

OCT 15 2010

Mr. Alan Keller, P.E., Manager  
Permit Section, Division of Water Pollution Control  
Illinois Environmental Protection Agency  
1021 North Grand Avenue East  
P.O. Box 19276  
Springfield, IL 62794-9276

Dear Mr. Keller:

SUBJECT: APPLICATION FOR PERMIT OR CONSTRUCTION APPROVAL FOR INDUSTRIAL  
PRETREATMENT OF WASTEWATER TO CITY OF WARRENVILLE AND CITY OF  
NAPERVILLE FOR METAL FINISHING ACTIVITIES IN THE VILLAGE, FERMI  
NATIONAL ACCELERATOR LABORATORY (FERMILAB), BATAVIA, ILLINOIS

Enclosed for your review and approval is the permit application package to discharge wastewater from metal polishing and cutting activities at Fermilab to the City of Warrenville and the City of Naperville. The wastewaters will be generated from metal polishing and cutting activities performed at the Material Development and Testing Laboratory (MDTL) and Laboratory 1 Plasma Burner in Fermilab's Village. Metal polishing will occur on a small scale at the MDTL and the wastewater will be discharged to the sanitary system. The Plasma Burner cuts metal and needs to be cleaned every 6 to 8 years with the wastewater being discharged to the sanitary system at that time. The application package consists of one original and one copy of the following forms:

- WPC-PS-1, Application for Permit or Construction Approval
- MDTL, Schedule N, Waste Characteristics (w/3 attachments)
- Laboratory 1, Schedule N, Waste Characteristics (w/3 attachments)
- Site Figures (3)

The application requires concurrence from the intermediate sewer owners and the wastewater treatment facility owner. The application has been approved and signed by the City of Warrenville on page 3 of the application and the City of Naperville on pages 3 and 4 of the application.

If you have any questions regarding the application for the permit, please contact Rick Hersemann, of my staff, at (630) 840-4122.

Sincerely,

**Original Signed by  
Mark E. Bollinger**

Mark E. Bollinger  
Acting Site Manager

Enclosure:  
As Stated

- bc: N. Grossman, w/o encl.
- E. Mieland, w/o encl.
- K. Kosirog, w/o encl.
- B. Scerini, w/o encl.
- R. Hersemann, w/o encl.
- J. Scott, w/o encl.

S: IEPA – Village Metal Finishing

File:

FSO Hersemann/mb <i>RH</i>
10/12/10
FSO Arnold <i>SA</i>
10/13/10
FSO Scott <i>P</i>
10/13/10
FSO Parzyck <i>SP</i>
10/13/10
FSO Bollinger <i>WMB</i>
10/14/10

*Env. 7.6.2.*



Illinois Environmental Protection Agency  
 Permit Section, Division of Water Pollution Control  
 P.O. Box 19276  
 Springfield, Illinois 62794-9276

For IEPA Use.

**Application for Permit or Construction Approval  
 WPC-PS-1**

1. Owner Name: U.S. Department of Energy, Fermi National Accelerator Laboratory  
 Name of Project: Wastewater discharges from polishing and metal cutting activities in the Village  
 Township: Winfield County: DuPage

2. Brief Description of Project:  
 There are two activities covered by this application. The first is small scale polishing of metallurgical samples including niobium, copper, titanium, plastics, etc. The second is the use of a plasma burner to cut aluminum, mild steel, and stainless steel. Both will discharge to the Warrenville sewer system which is then treated by Naperville.

3. Documents Being Submitted: If the Project involves any of the items listed below, submit the corresponding schedule, and check the appropriate boxes.

	<u>Schedule</u>		<u>Schedule</u>
Private Sewer Connection/Extension	A/B <input type="checkbox"/>	Spray Irrigation	H <input type="checkbox"/>
Sewer Extension Construct Only	C <input type="checkbox"/>	Septic Tanks	I <input type="checkbox"/>
Sewage Treatment Works	D <input type="checkbox"/>	Industrial Treatment/Pretreatment	J <input type="checkbox"/>
Excess Flow Treatment	E <input type="checkbox"/>	Waste Characteristics	N <input checked="" type="checkbox"/>
Lift Station/Force Main	F <input type="checkbox"/>	Erosion Control	P <input type="checkbox"/>
Fast Track Service Connection	FTP <input type="checkbox"/>	Trust Disclosure	T <input type="checkbox"/>
Sludge Disposal	G <input type="checkbox"/>		

Plans: Title NA  
 \_\_\_\_\_ No. of Pages: \_\_\_\_\_

Specifications: Title NA  
 \_\_\_\_\_ No. of Books/Pages: \_\_\_\_\_

Other Documents: A site map and process schematics have been included.  
 (Please Specify)

3.1 Illinois Historic Preservation Agency approval letter: Yes  No

4. Land Trust: Is the project identified in item number 1 herein, for which a permit is requested, to be constructed on land which is the subject of a trust? Yes  No

If yes, Schedule T (Trust Disclosure) must be completed and item number 7.1.1 must be signed by a beneficiary, trustee or trust officer.

