

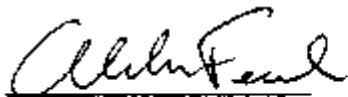
Five-Year Review Report

**Second Five-Year Review Report
for
Hranica Landfill Superfund Site
Buffalo Township
Butler County, Pennsylvania**

April 2002

PREPARED BY:

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4/26/02
Date

**U.S. Environmental Protection Agency
Region III
Hazardous Waste Management Division
Five-Year Review (Type I)
Hranica Landfill (Buffalo Township, Pennsylvania)**

I. Introduction

The purpose of the five-year review is to determine whether the remedy at a site is protective of human health and the environment. The methods, findings, and conclusions of reviews are documented in Five-Year Review reports. In addition, Five-Year Review reports identify issues found during the review, if any, and identify recommendations to address them.

The Agency is preparing this Five-Year Review report pursuant to CERCLA §121 and the National Contingency Plan (NCP). CERCLA §121 states:

If the President selects a remedial action that results in any hazardous substances, pollutants, or contaminants remaining at the site, the President shall review such remedial action no less than each five years after the initiation of such remedial action to assure that human health and the environment are being protected by the remedial action being implemented. In addition, if upon such review it is the judgement of the President that action is appropriate at such site in accordance with section [104] or [106], the President shall take or require such action. The President shall report to the Congress a list of facilities for which such review is required, the results of all such reviews, and any actions taken as a result of such reviews.

The Agency interpreted this requirement further in the NCP; 40 CFR §300.430(f)(4)(ii) states:

If a remedial action is selected that results in hazardous substances, pollutants, or contaminants remaining at the site above levels that allow for unlimited use and unrestricted exposure, the lead agency shall review such action no less often than every five years after the initiation of the selected remedial action.

The United States Environmental Protection Agency (EPA), Region 3, conducted the five-year review of the remedy implemented at the Hranica Superfund Site in Butler County, Pennsylvania. This review was conducted by the Remedial Project Manager (RPM) for the entire site from January 2002 through March 2002. This report documents the results of the review.

This is the second five-year review for the Hranica Landfill Superfund Site.

The triggering action for this statutory review is the first five-year review date shown in EPA's Wastelan database: 4/16/1997. The five-year review is required due to the fact that hazardous substances, pollutants, or contaminants remain at the site above levels that allow for unlimited use and unrestricted exposure and to assess whether the ground water at the Site poses an unacceptable risk.

II. Site Chronology

Table 1 lists the chronology of events for the Hranica Landfill site.

Table 1: Chronology of Site Events

| Date | Event |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1966-1974 | Joseph and William Hranica owned and operated the facility which accepted both municipal and industrial wastes |
| 1981 | EPA performed Site Inspection. |
| 1982 | EPA calculated Hazard Ranking System Score. |
| 1982 | Site proposed for the National Priorities List (NPL). |
| 1983 | Site listed on the NPL., removal action with the ultimate disposal of more than 19,000 drums of hazardous waste and over 4,000 cubic yards of visibly contaminated soil. |
| 1990 | EPA completed the Remedial Investigation/Feasibility Study (RI/FS). |
| 1990 | EPA signed the Record of Decision for Operable Unit #1, which addressed the remaining contaminated soils onsite. All soils with lead above 300 ppm were covered with a two foot soil cover. |
| 1993 | The final design for OU1 was approved by EPA |
| 1993 | The Remedial Action for OU1 was completed |

| Date | Event |
|------|-----------------------------------------------------------------------------------------------------|
| 1994 | Long Term Ground Water Monitoring began |
| 1997 | The EPA completed the First Five Year Review and deleted the site from the National Priorities List |
| 1997 | A new owner bought the Hranica property via sheriff's sale by paying the overdue property taxes |

III. Background

Physical Characteristics

The Hranica Landfill comprises 15 acres, and is located in a rural area approximately 21 miles north of Pittsburgh in Buffalo Township, Butler County, Pennsylvania. Approximately thirty years ago, the Site was used as a landfill, drum disposal area, and incineration facility. The Site is surrounded by orchards, corn fields, and wooded areas. Buffalo Township covers 23.9 square miles and has a population of approximately 6,600 people (See Figure 1).

Land and Resource Use

Between 1966 and 1974, Joseph and William Hranica owned and operated the facility, which accepted both municipal and industrial wastes. Initially, the wastes were treated by a combination of open incineration and surface impoundment storage. Subsequently, liquid wastes were disposed of by direct discharge into surface impoundments with resultant ground surface and soil cover infiltration. Site-related compounds, including benzene, xylene and toluene, contaminated an adjacent property owner's spring. The Site never had any buildings or heavy equipment to properly house and manage the waste drums, and the hazardous waste drums were stacked haphazardly across the Site property. The site itself is currently fenced with a locked gate. A five-acre soil cover has been placed over the former disposal area and adjoining hillside.

The groundwater at the Site exists in three aquifers contained in three different geological units: the shallow Morgantown Sandstone aquifer is 15ft to 60 ft thick (unlikely to be used as a residential water supply); the

Birmingham Shale/Pittsburgh Red Beds layer which is a semi-confined 70 ft layer flowing toward Little Bull Creek (unlikely to be used as a water supply source); and the Saltsburg/Buffalo Sandstone is a confined aquifer at a depth of 180 ft which flows to the southeast discharging to the Allegheny River. This last aquifer provides ground water to offsite residential wells that are not served by local water authorities.

History of Contamination

The Hranica Landfill was a privately owned landfill operated from 1966 to 1974 and received both municipal and hazardous waste. By 1981, the site contained over 19,200 drums and other larger vessels of waste composed of solvents, paint pigments, and metal sludges. The ground water and soil were contaminated with heavy metals and volatile organic compounds (VOCs) from the former site operations. Surface water was also contaminated with VOCs. In addition to the above contaminants, the soil and surface water also were contaminated with polychlorinated biphenyls (PCBs) and phenols. The landfill operators practiced a combination of open incineration and surface impoundment storage of the wastes. Subsequently, liquid wastes were disposed of by direct discharge into surface impoundments with resultant ground surface and soil cover infiltration. Site-related compounds including benzene, xylene, and toluene contaminated an adjacent property owner's spring.

Initial Response

The Site was proposed for the National Priorities List (NPL) on December 30, 1982 and finalized on the NPL on September 8, 1983. It was listed as #123 out of 418 sites on the NPL at that time, with a Hazard Ranking Score of 51.94 on a scale from 0 to 100. Soon after the Site's inclusion on the NPL, the Aluminum Company of America (ALCOA) and PPG Industries, Inc. (PPG), which were the two main generators of waste at the Site, signed a Consent Agreement with the Pennsylvania Department of Environmental Resources (PADER), now the Pennsylvania Department of Environmental Protection (PADEP), to perform extensive removal activities at the Site. These activities were performed from October 1983 until July 1984, and involved the removal and ultimate disposal of more than 19,000 drums of hazardous waste and over 4,000 cubic yards of visibly-contaminated soil. Three large vats of waste were also removed from the Site as part of this removal action. These activities essentially removed the entire source of contamination from the Site. However, there were still soils remaining onsite which were contaminated with site-related compounds.

In March 1987, EPA and PPG entered into a Consent Order requiring PPG to perform a Remedial Investigation and Feasibility Study (RI/FS) at the Site. After performing the necessary field work to determine the nature and extent of contamination at the Site, PPG submitted the Draft RI/FS to EPA and PADER in September 1989. The final Feasibility Study Report was submitted in May 1990. In May 1990, the Proposed Plan identifying EPA's preferred remedy was presented to the public, starting the period for public comment.

Basis for Taking Action

Contaminants

Hazardous substances that have been released at the Site in each media include:

Ground Water

Organics

Benzene
4-methyl-2-pentanone
2-Butanone
Acetone

Inorganics

Cadmium
Chromium
Lead
Beryllium
Nickel

Soil Gas

Organics

Benzene
Toluene
Xylenes

Soil

Organics

Toluene
Xylenes (total)
Tetrachoroethylene
Trichloroethylene
1,1,1-Trichloroethane
Naphthalene
Bis (2-ethylhexyl) phthalate
Polychlorinated Biphenyls

Inorganics

Antimony
Arsenic
Barium
Cadmium
Chromium
Lead
Manganese
Mercury
Nickel

Selenium
Zinc
Cyanide

The results of the estimated excess lifetime cancer risks and noncarcinogenic hazard indices, as reported in the Remedial Investigation Report, indicate that the primary adverse health risk posed by the Hranica Landfill Site was due to ingestion and dermal contact with the ash pile area soils for either an adult or child trespasser. Risk estimates for offsite

exposure to ground water from the deep aquifer and exposures to soil gas indicated acceptable risks to human health. Cancer risks for exposure to the non-ash pile areas slightly exceeded the target risk of 1E-6, but they were still within the EPA recommended guidelines. Thus, it was the Hazard Index that justified a remedial action at this Site, not the cancer risk.

Due to the possibility of exposure to multiple media, the risk estimates were summed for the several environmental media identified in the Remedial Investigation Report. Two risk characteristics were evaluated including exposure to all media except the non-ash pile area soils. The results of this evaluation, presented in Table 3 of the 1990 ROD, indicated that the only significant health hazard posed by the Hranica Landfill Site was due to exposure to the ash pile area soils. EPA determined that actual or threatened releases of hazardous substances from this Site, if not addressed by implementing the response action selected in the ROD, could present an imminent and substantial endangerment to public health, welfare, or the environment.

