg/L or a single value of 275 mg/L chloride, where compliance would be assessed as a five-year average of the prior five winters at Lockport (representing the downstream end of CAWS) and at Channahon (representing the downstream end of LDPR). Joint Pet. at 8.2.

As a basis for the proposed interim criterion, the Joint Petition cites the winter seasonal average or estimated seasonal average chloride concentrations for the following locations: Ruby Street Bridge is 255 mg/L (2015-2017), Channahon is 199 mg/L (2017), and Lockport is 208 mg/L (2017). Joint Pet. at 8.1. Estimated chloride concentrations based on specific conductance are graphed in App. 56 as Figure 3 for Ruby Street Bridge (2016-2017), as Figures 4 and 6 for Channahon (2016-2017), and as Figure 5 for Lockport (2007-2015). Measured weekly chloride concentrations are listed in App. 14 for Ruby Street Bridge and Channahon, and in App. 55 for Lockport, but without yearly averages.

a) Please cite the sources for the above values of 255 mg/L, 199 mg/L, and 208 mg/L.

b) Petitioners state, "[T]he best indicator of progress in reducing chloride loading to the Watershed is going to be the long-term trend, looking at chloride levels at representative locations in the Watershed on an annual basis." Joint Pet. at 8.1. Joint Petitioners provide no specifics, however, as to how the proposed interim criterion would be implemented. Please address the following items and suggest revisions to draft Condition #5 under Question #20 below:

    1) If the frequency of measurements will be specified;

    2) If compliance with the interim criteria, after the first five years, would be assessed on an annual basis going forward using the previous 5 winters or more frequently;

    3) If Joint Petitioners will consider proposing a new interim criterion during the 5-year re-evaluation cycles;

    4) If the CAWS compliance point would be where MWRD conducts instream water quality sampling at the Lockport Forebay on the CSSC (RM 290.9), just upstream of the confluence with the Des Plaines River (*see* App. 56 at 2-3.);

5) If the LDPR compliance point would be the USGS gage 05539670 in Channahon, IL or the Des Plaines River at Oil Tanking (Site LPRCW_03) at River Mile 275.8 in Channahon, IL (*See* App. 14, App. 56 at 7, A-2. A-3.);

6) If these are the only two locations where compliance would be determined;

7) If separate compliance points are needed for the CSSC or General Use segments;

8) If monitoring and modeling would be required for edge of mixing zone compliance demonstrations in NPDES Permits; and

9) If monitoring would be for chloride or if monitoring would be for conductance and then, using the linear regression model discussed in App. 56, be translated into an estimated chloride concentration.

16. **104.530(a)(13)**
a demonstration of the pollutant control activities proposed to achieve the highest attainable condition, including those activities identified through a Pollutant Minimization Program

The Joint Petition states that under the TLWQS each of the petitioners would be "required to prepare a Pollutant Minimization Plan that will identify the BMPs and the implementation deadlines for monitoring, recordkeeping, and reporting associated with the TLWQS, including appropriate documentation procedures . . . Additionally, progress reports for each petitioner will be required in an annual report that will be submitted to Illinois EPA." Joint Pet. at 9.1. For each of the discharger's source categories, the Joint Petition provides lists of BMPs and a schedule for implementation of all phases of the control program. (Joint Pet. at 2.08-2.19, 9.3-9.11)

The BMPs address deicing activities by the petitioners' own operations. The Joint Petition does not mention the contribution by entities within the jurisdiction of the petitioners, such as homeowners and facility owners whose runoff discharges to the Publicly Owned Treatment Works (POTW), MS4, or CSO. MS4 permits generally contain a public education and outreach component on storm water impacts as part of a storm water management program.

IEPA's recommendation suggests chloride workgroups conduct outreach to educate and train citizens and business on reducing chlorides. Rec. at 15. IMTT Illinois commented that public education and outreach are tasks that the General Assembly assigns to IEPA. PCB 19-17 Response to IEPA Recommendation 4-19-19 at 3.

a) Please comment on proposing language for conditions drafted below under Question #20 that addresses the workgroups' responsibilities for public education and outreach on chloride use.

b) IEPA suggested, "In its order granting the TLWQS, . . . the Board should identify the detailed set of measures the workgroup must implement." Rec. at 15. For the conditions drafted below under Question #20, please comment on proposing a detailed set of measures the workgroup must implement.