5. This is an Application for (Check Appropriate Line):

- A. Joint Construction and Operating Permit
- B. Authorization to Construct (See Instructions) NPDES Permit No. IL00 26123
- C. Construct Only Permit (Does Not Include Operations)
- D. Operate Only Permit (Does Not Include Construction)

6 Certifications and Approval:

6.1 Certificate by Design Engineer (When required: refer to instructions)

I hereby certify that I am familiar with the information contained in this application, including the attached schedules indicated above, and that to the best of my knowledge and belief such information is true, complete and accurate. The plans and specifications (specifications other than Standard Specifications or local specifications on file with this Agency) as described above were prepared by me or under my direction.

Engineer Name: \_\_\_\_\_

Registration Number: \_\_\_\_\_  
(3 digits) - (6 digits)

Firm: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ Phone No: \_\_\_\_\_

Signature X \_\_\_\_\_ Date: \_\_\_\_\_

(Seal)

7. Certifications and Approvals for Permits:

7.1 Certificate by Applicant(s)

I/We hereby certify that I/we have read and thoroughly understand the conditions and requirements of this Application, and am/are authorized to sign this application in accordance with the Rules and Regulations of the Illinois Pollution Control Board. I/We hereby agree to conform with the Standard Conditions and with any other Special Conditions made part of this Permit.

7.1.1 Name of Applicant for Permit to Construct: \_\_\_\_\_  
\_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Signature X \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Phone No: \_\_\_\_\_

Title: \_\_\_\_\_

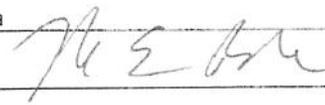
Organization: \_\_\_\_\_

7.1.2 Name of Applicant for Permit to Own and Operate: \_\_\_\_\_

U.S. Department of Energy, Fermi National Accelerator Laboratory

Address: P.O. Box 2000

City: Batavia State: IL Zip Code: 60510

Signature X  Date: 9/28/2010

Printed Name: Mr. Mark E. Bollinger Phone No: (630) 840-8130

Title: Acting Site Manager, DOE Fermi Site Office

7.2 Attested (Required When Applicant is a Unit of Government)

Signature X [Signature] Date: 9/28/10

Title: Physical Scientist  
(City Clerk, Village Clerk, Sanitary District Clerk, Etc.)

7.3 Applications from non-governmental applicants which are not signed by the owner, must be signed by a principal executive officer of at least the level of vice president, or a duly authorized representative.

7.4 Certificate By Intermediate Sewer Owner

I hereby certify that (Please check one):

- 1. The sewers to which this project will be tributary have adequate reserve capacity to transport the wastewater that will be added by this project without causing a violation of the environmental Protection Act or Subtitle C, Chapter I, or
- 2. The Illinois Pollution Control Board, in PCB \_\_\_\_\_ dated \_\_\_\_\_ granted a variance from Subtitle C, Chapter I to allow construction of facilities that are the subject of this application.

Name and location of sewer system to which this project will be tributary:

Fox Hollow Collection System

Sewer System Owner: City of Warrenville

Address: 35258 Manning St.

City: Warrenville State: IL Zip Code: 60555

Signature X [Signature] Date: \_\_\_\_\_

Printed Name: David Brummel Phone No: 630-393-9427

Title: Mayor

7.4.1 Additional Certificate By Intermediate Sewer Owner

I hereby certify that (Please check one):

- 1. The sewers to which this project will be tributary have adequate reserve capacity to transport the wastewater that will be added by this project without causing a violation of the environmental Protection Act or Subtitle C, Chapter I, or
- 2. The Illinois Pollution Control Board, in PCB \_\_\_\_\_ dated \_\_\_\_\_ granted a variance from Subtitle C, Chapter I to allow construction facilities that are the subject of this application.
- 3. Not applicable

Name and location of sewer system to which this project will be tributary:

