

**RESOLUTION NO. R-17-25**

**A RESOLUTION SEEKING APPROVAL OF A CONTRACT FOR LOCAL LIMITS DEVELOPMENT THROUGH ROBINSON ENGINEERING IN AN AMOUNT NOT TO EXCEED \$25,250.00**

**WHEREAS**, the City of Wood Dale (hereinafter the "City") is a body politic and corporate, organized and existing pursuant to the Illinois Municipal Code, 65 ILCS 5/1-1-1 *et seq.*; and

**WHEREAS**, the City is authorized and empowered under the Illinois Municipal Code, and its Ordinances adopted pursuant thereto, to enter into agreements and to contract for goods and services; and

**WHEREAS**, the Mayor and the City Council of the City seek to ensure that the City is run effectively and efficiently; and

**WHEREAS**, the Mayor and the City Council of the City, seeks Robinson Engineering for Local Limits Development; and

**WHEREAS**, these services are necessary to maintain and promote an effective and efficient City Government; and

**WHEREAS**, after diligent review of the qualifications and services of Robinson Engineering the Mayor and the City Council find Robinson Engineering is the most qualified firm to perform the duties sought by the City; and

**NOW, THEREFORE, BE IT RESOLVED BY THE CITY OF WOOD DALE, DUPAGE COUNTY, AN ILLINOIS CORPORATION, as follows:**

**SECTION 1:** The recitals set forth above are incorporated herein and made a part hereof.

SECTION 2: The Mayor is authorized to execute said Agreement on behalf of the City of Wood Dale, which signature shall be attested to by the City Clerk.

SECTION 3: The City Manager, staff and/or the City Attorney shall take the steps necessary to put the terms and conditions of the Agreement into effect.

SECTION 4: That all ordinances and resolutions, or parts thereof in conflict with the provisions of this Resolution are, to the extent of such conflict, hereby repealed.

SECTION 5: That this Resolution shall be in full force and effect from and after its adoption, approval and publication in pamphlet form as provided by law.

PASSED this 4<sup>th</sup> day of May, 2017

AYES: Aldermen Catalano, JAKUB, Messina, Sorrentino, SWSmurski, E. Wesley, R. Wesley, B. Woods

NAYS: None

ABSENT: None

APPROVED this 4<sup>th</sup> day of May, 2017

SIGNED: Annunziato Pulice  
Annunziato Pulice, Mayor

ATTEST: Shirley J. Siebert  
Shirley J. Siebert, City Clerk



April 10, 2017

City of Wood Dale  
404 North Wood Dale Road  
Wood Dale, Illinois 60191

Attention: Matt York; Public Works Director

**RE: CITY OF WOOD DALE Local Limits Study**

Dear Mr. York:

The City is required to develop and implement a program as identified in the NPDES Permit issued by the IEPA. The Pretreatment Program was established by the Clean Water Act of 1972 to assist municipalities in controlling discharges to their wastewater treatment plants to assure compliance with the water quality standards.

The NPDES Permits issued to the City requires that a Local Limits Study be conducted every five years. The last Local Limits Study that the City undertook was conducted in 2008-2009. We contacted the USEPA to ask that the City not be required to include the South WWTP as it only includes residential flow. They identified that the South Wastewater Treatment Plant is not required to be included in the study.

We appreciate the opportunity to assist the City with continued implementation of its Pretreatment Program.

### SCOPE

The development of local limits is a very important and complicated step. The City is faced with the competing goals of maximizing use of the WWTPs by current and future industrial users while simultaneously ensuring that water quality standards are met. We have the expertise to guide the City of Wood Dale through this complex effort.

The USEPA has prepared guidance on the development of local limits that will be used in our efforts. This work will be divided into three separate sections: (1) data gathering, (2) limit determination, and (3) information submittal.

Specific tasks to be completed in our Scope of Work are proposed as follows:

- Develop a sampling schedule and share with the City and laboratory;
- Receive and review the analytical data;
- Prepare a support document containing the supporting analytical report forms;
- Develop Local Limits;
- Provide a draft document for the City to review;
- Meet with staff to discuss the proposed local limits; and
- Prepare documentation to be submitted to the IEPA and the USEPA.

We will review the City's analytical data from recent sampling activities (sludge, influent, effluent and industrial sampling) and use as much of the data as possible in the local limits calculations.