17. **104.530(a)(15)**
a proposed re-evaluation schedule to re-evaluate the highest attainable condition during the term of the TLWQS if that proposed term is longer than five years

The Joint Petition states, "As a condition of the TLWQS, dischargers would be required to participate in the group that conducts and submits this reevaluation. As noted above, the group structures will be developed, so that Petitioners can work collectively on activities under the TLWQS that require group effort." Joint Pet. at 10.2.

IEPA's Recommendation contained a proposed condition regarding a requirement to participate in such a workgroup. Rec. Att. 1. IEPA's Recommendation pointed out that the language of the General NPDES Permit No. ILR40 Special Condition D states:

> If the permittee performs any deicing activities that can cause or contribute to a violation of an applicable State chloride water quality standard, the permittee must participate in any watershed group(s) organized to implement control measures which will reduce the chloride concentration in any receiving stream in the watershed. IEPA Rec. at 15.

IMTT Illinois requested guidance on this requirement, including the specific purpose, what the workgroup is intended to accomplish, rules of group governance, the rights of smaller and non-members, and the Board's or IEPA's authority to require membership. PCB 19-17 Response to IEPA Recommendation 4-19-19.

Since both Joint Petitioners and IEPA are proposing a requirement to participate in a chloride workgroup as a condition of the TLWQS, please comment on proposing specific language for adoption in a Board Order containing the necessary details in draft Condition 4 under Question #20 below.

18. **104.530(c)**
For a watershed, water body, waterbody segment, or multiple discharger TLWQS, the petition or amended petition may also include proposed eligibility criteria to be adopted by the Board to be used at the time of renewal or modification of an individual's federal NPDES permit or at the time an individual files an application for certification under section 401 of the federal Clean Water Act to obtain coverage under a Board-approved TLWQS.

In proposing eligibility criteria for dischargers who are not currently petitioners but who may want coverage under the TLWQS at a future date, IEPA states, "[A]ny discharger with a new source of chloride must offset at least their additional loading before receiving coverage under the TLWQS." Rec. at 27.

a. What types of guidelines would Joint Petitioners envision for offsets?

b. Would these dischargers be able to receive offsets from dischargers currently covered under the TLWQS that made quantifiable and verifiable reductions?

c. Please comment on how IEPA and the dischargers might establish a trading system for such offsets?

19. **104.565(a)**
When the Board adopts a TLWQS, the Board will maintain, in its water quality standards, the underlying designated use and criterion addressed by the TLWQS, unless the Board adopts and USEPA approves a revision to the underlying designated use and criterion consistent with 40 CFR 131.10 and 131.11.

Chloride Rulemaking. A rulemaking was filed on May 21, 2018 proposing to amend the chloride water quality standards for General Use Waters at 302.208(g). *See* In the Matter of: Proposed Amendments to: 35 Ill. Adm. Code 302.102 and 302.208(g) Water Quality Standards for Chlorides (R18-32).

The Board's current chloride water quality standard for CAWS/LDPR, besides the CSSC, is the same as the chloride water quality standard for General Use Waters. See R08-9(D) (June 18, 2015), slip op. at 12.1.

a) Since several of the Joint Petitioners are seeking the TLWQS for their discharges to General Use Waters and since the General Use chloride standard is the same as the CAWS/LDPR chloride standard, please address the potential impact of R18-32 and any proposed chloride water quality standard revisions on each individual petitioner.

Compliance Strategy. The Joint Petition does not identify a strategy for eventual compliance. The Joint Petition repeatedly states, "There are no feasible options to achieve standards compliance." Joint Pet. at 2.1. While Best Management Practices will help reduce chloride loadings to the waterbodies, they are "not expected to result in compliance with the standards – certainly not at any point in the near future." Joint. Pet. at 2.4 Joint Pet. at 2.4.