IV. Remedial Actions

Remedy Selection

The Site has been divided into two operable units:

Operable Unit #1 (OU1) consisted of the onsite soils which had concentrations of lead at 300 parts per million (ppm) or greater. The Site specific background lead level range is from 9-299 ppm. OU1 consisted of the soils where the lead concentration was determined to be above the background range. The soil areas defined by OU1 posed a threat to human health and the environment prior to the remedial action in 1993 because of the risks associated with dermal contact or ingestion of these soils. The purpose of the OU1 Remedial Action was to prevent incidental dermal contact with, or ingestion of, contaminated soils.

Operable Unit #2 (OU2) is the onsite and offsite ground water. A ground water verification study was conducted to determine if any remediation of this operable unit was required. A focused Risk Assessment of the ground water data was then done to determine if the ground water beneath, or adjacent to the Site posed a threat to human health or the environment.

A Record of Decision (ROD) for Operable Unit #1 (OU1), which addressed the remaining contaminated soils onsite, was signed on June 29, 1990. A No Further Action ROD for the ground water portion of the Site, OU2, was

signed on May 26, 1994.

Source Control Response Objectives

- Minimize the migration of contaminants from the property soils that could degrade groundwater and air quality;
- Reduce risks to human health by preventing direct contact with, and ingestion of contaminants in the property soils, and by preventing the potential ingestion of contaminated groundwater;
- Reduce risks to the environment by preventing direct contact with, and ingestion of, contaminants in the property soil gas; and
- Minimize the migration of contaminants from property soils that could result in surface water concentrations in excess of Ambient Water Quality Criteria.

Management of Migration Response Objectives

- Eliminate or minimize the threat posed to human health and the environment by preventing exposure to groundwater contaminants;
- Prevent further migration of groundwater contamination beyond its current extent; and
- Restore contaminated groundwater to Federal and State applicable or relevant and appropriate requirements (ARARs), including drinking water standards, and to a level that is protective of human health and the environment within a reasonable period of time.

The major components of the source control remedy selected in the ROD for OU1 include the following:

1. Capping the remaining contaminated soils onsite with a two foot thick soil cover which encompassed five acres, revegetation of the cover, and long term monitoring of the cover for erosion and settlement damage.
2. The installation of an eight foot fence with a locked gate around the entire perimeter of the Site to prevent any trespassers from gaining access to the property.
3. Institutional controls to prohibit development of wells at the Site for use

as drinking water, bathing water, or other domestic uses that would expose people or animals to the ground water; excavation or drilling of any type which may disturb areas of cover placement or reconstruction (with the exception of any characterizations which may become necessary); use of the Site that may permit contact with soils determined by the endangerment assessment to present a potentially unacceptable health risk; and use of the Site that would allow free public access.

4. Long term monitoring of ground water, surface water, and on site and off site monitoring wells and residential wells.

The major components of the management of migration remedy selected in the ROD for OU2 include:

1. The conduct of a ground water verification study in which onsite monitoring wells, surface water, and offsite residential wells were to be sampled for four consecutive quarters to evaluate a long-term ground water monitoring program.
2. A ground water monitoring program on the Hranica Site with collection of samples of onsite (See Figure 2) and adjacent offsite monitoring wells, surface water and offsite residential wells twice a year (This was reduced to once a year beginning in 1997).
3. Use of monitoring natural attenuation (MNA) to achieve groundwater cleanup levels.
4. Five Year Site reviews to assess site conditions, contaminant distributions, and any associated site hazards.

Remedy Implementation

ALCOA and PPG conducted the site remedial action. IT Corporation was hired by ALCOA and PPG to do the Remedial Design for OU1 at this Site. The final remedial design for OU1 was approved by EPA on March 17, 1993. ERM-Enviroclean was hired to do the Remedial Action. The Remedial Action began in June 1993, and was completed in October 1993. About 3,000 truckloads of clean soil were placed onsite during the Remedial Action. A five-acre soil cover was placed on the former drum disposal area and the adjoining hillside. This soil cover was also graded and seeded. The site achieved construction completion status when the Preliminary Close Out Report was signed on May 26, 1994. A site inspection in October 1996 by the EPA Remedial Project Manager.

revealed that the entire soil cover was vegetated, and there were no barren areas remaining onsite. The Site was found to be completely fenced with a locked entrance gate. However, the institutional controls required by the ROD were not, and have not been implemented to date.

EPA and the State have determined that the RA construction activities are not complete because it was found that the institutional controls prohibiting future development, prohibiting potable use of site ground water, and limiting unauthorized access to the Site were not implemented. The EPA could not find any record of the institutional controls ever having been filed with the deed for the Hranica property at the Butler County Courthouse.

Chester Engineers (Chester) was hired by PPG in 1994 to perform the long-term ground water monitoring at the Site. This ground water sampling is an important part of the operation and maintenance at the Site. Chester sampled a number of locations, both on- and offsite, in the Spring and Fall of each year until 1996. From 1997 groundwater samples were collected once a year. In 2001 Cummings Riter Consultants took over the annual ground water sampling program. PPG submits quarterly progress reports to EPA and PADEP describing the Site's condition and detailing any upcoming sampling at the Site. A separate report is submitted by Cummings Riter Consultants describing the actual sampling results. It is expected that cleanup levels for all groundwater contaminants will have been reached within approximately thirty years. After groundwater cleanup levels have been met, EPA will issue a Final Close Out Report.

System Operation/Operation and Maintenance

Cummings/Riter Consultants, Inc. (Cummings/Riter) was retained by PPG Industries (PPG) to perform long term groundwater monitoring and post-closure inspection and maintenance at the Hranica Landfill Superfund Site to check that the fence and soil cover have not been disturbed in any way. Cummings/Riter collects samples annually and PPG submits quarterly progress reports to EPA and PADEP describing the Site's condition and detailing any upcoming sampling at the Site. A separate report is submitted describing the actual sampling results. These activities are being conducted in accordance with the LongTerm Groundwater Monitoring/Sampling Plan (LTGMS Plan) prepared by IT Corporation, dated August 1993 and the Post-Closure Inspection and Maintenance Plan. The primary activities associated with O & M include the following:

- Visual inspection of the cap with regard to the condition of the

vegetative cover, stability and any need for corrective action.

- Inspection of drainage swales with regard to any erosion or blockage and any subsequent corrective action.
- Inspection of the condition of groundwater monitoring wells
- Annual monitoring of groundwater including onsite and offsite monitoring wells, and residential wells and the obtaining of surface water samples.

The primary cleanup of the Hranica Superfund Site involved a five-acre soil cover which was placed on the former drum disposal area and the adjoining hillside. This soil cover was graded and seeded. The other component of the cleanup is the natural attenuation of groundwater. The source of groundwater contamination has been removed. The primary O&M activities have been geared towards monitoring groundwater onsite and adjacent to the site, inspections and maintenance of the cap and fence around the site and the monitoring of residential wells and surface water.

O & M costs include cap and drainage structure maintenance, sampling and monitoring efforts, and monitoring well maintenance. The cost for O & M has decreased due to the reduction of groundwater monitoring from twice a year to once a year after five years because there was no significant difference between the levels of the contaminants in the groundwater samples whether obtained twice a year or once a year.

V. Progress Since the Last Five-Year Review

This is the second Five Year Review for the Hranica Landfill Superfund Site. The first Five Year Review was completed on April 16, 1997. The recommendations from the first Five Year Review included that ground water monitoring should be reduced from twice a year to once a year and surface water samples should be analyzed for metals not organics because no organic compounds had been detected in any surface water samples during the post-closure period. The first Five-Year Review also recommended that EPA should initiate the NPL deletion process for the Site after the First Five-Year Review was completed.

The follow-up actions from the recommendations from the First Five-Year Review include a reduction in the ground water monitoring from twice a year to once a year. Also the analysis of surface water for organic compounds was eliminated since no Site related organic compounds were

found in surface water post closure. The EPA deleted the Hranica Superfund Site from the National Priorities List on September 18, 1997.

In the first Five Year Review it was stated that the institutional controls were attached to the property deed in the Butler County Courthouse in Butler, Pennsylvania. The institutional controls were to prohibit the following: development of onsite wells for drinking water, bathing water, or other domestic uses; excavation or drilling which may disturb covered or reconstructed areas, except when future characterizations become necessary; and use of the Site that may permit contact with soils that may present a potential health risk. However, EPA has subsequently found that the institutional controls were never attached to the deed. There was also unpaid property tax on the Hranica Superfund Site. The County sold the site at a county tax sale to Mr. Warren Capenos. Mr. Capenos is not, however, formally recorded as the new owner of the property.

VI. Five-Year Review Process

Administrative Components

Members of the Community in Butler County, and Responsible Parties including PPG Industries, and Aluminum Company of America (ALCOA) industry, and Cummings/Riter Consultants Inc., (Cummings/Riter, the contractor performing long term groundwater monitoring and post-closure inspection and maintenance at the Hranica Landfill), the new owner of the Hranica Landfill Superfund Site (Mr. Warren Capenos) and PADEP were notified of the initiation of the five-year review on January 1, 2002. The Hranica Five Year Review Team was led by Rashmi Mathur of EPA, Remedial Project Manager (RPM) for the Hranica Landfill Site, Mary Gregory, the Office Manager of EPA's Western Pa Section and the Project Officer from PADEP, Mr. Jim Weaver.

