Olin

P.O. BOX 248, 1186 LOWER RIVER ROAD, CHARLESTON, TN 37310
Phone: (423) 336-4000

April 22 , 1997

Mr. James Craft
Engineering Geologist
New York State Department of Environmental Conservation
Region 8 Office - Division of Hazardous Waste Remediation
6274 East Avon - Lima Road
Avon, New York 14414-9519

**Re: Olin Rochester RI/FS Quarterly Report No. 14**
**Olin Chemicals (Site #628018a) 100 McKee Rd, Rochester, NY**

Dear Mr. Craft:

This is the fourteenth quarterly report of progress on the Olin Rochester RI/FS, covering the period from January 1, 1997 through March 31, 1997.

**Barge Canal sampling:**
For the first quarterly Canal sampling in 1997, Olin has expanded the Barge canal sampling to include two additional points to the north of previous northernmost point (SW9). The two additional points were added to define the limit of J-level chloropyridine detections during low-water in the Canal. The additional points (SW10 and SW11) are shown on a map in **Attachment 1**. The sampling point selection rationale was to sample upstream to the nearest lock (SW10) and then half the distance between SW10 and the previous northernmost point (SW9). Results are pending.

Olin also included points SW1,2 and 3, plus the Quarry outfall and one point in the canal QOU1.

**Offsite Groundwater:**
Olin has installed five additional wells to define the offsite groundwater plume. Of these, three deep bedrock wells are located on Quarry property and two are located on Pfaudler property east of the canal, in a deep/shallow bedrock cluster.

Sampling results from these wells indicate that we have defined a "clean" zone of non-detection of chloropyridines around the quarry. Additionally, the piezometric

plot of deep groundwater flow, including these new deep wells, shows distinct groundwater flow toward the quarry as if the quarry acted as a large collection point.

A low level detection (16 ppb) was identified at one well (BR-116D) at the Pfaudler property. It's shallow bedrock companion well (BR-116) showed non-detect for pyridine and chloropyridine compounds. These levels will be verified by inspection of the results from the recently completed re-sampling during the semiannual sampling event.

*Based on these offsite groundwater monitoring results, Olin feels that we have achieved an understanding of the occurrence of offsite groundwater contamination that is sufficient to allow us to begin development of the offsite Feasibility Study.*

Olin conducted the first semiannual 1997 groundwater sampling on the wells listed in the previous (12th) quarterly report. As part of that sampling effort, we re-sampled selected wells at the Chevron site, which lies between the Olin plant and the quarry, to better define the plume pathway between Olin and the quarry. We drew samples from the base of these open-core wells using modified low-flow sampling methodology, which would provide better field-method assurance of the validity of any non-detect or detected concentrations.

A report on the groundwater sampling is included in **Attachment 2**. Piezometric plots and data are attached for the first quarter monitoring events for 1997 are included in **Attachment 3**.

**Onsite groundwater containment:**

Groundwater collection continues for onsite wells, per the remedial plan submitted in the onsite Feasibility Study, now pending approval with NYSDEC. Containment has improved under the new configuration, relative to prior quarters. The maps indicate that nearly all Bedrock and Overburden groundwater is being captured before it moves off the Olin property. Olin will continue to monitor trends in groundwater containment and overburden de-watering, per the predictive model. Piezometric plots and tabulated data are included in **Attachment 3**.

**Community Relations:**

As I noted to you verbally, Olin included an article on offsite groundwater and canal sampling results in our community newsletter, the Echo (**Attachment 4**). No public comment has been received. Olin also briefed a reporter from the *Democrat/Chronicle* on these issues. No print article was published in the *Democrat/Chronicle*.

Olin will continue to communicate progress and issues with NYSDEC. Please direct any questions to me at 423 / 336-4587.

Sincerely,

Michael J. Bellotti

Michael J. Bellotti
Olin Corporation

Attachments

***List of Attachments:***

1. Barge Canal surface water sampling points: First Quarter-1997
2. Groundwater monitoring report: offsite monitoring wells
3. Piezometric plots: Overburden and Bedrock aquifers: First Quarter - 1997
4. Echo Newsletter: January - 1997

cc:
Mr. Joseph Ryan
New York State Department of Environmental Conservation
Division of Environmental Enforcement
600 Delaware Avenue
Buffalo, New York 14202-1073

Mr. Joseph White
New York State Department of Environmental Conservation
Division of Hazardous Waste Remediation
50 Wolf Road
Albany, New York 12433-1010

Mr. Steven Shost
New York State Department of Health
Bureau of Environmental Exposure Investigation
2 University Place
Albany, New York 12203

Mr. Charles Harrison: Olin Rochester, NY
Mr. William Norman: Olin Rochester, NY
Ms. Laura Tew: Olin Charleston, TN
Ms. Brenda Zona: Olin Norwalk , CT
Mr. John Burns: Olin Charleston, TN
Ms. Monica L. Fries Esq.: Husch & Eppenberger, St. Louis, MO
Mr. Thomas Eschner: ABB, Portland, ME

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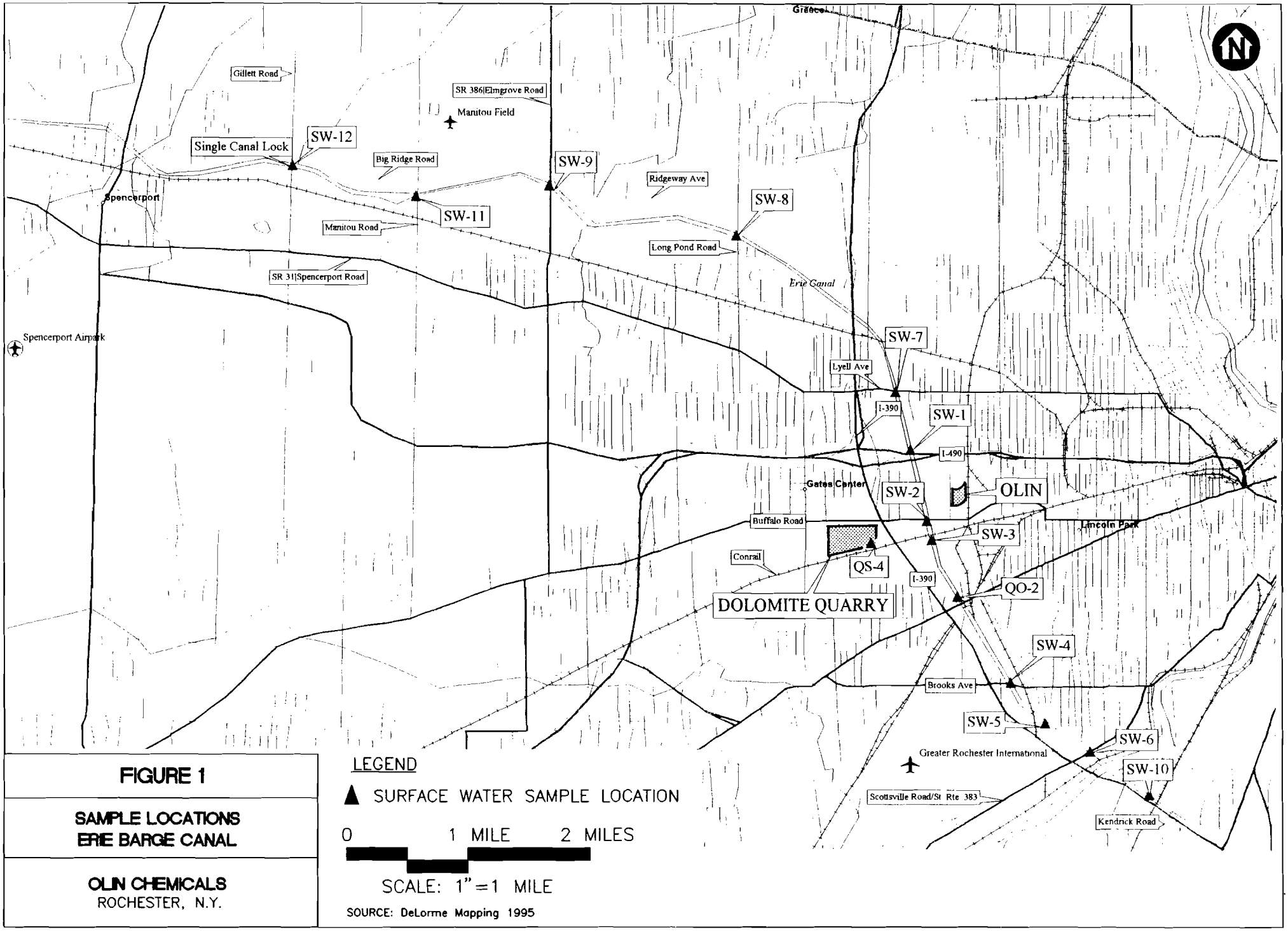


