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ENGINEERING AND ENVIRONMENTAL SERVICES

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To DALE CARPENTER	From BILL WERTZ	
Co./Dept. EPA REGION 2	Co.	
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FAX COVI

DATE: 11-11-97

TO: Bill Wertz
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Olin

NUMBER OF PAGES INCLUDING COVER SHEET: 4

MESSAGE:

Olin CHEMICALS
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(716) 278-6411 FAX (716) 278-6459

November 10, 1997

Mr. Stanley F. Radon
Senior Engineering Geologist
Division of Solid and Hazardous Materials - Region 9
New York State Department of Environmental Conservation
270 Michigan Avenue
Buffalo, NY 14203-2999

Subject: **Status Report of Ground-Water Collection and Treatment System and Storm Water Management**
Olin Chemicals Facility, Niagara Falls, NY

Dear Mr. Radon:

The following is a summary of the activities performed from the period of September 29 through October 18, 1997. This status report covers the final three weeks of construction activities for the project.

TASKS COMPLETED

Building 73 Preparation:

- Tufco coating of the concrete secondary containment curb was completed.
- Touch-up painting was completed inside the building.

Storm-Water Main Installation:

- The top of STM-15 was raised. Four-inch drainage pipe was then installed along an existing trench from the NW corner of Bldg. 73 into STM-15. The trench was then backfilled to the level of the surrounding concrete and asphalt.
- Two-inch PVC piping was installed at a low spot along the railroad tracks south of Building 73 for stormwater drainage and tied into catch basin STM-17.

Potable Water Line:

- Installed fiberglass insulation on the potable water piping inside the building.
- Installed 2-inch bypass of the flow meter at the Hot Box assembly in accordance with City of Niagara Falls codes.

Site Grading:

- The elevations of several manholes were raised in the area south of Bldg. 73.
- In the area south of Bldg. 73, run-and-crush stone was spread across the backfill material and it was compacted with the vibratory roller.

Site Paving:

- Installed both binder layer and top layer of asphalt to the area south of Bldg. 73, the area along Gill Creek, and all remaining areas of the site that were to be paved.

Mechanical:

- Installed 1/2 inch carbon steel piping from the acid feed pumps to the pH adjustment tanks. Two feet of steel coated Teflon tubing was installed between the carbon steel piping and the inlet coupling on each tank.
- Attached 1/2 inch valves for the suction and discharge sides of the metering pumps to the fabricated stand.
- Ran pressure test on the 1/2 inch carbon steel piping using nitrogen.
- Installed discharge fittings including female Banjo fitting with U-clamp onto the discharge port of each of the three acid totes.
- Installed Teflon tubing at the suction and discharge sides of the metering pumps and made connections into the 1/2 inch valves.
- Installed leak detection float switches in the leak detection risers in each of the 5 recovery wells.
- Three sets of stairs were set in place and secured along the containment curb.
- New steel grating was installed over the containment sump, and the grating above the clarifier tank was repaired.
- Installed structural steel at roof above air stripper for support of the discharge stack.
- Assembled ductwork from heater to the blower inlet of the air stripper. Installed thermostats in the duct after the heater.
- Installed sample ports in the 6-inch CPVC pipe at the discharge of each pH adjustment tank, and in the 8-inch stainless steel discharge piping from the air stripper.
- Installed the discharge stack, attached guy wires to roof, and installed the expansion joint between the top of the stripper and the stack.
- Sealed up the openings in the roof after the stack installation was complete.
- Installed 6-inch CPVC overflow piping from the clarifier tank towards a floor drain adjacent to the tank.
- Fabricated a metal stand for the sulfuric acid desiccant tower and attached it to the floor between the two acid totes.

Electrical:

- Completed exterior electrical work including the removal of inactive wiring, installation of aerial duct (thin-walled HDPE), installation of new cable, and installation and pulling of new power and instrumentation wiring.
- Completed installation of conduit and junction boxes for power and instrumentation inside Bldg. 73.
- Attached the 3 pH transmitters on the stand between the pH adjustment tanks.
- Attached lightning protection rods on the discharge stack and ran copper grounding cable through 1" PVC to the existing grounding cable on the south side of Building 73.
- Installed flexible conduit to the pH probes, mixers, thermostats, and the acid tote level sensor.
- Made splice of main power supply cable from Bldg. 90 into the MCC room in Bldg 73.

Electrical (con't):

- Installed junction boxes and extension cable for the pH sensors to facilitate removal of the probe from the tank for calibration, repair, etc.
- Pulled wiring for all equipment and instrumentation inside Bldg. 73 and made the appropriate terminations and connections.
- Installed additional OMNX board in the I/O box.
- Made appropriate terminations inside the MCC room and inside the I/O box.
- Installed guy wire stabilization on the poles by wells PR-2 and RW-2.
- Installed four heaters inside building 73.

Surveying:

- Surveyed the finished grades of all paved areas, and the locations and elevations of all wells and piezometers.

Demobilization:

- Decontaminated all heavy equipment prior to removal from the site.
- Performed general site cleanup.

DESIGN CHANGES AND RATIONALE

- There have been no significant changes to the design in this period.

PROBLEMS ENCOUNTERED

- There have been no significant problems encountered with the project.

If you have any questions regarding the project, please contact me at (770)421-3333.

Sincerely,

Stephen R. Spitzer
Resident Engineer

cc: Bill Wertz
Jim Frye
Mike Bellotti
Vickie Ray
Jim Reed
Rick Marotte