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Meeting Summary

Steele County XL Community Project Annual Participants Meeting

July 17, 2001
Steele County Administration Center
630 Florence Avenue
Owatonna, Minnesota

the Owatonna Wastewater Treatment Facility (OWWTF) convened for three hours on July 17, group; and (4) ideas to find a local coordinator for the project. commitments for Phase I and ideas for Phase II; (3) format and membership of a leadership 2001, in Owatonna, to discuss (1) implementation of the project to date; (2) activities to complete Environmental Protection Agency (EPA), the Minnesota Pollution Control Agency (MPCA), and Representatives of the Steele County XL Community project's nine industrial participants, the

I. Opening Remarks Peter Connor, Mayor of Owatonna, Minnesota

should be proud of its accomplishments to date and is pleased that the businesses of Owatonna early leadership role and commitment on this and other projects in Owatonna. are continuing to move forward with this project. He specially thanked Dennis Sershen for his possibility to improve the environmental quality of the City of Owatonna. He felt that the group Mayor Connor thanked the group for coming together to further discuss a project that has the

II. Review of Project History Abeer Hashem U.S. EPA, Region 5 (Chicago) Kristina Heinemann, U.S. EPA, Headquarters

about what EPA could do to help and stated she was looking forward to a robust conversation about ways to further improve this important project. the entities will only continue to improve over the next year. She asked the participants to think Abeer Hashem addressed the group and expressed her hope that communication between all of

agreed to by the participants in May 2000 and formalized in the Final Project Agreement (FPA). Kristina Heinemann reviewed with the group the initial goals and commitments of the project as

Goal of the Steele County XL Community Project

sharing, group problem solving, and government partnerships. The opportunities created by this project will benefit not only the participating companies, but also the environment for the By working together, the participants recognize the benefits of information and technology

regulated wastewater effluents and significant reductions in overall water usage. emissions, solid waste, hazardous waste, chemical storage, and community sustainability Phase II would expand to a multimedia approach, setting additional goals for reductions in air community as a whole. Goals for Phase I of the project include a cumulative reduction of The proposed

Sponsor Commitments to the Steele County XLC Project

- and zinc for the Owatonna Sponsors Metal Discharge Reduction Goals--20 percent reduction goal for nickel, chromium, copper
- Blooming Prairie Sponsor. Effluent Discharge Reduction Goals--20 percent reduction in BOD, TSS, and TKN for the
- BPWWTF from the sponsor facilities Water Use Reduction Goal--10 percent reduction in total water flow to the OWWTF and the
- and residents to minimize storm water infiltration into the sewer system. Development of a storm water plan at each facility and educational materials for employees
- at each facility. Environmental Management System (EMS) Training and EMS or Pollution Prevention Audit
- Annual Progress Report Documenting Project Achievements

sharing it with others as a way of addressing community-wide environmental challenges and environmental problem-solving on a community level. If successful, EPA is looking forward to new models of protecting the environment and stated that EPA is very supportive of the Steele Ms. Heinemann reminded participants that one of the major purposes of Project XL was to test County project because of the potential to test a unique model for commercial/industrial

FPA to the OWWTF for the six Steele County XLC industrial participants discharging to the OWWTF. The four main provisions in the rule are as follows: On October 6, 2000, EPA promulgated a site-specific rule giving flexibility committed to in the

- Allows change from concentration-based limits to mass-based limits;
- trigger reduced monitoring frequency; Sets out the goal of a 20 percent reduction in specific metals, which when achieved may
- present; and Gives discretion to the WWTF to not require participants to monitor for pollutants not
- rather than in the local newspaper Gives discretion to publish significant non-compliance events on MPCA's Web site