Springbrook Interceptor Sewer

Sewer System Owner: City of Naperville

Address: 400 S. Eagle Street

City: Naperville State: IL Zip Code: 60540

Signature X [Signature] Date: 10/7/10

Printed Name: James E. Holzapfel, P.E. Phone No: 630-305-5320

Title: Director, Water & Wastewater Utilities

7.5 Certificate By Waste Treatment Works Owner

I hereby certify that (Please check one):

- 1. The waste treatment plant to which this project will be tributary has adequate reserve capacity to treat the wastewater that will be added by this project without causing a violation of the Environmental Protection Act or Subtitle C, Chapter I, or
- 2. The Illinois Pollution Control Board, in PCB \_\_\_\_\_ dated \_\_\_\_\_ granted a variance from Subtitle C, Chapter I to allow construction and operation of the facilities that are the subject of this application.
- 3. Not applicable

I also certify that, if applicable, the industrial waste discharges described in the application are capable of being treated by the treatment works.

Name of Waste Treatment Works: Springbrook Water Reclamation Plant

Waste Treatment Works Owner: City of Naperville

Address: 400 S. Eagle Street

City: Naperville State: IL Zip Code: 60540

Signature X: [Signature] Date: 10/7/10

Printed Name: James Holzapfel, P.E. Phone No: 630-305-5320

Title: Director, Water & Wastewater Utilities

Please return completed form to the following address:

Illinois Environmental Protection Agency  
Permit Section, Division of Water Pollution Control  
P.O. Box 19276  
Springfield, Illinois 62794-9276

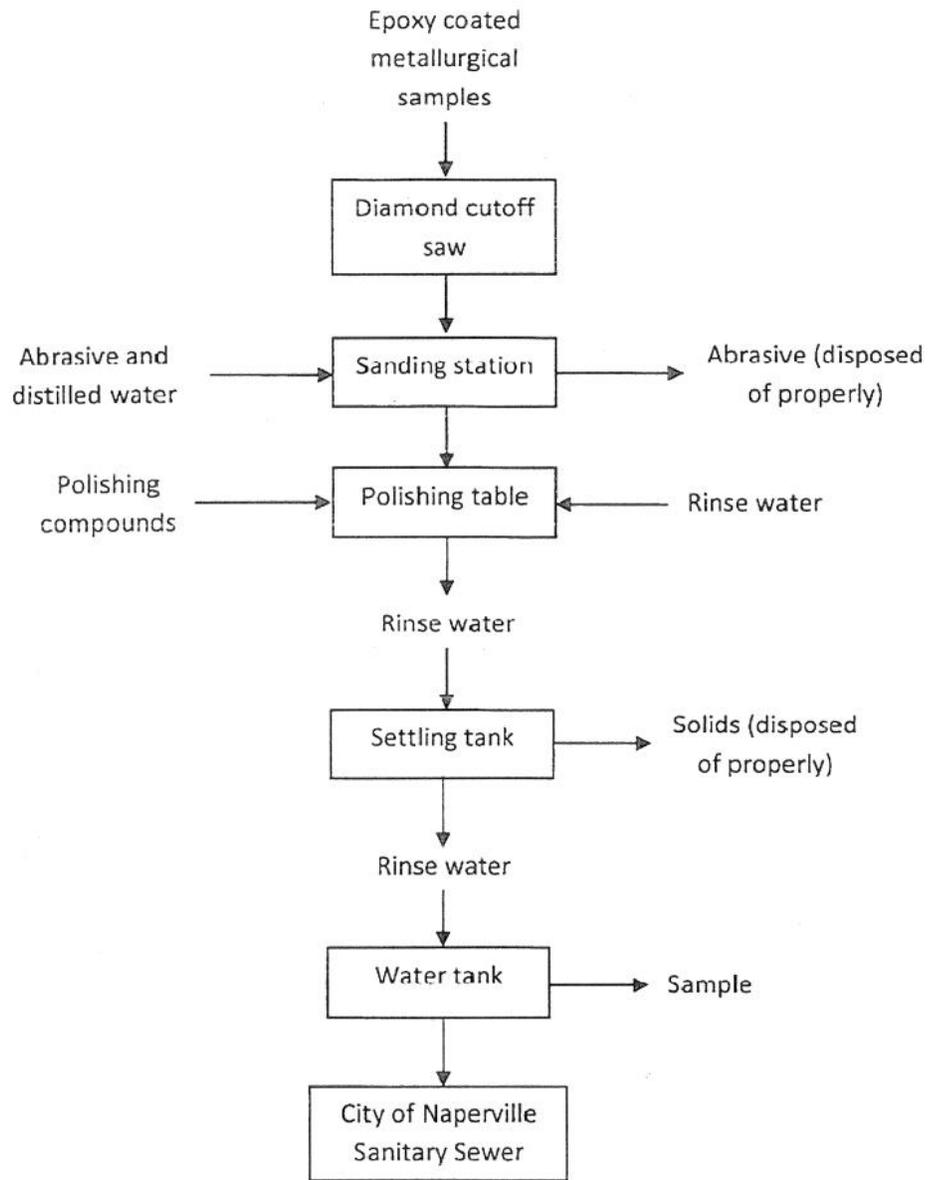
This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