From January 1, 2002 to April 15, 2002, the review team established the review schedule which included:

- Community Involvement;
- Document Review;
- Data Compilation and Review;
- Site Inspection;
- Checking to see if the institutional controls are attached to the Hranica Landfill Property Deed;
- Local Interviews; and
- Five-Year Review Report Development and Review

Community Involvement

Activities to involve the community in the five-year review were initiated by interviewing residents adjacent to the Hranica Landfill Superfund Site.

During the interviews, representatives of EPA summarized the findings of the Five-Year Inspection at the Hranica Landfill Site and asked for any input on concerns or the protectiveness of the remedy. None of the residents expressed any concerns over the protectiveness of the remedy.

Following signature on this Five-Year Review document, a notice will be sent to a local newspaper announcing that the Five-Year Review report for the Hranica Landfill Superfund Site is complete, and that the results of the review and the report are available to the public at the Buffalo Township Municipal Building.

Document Review

This five-year review consisted of a review of relevant documents including the two Records of Decision, the two Consent Decrees, the first Five-Year Review, O & M records and monitoring data (See Table 1). Applicable groundwater cleanup standards, as listed in the 1994 Record of Decision for OU2, were also reviewed.

Data Review

Groundwater Monitoring

Groundwater monitoring has been conducted at the Hranica Landfill Site since 1992. In general, most contaminants were detected at their highest levels early in the Removal/Remedial history of the site. These high contaminant levels were followed by a reduction in contaminant levels. The drop in contaminant levels may have been the result of removal activities eliminating significant amount of source material, and the capping of the residual contamination in the soil.

The evaluation of the natural attenuation processes at the site was achieved by evaluating four indicators that are recommended in the EPA guidance document titled Use of Monitored Natural Attenuation on Superfund, RCRA Corrective Action, and Underground Storage Tank Sites for evaluating the performance of the MNA remedy. The four indicators

are:

- Demonstrate that natural attenuation is occurring according to expectations;
- Detect changes in environmental conditions that may reduce the efficacy of the natural attenuation processes;
- Identify any potentially toxic or mobile transformation products;
- Verify that the plume is not expanding either down gradient, laterally, or vertically.

Since the removal action completion in July 1984, which involved the removal and ultimate disposal of more than 19,000 drums of hazardous waste and over 4,000 cubic yards of visibly-contaminated soil, and the remedial action completion in October 1993 in which about 3,000 truckloads of clean soil were placed onsite in a five-acre soil cover, recent groundwater monitoring, with the exception of monitor well 3-S has shown limited, if any, traces of organic contamination in the ground water. None of the monitoring wells showed any significant amount of metals in the groundwater. The only well which shows any significant organic contamination, above the cleanup level is 3-S located in the shallow aquifer down gradient of the disposal area. The monitoring wells with elevated organics have also exhibited an elevation of the concentration of manganese. This elevated manganese may be a byproduct of anaerobic metabolic processes. Even in the 3S monitoring well there is a decreasing trend of organics from the last Five-Year Review. The deeper aquifers beneath well 3-S are not showing any significant amounts of organic contamination. The monitoring reports indicate that the groundwater attenuation process conceptualized in the ROD is proceeding essentially as expected (See Table 1).

No potentially toxic or mobile transformation products have been identified during subsequent sampling events that were not already present at the time of the ROD. The groundwater monitoring data show that the contaminant plume is not migrating.

Surface Water and Residential Well Monitoring

Annual monitoring of residential wells and surface water samples from the nearby springs found that all levels of contaminants of concern were below detection limits.

Site Inspection

Inspections at the site were conducted on March 18 and 19,

2002, by the EPA RPM (Rashmi Mathur), EPA observer (Mary Gregory), and PADEP Representative (Jim Weaver). The other parties present were the new owner of the Hranica property (Mr. Warren Capenos), the responsible party representative from PPG Industry (Mr. Thomas Ebbert), and the Cummings Riter representative conducting groundwater monitoring (Matt Valentine). The purpose of the inspection was to assess the protectiveness of the remedy, including the presence of a fence with a locked gate to restrict access, the integrity of the cap and the integrity of the monitoring wells.

No significant issues have been identified at any time regarding the cap, the drainage structures, the fence or locked gate and the monitoring wells. The cap and the surrounding area were vegetated and undisturbed and no new uses of groundwater were evident.

In the first Five Year Review it was stated that the institutional controls were attached to the property deed in the Butler County Courthouse in Butler, Pennsylvania. The institutional controls were to prohibit the following: development of onsite wells for drinking water, bathing water, or other domestic uses; excavation or drilling which may disturb covered or reconstructed areas, except when future characterizations become necessary; and use of the Site that may permit contact with soils that may present a potential health risk.

On March 19, 2002, EPA and PADEP checked to see if the institutional controls were attached to the Hranica property deed at the Butler County Courthouse. It was found that the institutional controls were never attached to the deed. There was also unpaid property tax on the Hranica Superfund Site. The County sold the site at a county tax sale to Mr. Warren Capenos. Mr. Capenos did not file as the new owner of the property.

Interviews

Interviews were conducted with various parties connected to the site. All residents living near the Hranica Superfund Site were contacted and updated in regards to the five-year review. The residents expressed no significant problems regarding the site. A gas station near the Hranica Site was contacted and none of the attendants had any concerns regarding the Hranica Site.

VII. Technical Assessment

Question A: Is the remedy functioning as intended by the decision documents?

The review of documents, ARARs, risk assumptions, and the result of the site inspection and evaluation of the institutional controls indicates that with the exception of the institutional controls on the Hranica Landfill, the remedy is functioning as intended by the RODs for OU1 and OU2. The capping of contaminated soils has achieved the remedial objectives to minimize the migration of contaminants to groundwater and surface water and prevent direct contact, or ingestion of contaminants in soil.

The fence and locked gate are in good condition and are keeping trespassers off the Site.

Operation and maintenance of the cap and drainage swales has been effective. The O & M annual costs have gone down since the last five year review because ground water monitoring has been decreased from twice to once a year and some of the offsite wells and surface water sampling was reduced because there were no site related contaminants.

There were no opportunities for system optimization observed during this review. The monitoring well network provides sufficient data to examine the progress of natural attenuation, and maintenance on the cap is sufficient to maintain it's integrity.

The institutional controls were not attached to the Hranica property deed at the Butler County Courthouse. The institutional controls were to prohibit the following: development of onsite wells for drinking water, bathing water, or other domestic uses; excavation or drilling which may disturb covered or reconstructed areas, except when future characterizations become necessary; and use of the Site that may permit contact with soils that may present a potential health risk. The remedy is not protective because the institutional controls are not in place to inform any subsequent land owner of the prohibitions of the land and water use Hranica Landfill Site.

Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives (RAOs) used at the time of the remedy selection still valid?

The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy selection are still valid.

Changes in Standards and To Be Considered

As the remedial work has been completed, most ARARs for soil contamination cited in the ROD for OU1 have been met with regard to the

OU1 remedy include: Appropriate Control of Fugitive Dust Emissions was an important ARAR during the Remedial Action. The access road and the landfill itself were periodically sprayed with water from hand-held hoses to control fugitive dust emissions as the soil cover was being placed and compacted. RCRA Landfill Post-Closure Care, 40 C.F.R. Part 264, is an important ARAR with regard to long-term maintenance of the soil cover and its revegetation.

The cleanup standard for groundwater as delineated in the 1994 No Action ROD for groundwater (OU2) has not changed. The groundwater standard was background and remains background.

Changes in Exposure Pathways, Toxicity and Other Contaminant Characteristics

The exposure assumptions used to develop the Human Health Risk Assessment included both current and potential future exposures. There have been no changes in the toxicity factors for the contaminants of concern that were used in the baseline risk assessment. These assumptions are considered to be conservative and reasonable in evaluating risk and developing risk based cleanup levels. No change to these assumptions, or the cleanup levels developed from them is warranted. There has been no change to the standardized risk assessment methodology that could affect the protectiveness of the remedy.

Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

The remedy is not protective because the institutional controls were not attached to the Hranica property deed at the Butler County Courthouse. The institutional controls were to prohibit the following: development of onsite wells for drinking water, bathing water, or other domestic uses; excavation or drilling which may disturb covered or reconstructed areas, except when future characterizations become necessary; and use of the Site that may permit contact with soils that may present a potential health risk. The remedy is not protective because the institutional controls are not in place to inform any subsequent land owner of the prohibitions stated above regarding the Hranica Landfill Site.

Technical Assessment Summary

According to the data reviewed, the site inspection, and the interviews the remedy is functioning as intended by the ROD for OU1 and OU2 with

the exception of the institutional controls. The only aspect of the remedy which is not protective is the institutional controls component which was intended to prohibit future development and use of onsite ground water for drinking, and to eliminate the possibility of the future use of the Site in a any manner that would permit contact with the onsite contaminated soils. Apparently the original owner of the Hranica Landfill Site did not attach the institutional controls to the property deed at the Butler County Courthouse. Presently, there is a new owner of the Hranica property who bought the property through tax delinquency sales. But this new owner did not register as the new owner of the Hranica property. There have been no changes in the physical conditions of the site that would affect the protectiveness of the remedy. The ARARs for soil contamination cited in the ROD have been met. There have been no changes in the toxicity factors for the contaminants of concern that were used in the baseline risk assessment, and there have been no changes to the standardized risk assessment methodology that could affect the protectiveness of the remedy.