**FIGURE 1**

**SAMPLE LOCATIONS**
**ERIE BARGE CANAL**

**OLIN CHEMICALS**
ROCHESTER, N.Y.

ASEA BROWN BOVERI

April 11, 1997

Mr. Michael Bellotti
Olin Chemicals Corporation
P.O. Box 248, Lower River Road
Charleston, TN 37310

**Subject: Olin Rochester Site - February 1997 Quarry and Pfaudler Site Groundwater Sampling Results**

Dear Mr. Bellotti:

This letter presents the results of chemical analysis and describes the sampling, analytical methodology, and analytical quality control for sampling conducted in February 1997 as follow up to the Phase II Remedial Investigation for the Olin Rochester site (Olin). Groundwater sampling results are enclosed for the samples collected from newly-installed bedrock wells located on the Pfaudler property and south of the Dolomite Products Company (Dolomite) quarry.

**Sampling**

Groundwater samples were collected for selected pyridine analysis on February 28, 1997 by, and submitted to, Recra Environmental, Inc. Wells BR-116 and BR-116D are located south of Olin on the Pfaudler property. Wells BR-117D, BR-118D, BR-119D, BR-120D, and BR-121D are located southwest of Olin on the Dolomite property. Wells BR-117D and BR-118D were installed in late 1996 and have been sampled once before. The remaining wells are new, and therefore have not been sampled previously. The locations of these sampling points are shown in Figure 1.

**Analytical Procedures and Data Review**

All water samples were analyzed in accordance with 1991 New York State Category B Analytical Services Protocols (ASP91) for the Olin suite of selected pyridines (pyridine, 2-chloropyridine, 3-chloropyridine, 4-chloropyridine, 2,6-dichloropyridine, and p-fluoroaniline).

A preliminary review of the quality control sample results associated with the analytical results was performed for data quality assurance purposes. Sample results were reviewed for holding time compliance, surrogate standard recoveries, blank contamination, matrix spike blank/matrix spike blank duplicate (MSB/MSBD) and matrix spike/matrix spike duplicate (MS/MSD) accuracy and precision, and field duplicate precision. The results of the data review are discussed in the quality control section of this letter.

ABB Environmental Services, Inc.

511 Congress Street
Portland, Maine 04112-7050

Telephone (207) 775-5401

Fax (207) 772-4762

ASEA BROWN BOVERI

## Analytical Results

The validated results from the February 1997 monitoring event were tabulated and are provided in Attachment 1. Samples with detected results are summarized below; all results are expressed in micrograms per liter (µg/L). The reporting limit for the selected pyridines is 10 µg/L.

| Compound | BR-116D | BR-117D | BR-118D | BR-121D |
|---|---|---|---|---|
| 2,6-dichloropyridine | 3 J | 1 J | 2 J | - |
| 2-chloropyridine | 16 | 76 | 130 D | 1 J |
| 3-chloropyridine | - | 1 J | 1 J | - |
| pyridine | - | - | 1 J | - |

- = not detected
J = estimated value below the reporting limit
D = value obtained from a secondary dilution

None of the selected pyridine compounds were detected in the groundwater samples collected from wells BR-116, BR-119D, and BR-120D. As shown above, groundwater collected from BR-118D and BR-117D contained the highest concentrations of the pyridine compounds. Results for these wells (BR-117D, BR-118D) are consistent with results observed in November 1996 after the wells were installed These wells are located the closest to (approximately 250 to 500 feet south) the water-bearing fracture in the quarry wall. Selected pryidines were not detected further south or west of the quarry wall, except for one detection of 2-chloropyridine in BR-121D at an estimated concentration (1 J µg/L) below the reporting limit.

## Quality Control

As part of the February 1997 off-site groundwater sampling program, a bailer rinse blank sample, MS/MSD samples, and a field duplicate sample was collected as quality control samples. All analytical holding times were met, field duplicate precision was met, and no target compounds were reported in the bailer rinse blank. Quality control (QC) findings during data review are discussed below.

- p-Fluoroaniline was not observed (zero percent recovery) during the MS/MSD analyses for BR-116D, therefore, the p-fluoroaniline result for this sample was rejected (R).

- all compound reporting limits for BR-119D FD (field duplicate) were qualified as estimated (UJ) due to low surrogate standard recoveries. The sample was re-extracted and the surrogate standard recoveries were within QC limits; however, the analytical holding time had expired. Neither set of results for this duplicate sample (and the original sample) contained any of the

selected pyridines. This minor QC issue is not believed to have a significant impact on the reported data.

**Conclusions**

The highest concentrations of the selected pyridine compounds detected during the limited February 1997 off-site groundwater monitoring program were in samples collected from the newly-installed (November 1996) wells BR-117D and BR-118D. These wells are located approximately 250 to 500 feet south of the water-bearing fracture in the quarry wall. Selected pryidines were not detected in the other new bedrock wells installed further south or west of the quarry wall, with one exception of 2-chloropyridine at an estimated concentration (1 J µg/L) below the reporting limit in BR-121D. None of the compounds were detected in the shallow bedrock well located on the Pfaudler property (BR-116).

Please call if you have any questions or comments on the material described in this letter.