## Materials Development and Testing Laboratory Polishing Summary and Flow Diagram

The polishing activities performed at the Materials Development and Testing Laboratory are for the preparation of metallurgical samples for viewing with microscopes. The samples that are prepared are made with various materials including niobium, copper, titanium, plastics, etc.

Prior to the polishing activities, the samples are set in Epo-Kwik epoxy and cut down with a diamond cutoff saw to obtain a portion of the sample for polishing. The samples are then sanded at a sanding station with various grits of abrasive and small amounts of distilled water. The water stays in the station and evaporated off and the abrasive is disposed of properly.

The samples are then moved to the polishing table where they are polished with polishing pads and various polishing compounds, including diamond paste, alumina, silica carbide, diamond suspension oil based, and diamond extender. Either water or diamond extender is used for the lubrication during the polishing. Each of the polishing compounds comes in different grit sizes and the samples are rinsed between grit sizes. The water from the rinsing process goes into a settling tank where the grit settles out and the water flows into a tank where it sits until it is discharged into the sanitary sewer. The maximum amount of discharge that is expected to be generated each time would be 50 gallons. Operations are estimated to take place once a month with a maximum of once a week.



This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that section. Failure to do so may prevent this form from being processed and could result in your application being denied.

For IEPA Use:  
LOG #  
DATE RECEIVED:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF WATER POLLUTION CONTROL  
PERMIT SECTION  
Springfield, Illinois 62794-9276

SCHEDULE N WASTE CHARACTERISTICS

1. Name of Project Wastewater discharges from polishing and metal cutting activities in the Village - MDTL

2. FLOW DATA	EXISTING	PROPOSED-DESIGN
2.1 Average Flow (gpd)	<u>NA</u>	<u>&lt;50</u>
2.2 Maximum Daily Flow (gpd)	<u>NA</u>	<u>50</u>

2.3 TEMPERATURE

Time of Year	Avg. Intake Temp. F	Avg. Effluent Temp. F	Max. Intake Temp. F.	Max. Effluent Temp. F.	Max. Temp. Outside Mixing Zone F
SUMMER	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	
WINTER	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	

2.4 Minimum 7-day, 10-year flow: NA cfs \_\_\_\_\_ MGD.

2.5 Dilution Ratio: NA ; \_\_\_\_\_

2.6 Stream flow rate at time of sampling NA cfs \_\_\_\_\_ MGD.

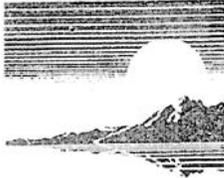
3. CHEMICAL CONSTITUENT Existing Permitted Conditions  ; Existing conditions  ; Proposed Permitted Conditions

Type of sample:  grab (time of collection 1/year);  composite (Number of samples per day \_\_\_\_\_)

(see instructions for analyses required)

CONSTITUENT	RAW WASTE (mg/l)	TREATED EFFLUENT Avg. (mg/l) Max.	UPSTREAM (mg/l)	DOWNSTREAM SAMPLES (mg/l)
Ammonia Nitrogen (as N)				
Arsenic (total)				
Barium				
Boron				
BOD <sub>5</sub>				
Cadmium				
Carbon Chloroform Extract				
Chloride				
Chromium (total hexavalent)				
Chromium (total trivalent)				

CONSTITUENT	RAW WASTE (mg/l)	TREATED EFFLUENT Avg. (mg/l) Max.	UPSTREAM (mg/l)	DOWNSTREAM SAMPLES (mg/l)
Copper	0.207			
Cyanide (total)				
Cyanide (readily released @ 150° F & pH 4.5)				
Dissolved Oxygen				
Fecal Coliform				
Fluoride				
Hardness (as Ca CO <sub>3</sub> )				
Iron (total)	1.47			
Lead	0.005			
Manganese	0.021			
MBAS				
Mercury				
Nickel	0.007			
Nitrates (as N)				
Oil & Grease (hexane solubles or equivalent)				
Organic Nitrogen (as N)				
pH				
Phenols				
Phosphorous (as P)				
Radioactivity				
Selenium				
Silver				
Sulfate				
Suspended Solids				
Total Dissolved Solids				
Zinc				
Others				
Total Chromium	0.002			



