EA Engineering, P.C.
EA Science and Technology

6712 Brooklawn Pkwy, Suite 104
Syracuse, NY 13211
Telephone: 315-431-4610
Fax: 315-431-4280
www.eaest.com

14 November 2011

MEMORANDUM

TO: Will Welling – NYSDEC

FROM: James Hayward, P.E. – EA Engineering, P.C.

SUBJECT: Completion of Groundwater Extraction and Treatment System Shut Down and Decommissioning
Chem Core Site (915176)

The New York State Department of Environmental Conservation (NYSDEC) has tasked EA Engineering, P.C. and its affiliate EA Science and Technology (EA) to perform shut down and decommissioning activities at the Chem Core site located in Buffalo, New York. The purpose of this memo is to inform NYSDEC that the field activities associated with shut down and decommissioning of the groundwater extraction and treatment system have been completed. The following decommissioning activities were completed from 13 to 14 October 2011:

TREATMENT BUILDING & UTILITIES

- Shut off gas service at the site
- Dismantled vapor discharge stack
- Disconnected cat-ox piping (air and electrical)
- Inventoried spare equipment and parts
- Lowered temperature settings on heaters (set at 50ºF)
- Completed general housekeeping.

GROUNDWATER EXTRACTION WELL FIELD

- Turned off power to extraction wells (disconnected at distribution panel)
- Disconnected electrical wiring for pumps and level transducers
- Extracted level transducers
- Pulled pit-less adapters to retrieve pump and associated piping
- Weather-proofed and labeled remaining electrical lines within the extraction well vaults
- Disconnected piping from pit-less adapter and submersible pumps
- Disassembled piping into 10-ft lengths for disposal
- Dismantled, cleaned and reassembled submersible pumps
- Recorded associated pump identification information
- Cleaned level transducers
- Recorded associated transducer information
- Installed 6-in. compression cap at well head on riser piping
- Inspected and photo-logged extraction well vaults.

TREATMENT SYSTEM

- Purged extraction well piping to system with compressed air
- Disconnected and capped piping from extraction wells
- Drained equalization tank
- Rinsed and power-washed equalization tank
- Disconnected chemical feed pump
- Serviced transfer pumps and blower
- Recorded associated pump and blower identification information
- Removed filters from bag filters and disposed
- Rinsed and cleaned bag filter housings
- Disassembled stripper
- Rinsed and power washed air stripper trays and base
- Disconnected cat-ox electrical wiring
- Turned PLC off
- Inventoried and photo-logged primary treatment system components.

EA has contacted the Buffalo Sewer Authority regarding sewer disconnection requirements which will be addressed once EA has obtained a response. If you have any questions or comments regarding the completed activities associated with the groundwater extraction and treatment system shut down and decommissioning please feel free to contact Jim Hayward at 315-431-4610 ext. 105.

CHEM CORE SITE INVENTORY	
1	Telephone
1	Logical Display (Logical Products, Inc.). SN: L60ABDF1 56789724
2	Honeywell UDC2000 Mini-Pro. SN: 9718Y730643800002
3	Bullet time delay fuse, 250 V AC
4	Johnson Controls. Pat.#s 4.482.847; 5.306.989; 4.554.496
1	Eclipse Water Butterfly Valve
1	Solinst Water Level Meter. SN: 27207
1	QED stripper trays. SN: 50103-005
1	5 gal REDUX 601
1	Open barrel REDUX 380
2	Un-open barrels REDUX 380
2	Square D Integral 18 motor starters
1	Box bag filters (16 ct)
1	Spare Franklin Electric pump motor. SN: 05K18-21-2829
1	Spears 6-in. Sch 80 valve
1	Simoniz 1600 pressure washer (inoperable)

Decommissioned WP-1 vault.

Decommissioned WP-2 vault.