Sincerely,

**ABB ENVIRONMENTAL SERVICES, INC.**

Thomas R. Eschner

Thomas R. Eschner, R.G.
Project Manager/Principal Hydrogeologist

TRE/jpc
Attachments: Figure 1 - Off-site Monitoring Well Locations
Attachment 1 - Laboratory Data Summary Table
Attachment 2 - Chain of Custody Forms

cc: J. Connolly
N. Breton

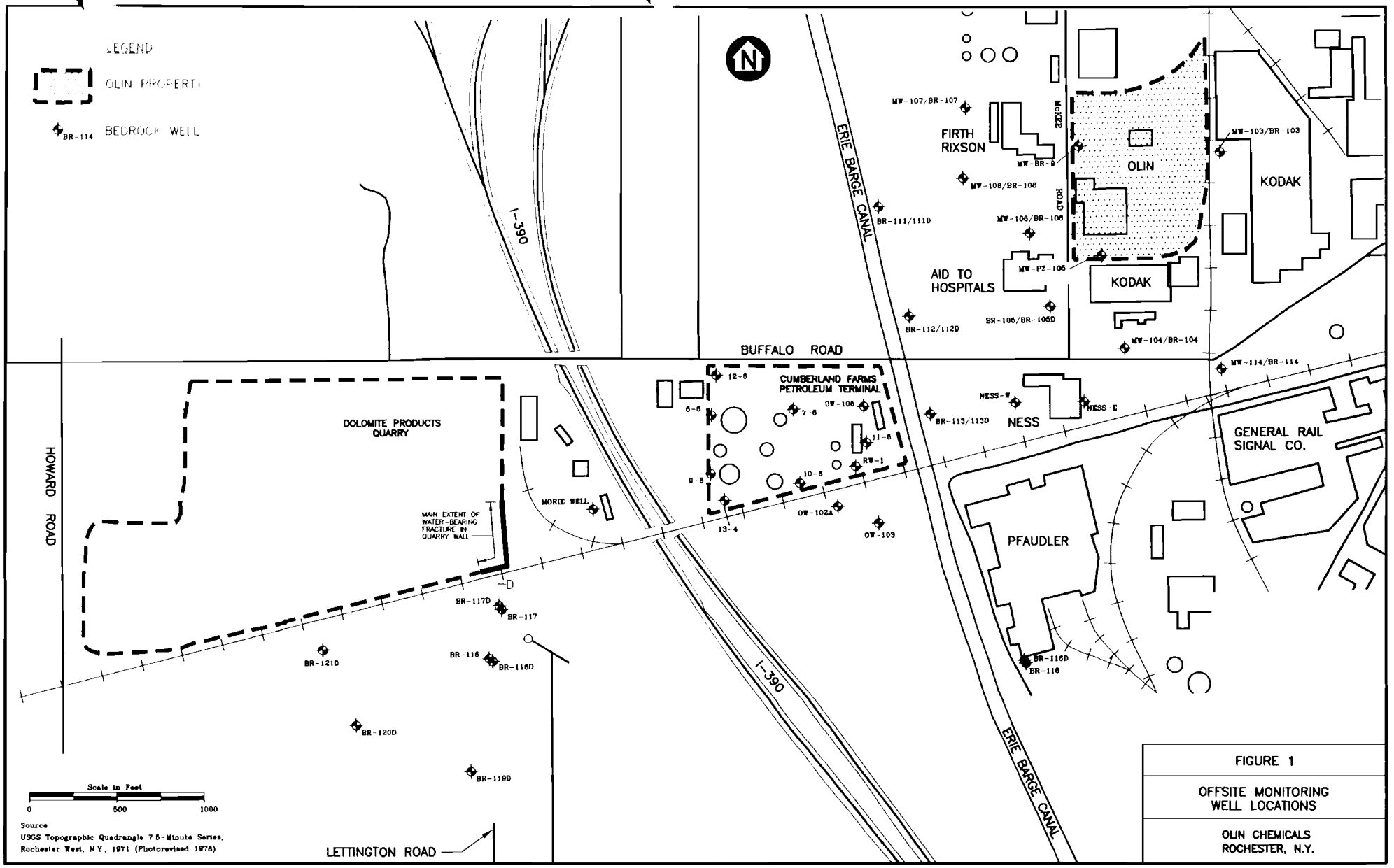


FIGURE 1

OFFSITE MONITORING WELL LOCATIONS

OLIN CHEMICALS
ROCHESTER, N.Y.

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ASEA BROWN BOVERI

# ATTACHMENT 1

# LABORATORY DATA SUMMARY TABLES

Olin Chemicals
Rochester, NY
February 1997 Sampling Event

**Selected Pyridine ASP91 Analysis (ug/L)**

| Sample Location | | BR-116 | BR-116D | BR-117D | BR-118D | BR-119D | BR-119D FD | BR-120D | BR-121D |
|---|---|---|---|---|---|---|---|---|---|
| Lab ID | | A7061902 | A7061903 | A7061904 | A7061905 | A7061906 | A7061906FD | A7061907 | A7061908 |
| Date Sampled | | 2/28/97 | 2/28/97 | 2/28/97 | 2/28/97 | 2/28/97 | 2/28/97 | 2/28/97 | 2/28/97 |
| Type | | FS | FS | FS | FS | FS | FD | FS | FS |
| PARAMETER | RL | | | | | | | | |
| **2,6-Dichloropyridine** | **10** | 10 U | **3 J** | **1 J** | **2 J** | 10 U | 10 UJ | 10 U | 10 U |
| **2-Chloropyridine** | **10** | 10 U | **16** | **76** | **130 D** | 10 U | 10 UJ | 10 U | **1 J** |
| **3-Chloropyridine** | **10** | 10 U | 10 U | **1 J** | **1 J** | 10 U | 10 UJ | 10 U | 10 U |
| **4-Chloropyridine** | **10** | 10 U | 10 U | 10 U | 10 U | 10 U | 10 UJ | 10 U | 10 U |
| **p-Fluoroaniline** | **10** | 10 U | **R** | 10 U | 10 U | 10 U | 10 UJ | 10 U | 10 U |
| **Pyridine** | **10** | 10 U | 10 U | 10 U | **1 J** | 10 U | 10 UJ | 10 U | 10 U |
| Dilution Factor | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

FS = Field Sample
FD = Field Duplicate Sample
RB = Rinse Blank
U = Compound was analyzed for but not detected
J = Estimated value
D = Value obtained from a secondary dilution
ASP91 = 1991 New York State Analytical Services Protocol

Olin Chemicals
Rochester, NY
February 1997 Sampling Event

**Selected Pyridine ASP91 Analysis (ug/L)**

| Sample Location | Bailer Rinse Blank |
|---|---|
| Lab ID | A7061901 |
| Date Sampled | 2/28/97 |
| Type | RB |
| **PARAMETER** | |
| **2,6-Dichloropyridine** | 10 U |
| **2-Chloropyridine** | 10 U |
| **3-Chloropyridine** | 10 U |
| **4-Chloropyridine** | 10 U |
| **p-Fluoroaniline** | 10 U |
| **Pyridine** | 10 U |
| Dilution Factor | 1 |

FS = Field Sample
FD = Field Duplicate Sample
RB = Rinse Blank
U = Compound was analyzed for but no
J = Estimated value
D = Value obtained from a secondary di
ASP91 = 1991 New York State Analytic

ASEA BROWN BOVERI

# ATTACHMENT 2

# CHAIN OF CUSTODY FORMS

# RECRA ENVIRONMENTAL, INC.

CHAIN OF CUSTODY RECORD

PROJECT NO: SAS762

SITE NAME: OLIN - RI WELLS

SAMPLERS (SIGNATURE): J. YOME

| STATION NO | DATE | TIME | COMP | GRAB | STATION LOCATION | NO OF CONTAINERS | PYRIDINE | REMARKS |
|---|---|---|---|---|---|---|---|---|
| 1 | 2-28-97 | 0900 | | ✓ | BAILER BLANK RINSE | 2 | 2 | |
| 2 | | 1025 | | | BR-116 | 2 | 2 | |
| 3 | | 1015 | | | BR-116D | 5 | 5 | MS/MSD |
| 4 | | 1120 | | | BR-117D | 2 | 2 | |
| 5 | | 1108 | | | BR-118D | 2 | 2 | |
| 6 | | 1049 | | | BR-119D | 4 | 4 | FIELD DUP |
| 7 | | 1145 | | | BR-120D | 2 | 2 | |
| 8 | ↓ | 1200 | | ↓ | BR-121D | 2 | 2 | |
| | | | | | | (21) | | |

| RELINQUISHED BY (SIGNATURE) | DATE/TIME | RECEIVED BY (SIGNATURE) | RELINQUISHED BY (SIGNATURE) | DATE/TIME | RECEIVED BY (SIGNATURE) |
|---|---|---|---|---|---|
| | 2-28-97 1500 | D Brean | | | |
| RELINQUISHED BY (SIGNATURE) | DATE/TIME | RECEIVED BY (SIGNATURE) | RELINQUISHED BY (SIGNATURE) | DATE/TIME | RECEIVED BY (SIGNATURE) |
| | | | | | |
| RELINQUISHED BY (SIGNATURE) | DATE/TIME | RECEIVED FOR LABORATORY BY (SIGNATURE) | DATE/TIME | REMARKS | |
| | | | | 6°C | |