VIII. Issues

Table 4- Issues

| Issue | Currently Affects Protectiveness (Y/N) | Affects Future Protectiveness (Y/N) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------|
| Apparently the original owner of the Hranica Landfill Site did not attach the institutional controls to the property deed at the Butler County Courthouse. | Y | Y |

IX. Recommendations and Follow Up Actions

Based upon the above, EPA, Region 3 recommends the following:

- Proper maintenance of the Site should continue in the future. This includes appropriate maintenance of the cap, monitoring wells and fence around the Site.
- Annual ground water monitoring should continue to the next five-year review or until EPA determines that further monitoring efforts are unnecessary in selected monitoring wells. The site related groundwater contaminants are below regulatory limits and the contaminants have not been observed in the following monitoring wells for five consecutive years: 1 I, 1D. Therefore these monitoring wells can be excluded from the ground water monitoring program.
- The institutional controls required by the ROD for OU1 which prohibit the following: development of onsite wells for drinking water, bathing water, or other domestic uses; excavation or drilling which may disturb covered or reconstructed areas, except when future characterizations become necessary; and use of the Site that may permit contact with soils that may present a potential health risk have not been implemented for the long term response for the Site. The institutional controls need to be implemented as soon as possible. Presently EPA is evaluating who currently owns the Hranica Property. There is some legal question as to who owns the property because supposedly a new owner bought the property at a tax delinquency sale but did not register himself as the legal owner of the Hranica property. EPA will evaluate who is the legal owner of the property and will talk with the Commonwealth of Pennsylvania regarding issuing an order to implement institutional controls.

IV. Statement on Protectiveness.

The potential risk to people living near the Site has been removed by the remedial actions taken. However, because the institutional controls required by the Record of Decision (ROD) for Operable Unit #1 (OU1),

signed on June 29, 1990, are not in place, the remedy is not fully protective. EPA will insure that the institutional controls are put in place prior to the next Five-Year Review.

V. Next Five-Year Review.

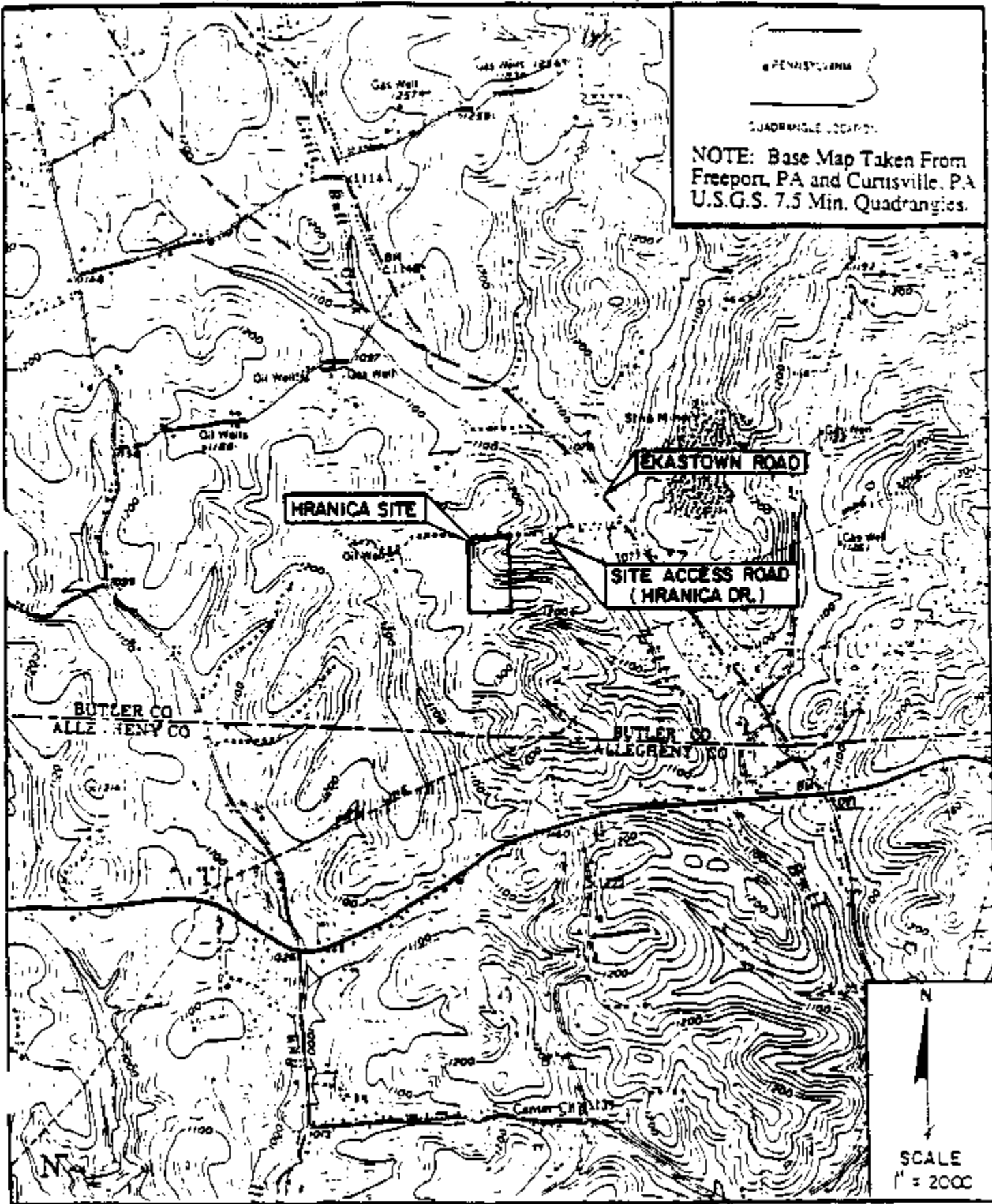
The next five-year review will be completed no later than April 30, 2007. The ground and surface water monitoring and general site maintenance will continue over the next five years.

FIGURES

PENNSYLVANIA

QUADRANGLE LOCATION

NOTE: Base Map Taken From
Freeport, PA and Curtisville, PA
U.S.G.S. 7.5 Min. Quadrangles.



Hranica Site

Ekastown Road

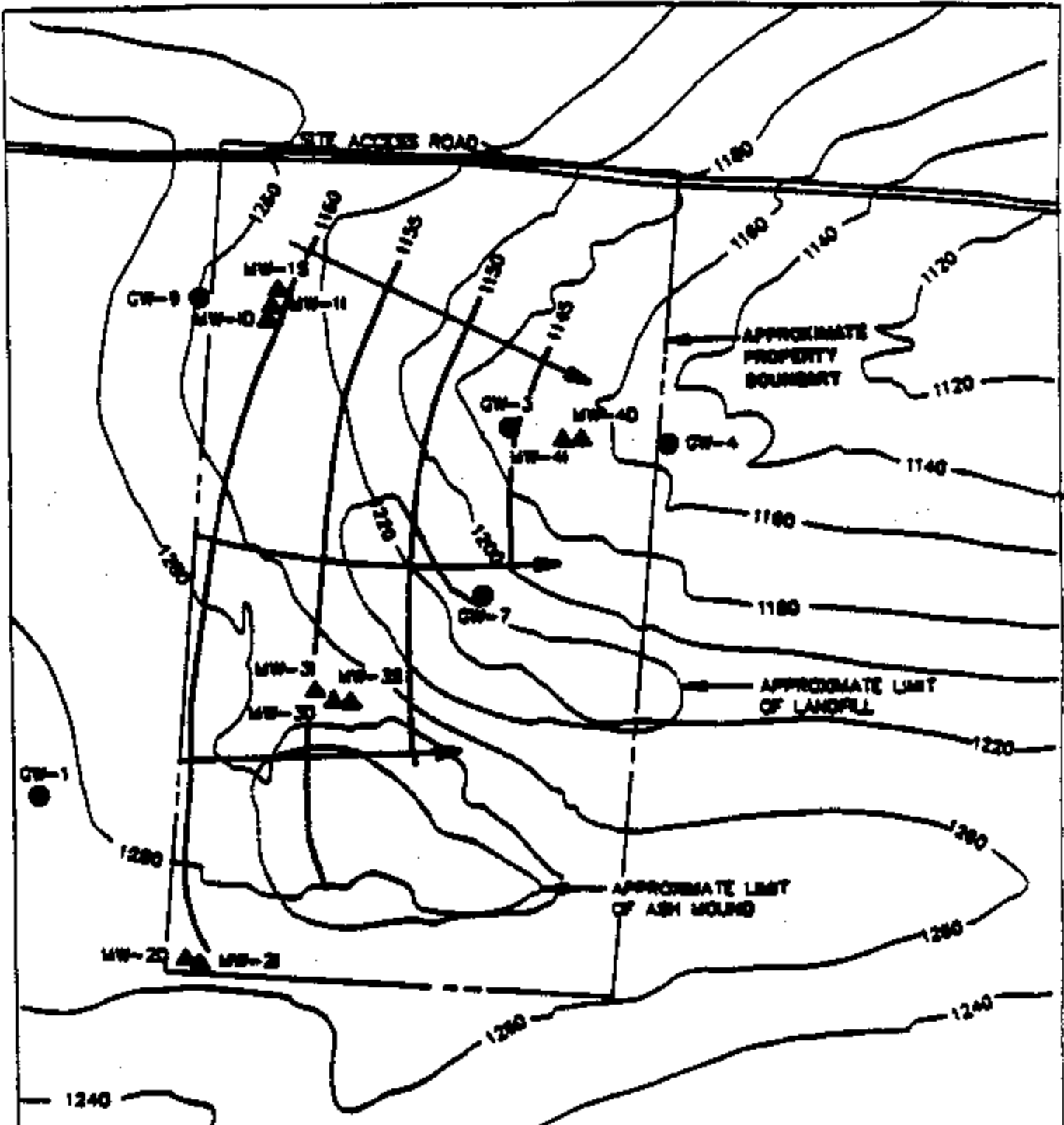
**Site Access Road
(Hranica Dr.)**

BUTLER CO
ALLEGHENY CO

BUTLER CO
ALLEGHENY CO



SCALE
1" = 2000'