Ħ. Andrew Ronchak, Minnesota Pollution Control Agency (MPCA) Dean Nelson, Owatonna Wastewater Treatment Facility (OWWTF) Review of Progress to Date--Metals Reduction

change the permit for the OWWTF, and that is currently in the queue at MPCA. MPCA worked with the city to change permits for the six companies that are permitted by the OWWTF and involved in the project—they were issued in early 2001. The state still needs to Andrew Ronchak stated that after EPA finalized the site-specific rule in October 2000, the

stringent. It was not the XL Project that caused mass-based limits to be reduced. specific rule with its NPDES permit requirements. In addition to the new permits for these six companies, the limits were made more stringent based on what the city could accept and still be in compliance limits to mass-based limits, some of the resulting mass-based limits were more made more City of Owatonna passed a new ordinance allowing the flexibility provided by the EPA site-Dean Nelson clarified for the group that in the process of converting the concentration-based The local

Mr. Nelson went on to present information about progress to date on metals reduction, based on analysis from the OWWTF effluent sampling. Please see the following tables and discussion that follows.

Metals in Industrial Wastewater (lbs/d) First Half of 2000 v. Second Half of 2000*

	Chromium	Copper	Nickel	Zinc	Flow
1 st half, 2000 0.46	0.46	0.22	1.04	0.83	0.38
2 nd half, 2000	0.53	0.18	1.37	0.82	0.41
Percentage increase or decrease	-16%**	16%	-32%	1%	<u>-9%</u>

^{**} A negative value represents an increase in the discharge.

Metals in Industrial Wastewater (lbs/d) First Quarter 2001 v. 2000 Year Average

	Chromium	Copper	Nickel	Zinc	Flow
2	0.49	0.20	1.21	0.83	0.39
Average for 2000					
First	0.23	0.04	0.70	0.94	0.40
quarter 2001					P _
Percentage increase or decrease	52%	80%	42%	-14%	-2%

Metals in Industrial Wastewater (lbs/d) 2000 Year Average v. Five Year Baseline

	Chromium	Copper	Nickel	Zinc	Flow
	0.85	0.31	1.46	1.26	0.42
Five Year Average***	=	-			
Average for 2000	0.49	0.20	1.21	0.83	0.39
Percentage increase or decrease	42%	36%	17%	35%	6%
*** This is the baseline and in the EDA Stoole County VIC site specific rails	1: 1:	1 - ED 1 Ct - 1 - C		. ~ 1	

This is the baseline used in the EPA Steele County XLC site-specific rule.

Metals in Industrial Wastewater (lbs/d) First Quarter 2001 v. Five Year Baseline

	Chromium	Copper	Nickel	Zinc	Flow
	0.85	0.31	1.46	1.26	0.42
Five Year					
Average	2				
	0.23	0.04	0.70	0.94	0.40
First		*1		11	
Quarter				,	
2001					3.
1					
Percentage increase or	72%	87%	52%	26%	4%
decrease					

Year refers to calendar year, January – December.

numbers over time, Mr. Nelson committed to looking at the data again in another six months, of 10 percent in the FPA. All agreed that this was significant progress to date. The question discretion to implementing the reduction in monitoring frequency provided for in the Steele and if the trend toward reduction continues, he would give further consideration to using his adjustments for each of the facilities involved. Because there is likely to be variability in these came up as to how much data the WWTF should have before making monitoring frequency percent goal in the first year. Total flow is also only down by 6 percent compared with the goal activities. This table shows that in the first year, reduction in metals has far outpaced the goal of picture by evening out peaks and valleys in discharge due to production or maintenance versus the Five Year Baseline since the longer time frame comparison provides a more accurate production.] He explained that the most meaningful table to look at is the Year 2000 Average presented in the tables above do not take into account or adjust for any fluctuations in Mr. Nelson said that he was pleasantly surprised by the data. [It should be noted that the results County site-specific rule -20 percent reduction over five years. Nickel is the only metal that did not meet the 20

just changed their process from a nickel-chrome plating line to a nickel-tin plating line and that contained parts-cleaning washer, which they hoped was contributing to reduced metals loadings further reduced in the next reporting cycle. Cybex shared that they had moved to a self-Now they are only running the nickel-tin line and would expect chromium discharges to be transition (the first quarter of 2001), they were running both processes simultaneously for awhile may be contributing to the reduced chromium loadings. SPX also explained that during this contained unit. Cybex indicated that the XLC project had at least in part been a motivation to move to the self-When asked what the group thought contributed to the metal reductions, SPX stated that they had