Distribution: Original accompanies shipment copy to coordinator field files

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3-5

000038

0619

**Bedrock Wells - Olin Rochester**
**February 1997 Water Level Elevations**

| WELL | Northing | Easting | Water Elevation |
|---|---|---|---|
| BR-1 | 744790 | 1150533 | 530.92 |
| BR-101 | 744667 | 1150160 | 532.14 |
| BR-102 | 744318.5 | 1150209 | 512.72 |
| BR-103 | 745135 | 1150225 | 529.62 |
| BR-104 | 744594 | 1149096 | NA |
| BR-105 | 744174.6 | 1149327 | 511.70 |
| BR-106 | 744046.2 | 1149764 | 510.29 |
| BR-107 | 743671.1 | 1150474 | 514.68 |
| BR-108 | 743660.5 | 1150058 | 511.92 |
| BR-111D | 743206.5 | 1149839 | 502.76 |
| BR-112D | 743367.4 | 1149224 | 502.78 |
| BR-113D | 743457.7 | 1148717 | 502.80 |
| BR-114 | 745138.8 | 1148994 | 524.64 |
| BR-117 | 741024.7 | 1147585 | 518.05 |
| BR-118 | 740953.7 | 1147307 | 525.86 |
| BR-2 | 744818 | 1149860 | 527.77 |
| BR-2A | 744828.1 | 1149853 | 529.54 |
| BR-3 | 744582 | 1149728 | 524.15 |
| BR-4 | 744961 | 1149899 | 532.88 |
| BR-5 | 744962 | 1150215 | 531.61 |
| BR-5A | 744954 | 1150217 | 528.45 |
| BR-6 | 744603 | 1149602 | 523.70 |
| BR-6A | 744583.2 | 1149605 | 522.53 |
| BR-7 | 744322 | 1149662 | 519.15 |
| BR-7A | 744328 | 1149659 | 510.10 |
| BR-8 | 744325 | 1149928 | 530.45 |
| BR-9 | 744318.6 | 1150210 | 511.42 |
| CANAL (Buffalo | 743273.7 | 1149049 | 502.97 |
| NESS-E | 744349.2 | 1148803 | 508.64 |
| NESS-W | 743964.3 | 1148805 | 503.24 |
| OW-101 | 743248 | 1148270 | Not Meas |
| OW-102A | 742952 | 1148185 | Not Meas |
| OW-103 | 743216 | 1148118 | Not Meas |
| PZ-102 | 744225.7 | 1149951 | 526.71 |
| PZ-103 | 744237.7 | 1149791 | 529.39 |
| PZ-104 | 744318.3 | 1149460 | 521.97 |
| PZ-105 | 744448.4 | 1149588 | 524.76 |
| PZ-106 | 744800.6 | 1149711 | 528.83 |
| PZ-107 | 744851.4 | 1149633 | 526.72 |
| CANAL Dummy | 743431.7 | 1148625 | 502.97 |
| CANAL Dummy | 743426.9 | 1148643 | 502.97 |
| CANAL Dummy | (other locations)** | | 502.97 |

** All canal coordinates are not shown.
For the purposes of the CADD model, elevations are assigned along the canal equivalent to the measurement at the Buffalo Road bridge (502.97)