LEGEND

- 1180 ——— GROUNDWATER ELEVATION
- > GROUNDWATER FLOW DIRECTION
- 1280 ——— SURFACE ELEVATION
- GW-3 SHALLOW MONITORING WELL
- △ MW-38 CLUSTER WELL

SCALE: 1" = 200'

TABLES

TABLE 1: GROUNDWATER MONITORING DATA

| DATE | CONCENTRATION (in mg/l) | | | | |
|----------------------|-------------------------|------------|--------|----------------------|----|
| | 2,4-Dimethylphenol | Naphthalen | Phenol | Di-n-butyl phthalate | |
| Regulatory Limit(a): | 730 | 20 | 4,000 | 3,700(b) | |
| WELL: MW-11 | | | | | |
| 04/10/1992 | <10.0(c) | <10.0 | <10.0 | | 34 |
| 07/17/1992 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 10/31/1992 | <10.0 | <10.0 | 0.008 | <10.0 | |
| 06/29/1994 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 06/29/94 - Dup(d) | <10.0 | <10.0 | <10.0 | <10.0 | |
| 04/11/1995 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 04/11/95 - Dup | | | | | |
| 10/17/1995 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 04/16/1996 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 04/16/96 - Dup | | | | | |
| 10/15/1996 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 04/22/1997 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 05/19/1998 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 05/11/1999 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 05/24/2000 | <6.0 | <6.0 | <6.0 | <6.0 | |
| 05/23/2001 | <10.0 | <10.0 | <10.0 | <10.0 | |
| WELL: MW-1D | | | | | |
| 04/10/1992 | <10.0 | <10.0 | <10.0 | | 14 |
| 07/17/1992 | <10.0 | <10.0 | 17 | <10.0 | |
| 10/31/1992 | <10.0 | <10.0 | 30 | <10.0 | |
| 06/29/1994 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 10/18/1994 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 10/18/94 - Dup | | | | | |
| 04/11/1995 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 10/17/1995 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 04/16/1996 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 10/15/1996 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 04/22/1997 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 05/19/1998 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 05/11/1999 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 05/24/2000 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 05/23/2001 | <10.0 | <10.0 | <10.0 | <10.0 | |
| WELL: MW-2I | | | | | |
| 04/10/1992 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 07/17/1992 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 10/31/1992 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 01/11/1993 | <10.0 | <10.0 | 7 | <10.0 | |
| 06/29/1994 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 10/18/1994 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 04/11/1995 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 10/17/1995 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 04/16/1996 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 10/15/1996 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 04/22/1997 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 05/19/1998 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 05/11/1999 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 05/24/2000 | <5.0 | <5.0 | <5.0 | <5.0 | |

CONCENTRATION (in mg/l)

| DATE | 2,4-Dimethylphenol | Naphthalen | Phenol | Di-n-butyl phthalate | |
|----------------------|--------------------|------------|----------|----------------------|--|
| Regulatory Limit(a): | 730 | 20 | 4,000 | 3,700(b) | |
| 05/23/2001 | <10.0 | <10.0 | <10.0 | <10.0 | |
| WELL: MW-3S | | | | | |
| 4/10/92 | 82 | 240(e) | <10.0 | 5 | |
| 7/17/92 | 660 | 260 | 31 | 14 | |
| 10/31/92 | 170 | 220 | 14 | 8 | |
| 1/11/93 | <10.0 | 410 | <10.0 | 8 | |
| 6/29/94 | 260 | 20 | 57 | 20 | |
| 10/18/94 | 460 | 270 | 100 | 100 | |
| 4/11/95 | 240 | 240 | 20 | 20 | |
| 10/17/95 | 290 | 380 | 50 | 50 | |
| 4/16/96 | 200 | 560 | 200 | 200 | |
| 10/15/96 | 170 | 430 | 50 | 50 | |
| 4/22/97 | 20 | 270 | 20 | 20 | |
| 04/22/97 - Dup | 20 | 300 | 20 | 20 | |
| 5/19/98 | 140 | 300 | <10.0 | <10.0 | |
| 09/01/1998 | 71 | 190 | <10.0 | 6.8 | |
| 05/11/1999 | 150 | 260 | <10.0 | <10.0 | |
| 5/11/99 - Dup | 170 | 240 | <10.0 | <10.0 | |
| 05/24/2000 | 210 | 140 | 11 | 8 | |
| 5/24/00 - Dup | 25 | 92 | 11 | 8 | |
| 05/24/2001 | 63 | 190 | 5.6 J(f) | <50.0 | |
| WELL: MW-3I | | | | | |
| 04/10/1992 | <10.0 | <10.0 | 1 | 28 | |
| 07/17/1992 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 10/31/1992 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 01/11/1993 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 06/29/1994 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 10/18/1994 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 04/11/1995 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 10/17/1995 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 04/16/1996 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 10/15/1996 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 04/22/1997 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 05/19/1998 | 95 | 220 | <10.0 | <10.0 | |
| 09/01/1998 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 05/11/1999 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 05/24/2000 | <6.0 | <6.0 | <6.0 | <6.0 | |
| 05/24/2001 | <10.0 | <10.0 | <10.0 | <10.0 | |
| WELL: MW-4I | | | | | |
| 4/10/92 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 7/17/92 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 10/31/92 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 1/11/93 | <10.0 | <10.0 | 3 | <10.0 | |
| 6/29/94 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 10/18/94 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 4/11/95 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 10/17/95 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 4/16/96 | <10.0 | <10.0 | <10.0 | <10.0 | |

| CONCENTRATION (in mg/l) | | | | | |
|-------------------------|--------------------|------------|--------|----------------------|--|
| DATE | 2,4-Dimethylphenol | Naphthalen | Phenol | Di-n-butyl phthalate | |
| Regulatory Limit(a): | 730 | 20 | 4,000 | 3,700(b) | |
| 10/15/96 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 4/22/97 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 5/19/98 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 05/11/1999 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 05/24/2000 | <5.0 | <5.0 | <5.0 | <5.0 | |
| 05/23/2001 | <10.0 | <10.0 | <10.0 | <10.0 | |
| WELL: MW-4D | | | | | |
| 04/10/92 | <10.0 | 2 | <10.0 | 2.80 | |
| 07/17/92 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 10/31/92 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 01/11/93 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 01/11/93 -Dup | <10.0 | <10.0 | <10.0 | <10.0 | |
| 06/29/94 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 10/18/94 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 04/11/95 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 10/17/95 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 04/16/96 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 10/15/96 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 04/22/97 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 05/19/98 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 05/11/1999 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 05/24/2000 | <6.0 | <6.0 | <6.0 | <6.0 | |
| 05/24/2001 | <10.0 | <10.0 | <10.0 | <10.0 | |
| WELL MW-5S | | | | | |
| 06/29/1994 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 10/18/1994 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 04/11/1995 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 04/16/1996 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 10/15/1996 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 10/15/96 - Dup | <10.0 | <10.0 | <10.0 | <10.0 | |
| 04/22/1997 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 05/19/1998 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 09/01/1998 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 05/11/1999 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 05/24/2000 | <7.0 | <7.0 | <7.0 | <7.0 | |
| 05/24/2001 | <10.0 | <10.0 | <10.0 | <10.0 | |
| WELL MW-5I | | | | | |
| 06/29/1994 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 10/18/1994 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 04/11/1995 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 10/17/1995 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 10/17/95 - Dup | <10.0 | <10.0 | <10.0 | <10.0 | |
| 04/16/1996 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 10/15/1996 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 04/22/1997 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 05/19/1998 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 09/01/1998 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 05/11/1999 | <10.0 | <10.0 | <10.0 | <10.0 | |

| CONCENTRATION (in mg/l) | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------|--------|----------------------|--|
| DATE | 2,4-Dimethylphenol | Naphthalen | Phenol | Di-n-butyl phthalate | |
| Regulatory Limit(a): | 730 | 20 | 4,000 | 3,700(b) | |
| 05/24/2000 | <6.0 | <6.0 | <6.0 | <6.0 | |
| 05/24/2001 | <10.0 | <10.0 | <10.0 | <10.0 | |
| 5/24/01 - Dup | <10.0 | <10.0 | <10.0 | <10.0 | |
| NOTES: | | | | | |
| (a) Since MCLs are not available for these parameters, the regulatory limit shown is the Pennsylvania Department of Environmental Protection (PADEP), Act 2, medium-specific concentration (MSC) for groundwater (used aquifer, residential, TDS < 2500 mg/l c | | | | | |
| (b) There is no PADEP MSC available for this parameter; therefore, the value shown is the USEPA Region III Risk-Based Concentration for tap water. | | | | | |
| (c) "<x" indicates that the parameter was not detected above the method detection limit (x). | | | | | |
| (d) Dup indicates the results of a duplicate sample. | | | | | |
| (e) Values shown in bold indicate an exceedance of the regulatory limit. | | | | | |
| (f) The laboratory qualifier "J" indicates an estimated value (less than the reporting limit). | | | | | |