cleaning out the machinery more frequently. Five years ago the Atofina plant significantly Prairie has not reissued Atofina's permit. different from those at other facilities involved in the project. To date, the City of Blooming reduced its pollutant discharges. The chemical processes at the Atofina plant are fundamentally loadings) are not necessarily reduced because they are producing smaller batches and therefore facility, flow increases and pollutant loadings, particularly TSS (they are OK with their BOD down significantly at his facility. Atofina explained that when production is down at their note that the Blooming Prairie representative from Atofina reported that production has been part of the company to improved environmental practices at these facilities. It is important to precipitously and the group believed that these reductions were due to the commitment on the other factors, the participants generally agreed that production overall had not fallen When asked about whether these reduced loadings were potentially due to lower production or

upper management level, and made it easier to request/obtain resources and have discussions towards ISO 14000 certification (e.g., Ford has encouraged its suppliers to invest in ISO 14000 improvements. Others talked about how pressure from their customers was helping them move with management and employees about the importance and benefit of environmental several participants mentioned that it helped raise awareness in their companies, especially at the When asked how the XL Project participation has helped companies achieve these reductions,

Review of Progress to Date--Stormwater Flow Reduction

rain water or groundwater is being sent through the sanitary sewers, overloading capacity at the of Owatonna's 6,000 residences, Mr. Nelson estimates that 12 million gallons per storm event of ordinances. companies to raise awareness about the city's efforts to increase compliance with its storm water distribute the city's "Storm Water Compliance, Be a Good Neighbor" brochures at their efforts to correct sump pump drainage are going well and would like the XLC participants to overflows of storm water and sanitary sewer effluent and increasing costs. OWWTF (the OWWTF was designed for a capacity of 5 million gallons per day), causing Nelson estimated that the average sump pump pumps 10 gal/min. Extrapolating this figure to all pumps connected to the sanitary sewer, half of which have already been disconnected. Mr. (from the period 6/1/00 to 7/1/01) the OWWTF has visited 1,964 residences and found 205 sump Owatonna were built, sump pumps were connected directly into the sanitary sewers. To date into the OWWTF. Mr. Nelson explained that when many of the residential structures in Another goal of this XL project is to reduce overall water flow, particularly from storm water He feels the city's

V. Key Challenges

information from their trade association, the National Metal Finishers Association. are coming down the pike before they are actually promulgated. They do get this type of like to hear from EPA through this XLC forum about the regulatory horizon—what regulations to minimize the environmental impacts at the facility level. Participants stated that they would mentioned the need to have hardware manufacturers and chemical manufacturers work together the challenges in working with new chemicals. There is often a steep learning curve. discussion focuses on certainty of the returns from that investment. The group also mentioned flow and convincing management of the value of making an investment. A large part of this The group stated that the biggest challenges to doing environmental improvement work is cash

VI. Next Steps

Phase I

Participants talked about wanting to use this forum to:

- with tours of each of the participating facilities on a rotating basis); Share information about what is working and lessons learned (and perhaps combine that
- (MSDS's) or collaborative hazmat transport; Discuss cooperative cost reduction strategies such as sharing Material Safety Data Sheets
- Identify methods for and share information about water reduction in their facilities
- Receive regular updates from OWWTF regarding metals and water flow reduction; and
- Get training and information on EMS development and improving efficiencies

that it made sense to do training first. In that way a facility would have a leg up in establishing an intern work with them in that had been available to them through MNTAP. The group agreed could possibly be a resource for this group in the future. Wenger mentioned that they once had audits, and on-site assessments. In the past, Mr. Nelson has spoken to Cindy McComas, who goals for any subsequent assessment or audit. The group talked about the use of available resources from MNTAP--pollution prevention, EMS