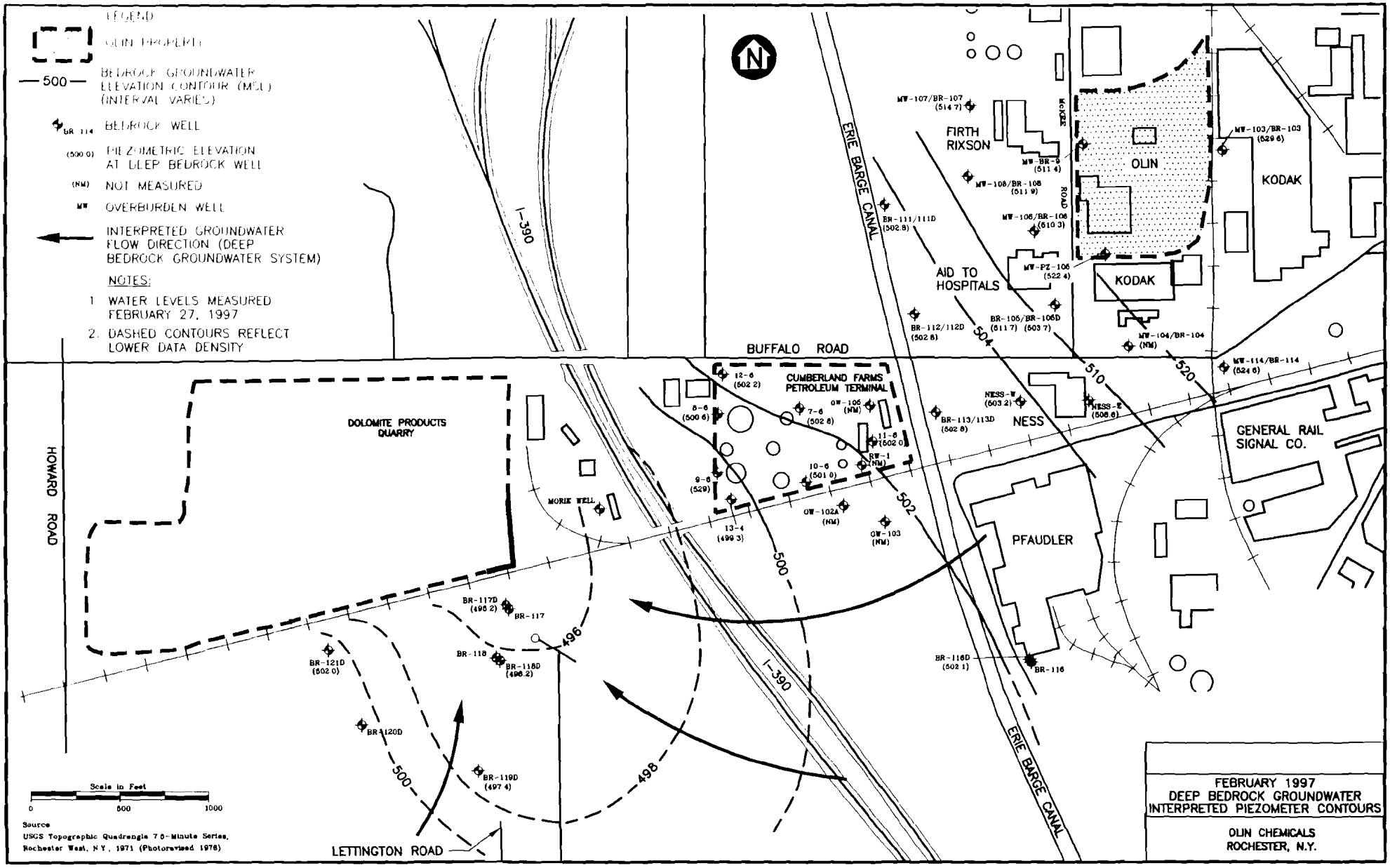
**Deep Bedrock Wells**

| Well | Water Elevation |
|---|---|
| Quarry Property: | |
| BR-117D | 495.17 |
| BR-118D | 496.22 |
| BR-119D | 496.04 |
| BR-120D | 479.07* |
| BR-121D | 501.97 |
| | |
| Morie Well | Not Meas. |
| | |
| Cumberland Farms: | |
| MW 7-6 | 502.82 |
| MW 8-6 | 500.58 |
| MW 9-6 | 529.11 |
| MW 10-6 | 501.04 |
| MW 11-6 | 501.96 |
| MW 12-6 | 502.18 |
| MW 13-4 | 499.34 |
| RW-1 | Not Meas. |
| OW-105 | Not Meas. |
| OW-102A | Not Meas. |
| OW-103 | Not Meas. |
| | |
| Pfaudler: | |
| BR-116D | 502.1 |

* BR-120 has apparently only one micro-fracture and does not reflect true deep bedrock piezometric head.

Overburden Wells - Olin Rochester
February 1997 Water Level Elevations

| WELL | Northing | Easting | Water Elevation |
|---|---|---|---|
| B-1 | 744301 | 1150506 | 530.23 |
| B-10 | 744886 | 1149653 | 530.52 |
| B-11 | 744958 | 1149723 | 533.29 |
| B-12 | 744265 | 1149729 | Not Meas. |
| B-13 | 744317 | 1149648 | Dry |
| B-14 | 744465 | 1149561 | 525.80 |
| B-15 | 744578 | 1149562 | 524.47 |
| B-16 | 744751 | 1149566 | 527.88 |
| B-17 | 744642 | 1149803 | 528.81 |
| B-2 | 744303 | 1150347 | 529.09 |
| B-3 | 744304 | 1150205 | 538.34 |
| B-4 | 744302 | 1150056 | 530.00 |
| B-5 | 744302 | 1149926 | 530.37 |
| B-6 | 744306 | 1149847 | Not Meas. |
| B-7 | 744381 | 1149579 | 524.17 |
| B-8 | 744512 | 1149578 | 524.76 |
| B-9 | 744692 | 1149582 | 527.13 |
| C-1 | 744828 | 1150148 | 530.48 |
| C-2 | 744820 | 1149854 | 529.37 |
| C-2A | 744825 | 1149858 | 529.51 |
| C-3 | 744699 | 1150147 | 532.88 |
| C-4 | 744754 | 1149978 | Dry |
| C-5 | 744579 | 1149734 | 525.20 |
| E-1 | 744965 | 1149750 | 529.92 |
| E-2 | 744968 | 1149924 | 535.12 |
| E-3 | 744962 | 1150203 | 531.61 |
| E-4 | 744961 | 1150392 | Dry |
| E-5 | 744943 | 1150532 | 534.40 |
| EC-1 | 743581 | 1149215 | 522.14 |
| EC-2 | 743457 | 1148725 | Dry |
| MW-103 | 745135.4 | 1150219 | 532.46 |
| MW-104 | 744588.2 | 1149096 | Flooded |
| MW-105 | 744167.1 | 1149328 | 518.19 |
| MW-106 | 744058.3 | 1149766 | 527.39 |
| MW-107 | 743670.1 | 1150479 | 525.62 |
| MW-108 | 743664.2 | 1150066 | 526.11 |
| MW-114 | 745139.1 | 1148999 | 525.96 |
| MW-2 | 744460.2 | 1150564 | 532.70 |
| MW-3 | 744309.1 | 1150636 | 530.83 |
| MW-G6 | 744200.6 | 1150807 | 531.66 |
| MW-G8 | 744005.2 | 1150589 | Destroyed |
| MW-G9 | 743626.2 | 1150701 | 531.91 |
| N-1 | 744797 | 1150534 | 534.71 |
| N-2 | 744863 | 1150532 | 534.07 |
| N-3 | 744537 | 1150522 | 532.97 |
| PZ-101 | 744226.1 | 1150063 | 530.18 |
| PZ-108 | 744967 | 1149660 | 532.51 |
| S-1 | 744465 | 1149578 | 528.70 |
| S-2 | 744584 | 1149579 | 532.34 |
| S-3 | 744759 | 1149597 | 527.34 |
| S-4 | 744907 | 1149680 | 532.86 |
| W-1 | 744301 | 1150498 | 528.68 |
| W-2 | 744304 | 1150251 | 525.43 |
| W-3 | 744307 | 1150142 | 535.01 |
| W-4 | 744308 | 1149987 | 535.93 |
| W-5 | 744304 | 1149730 | 531.36 |
| W-6 | 744313 | 1149578 | 527.05 |