TABLE 1: GROUNDWATER MONITORING DATA

| CONCENTRATION (in mg/l) | | | | | | | | |
|-------------------------|----------|---------|-----------|---------|----------|-----------|-------|----------|
| DATE | Aluminum | Arsenic | Beryllium | Cadmium | Chromium | Manganese | Lead | Zinc |
| Regulatory Limit(a): | 200(b) | 10 | 4 | 5 | 100 | 50(b) | 15(c) | 5,000(b) |
| WELL: MW-1I | | | | | | | | |
| 04/10/1992 | 470(d) | 2 | 1 | 3 | 18 | 77 | 9 | 31 |
| 07/17/1992 | 11 | 2 | 1 | 3 | 3 | 166 | 2 | 30 |
| 10/31/1992 | 86 | 1 | 1 | 3 | 2 | 36 | 1 | 14 |
| 6/29/94 | <200(e) | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 6/29/94 - Dup(f) | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 4/11/95 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 4/11/95 - Dup | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 10/17/95 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 4/16/96 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 4/16/96 - Dup | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 10/15/96 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | 28 |
| 4/22/97 | 83 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | 15 |
| 5/19/98 | 56.1 | <2.0 | <0.4 | 5.5 | 15.1 | 2.4 | <1.4 | 50.6 |
| 05/11/1999 | 20.1 | <2.0 | <0.2 | <0.3 | 1.2 | 6.1 | <1.4 | 116 |
| 05/24/2000 | 15.3 | <2.6 | <0.2 | <0.9 | 1.3 | 6.1 | <1.9 | 39.7 |
| 05/23/2001 | <200 | <10.0 | 0.21 J(g) | <5.0 | <10.0 | 24.4 | <3.0 | 38.6 |
| WELL: MW-1D | | | | | | | | |
| 04/10/1992 | 740 | 2 | 1 | 3 | 5 | 14 | 11 | 500 |
| 07/17/1992 | 987 | 2 | 1 | 3 | 3 | 1 | 19 | 430 |
| 10/31/1992 | 65 | 1 | 1 | 3 | 2 | 6 | 14 | 24 |
| 06/29/1994 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 10/18/1994 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 10/18/94 - Dup | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 04/11/1995 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 10/17/95 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 04/16/1996 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 10/15/96 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | 35 |
| 04/22/1997 | 120 | <10.0 | <5.0 | <5.0 | <10.0 | 13 | <3.0 | 16 |
| 05/19/1998 | 172 | <2.0 | <0.4 | 4.9 | 18 | 7 | <1.4 | 73.6 |
| 05/11/1999 | 38.7 | <2.0 | <0.2 | <0.3 | 0.8 | 3.5 | <1.4 | 57.9 |
| 05/24/2000 | 30.4 | <2.6 | <0.2 | <0.9 | 1.3 | 11 | <1.9 | 60.3 |
| 05/23/2001 | <200 | <10.0 | 0.12 J | <5.0 | <10.0 | 4.8 J | <3.0 | 23.2 |
| WELL: MW-2I | | | | | | | | |
| 4/10/92 | 150 | 2 | 1 | 3 | 5 | 1 | 2 | 2 |
| 7/17/92 | 5,970 | 2 | 1 | 3 | 13 | 54 | 8 | 30 |
| 10/31/92 | 325 | 2 | 1 | 3 | 2 | 1 | 1 | 6 |
| 1/11/93 | 400 | 1 | 1 | 3 | 7 | 43 | 3 | 17 |
| 6/29/94 | 510 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 10/18/94 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 4/11/95 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 10/17/95 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 4/16/96 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 10/15/96 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | 43 |
| 4/22/97 | 86 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | 13 |
| 5/19/98 | 75.2 | <2.0 | <0.4 | 4.8 | 18.9 | 14.1 | <1.4 | 68.7 |
| 05/11/1999 | 33.8 | <2.0 | <0.2 | <0.3 | 1.5 | 10.3 | 1.9 | 51.2 |
| 05/24/2000 | 30.1 | <2.6 | <0.2 | <0.9 | <1.0 | 12.9 | <1.9 | 7.8 |

CONCENTRATION (in mg/l)

| DATE | Aluminum | Arsenic | Beryllium | Cadmium | Chromium | Manganese | Lead | Zinc |
|----------------------|----------|---------|-----------|---------|----------|-----------|-------|----------|
| Regulatory Limit(a): | 200(b) | 10 | 4 | 5 | 100 | 50(b) | 15(c) | 5,000(b) |
| 05/24/2001 | <200 | <10.0 | 0.31 J | <5.0 | <10.0 | 5.6 J | <3.0 | 11.0 J |
| WELL: MW-3S | | | | | | | | |
| 04/10/1992 | 11 | 28 | 1 | 3 | 15 | 2,500 | 12 | 2 |
| 07/17/1992 | 11 | 12 | 1 | 3 | 3 | 2,480 | 8 | 23 |
| 10/31/1992 | 58 | 1 | 1 | 3 | 2 | 2,080 | 2 | 8 |
| 01/11/1993 | 92 | 3 | 1 | 3 | 7 | 1,650 | 1 | 24 |
| 06/29/1994 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | 3,200 | <3.0 | 15 |
| 10/18/1994 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | 3,200 | <3.0 | <20.0 |
| 04/11/1995 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | 2,200 | <3.0 | <20.0 |
| 10/17/1995 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | 3,400 | <3.0 | <20.0 |
| 04/16/1996 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | 2,700 | <3.0 | <20.0 |
| 10/15/1996 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | 3,200 | <3.0 | 47 |
| 04/22/1997 | 92 | <10.0 | <5.0 | <5.0 | 10 | 1,500 | <3.0 | <20.0 |
| 4/22/97 - Dup | 92 | <10.0 | <5.0 | <5.0 | <10.0 | 1,500 | <3.0 | <20.0 |
| 05/19/1998 | 92 | <2.0 | <0.4 | 4.6 | 13.8 | 4,380 | <1.4 | 52.5 |
| 5/19/98 - Dup | 95.9 | <2.0 | <0.4 | 5.5 | 16.6 | 4,310 | 2.8 | 52.5 |
| 05/11/1999 | 31.6 | 4.3 | <0.2 | <0.3 | 4.2 | 3,090 | 12 | 56.3 |
| 5/11/99 - Dup | <16.0 | 4.6 | <0.2 | <0.3 | 4.4 | 3,000 | 1.7 | 92.3 |
| 05/24/2000 | <14.8 | <2.6 | <0.2 | <0.9 | 2.5 | 3,000 | <1.9 | <1.8 |
| 5/24/00 - Dup | <14.8 | <2.6 | <0.2 | <0.9 | 3.7 | 2,850 | <1.9 | 7.2 |
| 05/24/2001 | <200 | 3.6 J | 0.24 J | <5.0 | <10.0 | 2,530 | <3.0 | 9.4 J |
| WELL: MW-3I | | | | | | | | |
| 4/10/92 | 110 | 2 | 1 | 3 | 5 | 24 | 2 | 9 |
| 7/17/92 | 11 | 2 | 1 | 3 | 3 | 16 | 5 | 2 |
| 10/31/92 | 141 | 1 | 1 | 3 | 2 | 1 | 1 | 2 |
| 1/11/93 | 41 | 1 | 1 | 3 | 7 | 9 | 1 | 24 |
| 6/29/94 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 10/18/94 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 4/11/95 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 10/17/95 | <200 | <10.0 | <5.0 | <5.0 | 15 | <15.0 | <3.0 | <20.0 |
| 4/16/96 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 10/15/96 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | 22 |
| 4/22/97 | 87 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | 10 |
| 5/19/98 | <39.0 | <2.0 | <0.4 | 3.2 | 14.9 | 4.1 | <1.4 | 42.8 |
| 05/11/1999 | <16.0 | <2.0 | <0.2 | <0.3 | 1.1 | 17.1 | <1.4 | 52.1 |
| 05/24/2000 | <14.8 | <2.6 | <0.2 | <0.9 | 2.9 | 4.1 | <1.9 | 28 |
| 05/24/2001 | 34.5 J | <10.0 | 0.15 J | <5.0 | <10.0 | 2.4 J | <3.0 | 8.6 J |
| WELL: MW-4I | | | | | | | | |
| 4/10/92 | 11 | 2 | 1 | 3 | 15 | 210 | 2 | 11 |
| 7/17/92 | 11 | 2 | 1 | 3 | 3 | 296 | 9 | 23 |
| 10/31/92 | 12 | 1 | 1 | 3 | 2 | 186 | 1 | 11 |
| 1/11/93 | 52 | 1 | 1 | 3 | 7 | 361 | 7 | 14 |
| 6/29/94 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | 180 | <3.0 | <20.0 |
| 10/18/94 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | 460 | <3.0 | <20.0 |
| 4/11/95 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | 100 | <3.0 | <20.0 |
| 10/17/95 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | 320 | <3.0 | <20.0 |
| 4/16/96 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | 93 | <3.0 | <20.0 |
| 10/15/96 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | 190 | <3.0 | 17 |