**First  
Environmental  
Laboratories, Inc.**

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

July 27, 2010

Mr. Billy Arnold  
**FERMI NATIONAL ACCELERATOR LABORATORY**  
P.O. Box 500  
MS 363  
Batavia, IL 60510-0500

Project ID: MDTT. Polishing Water  
First Environmental File ID: 10-2883  
Date Received: July 20, 2010

Dear Mr. Billy Arnold:

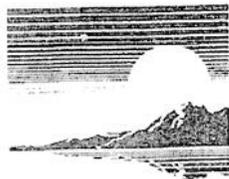
The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 002468: effective 02/23/10 through 02/28/11.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

William Mottashed  
Project Manager



**First  
Environmental  
Laboratories, Inc.**

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

**Analytical Report**

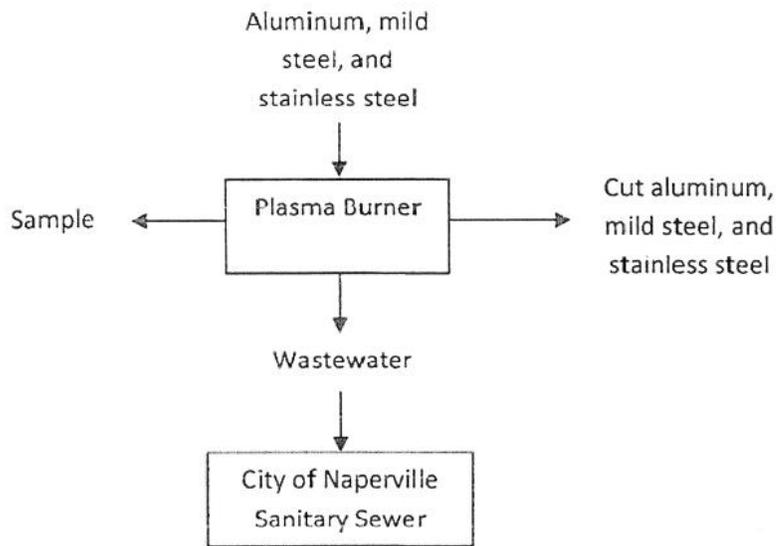
**Client:** FERMI NATIONAL ACCELERATOR LABORATORY  
**Project ID:** MDTL Polishing Water  
**Sample ID:** MDTL Polishing Water  
**Sample No:** 10-2883-001

**Date Collected:** 07/14/10  
**Time Collected:** 15:00  
**Date Received:** 07/20/10  
**Date Reported:** 07/27/10

Analyte	Result	R.L.	Units	Flags
<b>Total Metals</b>	<b>Method: 200.7R4.4</b>	<b>Preparation Method 200.7W</b>		
Analysis Date: 07/21/10		Preparation Date: 07/21/10		
Chromium	0.002	0.001	mg/L	
Copper	0.207	0.001	mg/L	
Iron	1.47	0.01	mg/L	
Lead	0.005	0.002	mg/L	
Manganese	0.021	0.001	mg/L	
Nickel	0.007	0.001	mg/L	

## Machine Shop Plasma Burner Summary and Flow Diagram

The Plasma Burner is used to cut aluminum, mild steel, and stainless steel. The use varies; however the water is not discharged for each use. The water from the Plasma Burner is discharged when the machine is drained for cleaning due to a slag build up that interferes with the operation. This occurs about once every 6 to 8 years. The tank holds about 4,200 gallons of water.



This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that section. Failure to do so may prevent this form from being processed and could result in your application being denied.

For IEPA Use:  
LOG #  
DATE RECEIVED:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF WATER POLLUTION CONTROL  
PERMIT SECTION  
Springfield, Illinois 62794-9276

SCHEDULE N WASTE CHARACTERISTICS

1. Name of Project Wastewater discharges from polishing and metal cutting activities in the Village - Lab 1

2. FLOW DATA	EXISTING	PROPOSED-DESIGN
2.1 Average Flow (gpd)	<u>NA</u>	<u>&lt;4,200</u>
2.2 Maximum Daily Flow (gpd)	<u>NA</u>	<u>4,200</u>

2.3 TEMPERATURE

Time of Year	Avg. Intake Temp. F	Avg. Effluent Temp. F	Max. Intake Temp F.	Max. Effluent Temp F.	Max. Temp. Outside Mixing Zone F
SUMMER	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>          </u>
WINTER	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>          </u>

