Autumnwood ESH Consultants, LLC
6539 Autumnwood Court I
Mount Pleasant, Wisconsin 53403
Phone: 262.237.1130

8 July 2014

Mr. John Nordine
U.S. EPA Region 5
RCRA Enforcement and Compliance Assurance Branch (LU-9J)
77 West Jackson Boulevard
Chicago, Illinois 60604

Re: Central Wire, Union, Illinois Monthly Progress Report for June 2014

Dear Mr. Nordine:

Enclosed please find the Monthly Progress Report for the Central Wire facility located in Union, Illinois for the month of June 2014.

The eDMR for the groundwater pump and treat facility and the laboratory analytical reports, which include the effluent data used in the eDMR as well as the semiannual groundwater and residential well sampling results from June 2014, are also attached to this report. In addition the revised NPDES discharge permit was issued by the Illinois EPA on April 8, 2014 and the DMR report has been changed by IEPA to list the correct chemical names.

If you have any comments or questions regarding the progress of this project, please do not hesitate to call me at (262) 237-1130.

Sincerely,
Autumnwood ESH Consultants, LLC

John W. Thorsen

John W. Thorsen, P.E.

JWT:jt

encl

cc:	Joyce Munie	IEPA
	Robert Kay	USGS
	Thomas Hanewald	Central Wire
	Gerald W. Ruopp	Central Wire
	Henry Lopes	Central Wire
	Robert Johnson	Central Wire

MONTHLY PROGRESS REPORT
Central Wire Union, Illinois Site
June 2014

1. **Progress Made This Reporting Period** – This reporting period Central Wire continued the operation and maintenance of the groundwater extraction and treatment system. Central Wire treated an average of 544,000 gallons per day with a maximum daily flow of 560,000 gallons per day and met effluent limitations for pH, 1,1,1-Trichloroethane (TCA), Trichloroethene (TCE) and Tetrachloroethene (PCE). The electronic Discharge Monitoring Report (eDMR) for June 2014 is attached to this report.

The laboratory analytical report noted that the samples arrived at the lab on June 12, 2014 at 4.1°.

The Illinois Environmental Protection Agency (IEPA) has modified the eDMR so that Central Wire is now reporting the correct chemicals on the eDMR.

The Ex. 6 Personal Privacy (PP) wells were run for a total of 73 hours from April 30 to June 2, 2014 with the Ex. 6 Personal Privacy (PP) well pumped for 59 hours and the Ex. 6 Personal Privacy (PP) wells pumped for 14 hours.

Summary of 2014 Irrigation Hours at Ex. 6 Personal Privacy (PP), May 27 to June 30, 2014

Date of Hour Meter Reading	Ex. 6 Personal Privacy (PP) Pump		Ex. 6 Personal Privacy (PP) Pump	
	Hour Meter Reading	Hours Pumped	Hour Meter Reading	Hours Pumped
5/27/2014	5180	0	3022	0
6/2/2014	5186	6	3027	5
6/9/2014	5197	11	3031	4
6/16/2014	5197	0	3040	9
6/23/2014	5200	3	3043	3
6/30/2014	5200	0	3059	16
Totals		20		37

The groundwater level monitoring data from downgradient monitoring well DGW-2I continues to be collected. The table of recorded groundwater levels between June 2 and July 3, 2014 in monitoring well DGW-2I is attached to this report. Water levels ranged from a low on July 3, 2014 of 815.982 feet above mean sea level to the high on June 11, 2014 of 817.296 feet, a range of 1.3147 feet. The graphs showing the variation in water elevations over time vs. precipitation and vs. hours of irrigation wells pumped per week is embedded in this table.

Central Wire has located a web site that has the in daily precipitation information at Marengo, Illinois, the NOAA weather station closest to monitoring well DGW-2I. It is not printer friendly. The location is [HYPERLINK "http://www.nws.noaa.gov/climate/xmacis.php?wfo=lot"]. One must then select

"Marengo" in step 1, "Daily data for a month" in Step 2, the month in Step 3, and then "Go".