CONCENTRATION (in mg/l)

| DATE | Aluminum | Arsenic | Beryllium | Cadmium | Chromium | Manganese | Lead | Zinc |
|----------------------|----------|---------|-----------|---------|----------|-----------|-------|----------|
| Regulatory Limit(a): | 200(b) | 10 | 4 | 5 | 100 | 50(b) | 15(c) | 5,000(b) |
| 4/22/97 | 78 | <10.0 | <5.0 | <5.0 | <10.0 | 29 | 32 | 20 |
| 5/19/98 | 68.4 | <2.0 | <0.4 | 5.9 | 15.7 | 33.7 | <1.4 | 28.8 |
| 05/11/1999 | <16.0 | <2.0 | <0.2 | <0.3 | 0.7 | 73.1 | <1.4 | 44.2 |
| 05/24/2000 | <14.8 | <2.6 | <0.2 | <0.9 | 3.5 | 91.8 | <1.9 | 9.3 |
| 05/24/2001 | <200 | <10.0 | 0.16 J | <5.0 | <10.0 | 119 | <3.0 | 20.2 |
| WELL: MW-4D | | | | | | | | |
| 4/10/92 | 380 | 2 | 3 | 3 | 55 | 350 | 29 | 15 |
| 7/17/92 | 13,100 | 2 | 1 | 3 | 24 | 1,890 | 75 | 175 |
| 10/31/92 | 24,000 | 2 | 2 | 3 | 35 | 239 | 23 | 175 |
| 01/11/1993 | 417 | 3 | 1 | 3 | 7 | 41 | 3 | 94 |
| 1/11/93 - Dup | 776 | 3 | 1 | 16 | 39 | 55 | 2 | 90 |
| 06/29/1994 | 310 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 10/18/1994 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | 17 | <3.0 | <20.0 |
| 04/11/1995 | 1,300 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 10/17/1995 | 59 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 04/16/1996 | 60 | 8 | <5.0 | <5.0 | <10.0 | 43 | <3.0 | 13 |
| 10/15/1996 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | 22 | <3.0 | 25 |
| 04/22/1997 | 100 | <10.0 | <5.0 | <5.0 | <10.0 | 13 | <3.0 | 15 |
| 5/19/98 | 183 | <2.0 | 0.58 | 7.4 | 17.4 | 15.7 | <1.4 | 54.2 |
| 05/11/1999 | 34.6 | 7.9 | <0.2 | <0.3 | 1.9 | 22.8 | 3.5 | 73.5 |
| 05/24/2000 | 23.2 | <2.6 | <0.2 | <0.9 | 1.3 | 3.2 | <1.9 | 7.2 |
| 05/24/2001 | 146 J | <10.0 | 0.22 J | <5.0 | <10.0 | 12.4 J | <3.0 | 13.6 J |
| WELL: MW-5S | | | | | | | | |
| 06/29/1994 | 1,400 | <10.0 | <5.0 | <5.0 | <10.0 | 220 | 5 | 21 |
| 10/18/1994 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | 43 | <3.0 | <20.0 |
| 04/11/1995 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | 3 | <20.0 |
| 04/16/1996 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 10/15/1996 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | 22 |
| 10/15/96 - Dup | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | 20 |
| 04/22/1997 | 90 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | 11 |
| 5/19/98 | 75.2 | <2.0 | <0.4 | 6.0 | 12.9 | 139 | <1.4 | 40.9 |
| 05/11/1999 | 81.4 | <2.0 | <0.2 | <0.3 | 0.4 | 1,010 | 2.6 | 57.6 |
| 05/24/2000 | <14.8 | <2.6 | <0.2 | <0.9 | 1.3 | 28.4 | <1.9 | 104 |
| 05/24/2001 | <200 | <10.0 | 0.21 J | <5.0 | <10.0 | 167 | <3.0 | 8.3 J |
| WELL: MW-5I | | | | | | | | |
| 06/29/1994 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 10/18/1994 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 04/11/1995 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 10/17/1995 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 10/17/95 - Dup | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 04/16/1996 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 10/15/1996 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | 22 |
| 04/22/1997 | 83 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 5/19/98 | 128 | <2.0 | 0.47 | 8.6 | 19.4 | 10.6 | 2.6 | 19.5 |
| 05/11/1999 | <16.0 | <2.0 | <0.2 | <0.3 | 0.9 | 12.6 | <1.4 | 42.8 |
| 5/11/99 - Dup | <16.0 | <2.0 | <0.2 | <0.3 | 1.3 | 5.3 | <1.4 | 40.5 |
| 05/24/2000 | <14.8 | 7.7 | <0.2 | <0.9 | 1.6 | 8.2 | <1.9 | 35.5 |
| 5/24/00 - Dup | 24.7 | <2.6 | <0.2 | <0.9 | <1.0 | 4.2 | <1.9 | 9.3 |

CONCENTRATION (in mg/l)

| DATE | Aluminum | Arsenic | Beryllium | Cadmium | Chromium | Manganese | Lead | Zinc |
|------------------------------------------------------------------------------------------------|----------|---------|-----------|---------|----------|-----------|-------|----------|
| Regulatory Limit(a): | 200(b) | 10 | 4 | 5 | 100 | 50(b) | 15(c) | 5,000(b) |
| 05/24/2001 | 50.4 J | <10.0 | 0.22 J | <5.0 | <10.0 | 7.8 J | <3.0 | 10.6 J |
| 5/24/01 - Dup | 39.2 J | <10.0 | 0.27 J | <5.0 | 3.5 J | 7.5 J | <3.0 | 17.6 J |
| NOTES: | | | | | | | | |
| (a) The regulatory limit is the USEPA Maximum Contaminant Level. | | | | | | | | |
| (b) This value represents a secondary maximum contaminant level (SMCL). | | | | | | | | |
| (c) Value represents the target value for drinking water after treatment. | | | | | | | | |
| (d) Values shown in bold indicate an exceedance of the regulatory limit. | | | | | | | | |
| (e) "<x" indicates that the parameter was not detected above the method detection limit (x). | | | | | | | | |
| (f) Dup indicates the results of a duplicate sample. | | | | | | | | |
| (g) The laboratory qualifier "J" indicates as estimated value (less than the reporting limit). | | | | | | | | |
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TABLE 1: GROUNDWATER MONITORING DATA

| CONCENTRATION (in mg/l) | | | | | | | | |
|-------------------------|----------|----------|-----------|---------|----------|-----------|-------|----------|
| DATE | Aluminum | Arsenic | Beryllium | Cadmium | Chromium | Manganese | Lead | Zinc |
| Regulatory Limit(a): | 200(b) | 10 | 4 | 5 | 100 | 50(b) | 15(c) | 5,000(b) |
| WELL: MW-1I | | | | | | | | |
| 6/29/94 | 9,500(d) | <10.0(e) | <5.0 | <5.0 | <10.0 | 1,100 | 15 | 76 |
| 6/29/94 - Dup(f) | 5,100 | <10.0 | <5.0 | <5.0 | 19 | 240 | 22 | 33 |
| 10/18/1994 | 280 | <10.0 | <5.0 | <5.0 | <10.0 | 29 | <3.0 | <20.0 |
| 4/11/95 | 365 | <10.0 | <5.0 | <5.0 | <10.0 | 38 | <3.0 | <20.0 |
| 4/11/95 - Dup | 850 | <10.0 | <5.0 | <5.0 | <10.0 | 63 | 4 | <20.0 |
| 10/17/95 | 390 | <10.0 | <5.0 | <5.0 | <10.0 | 28 | <3.0 | 15 |
| 4/16/96 | 73 | <10.0 | <5.0 | <5.0 | <10.0 | 18 | <3.0 | 11 |
| 4/16/96 - Dup | 120 | <10.0 | <5.0 | <5.0 | <10.0 | 19 | <3.0 | 14 |
| 10/15/96 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | 11 |
| 4/22/97 | 130 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | 66 | 16.0 |
| 05/11/1999 | 20 | <2.0 | <0.2 | <0.3 | 1.2 | 9.9 | <1.4 | 18.6 |
| 05/24/2000 | 64 | <2.6 | <0.2 | <0.9 | 2.4 | 14.1 | <1.9 | 24.3 |
| 05/23/2001 | 289 | <10.0 | 0.15 J(g) | <5.0 | <10.0 | 43.6 | <3.0 | 15.2 J |
| WELL: MW-1D | | | | | | | | |
| 06/29/1994 | 3,400 | <10.0 | <5.0 | <5.0 | <10.0 | 83 | 6 | 23 |
| 10/18/1994 | 660 | <10.0 | <5.0 | <5.0 | <10.0 | 17 | <3.0 | 21 |
| 10/18/94 - Dup | 980 | <10.0 | <5.0 | <5.0 | <10.0 | 24 | 4 | <20.0 |
| 04/11/1995 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 10/17/95 | 270 | <10.0 | <5.0 | <5.0 | <10.0 | 19 | <3.0 | 13 |
| 04/16/1996 | 170 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 10/15/96 | <200 | 11 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | 13 |
| 04/22/1997 | 3,100 | <10.0 | <5.0 | <5.0 | <10.0 | 40 | 8 | 24 |
| 05/11/1999 | 372 | <2.0 | <0.2 | <0.3 | 3.2 | 4.2 | 4.1 | 51.5 |
| 05/24/2000 | 137 | <2.6 | <0.2 | <0.9 | 4.1 | 10.4 | <1.9 | 22.1 |
| 05/23/2001 | 802 | <10.0 | 0.25 J | 4.6 J | <10.0 | 25.7 | 2.3 J | 27.5 |
| WELL: MW-2I | | | | | | | | |
| 6/29/94 | 19,000 | <10.0 | 37 | <5.0 | 37 | 630 | 29 | 90 |
| 10/18/94 | 3,200 | <10.0 | <5.0 | <5.0 | <10.0 | 34 | 4 | <20.0 |
| 4/11/95 | 12,000 | <10.0 | <5.0 | <5.0 | 20 | 290 | 19 | 67 |
| 10/17/95 | 3,900 | <10.0 | <5.0 | <5.0 | 19 | 110 | 8 | 28 |
| 4/16/96 | 1,900 | <10.0 | <5.0 | <5.0 | <10.0 | 64 | 4 | 34 |
| 10/15/96 | 4,300 | 15 | <5.0 | <5.0 | <10.0 | 110 | 10 | 50 |
| 4/22/97 | 2,100 | <10.0 | <5.0 | <5.0 | <10.0 | 70 | 4 | 18 |
| 05/11/1999 | 395 | 2 | <0.2 | <0.3 | 1.7 | 19.8 | 7 | 30.1 |
| 05/24/2000 | 565 | 5.2 | <0.2 | <0.9 | 1.2 | 29.9 | <1.9 | 12.6 |
| 05/24/2001 | 1,470 | <10.0 | 0.40 J | <5.0 | 4.4 J | 60.4 | 6.1 | 16.9 J |
| WELL: MW-3S | | | | | | | | |
| 06/29/1994 | 28,000 | 24 | <5.0 | 8 | 66 | 400 | 170 | 320 |
| 10/18/1994 | 4,000 | <10.0 | <5.0 | <5.0 | 11 | 3,200 | 37 | 67 |
| 04/11/1995 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | 2,200 | 9 | <20.0 |
| 10/17/1995 | 3,900 | <10.0 | <5.0 | <5.0 | 12 | 3,200 | 27 | 56 |
| 04/16/1996 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | 2,500 | 7 | 31 |
| 10/15/1996 | 180 | <10.0 | <5.0 | <5.0 | <10.0 | 2,700 | 12 | 26 |
| 04/22/1997 | 220 | <10.0 | <5.0 | <5.0 | 11 | 1,400 | 10 | 54 |
| 4/22/97 - Dup | 240 | <10.0 | <5.0 | <5.0 | 16 | 1,400 | 10 | 25 |
| 05/11/1999 | <16.0 | 6 | <0.2 | <0.3 | 5.2 | 3,190 | <1.4 | 68.7 |
| 5/11/99 - Dup | 29 | 6 | <0.2 | <0.3 | 3.4 | 3,500 | 10.8 | 25.2 |

