
PROFESSIONAL SERVICES AGREEMENT

AMENDMENT NUMBER 1 DATED _____

Project Name: City of West Allis NR 216 Stormwater Permit Compliance

AECOM Project No.: 60309194

This Amendment to the Professional Services Agreement dated June 25, 2013 is by and between:

Client:

City of West Allis
7525 W. Greenfield Avenue
West Allis, WI 53214

and,

AECOM Technical Services, Inc. (ATS)
1555 North RiverCenter Drive, Suite 214
Milwaukee, Wisconsin 53212

Who agree as follows:

Amending the original contract with the scope of services in Attachment A of this amendment. The total contract value will increase \$17,200, from \$17,188 to \$34,388. CLIENT will pay on a time and material basis not to exceed the sum of \$ 34,388. ATS will invoice according to the per diem rates in effect at the time the services are executed.

In all other respects, the Agreement remains the same.

APPROVED FOR CLIENT

By: _____

Printed Name: _____

Title: _____

Date: _____

APPROVED FOR AECOM

By: Patrick Clifford, P.E.

Printed Name: Patrick Clifford, P.E.

Title: District Manager

Date: February 20, 2013

ATTACHMENT A AMENDED SCOPE OF SERVICES

2014 NR 216 Storm Water Compliance
City of West Allis
February 20, 2014

Project Background

The City of West Allis joined the Menomonee River Watershed Permit Group on November 30, 2012. This permit replaces the City's individual WPDES municipal storm water discharge permit. Based on information from the Wisconsin Department of Natural Resources (WDNR), the sampling and monitoring activities and recommendations may continue as previously detailed in the 2012 IDDE Program Report (December 2012).

This permit authorizes and regulates the discharge of storm water from the City's municipal separate storm sewer systems to waters of the state and requires the City of West Allis to be responsible for the following tasks, which are to be conducted and/or submitted to the Wisconsin Department of Natural Resources (WDNR). In addition to regulation of the standard pollutants of consideration, the Menomonee River Watershed Permit requires consideration of certain pollutants for specific waterways, as detailed in Table 1 of the permit. AECOM is prepared to assist the City of West Allis with meeting the required permit items in this scope for submittal with the City's annual report due to the WDNR by March 31, 2015.

As part of our 2012 NR216 Project, AECOM recommended the elimination of testing requirements for an additional 15 outfalls, HA-03, HA-07, HO-06, HO-10, HO-12, HO-14, K-02A, K-03/IJ-17, UW-01, UW-02, UW-03, UW-04, UW-11, UW-29 and W-01/IJ-13. These outfalls have either been historically dry or without concentrations exceeding expected ranges during the previous (5) years. AECOM believes that this reduction in effort is warranted and best utilizes the City's resources to investigate active outfalls and isolate tributary sources of pollutants. In 2013, the eight remaining active outfalls were monitored. Active flows and pollutants were identified at several outfalls. The 2013 testing agreement required that the tracking be done only after approval by city staff. This resulted in the follow-up testing being conducted on a later date, with different flow conditions and inability to determine most sources. It is recommended for 2014 that the same eight outfalls be tested and it is further recommended that if flow and pollutants are observed, that the source tracking begin immediately to more efficiently and effectively determine potential sources.

In addition, outfalls W-03B and W-03D have historically had high concentrations of detergents and/or discolorations, odor or turbidity concerns. AECOM obtained record drawings from the City in 2013 and began conducting a source tracking investigation. The sources for outfall W-03D have been narrowed and AECOM recommends working with the City's Building Inspection or Plumbing Department and property owners to further determine sources within structures. For outfall W-03B, the tracking began, but was crews were unable to go further than one manhole upstream due to vehicles parked on structures and/or buried structures. We recommend continuing the source tracking for this outfall in 2014 to isolate the elevated concentrations of detergents experienced in the storm sewer system and downstream pond by working with the property owner (and if necessary with the City's Building Inspection or Plumbing Department).

1.0 Illicit Discharge Detection and Elimination (IDDE) Screening

In general, the project will be conducted in accordance with the Illicit Connections/Dry Weather Field Screening Proposal submitted to the WDNR in March 2005.

1.1 IDDE Field Screening

In spring, summer, and/or fall of 2014 conduct a screening of eight City of West Allis major outfalls as recommended in the 2012 and 2013 IDDE Report. Where flow is observed, provide additional information on the Chemical Testing Form including chemical testing on grab samples using CHEMetrics portable test kits as utilized in the past. Testing parameters include pH, detergents, chlorine, phenols and copper. AECOM will conduct follow-up investigations, if warranted, as described in the following section.