2. **Summary of Validated Data and Results** – The monthly effluent sampling took place on June 11, 2014. The permit limitations and analytical results are shown below.

Central Wire Union Illinois Pump & Treat Discharge Analytical Results

Parameter	Effluent Limitation (Daily Maximum, ug/L)	June 2014 Analytical Results, ug/L
1,1,1-Trichloroethane	20	0.94 J
Trichloroethene	20	0.70 J
Tetrachloroethene	20	1.0

J = Result was less than the reporting limit but greater than or equal to the method detection limit.

The June analytical report is attached to this Monthly Progress Report.

The June semiannual RCRA groundwater monitoring well and residential well sampling event took place on June 9th and 10th, 2014. The historical data and plots of that data are attached to this report.

In monitoring well MW-2, no Environmental Protection Agency (EPA) Maximum Contaminant Limit (MCL) has been exceeded since March 2008. In MW-4, Tetrachloroethene (PCE) has been exceeded since monitoring began in 1995 and is currently at 21 micrograms per liter (ug/L). The Trichloroethene (TCE) MCL was last exceeded in June 2012.

In monitoring well MW-5, the PCE has been exceeded since monitoring began in 1995 and has been reduced from 650 ug/l in 1995 to the 100s in the 2000s and is now less than 100 ug/L. TCE, 1,1,1-Trichloroethane (TCA) and Dichloroethene (DCE) MCLS were last exceeded in the 2003 – 2005 time frame. MW-5D exceeds the MCL for TCE and was found at 15 ug/L in June 2014. No other MCLs have been exceeded since PCE was found at 49 ug/L in June 2005.

MW-6 has only exceeded the PCE MCL and has been below the MCL of 5 ug/L since December 2012. MW-7 regularly exceeds the MCL for PCE and the most recently results were 49 ug/L. The DCE MCL was last exceeded in June 2003 and the TCE MCL was last exceeded in December 2012.

MW-8 has regularly exceeded the PCE and TCE MCLs since testing began in 1995. The current values for PCE is 69 ug/L and for TCE is 7.5 ug/L. MW-9 has not exceeded any MCL since April 2002 when it exceeded the PCE with a value of 12 ug/L. MW-HBR only exceeds the MCL for PCE which it has done since monitoring began in 1995. The most recent value is 53 ug/L.

Downgradient monitoring well 1 is a three well nest – shallow (S), Intermediate (I) and Deep (D). No MCLS have been exceeded in DGW-1S. DGW-1I has exceeded MCLS for DCE, TCE, PCE, TCA and 1,2-Dichloroethane (DCA). The PCE MCL has not been exceeded since 2002. The DCA MCL has not been exceeded since 2005. The TCA MCL has not been exceeded since June of 2013. DCE and TCE were found in June 2014 at 33 and 24 ug/L, respectively. DGW-1D exceeded MCLs for DCA, DCE, TCE and, most recently, Vinyl Chloride (VC). In the June 2014 sampling event, only VC exceeded the MCLs at 8.7 ug/L vs. the MCL of 2 ug/L.

Downgradient monitoring well 2 (DGW-2) is also a three well nest (shallow, intermediate and deep) that has been sampled since 2012. Three have been no MCL exceedances in these three wells.

Upcoming Events/Activities Planned – The existing remediation systems will continue to operate as planned.

EPA has requested that Central Wire again determine the location of the leading edge of the chlorinated groundwater plume. This will be done in October 2014. EPA has also requested that Central Wire coordinate the fall semiannual sampling event at the same time as conducting the geoprobe sampling to locate the leading edge of the chlorinated plume.

3. **Anticipated Problem Areas and Recommended Solutions** – None.

4. **Key Personnel Changes** – None.

5. **Target and Actual Completion Dates** – This project has not deviated from the project schedule.