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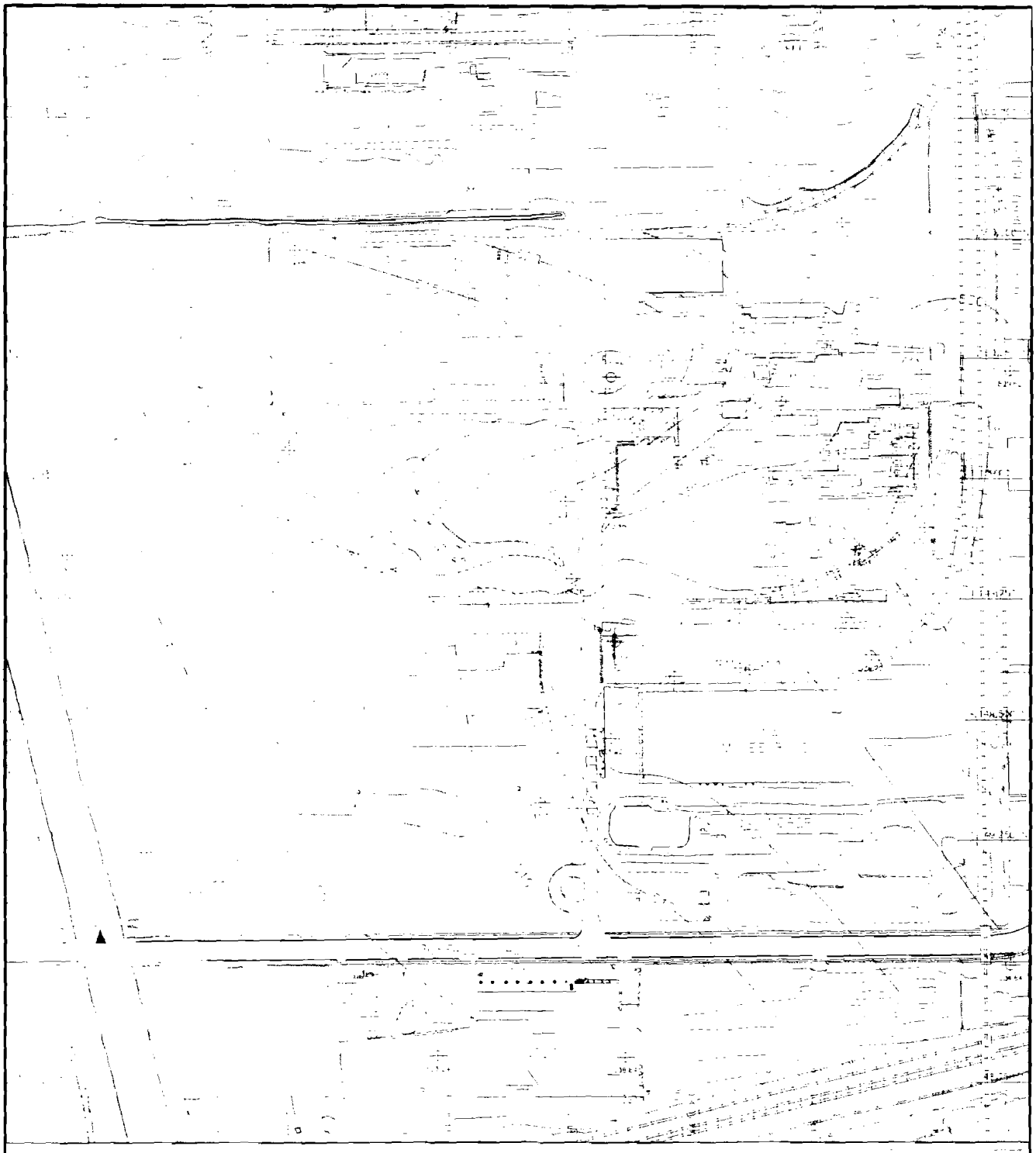
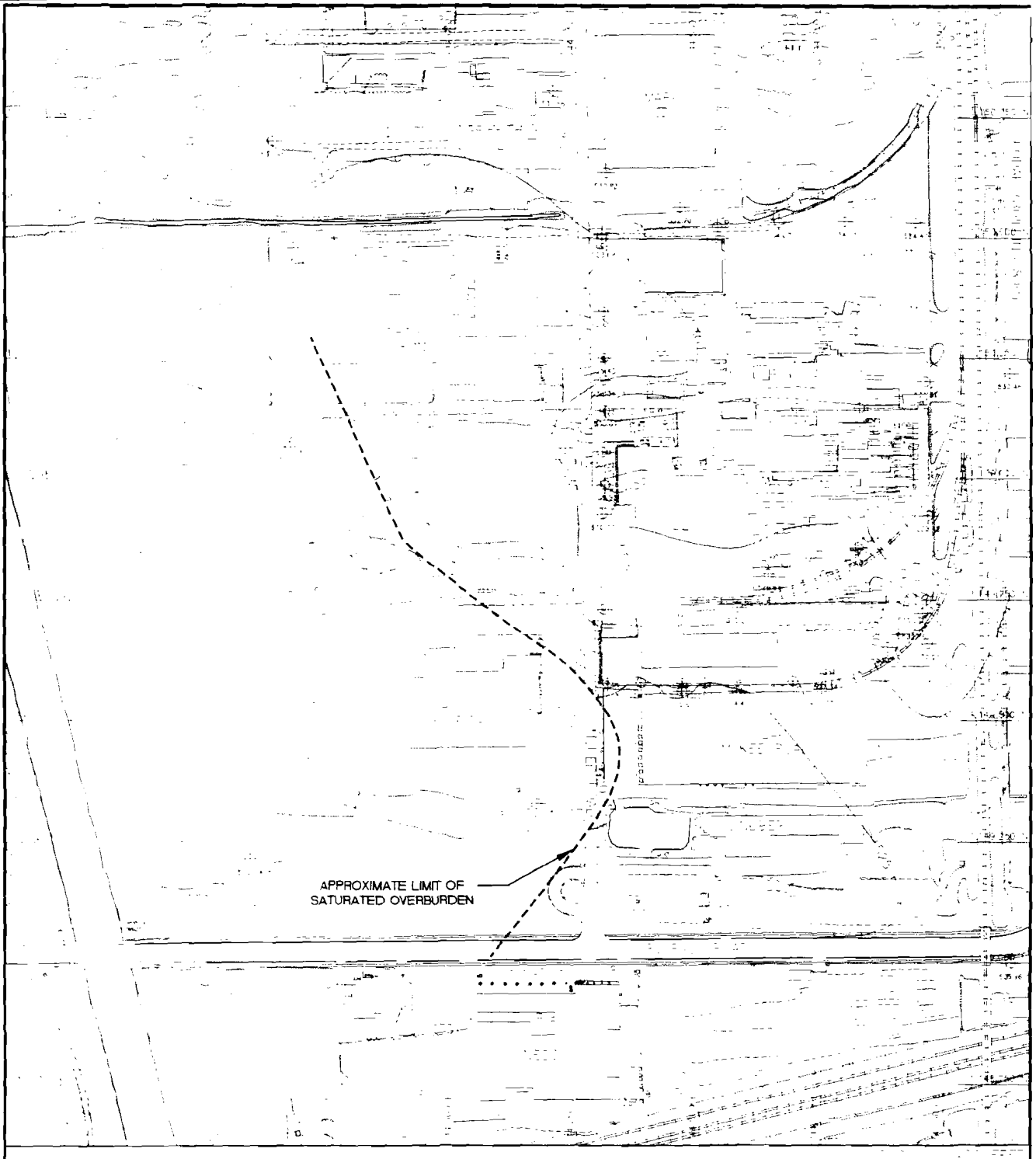


# FEBRUARY 1997
# BEDROCK GROUNDWATER
# INTERPRETED PIEZOMETRIC
# CONTOURS

OLIN CHEMICALS
ROCHESTER, N.Y.




# FEBRUARY 1997
# OVERBURDEN GROUNDWATER
# INTERPRETED PIEZOMETRIC
# CONTOURS

OLIN CHEMICALS
ROCHESTER, N.Y.

Olin ROCHESTER
ECHO
COMMUNITY UPDATE
January 1997

**THEODORE ROOSEVELT SCHOOL NO. 43**
**1305 Lyell Avenue**
**Rochester, New York 14606**

From: Alma Campbell, Principal Theodore Roosevelt School No. 43
Re: Report to the Community Advisory Panel

Four years ago I became the Vice Principal of School No. 43, Rochester, New York. We are very fortunate to have a viable partnership with Olin Chemicals Corporation. During the first year of our partnership, our school became involved with a major grant through the National Science Foundation. Olin Chemicals Corporation was very supportive of this grant. This commitment to us with the implementation of the SSI Grant (Systemic Science Initiative) would provide us with twenty-five scientists paired with a classroom teacher to assist with science academics. The scientists came into our school twice a month. They provided technical assistance in the area of science. The second year I worked at School No. 43, we collaborated to write a grant for $25,000. We received $15,000 for computers for our pre-first and two Kindergarten classes with CD-ROM capability. The students have shown immense growth in language arts and visual/auditory recognition of letter sounds.

During the third year we applied for a second grant for our primary grade classes. This award was for $15,000 to assist in classroom computers. Students and teachers were able to work on interdisciplinary units of study via computer networks. During this same year we applied for the "World Web Contest" an international contest to recognize exemplary schools networking throughout the world on the "Web." Vice-President Al Gore announced through an International Teleconference that School No. 43 was a WINNER.

We beat 10,000 students and over twenty nations in the Historical Landmarks category. To date we have over 5,000 visitors throughout the world click on our Web Page. We are indeed moving forward in the area of "CYBERSPACE" for the next century.