The accurate collection of influent and effluent samples is dependent upon the time of travel through the wastewater treatment plant. To account for this, we recommend that the effluent sample be collected 24 hours after the influent sample is taken.

**Sample Locations.** The specific samples needed are as follows:

▪ **Wastewater Treatment Plant (WWTP)**

Ten (10) days of analyses of raw influent and final effluent to determine pollutant removal efficiencies for each of the City's North Wastewater Treatment Plant. Additionally, we will need plant flow data, sludge quantities, and the analytical results of digested sludge (one sample collected near the end of the sampling cycle). The influent and effluent samples should be obtained on a once per week schedule varying the day of the week that the samples are collected.

▪ **Sludge**

Data from the 503 report can be used to comply with this requirement as it will provide the most recent historical information. We would anticipate that additional sludge analyses will be required.

▪ **Domestic Sources**

The following types of locations are proposed to be sampled in each service area for a duration of three days each to establish the baseline of residential and commercial loadings:

- A sample location should be selected that only contains older homes - built prior to 1990. This location will serve to establish if there are homes with low level plumbing corrosion that may impact several of the limits; and
- A second sample location should be selected that includes new homes (post 2004). This location will serve to establish whether the new homes are contributing to metal loadings, particularly copper and zinc, which likely occurs for the first five years from new plumbing; and
- A third sample location should be selected that includes a good representation of both residential and routine commercial locations without any industrial sources

Information on the approximate flow for all domestic sources within your system will be needed. The most recent census will provide a default value.

▪ **Waterway Segment Sampling**

The North WWTP discharges to the Salt Creek as does the South WWTP. Analytical information from the DuPage River Salt Creek Workgroup, which has had a robust monitoring and sampling plan in place for more than five years will be utilized. We plan on collecting one additional sample from the waterway during the local limits development effort.

**Analyses**

The pollutants of concern identified by USEPA that will need to be evaluated for the development of local limits are the following metals and nonmetals:

Ammonia	Cyanide	Phosphorus*
Arsenic	Fats, Oils & Grease*	Nickel
BOD	Iron	Selenium
COD *	Lead	Silver
Cadmium	Manganese *	Sulfate*
Chloride*	Mercury	Surfactants*
Chromium (Hexavalent)*	Molybdenum	TDS*
Chromium (Total)	Nitrogen, Total *	TSS
Copper	Phenols*	Zinc

\*Emerging pollutant of concern

USEPA requires evaluation of a specific group pollutants for local limits evaluation, and there are also several pollutants that we recommend (\*) be evaluated based on emerging USEPA trends.

**Laboratory**

At the City's request, we have contacted Suburban Laboratories to provide an estimate for the analytical work necessary. Suburban is an accredited laboratory and has undergone numerous IEPA and USEPA audits required to maintain proper accreditation; we concur that the City should retain them as a sub-contractor to provide the required analyses for this study.

The City will contract directly with Suburban Laboratories to provide the needed analyses, as such the costs associated are not included in the fee. We anticipate that the analytical costs will be approximately \$16,000 - \$18,000.

Attachment: Robinson Engineering - Local Limits (2017-28 : Local Limits)

**Engineering Services**

Specific tasks to be completed in our Scope of Work are proposed as follows:

- Review currently available analytical data;
- Identify analytical methods that will provide acceptable data;
- Develop a sampling schedule and share with the City and contract laboratory;
- Receive and review the analytical data;
- Prepare a support document containing the supporting analytical report forms;
- Develop Local Limits;
- Provide a draft document for City Staff to review;
- Meet with City Staff to discuss the proposed local limits;
- Prepare a pre-final Local Limits submittal document;
- Coordinate City Council review; and
- Submit Local Limits document IEPA and the USEPA.

**Schedule**

We anticipate that the development of local limits will take approximately six to eight months to complete. This will allow sample collection to occur over two seasonal cycles.

**Engineering Fee**

REL proposes to perform the tasks identified above for a lump sum fee of \$ 25,250. We will provide periodic billing throughout this project and provide a monthly status report to you.

We look forward to the opportunity of serving the City of Wood Dale. Please do not hesitate to contact me with any questions you may have, my cell number is (815) 394-9050.

Very truly yours,  
**ROBINSON ENGINEERING, LTD.**



Steven G. Zehner PE, LEED-AP  
Senior Project Manager

Attachment: Robinson Engineering - Local Limits (2017-28 : Local Limits)