2.4 Minimum 7-day, 10-year flow: NA cfs            MGD.

2.5 Dilution Ratio: NA ;           

2.6 Stream flow rate at time of sampling NA cfs            MGD.

3. CHEMICAL CONSTITUENT Existing Permitted Conditions  ; Existing conditions  ; Proposed Permitted Conditions

Type of sample:  grab (time of collection batch );  composite (Number of samples per day            )

(see instructions for analyses required)

CONSTITUENT	RAW WASTE (mg/l)	TREATED EFFLUENT Avg. (mg/l) Max.	UPSTREAM (mg/l)	DOWNSTREAM SAMPLES (mg/l)
Ammonia Nitrogen (as N)				
Arsenic (total)				
Barium				
Boron				
BOD <sub>5</sub>				
Cadmium				
Carbon Chloroform Extract				
Chloride				
Chromium (total hexavalent)				
Chromium (total trivalent)				

CONSTITUENT	RAW WASTE (mg/l)	TREATED EFFLUENT Avg. (mg/l) Max.	UPSTREAM (mg/l)	DOWNSTREAM SAMPLES (mg/l)
Copper	0.069			
Cyanide (total)				
Cyanide (readily released @ 150° F & pH 4.5)				
Dissolved Oxygen				
Fecal Coliform				
Fluoride				
Hardness (as Ca CO <sub>3</sub> )				
Iron (total)	0.17			
Lead	<0.002			
Manganese	0.014			
MBAS				
Mercury				
Nickel	0.005			
Nitrates (as N)				
Oil & Grease (hexane solubles or equivalent)				
Organic Nitrogen (as N)				
pH				
Phenols				
Phosphorous (as P)				
Radioactivity				
Selenium				
Silver				
Sulfate				
Suspended Solids				
Total Dissolved Solids				
Zinc				
Others				
Total Chromium	0.049			



**First  
Environmental  
Laboratories, Inc.**

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

May 07, 2010

Mr. Billy Arnold  
**FERMI NATIONAL ACCELERATOR LABORATORY**  
P.O. Box 500  
MS 363  
Batavia, IL 60510-0500

Project ID: Plasma/Polishing Water  
First Environmental File ID: 10-1626  
Date Received: April 29, 2010

Dear Mr. Billy Arnold:

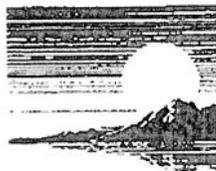
The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 002468: effective 02/23/10 through 02/28/11.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Lorrie Franklin  
Project Manager



**First  
Environmental  
Laboratories, Inc.**

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

## Case Narrative

### FERMI NATIONAL ACCELERATOR LABORATORY

Project ID: Plasma/Polishing Water

First Environmental File ID: 10-1626

Date Received: April 29, 2010

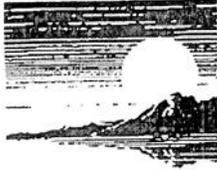
Flag	Description	Flag	Description
<	Analyte not detected at or above the reporting limit.	L+	LCS recovery outside control limits; high bias.
B	Analyte detected in associated method blank.	L-	LCS recovery outside control limits; low bias.
C	Identification confirmed by GC/MS.	M	MS recovery outside control limits; LCS acceptable.
D	Surrogates diluted out; recovery not available.	M+	MS recovery outside control limits high bias; LCS acceptable.
E	Estimated result; concentration exceeds calibration range.	M-	MS recovery outside control limits low bias; LCS acceptable.
F	Field measurement.	N	Analyte is not part of our NELAC accreditation.
		ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.
G	Surrogate recovery outside control limits; matrix effect.	P	Chemical preservation pH adjusted in lab.
H	Analysis or extraction holding time exceeded.	Q	The analyte was determined by a GC/MS database search.
J	Estimated result; concentration is less than calib range.	S	Analyte was sub-contracted to another laboratory for analysis.
K	RPD outside control limits.	T	Sample temperature upon receipt exceeded 0-6°C
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	W	Reporting limit elevated due to sample matrix.

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

**Sample Batch Comments:**

Sample acceptance criteria were met.