**Members of School 43 receiving a grant from Olin's Plant Manager John Kranjc (front right) and Safety Manager Bill Norman (second right) for computer networks and software.**

This past summer (1996) we were again awarded a third grant from Olin Chemicals in the amount of $23,245 for computer networks and software. Olin has awarded our school moneys in the amount of $68,000 and more to further efforts in the area of science, math and technology. They have also provided the following:

- Staff members participated in our Career Day Program
- Staff employment during the summer (our) employees
- Participation in our Neighborhood Association L.A.R.C. (Lyell Area Revitalization Committee) which fosters community collaboration with businesses on Lyell Avenue where our school is located
- They have provided our school with a Toshiba Lap Top for the Administrative Team
- Participated in the 1996 $E^3$ Engineering Fair

Our school has a poverty level of 79%. Without the assistance of Olin Chemicals Corporation as a valuable partnership in our school, we could not maintain the success level of achievement we have presently. Overall, our school scores are in the 90th percentile nd we are one of the schools in our district that succeed in reaching our goals as a High Achieving School. Presently, I am the 'rincipal of School No. 43 and our relationship with Olin Chemicals will continue in the coming years.

# Kranjc's Korner

***John Kranjc***
**Plant Manager,**
**Olin Rochester**

*Dear Community Member,*

I will be leaving the Rochester Plant after four years here to work in our Charleston, Tennessee Plant. I will go with many good memories of the Plant and Specialty Chemical Business, the people who have worked so hard to make it successfully grow and of the Rochester community itself. Rochester is a great place to work and live in with its many cultural offerings, easy going style and beautiful summers! Of course there are a few winter days that I won't discuss. I will miss this area greatly and hope that my future travels may bring me back through this wonderful community.

Charles Harrison will be taking on the job as Plant Manager. I know he will do a great job and be very successful in his new position.

Now for a brief discussion of the past year. 1996 was an excellent year for production as we set several records needed to meet our rising customer demand for our products. Procter & Gamble continued to take record amounts of product, while our new products sales have begun to contribute significantly to our business profitability. Statistically, the plant had only a mediocre year in safety and environmental performance, although there were no serious injuries or environmental permit non compliances.

We continued to show outstanding performance in our customer service index with excellent results in on-time shipment and quality performance. Both measures were close to 100% of meeting the customer expectations. Our employees hard work and efforts continue to pay off.
A significant accomplishment was the implementation of a new integrated computer data base that goes across every function performed at the Plant — from production reporting to order taking to maintenance to financial accounting. All plant employees were affected and all came through with a super effort to get this massive task planned and started up on time with minimal problems.

With all the above going on, we continued moving forward with our organizational change effort within the plant. Employees being involved in new activities and tasks each month. Their level of involvement and understanding of the Plant and its business continues to improve each day.

1997 no doubt will continue to be a great year for the Plant. I wish all the best for the New Year!

*John Kranjc*

*P.S. Once again we are interested in any community members who would like to become a part of our Community Advisory Panel (CAP). We discuss all the above subjects as well as our on going Remediation Project (an update on the Project is in the newsletter). Most importantly, we discuss the topics that are first and foremost on the minds of our Panel members. Please contact the Plant if you are interested in joining.*

# Groundwater Remediation Activities Continue

The Olin-Rochester Plant is continuing to work on the investigation phase of our Groundwater Remediation project with the New York State Department of Environmental Conservation (NYSDEC). The latest findings of the investigation show that while some contaminated groundwater is moving off the plant site, there continues to be no adverse effects to human health or the local ecology. These findings support the conclusions from the initial results of the study. Previous articles in the ECHO have reported on the extent of groundwater contamination beneath the Plant. We have also reported on the system which collects this groundwater and treats it prior to discharging the clean water to the Monroe County Sewer system.

The constituents identified in the groundwater consist primarily of chlorinated pyridine compounds, which are specific to an Olin manufacturing process. The purpose of our current phase of the study is to determine the extent of groundwater contamination which has moved outside of the Olin property. An important outcome from this phase is to continue updating the evaluation of those results for any potential risk to human health or the environment.

Olin is monitoring the groundwater by sampling wells west of the plant, as well as taking surface water samples from the Erie Barge Canal. The groundwater study has been extended to include testing the groundwater seeps from the Dolomite Products Quarry approximately 3/4 mile southwest of the Plant. Contamination has been detected in seepage along one portion of the Quarry rock wall. This water mixes with other collected water in the Quarry and is then pumped to the Erie Canal as a standard operation. This appears to be a main pathway for the pyridine compounds that are found in the canal.

Upon learning of the pyridine detections in the canal, Olin worked with experts at the NYS Department of Health and with our environmental study consultant to determine whether the detected levels constitute any risk to the public. The consensus of the experts from the NYS Department of Health and Olin's consultant is that there is no risk to the public from the detected chlorinated pyridine levels. The levels of chlorinated pyridine compounds detected in the canal, 10 to 50 micrograms per liter, are well within calculated health risk limits. The health risk limits were calculated using exposure scenarios such as swimming (including incidental ingestion of Canal water) as well as consumption of any fish that may be caught in the canal.

Quarterly sampling has shown that the concentrations of pyridine compounds in the canal vary with the time of year and the Canal

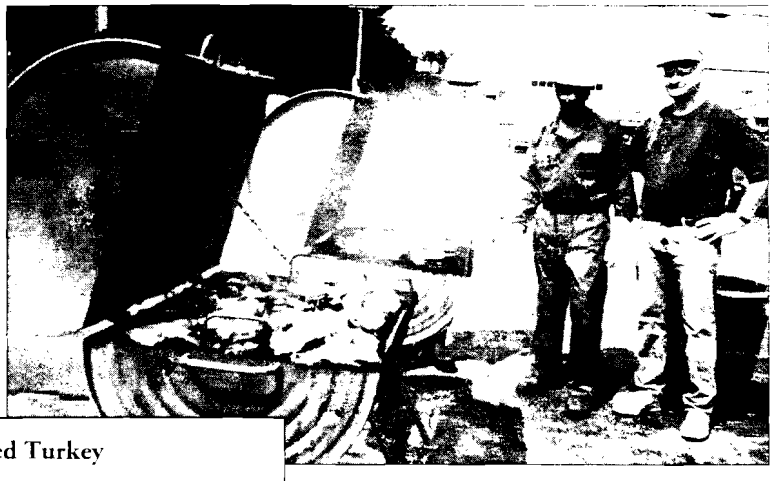
**(Continued on page 4.)**

# 4th Annual Employee Recognition Day A Great Success!

he Staff Team hosted a plant cook-out for all employees. This cele-ation was in recognition for the many outstanding efforts in meeting duction needs and CORE development goals. British Petroleum e. Procter & Gamble acknowledged everyone's contributions that ceeded their expectations. Also, the Customer Oriented Resource nvironment (CORE) development efforts were demonstrated during a ighly successful start-up effort on August 1, 1996. CORE is the Olin nfiguration of the Systems Applications Products (SAP) software.

he Production Planning Process Information (PPPI) system developed by a team of Olin and Andersen Consultant employees is the first system of its type in North America. The CORE client-server systems replaced all legacy systems by starting up on the same day.

Outstanding meal preparation was provided by Bob Gaddis, Dave Hill, Jesse Rowe and John Kranjc. The Staff Team took this opportunity to recognize the Rochester employees in these efforts. The highlight of the cookout was the delicious, moist, deep fried turkeys in a special Cajun recipe, the finger-licking barbecued ribs and grilled chicken. Everyone enjoyed the wonderful food.