The TLWQS rule provides that the Board can adopt a revision to the underlying designated use and criterion during the term of the TLWQS. *See* 35 IAC 104.565. While Joint Petitioners request a 15-year TLWQS term, no work towards proposing a

[1] https://pcb.illinois.gov/documents/dsweb/Get/Document-89321

revision to the underlying designated use or criterion is proposed during this extended period. After 15 years, Joint Petitioners can file for an extension, but the petition must contain "a demonstration of whether new or additional information has become available to indicate the designated use and criterion are not attainable in the future…" See 35 IAC 104.590(c)(3). Joint Petitioners have already indicated the chloride water quality standards are not attainable during the winter now or in the future, but Petitioners do not propose a strategy for eventual compliance, such as performing studies to collect new or additional information to propose a revision of the underlying designated use and/or criterion during the course of the requested 15 years.

b) Please propose a strategy for eventual compliance.

Aquatic Life Monitoring. Joint Petitioners make no mention of monitoring aquatic life. During the requested 15-year term, joint petitioners commit to track progress made in implementing BMPs and changes in water quality based on averaging monitoring results once after 5 years, but not aquatic life. Since chloride water quality standards are contained under the Aquatic Life Use designations, monitoring the response of aquatic life to the TLWQS throughout the term is key to ensure the proposed once-in-5-years interim criterion does not result in degradation of the indigenous aquatic life in the proposed chloride watershed.

c) Please comment on proposing monitoring of aquatic life during the requested 15-year term to ensure the proposed once-in-5-years interim criterion does not result in degradation of the indigenous aquatic life in the propose chloride watershed and to document any improvements.

20. **104.565(d)**
All orders adopting a TLWQS will include…(3) The TLWQS requirements and conditions that apply throughout the term of the TLWQS

104.505(d)
A TLWQS, once adopted by the Board and approved by USEPA, will be the applicable standard for the purposes of the Clean Water Act in developing NPDES permit limits and requirements under 35 Ill. Adm. Code 309 for the term of the TLWQS. Any limitations and requirements necessary to implement the TLWQS will be included as enforceable conditions of the NPDES permit for any permittee granted coverage under the TLWQS by the Board or Agency.

The Joint Petition proposes specific language for some conditions and limitations that would be necessary to implement the TLWQS to include in a Board Order. IEPA's Recommendation also proposes some conditions for the TLWQS. Joint Pet. at 9.2 – 9.11; Rec. at 22-24, Att. 1. Petitioners filed responses to IEPA Recommendation on April 16, 18 and 19, 2019 with suggested revisions to the conditions. Given the wide breadth of the TLWQS with multiple dischargers over multiple watersheds with relief from multiple uses and standards, it would be helpful to all parties to see the specific proposed language of the TLWQS before the public prepares for hearing.

Please comment on the following language or propose revised language for a Board Order:

In lieu of the applicable water quality standards for chloride 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) 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., snow plows 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 an 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 TLWWS 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 year thereafter.

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.

d) Measurements for the interim summer and winter criteria for LDPR must be based on instream water quality 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, 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.

d) At each re-evaluation, dischargers covered under this TLWQS 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 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 and Generally Applicable Water Quality Standards for Chloride and Total Dissolved Solids

RECEIVING WATER		GENERALLY APPLICABLE WATER QUALITY STANDARD 35 Ill. Adm. Code		
		Effective per Illinois Pollution Control Board Rules as in effect on July 1, 2015		
		302.208(g) (General Use)	302.407(g)(3) (CAWS/LDPR)	303.449 (CSSC)
		500 mg/L Chloride Year Round	500 mg/L Chloride Year Round	• 500 mg/L, May-Nov. • 990 mg/L Acute, Dec-April • 620 mg/L Chronic, Dec-April
Chicago Area Waterway System	**CAWS**			
Chicago River (from Lake Michigan to confluence with NBCR and SBCR)	CR: Lake Michigan-NBCR & SBCR	✓		
North Branch of the Chicago River	NBCR		✓	
South Branch of the Chicago River	SBCR		✓	
Chicago Sanitary and Ship Canal	CSSC			✓
Cal-Sag Channel	CSC		✓	
Grand Calumet River	GCR		✓	
Lake Calumet	LC		✓	
Lake Calumet Connecting Channel	LCCC		✓	
Calumet River and Little Calumet River	CalR & LCR			
• Calumet River: except the 6.8-mile segment extending from the O'Brien Locks and Dam to Lake Michigan			✓	
• Calumet River: 6.8-mile segment extending from the			✓	