the facility itself to allow the facility to make improvement to its operations. The one exception that EMS audits are not compliance audits and focus much more on self-assessment. of their facilities to identify areas of possible efficiency improvements. Mr. Ronchak stressed participants thought it would be valuable to have independent auditors come and conduct audits agreed that fall 2001 would be a good time for the training. After the training several efficiency and reduce costs? The training might also present a prototype EMS. The group goals of the XLC Project? What are the associated regulatory benefits? How do EMSs improve EMS? What are the key elements? Where do I start? How does an EMS relate to meeting the Mr. Ronchak agreed to schedule a three- or four-hour training on EMSs, including: What is health or the environment. would be an instance where the audit revealed an imminent threat or endangerment to public Compliance problems are not reported to the state or other regulatory agency, but are reported to

business decision that each company would have to make for itself. self-audits and then could move on to ISO 14000 certification if they desired to. This would be a independent outside certified auditor would need to be retained). This group could start out with project are not the same level of rigor as those required to be ISO 14000 certified (where an Mr. Ronchak also clarified that the type of audits being discussed in the context of the XLC

the Steele County XLC group sets up. promotional marketing tool hoping that they then will sell you additional services. suggestion was made to invite the smaller companies in town to participate in any training that One member of the group mentioned that some EMS auditors provide free training as Another

management. for the folks involved in the XLC group to get the attention and support of their upper highlighting progress and accomplishments of the XLC project. The group mentioned that it would be helpful if US EPA could provide a letter of support This would be a very useful tool

Phase II

in discussion of the disposal of hazardous waste. In waste disposal, is it possible to combine acids and bases to lessen the toxicity of some wastes? Could there be economies of scale a whole, from hazardous waste and water quality to air permitting. In order to move forward could aid in determining where the focus should be for a Phase II. Hazardous waste disposal imposes a tremendous cost to industry. Implementation of an EMS achieved if companies got together to ship hazardous waste (an Incubator- Plus model)? permitting and the handling of hazardous waste and do some analysis. with Phase II, the group would need to identify what challenges it faces with regard to air Phase II of the Steele County XLC would focus on multimedia permitting for the community as A few examples came up

makes—the biggest environmental bang for the buck. Another goal should be to have the best working conditions at the facilities for their employees get the best financial value and value for the environment with every expenditure the company Suggestions were made to focus on environmental challenges that companies share and how to

Leadership and Organization of the XL Project Group

Coordinator

coordinating body or a small committee whose membership would rotate on a regular basis. A could be paid) and brainstormed various methods for getting one, including writing grants or Council or Steele County Care. A Steele County Environmental Council, if formed, could be a and its operations after active local groups that already exist, e.g., the Steele County Safety group established to oversee the implementation of the Steele County XLC could model itself function should not be left to just one person, but should rather fall to several individuals as a finding a college or graduate student to assist them. The group felt strongly that the coordination The group discussed the need for a coordinator (including the possibility that the coordinator

natural extension of the Steele County XLC group

commitment and coordination. group is initially focused on Phase I and agreed that Phase II would require a different level of involved in the early stages of the project, is another local organization that could be tapped. The Transportation permit dollars that are due back to the state. Federated Insurance, which was Pollution Prevention grants; the Owatonna Foundation (a letter of support from EPA to support a coordinator might be sought: McKnight Foundation (Project 20/20 Initiative Fund); an LCMR grant application to the Owatonna Foundation would be helpful); and the U.S. Department of grant from the Minnesota Department of Natural Resources; EPA's Sustainable Communities or The following organizations were suggestions by the group for where assistance in funding a

Executive Committee

interim Executive Committee To reduce the burden or coordination on any one individual, volunteers agreed to serve as an

The members include representatives from:

- A representative from SPX;
- Mark Nichols from Viracon; and
- Jeff Hollister from Cybex.

committee agreed to: Dean Nelson and Andrew Ronchak would also serve as silent partners. The interim executive

- Meet six times a year at set times;
- Coordinate with Mr. Ronchak to set up the EMS training
- Search for funding for a coordinator;
- Set up an e-mail group list;
- Mr. Ronchak; Write annual progress report with assistance from meeting summary and Mr. Nelson and
- conjunction with the EMS training). Schedule larger group meetings (quarterly, on a rotating basis at each facility); and Meet prior to scheduling larger group meeting in the fall of 2001 (which might be done in