Survey ID  
2953



**First  
Environmental  
Laboratories, Inc.**

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

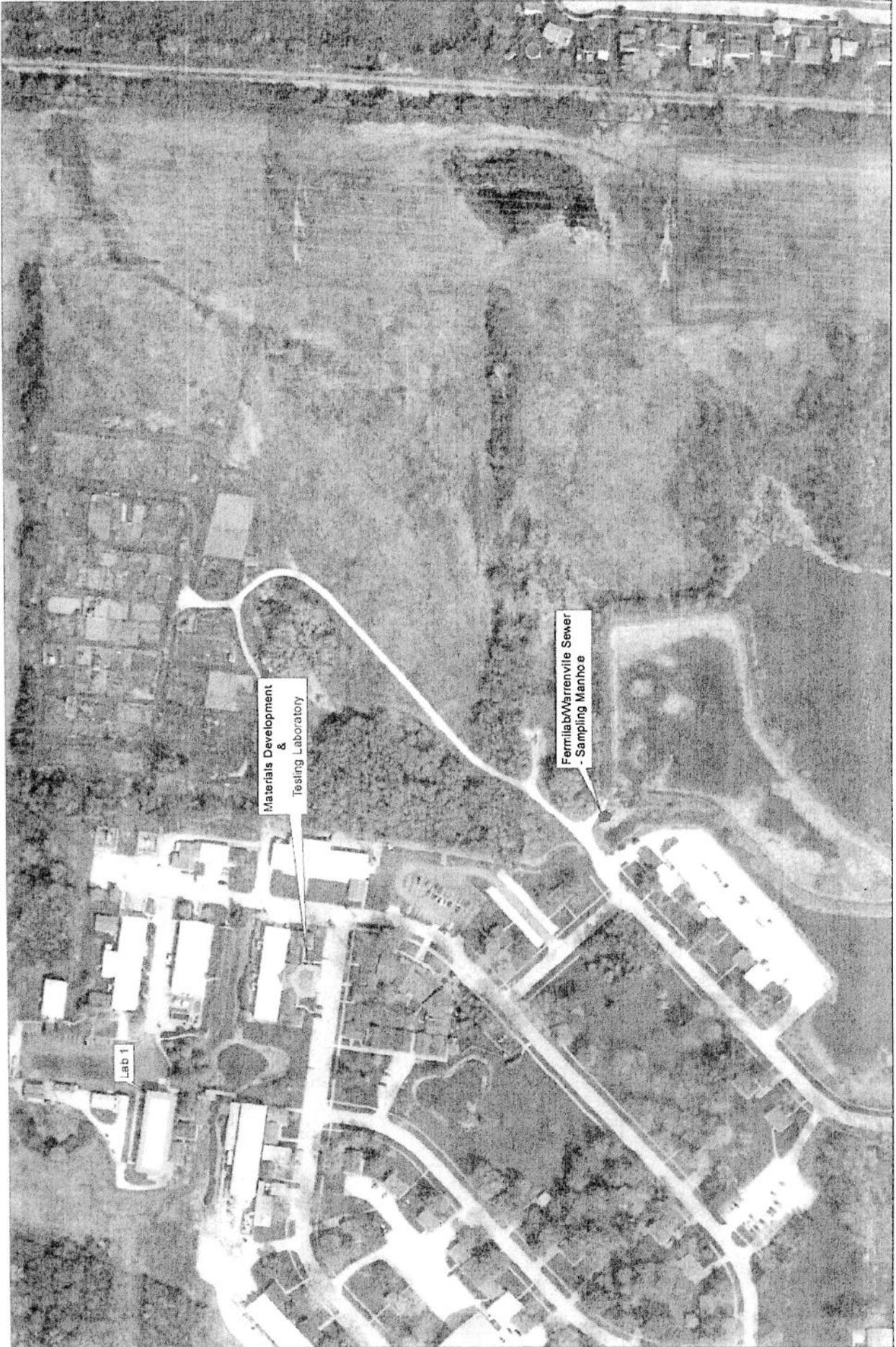
**Analytical Report**

**Client:** FERMI NATIONAL ACCELERATOR LABORATORY  
**Project ID:** Plasma/Polishing Water  
**Sample ID:** Plasma Burner Water  
**Sample No:** 10-1626-001

**Date Collected:** 04/28/10  
**Time Collected:** 9:05  
**Date Received:** 04/29/10  
**Date Reported:** 05/07/10

Analyte	Result	R.L.	Units	Flags
<b>Total Metals</b>	<b>Method: 200.7R4.4</b>	<b>Preparation Method 200.7W</b>		
Analysis Date: 05/06/10		Preparation Date: 04/30/10		
Copper	0.069	0.001	mg/L	
Iron	0.17	0.01	mg/L	
Lead	< 0.002	0.002	mg/L	
Chromium	0.049	0.001	mg/L	
Manganese	0.014	0.001	mg/L	
Nickel	0.005	0.001	mg/L	