O'Brien Locks and Dam to Lake Michigan				
• Little Calumet River			✓	
North Shore Channel	NSC			
• Segment from North Side WRP to Lake Michigan		✓		
• Upper NSC from Wilmette Pumping Station to North Side WRP			✓	
• Lower NSC from North Side WRP to confluence with NBCR			✓	
Lower Des Plaines River	**LDPR**			
Des Plaines River from Kankakee River to Will County Line	DPR: KR-Will County Line		✓	
Hickory Creek	HC	✓		
Union Ditch	UD	✓		
Spring Creek	SC	✓		
Marley Creek	MC	✓		
East Branch of Marley Creek	EBMC	✓		

*** 35 IAC 303.441 Secondary Contact Waters (Repealed)**

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
16-25	**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
16-29	**Calumet WRP, MWRDGC**	400 E. 130th St., Chicago, IL 60628	CSC CalR & LCR	IL0028061 ILR003177	POTW

PCB	PERMIT HOLDER	FACILITY LOCATION	RECEIVING WATER	PERMIT NUMBER	DISCHARGER CATEGORY
	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 ILR400397	POTW MS4

PCB	PERMIT HOLDER	FACILITY LOCATION	RECEIVING WATER	PERMIT NUMBER	DISCHARGER CATEGORY
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
19-16	**Village of Romeoville**	615 Anderson Dr, Romeoville, IL	DPR: KR-WC	ILL048526 ILR400436	POTW MS4

PCB	PERMIT HOLDER	FACILITY LOCATION	RECEIVING WATER	PERMIT NUMBER	DISCHARGER CATEGORY
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
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

PCB	PERMIT HOLDER	FACILITY LOCATION	RECEIVING WATER	PERMIT NUMBER	DISCHARGER CATEGORY
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
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)	CSO MS4

PCB	PERMIT HOLDER	FACILITY LOCATION	RECEIVING WATER	PERMIT NUMBER	DISCHARGER CATEGORY
				ILR400364 (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,** **Skyway Concession Company, LLC**		CalR & LCR	ILR400739 (MS4)	MS4
19-37	**Village of Elwood – Deer Run STP**	26550 Elwood International Port Road, Elwood, IL 60421	DPR: KR-WC	IL0074713	POTW

PCB	PERMIT HOLDER	FACILITY LOCATION	RECEIVING WATER	PERMIT NUMBER	DISCHARGER CATEGORY
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
CSG	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: KR-WC	Des Plaines River from Kankakee River to 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.	✓	✓	✓	✓	✓	
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, 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, proper disposal of wash water from trucks/spreaders, etc.	✓	✓	✓	✓	✓	
5.	Calibrate all salt spreading equipment at least annually before November 30th. Records of	✓	✓	✓	✓	✓	

	Best Management Practice	POTWs	Industrial Sources	CSO Communities	MS4 Communities	IDOT / Tollway	Salt Storage Facilities
	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 measure the pavement temperature unless such 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 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	✓	✓	✓	✓	✓	

	Best Management Practice	POTWs	Industrial Sources	CSO Communities	MS4 Communities	IDOT / Tollway	Salt Storage Facilities
	are property trained and comply with all applicable BMPs.						
13.	Complete an annual report, which is standardized in an electronic format and submitted through 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 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	✓	✓	✓	✓	✓	

	Best Management Practice	POTWs	Industrial Sources	CSO Communities	MS4 Communities	IDOT / Tollway	Salt Storage Facilities
	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 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,						✓

	Best Management Practice	POTWs	Industrial Sources	CSO Communities	MS4 Communities	IDOT / Tollway	Salt Storage Facilities
	including cleanup of salt at the end of each day or conclusion of a storm event, tarping of trucks, 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, 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.						✓
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						✓

	Best Management Practice	POTWs	Industrial Sources	CSO Communities	MS4 Communities	IDOT / Tollway	Salt Storage Facilities
	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 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