1.2 IDDE Follow-up Investigations

If one of the aforementioned test parameters exceeds a threshold, follow-up investigations will be conducted in upstream areas in an attempt to isolate the potential source of the pollutant(s). The thresholds that will be used are as follows:

- A. pH < 6.0 or pH > 9.0
- B. Detergents >0.50 mg/L
- C. Chlorine > 1.0 mg/L
- D. Phenols > 0.0 mg/L
- E. Copper > 0.1 mg/L

AECOM has included ten (10) additional site investigations in our scope of services for confirmation or dispute of test results.

1.2.1 Supplemental IDDE Testing

This sub-task is not included in the scope, but can be added if desired by the City.

If additional alternate field test parameters appear to have the potential to better define the potential source(s), this will be suggested to the City and would be conducted as authorized based on the Alternate Field Testing as described. AECOM will receive immediate authorization from the City of West Allis, by phone call, to conduct this investigation compliant with WDNR philosophy.

AECOM also has the capabilities to sample the supplemental IDDE parameters of ammonia, potassium and fluoride. These additional parameters provide chemical screening tools to identify whether the flow is potentially contaminated with wastewater or if the source is tap water or a natural water source. AECOM has provided an estimated cost to conduct this additional testing on a per-site basis, not included in our Scope of Services. Current NR 216 regulations do not require the additional testing parameters, but these additional tests can better characterize the potential pollutant(s) and contribution to identified impairment(s) of the receiving water body. AECOM will inform the City of West Allis if additional alternate field screening appears to be a benefit to understanding pollutant sources (on a site by site basis) and will only proceed if authorized by the City. AECOM would receive immediate authorization from the City of West Allis to conduct this investigation, compliant with WDNR philosophy.

In addition, AECOM can also coordinate with the Great Lakes Water Institute (GLWI) to perform E. coli, fecal coliform and phosphorous testing of Honey Creek (HO) outfalls. Phosphorous testing could also be completed for Underwood Creek (UW) outfalls, but this would require additional sampling efforts, not currently included in our scope of services due to the previous pollutant concentrations for these outfalls being within the expected ranges.

1.3 Report/Meeting

Meet with the City once to review the results of field screening. Outfalls where flow was observed and chemical testing indicated potential discharges and required follow-up investigation will be the focus of the meeting. The decision to conduct any additional follow-up illicit discharge investigations will be based on the findings to date, the results of the meeting and, if necessary, after consultation with the WDNR. Results will be summarized in a report acceptable for inclusion in the City's annual NR 216 report due to the WDNR March 31, 2015.

2.0 Annual Report Assistance

AECOM will assist the City of West Allis in the following aspects of the Annual NR 216 Report to WDNR:

2.1 Annual Report Item 3g

AECOM will assist with providing input and information regarding pollutant loading removal rates and the status of meeting performance standards. AECOM will summarize the recently updated SLAMM Analysis as part of this work, and will include verbiage about continued redevelopment efforts within the City that address TSS removal.

2.2 Annual Report Item 8

AECOM will provide a summary of control measures implemented to reduce any pollutants of concern. This item includes public and private projects to reduce peak flow rates and TSS loading levels in municipal storm sewers. AECOM will summarize private stormwater permit applications received in 2013 and will look to the City of West Allis to provide information on any public projects constructed.

3.0 W-03B and W-03D Detergent Concentration Assistance

AECOM has included a \$4,000 allowance for assisting the City of West Allis in identifying the source of the elevated detergent concentrations from entering the storm sewer system and the downstream pond. Work will include upstream investigations, review of existing GIS and Record Drawing information and additional tasks as authorized by the City of West Allis.

ASSUMPTIONS:

1. The City of West Allis will provide AECOM with any record drawings of public works projects constructed in 2013 to aid in the reduction of peak stormwater flow rates and TSS levels.
2. The pH, detergents, chloride, phenols and copper test kit charges are included in the base proposal cost estimate.

DELIVERABLES:

1. 2014 IDDE Report (Electronic (Adobe PDF) DRAFT copy and 4 FINAL copies)
2. Electronic (Microsoft Word) submittal of text for inclusion by City Staff for annual WDNR report (Items 3g ad 8).

COST ESTIMATE, BASED ON THE KNOWN CONDITIONS AND REQUIREMENTS OF THE PROJECT:

<i>Task</i>	2014 NR 216 Stormwater Permit Compliance	Cost
1.1	IDDE Field Screening	\$3,500
1.2	IDDE Follow-up (as required), \$230 per site, 10 sites included.	\$2,300
1.3	IDDE Report/Meeting	\$5,200
2.0	Annual Report Updates	\$2,200
3.0	W-03B and W-03D Detergent Concentration Assistance	\$4,000
	Total	\$17,200