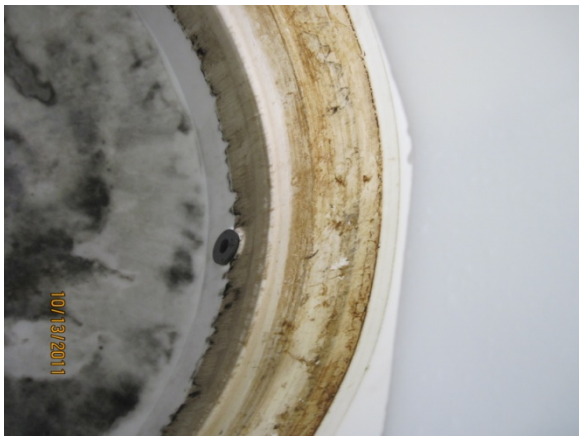
Weatherproofing remaining electrical lines within the WP-2 vault.

Well pumps, transducers, pitless adapters, and associated wiring staged within the system enclosure.

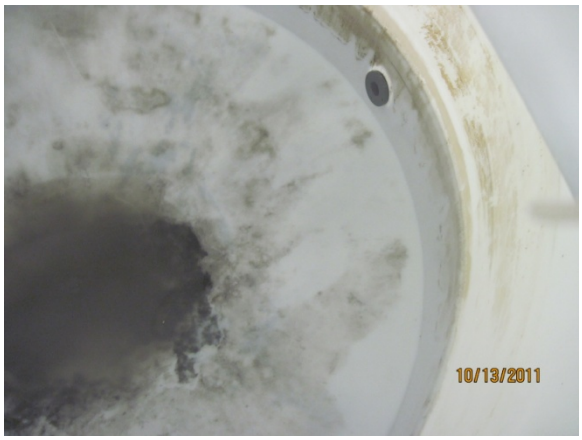
Cut and capped WP-1 and WP-2 influent lines.

Air compressor setup used to purge remaining water from system piping.

Plumbing setup used to drain remaining water from the equalization tank.

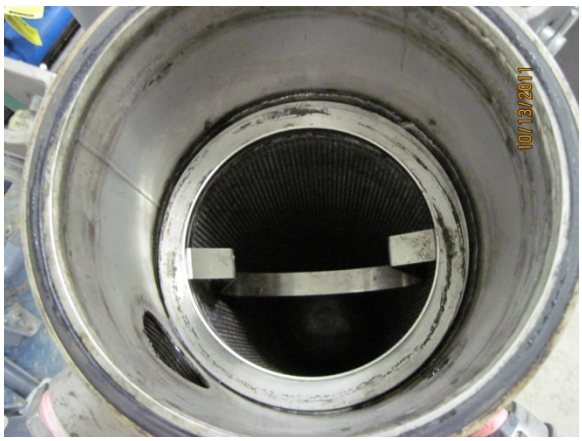


Interior of the equalization tank prior to powerwashing.



Interior of the equalization tank upon completion of powerwashing.

Air stripper trays drying in the system enclosure following powerwashing.



Example of a drained and cleaned bag filter housing.

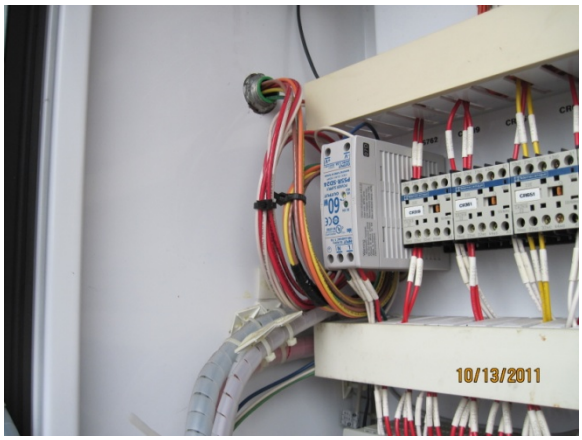
Bag filter housings drying subsequent to being drained and cleaned.

Effluent air line disconnected from cleaned air stripper unit.

Disconnected Cat-Ox and vapor discharge stack piping prior to capping.

Capped and sealed Cat-Ox and vapor discharge stack piping.

Vapor discharge piping disconnected from the cleaned and reassembled air stripper unit.



Disconnected and secured Cat-Ox electrical wiring.

Cat-Ox natural gas service that has been disconnected by the utility provider.