### Cajun Fried Turkey

1/4 lb butter

1/2 jar (8 oz) Sweet & Sour sauce (strained)

1 tbsp lemon juice

1/4 cup Tony's Creole Seasoning or any Cajun Spicy seasoning

4 tbsp liquid smoke

1/4 cup soy sauce

1/4 cup red cooking wine

Mix all ingredients and heat until hot (do not boil). Cool slightly and inject sauce into turkey with a large syringe or turkey baster. Makes enough sauce for 4-5 turkeys.

Fry turkey in Peanut Oil at 375° F or 190° C for 3 minutes per pound with enough oil to fully cover turkey. Attach #9 Stainless Steel wire to turkey legs to lower and lift the turkey out of the oil.

# Groundwater Remediation Activities Continue

(Continued from page 2.)

water level. During the winter season, when the Canal water level is low, the levels of pyridine compounds are highest at approximately 50 parts per billion. This amount of pyridine in the Canal water is well within the calculated safe limits of risk threshold at which human health could be affected.

Olin is committed to completing the study and to remediate Olin contaminants detected outside the Plant. We will work with the NYSDEC and NYSDOH to develop and approve the best remedial plan for groundwater in the area outside the Plant boundaries. Meanwhile, we will continue to operate the on site groundwater treatment system continually reviewing and improving the system performance, including the containment, collection and effective treatment of the contaminated groundwater beneath our facility.

# ROCHESTER PLANT QUALITY POLICY

**Our policy is to meet or exceed our customers' quality requirements 100% of the time. We do this through a rigorous quality assurance of all of our processes in compliance with the requirements of the International Quality Standard, ISO 9002.**

Olin ROCHESTER ECHO COMMUNITY UPDATE

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**Charles H. Harrison – Plant Manager**

*Olin is an equal opportunity employer M/F/H/V*

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# Olin Employees Recognized For Extra Efforts

The Recognition and Rewards team would like to update you on the team's efforts to identify Rochester employees for their outstanding achievements and noticeable extra efforts. Several employees were nominated for Level I and Level II awards and two Level III awards were recently given. To date, 241 Level I, 77 Level II and 3 Level III awards have been issued.

***We are proud to recognize the following Level I winners:***

Khoi Do (2)
Craig Zaremba
Duane Janas (2)
Joe Ross (2)
Bill Blake
Ron Fergen (4)
Greg Stokelin
Pat Maiuri
Laura Schmitt
Eileen Maher
John Jardas (2)
Dave Beaty (2)
Jerry Traylor (Doe Run)
Adam Reddick
Mike Thullen
Dan Tolner (3)
Tom Yockel (2)
Ken Wardwell (2)
Tom Reddick
Wes Baker (3)
Jeff Herendeen
Jeff Worthington
Frank DeFilippo (2)
Don Masten (2)
Tom Minich
Bill Laurri
Bill Jenny (2)
Bob Hanes (3)

**THANK YOU!**

Gil Snyder
Bob May
Jason Smith
Dave Van Slyke
Tom Butlin
Doug Turpyn
James Watt
Gary Yockel (2)
Dale Worthington
Walter Toot (2)
Carl Swick
Alecia Welsh (2)
Tom Smith (3)
Mark Bergevin
Ken VanValkenburg
Bruce Davis
Mike Rodwell
Doug Wendl
Les Becker (4)

Don White
Gary Burchell
Vickie Ray
Bob McCracken
Matt Smith
Jill Reddick
Faith VanVolkenburgh
Bob Gaddis
Rick Smith
John White (2)
Chris Videan (2)
Tom Fasso
Dave Hill (2)
Denise Omoregie
Joe Chmiel
Carl Smith (2)
Wayne Jackson
Mark Hafner
Mike Casey
Craig Blake
Kevin Foley
Jesse Rowe
Paul Baker
Greg Anderson
Ray Poole
Laurie Wells
Mark Palmesano
Steve Cuthbert
Felipe Ortiz
Joanne Covert

***We are proud to recognize the following Level II winners:***

**Bill Jenny** discovered and fixed a major design problem with the main chlorinator controller.

**Walter Toot** displayed exemplary coordination of the United Way Campaign at the Rochester plant.

**Dean Phelps** displayed exemplary effort in taking responsibility for improving plant utility systems.

**Faith VanVolkenburgh** expressed an idea to build a dike wall and sump pit to alleviate the FPS clean-up and possible excursions.

*(Continued on back)*

# Olin Employees Recognized For Extra Efforts

**Jill Turpyn** received an award for his exemplary coordination of ontract firms during construction of the Larox filter.

**teve Dyer** produced 4 precips during his 12 hour shift at a time hen SP production was so crucial.

**)uane Janas** was recognized for his extraordinary effort to ensure iat the plant did not run out of Sodium Metabisulfite.

**.evin Hafner** used RB-14 as another precipitator to save 4 hours er batch of SP.

**)e Chmiel** noticed and rectified a safety concern with the design f the new warehouse.

**like Thullen** represented the Rochester Plant in a professional ianner and exhibited outstanding teamwork skills (for the good f the company) while in Doe Run working on the 2PCl CAR.

**)awn Becker** continually goes above and beyond normal performance expectations and completes many of the extra things that ie does on her own time.

**:athy Dinkle** went above and beyond normal performance spectations to check and correct all employee information when ianging over to PeopleSoft computer program.

**)ave Hill** successfully implemented a modification to RA14 that iminates the use of drums saving operator effort and possible verflows.

**iil Snyder** discovered and corrected a potential safety hazard hen replacing the hot oil pump motor near RA05 which was ot explosion proof. He displayed extraordinary effort to find id install the new motor and therefore avoid a potential icident.


**Bill Blake** solved a 2-day delay in chlorination operation. He remembered an overlooked detail of the column internals, investigated, found, and repaired preventing further downtime.

**Tom Reddick** discovered a weigh scale to be off. He took the initiative to re-check previously drummed out 2422 and found the last 9 were short by 100 pounds. This would have resulted in undercharging RA01 and possible short shipping the customer and in turn a customer complaint.

**John White's** investigation of our Zinc non-compliance resulted in the determination of the source of the contamination.

**Doug Wendl** maintained all loose ends surrounding P&G orders and ensured that the shipments were made on time.

**Kathy Usselman** coordinated and acted as primary planner for the remodeling of the Ladies Room.

**Mark Peterson** and **John Jardas** both displayed extraordinary effort to cover the Biocides bench for 6 hours due to a manpower shortage in the lab.

**Tom Yockel, Steve Cuthbert** and **Dan Tolner** took the initiative to investigate and fix a venting problem with TB-24.

**Dave Murphy** and **Mark Jock** did an excellent job in modify DA-02 dryer piping.

**Mark Bergevin** solved the problem with "hammering" water lines.

**George Loveland** and **Mike Nowak** displayed extraordinary initiative and effort in creating a plant Training Manual.

***We are proud to recognize the following Level III winners:***

**Dave Hill** used his extensive knowledge of the Wayfos M-60 process to increase production to over 100 M pounds per month. This increase in production not only enables us to meet our customers demands, but also keep Wayfos M-60 in Rochester rather than moving it to another Olin Plant.

**Jeff Worthington's** idea and follow through resulted in a one-half hour reduction in cycle time on Plant Stream. Not only did Jeff come up with the idea, but he also implemented it and continues to follow-up with the other operators. His dedication and perseverance will result in an additional 66,000 pounds of Plant Stream per year.

***Congratulations to all these employees.***
***Keep up the good work!***