Lab 1

Materials Development & Testing Laboratory

Ferris/Warrenville Sewer - Sampling Manhole



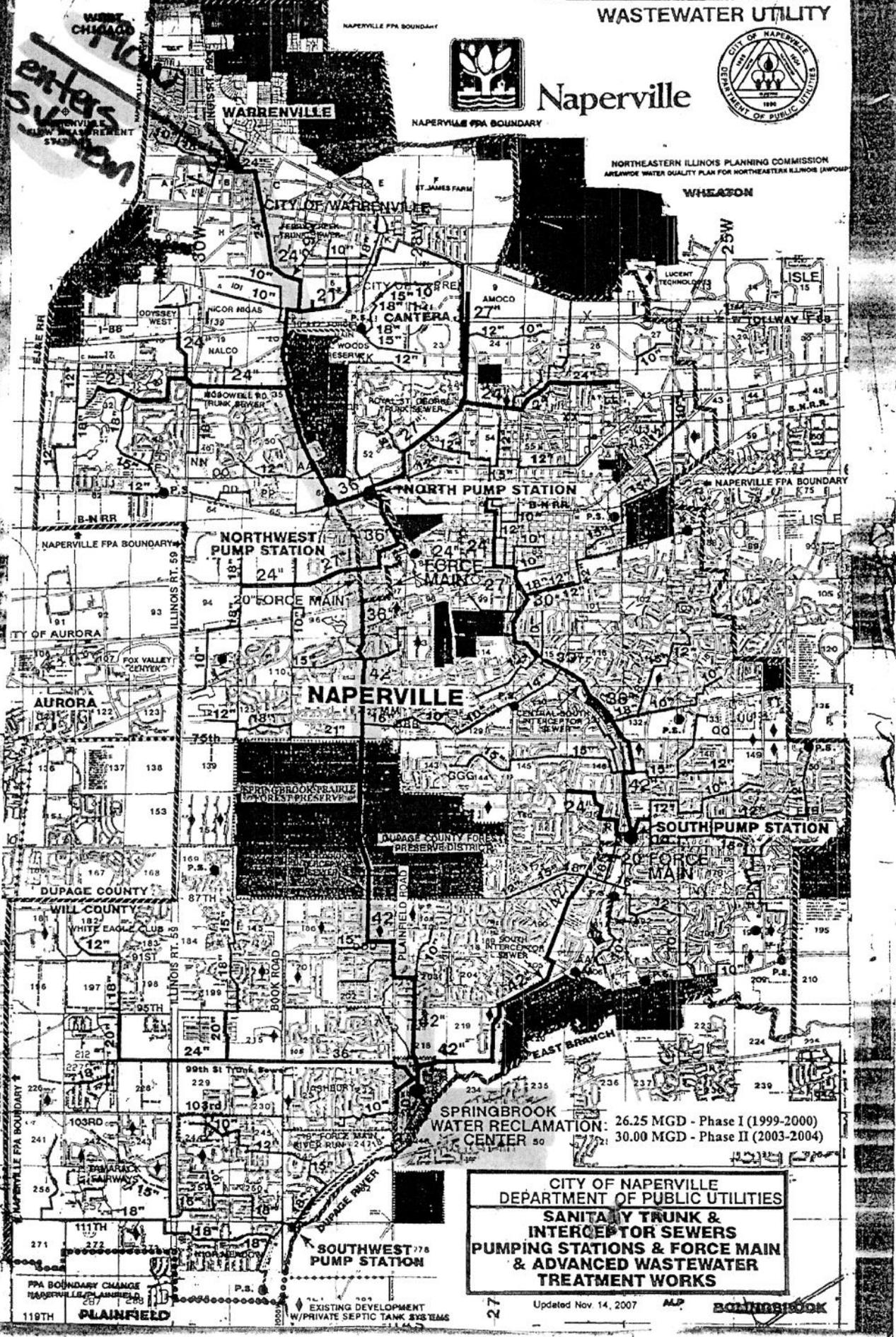
WASTEWATER UTILITY



Naperville



NORTHEASTERN ILLINOIS PLANNING COMMISSION  
AREAWIDE WATER QUALITY PLAN FOR NORTHEASTERN ILLINOIS (AWQP)



CITY OF NAPERVILLE  
DEPARTMENT OF PUBLIC UTILITIES  
SANITARY TRUNK &  
INTERCEPTOR SEWERS  
PUMPING STATIONS & FORCE MAIN  
& ADVANCED WASTEWATER  
TREATMENT WORKS

Updated Nov. 14, 2007

enters system