CONCENTRATION (in mg/l)

| DATE | Aluminum | Arsenic | Beryllium | Cadmium | Chromium | Manganese | Lead | Zinc |
|----------------------|----------|---------|-----------|---------|----------|-----------|-------|----------|
| Regulatory Limit(a): | 200(b) | 10 | 4 | 5 | 100 | 50(b) | 15(c) | 5,000(b) |
| 05/24/2000 | 104 | 9.4 | <0.2 | 1.6 | 4.7 | 3,000 | 13.6 | 6.4 |
| 5/24/00 - Dup | 123 | <2.6 | <0.2 | 1.4 | 5.1 | 2,990 | 2.7 | 25.2 |
| 05/24/2001 | 122 J | 4.9 J | 0.24 J | <5.0 | 4.9 J | 2,430 | 6.2 | 22.8 |
| WELL: MW-3I | | | | | | | | |
| 6/29/94 | 4,800 | <10.0 | <5.0 | <5.0 | 13 | 260 | 16 | 59 |
| 10/18/94 | 340 | <10.0 | <5.0 | <5.0 | <10.0 | 65 | <3.0 | 21 |
| 4/11/95 | 780 | <10.0 | <5.0 | <5.0 | <10.0 | 200 | 4 | <20.0 |
| 10/17/95 | 1,200 | <10.0 | <5.0 | <5.0 | <10.0 | 240 | 7 | 26 |
| 4/16/96 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | 11 |
| 10/15/96 | 1,100 | <10.0 | <5.0 | <5.0 | <10.0 | 340 | 5 | 24 |
| 4/22/97 | 440 | <10.0 | <5.0 | <5.0 | <10.0 | 72 | <3.0 | 18 |
| 05/11/1999 | 42.5 | <2.0 | <0.2 | <0.3 | 2 | 7.3 | <1.4 | 91 |
| 05/24/2000 | 21.4 | 5.9 | <0.2 | <0.9 | 1.9 | 8 | <1.9 | 19.5 |
| 05/24/2001 | 714 | <10.0 | 0.15 J | <5.0 | 3.0 J | 151 | 4 | 13.2 J |
| WELL: MW-4I | | | | | | | | |
| 6/29/94 | 6,300 | <10.0 | <5.0 | <5.0 | 14 | 1,700 | <3.0 | 6 |
| 10/18/94 | 1,000 | <10.0 | <5.0 | <5.0 | <10.0 | 690 | <3.0 | 24 |
| 4/11/95 | 690 | <10.0 | <5.0 | <5.0 | <10.0 | 210 | <3.0 | <20.0 |
| 10/17/95 | 1,600 | <10.0 | <5.0 | <5.0 | <10.0 | 820 | 6 | 20 |
| 4/16/96 | 120 | <10.0 | <5.0 | <5.0 | <10.0 | 180 | <3.0 | 12 |
| 10/15/96 | 1,200 | <10.0 | <5.0 | <5.0 | <10.0 | 750 | 4 | 19 |
| 4/22/97 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | 72 | <3.0 | 440 |
| 05/11/1999 | <16.0 | <2.0 | <0.2 | <0.3 | 1.1 | 147 | <1.4 | 10.4 |
| 05/24/2000 | 17.8 | <2.6 | <0.2 | <0.9 | 2.8 | 144 | <1.9 | <1.8 |
| 05/24/2001 | 294 | <10.0 | 0.12 J | <5.0 | <10.0 | 278 | <3.0 | 13.2 J |
| WELL: MW-4D | | | | | | | | |
| 06/29/1994 | 9,900 | <10.0 | <5.0 | <5.0 | 21 | 240 | 16 | 89 |
| 10/18/1994 | 16,000 | <10.0 | <5.0 | <5.0 | 28 | 250 | 24 | 79 |
| 04/11/1995 | 39,000 | <10.0 | <5.0 | <5.0 | 61 | 490 | 40 | 140 |
| 10/17/1995 | 63,000 | <10.0 | <5.0 | <5.0 | 110 | 1,100 | 60 | 290 |
| 04/16/1996 | 20,000 | 10 | <5.0 | <5.0 | 30 | 340 | 25 | 110 |
| 10/15/1996 | 1,400 | 7 | <5.0 | <5.0 | <10.0 | 48 | 5 | 22 |
| 04/22/1997 | 2,400 | <10.0 | <5.0 | <5.0 | <10.0 | 34 | 4 | 24 |
| 05/11/1999 | 1,410 | 2 | <0.2 | <0.3 | 2.6 | 54 | 4.8 | 78.5 |
| 05/24/2000 | 994 | 12 | <0.2 | <0.9 | 4.5 | 40 | <1.9 | 6.8 |
| 05/24/2001 | 16,000 | 8.4 J | 1.1 J | <5.0 | 27.1 | 315 | 26 | 96.8 |
| WELL: MW-5S | | | | | | | | |
| 06/29/1994 | 21,000 | 15 | <5.0 | <5.0 | 85 | 700 | 43 | 140 |
| 10/18/1994 | 9,300 | <10.0 | <5.0 | <5.0 | 30 | 290 | 15 | 54 |
| 04/11/1995 | 18,000 | <10.0 | <5.0 | <5.0 | 58 | 940 | 38 | 120 |
| 04/16/1996 | 1,200 | <10.0 | <5.0 | <5.0 | <10.0 | 41 | <3.0 | 35 |
| 10/15/1996 | 2,200 | <10.0 | <5.0 | <5.0 | <10.0 | 340 | 8 | 29 |
| 10/15/96 - Dup | 2,200 | <10.0 | <5.0 | <5.0 | <10.0 | 370 | 5 | 27 |
| 04/22/1997 | 740 | <10.0 | <5.0 | <5.0 | <10.0 | 82 | <3.0 | 18 |
| 05/11/1999 | 1,200 | <2.0 | <0.2 | <0.3 | 5.7 | 1,290 | 10.7 | 64.4 |
| 05/24/2000 | 74.4 | <2.6 | <0.2 | <0.9 | 2 | 49.7 | <1.9 | 23.5 |
| 05/24/2001 | 592 | <10.0 | 0.22 J | <5.0 | 7.1 J | 193 | <3.0 | 21.5 |
| WELL: MW-5I | | | | | | | | |

CONCENTRATION (in mg/l)

| DATE | Aluminum | Arsenic | Beryllium | Cadmium | Chromium | Manganese | Lead | Zinc |
|------------------------------------------------------------------------------------------------|----------|---------|-----------|---------|----------|-----------|-------|----------|
| Regulatory Limit(a): | 200(b) | 10 | 4 | 5 | 100 | 50(b) | 15(c) | 5,000(b) |
| 06/29/1994 | 24,000 | 13 | <5.0 | <5.0 | 649 | 590 | 32 | 160 |
| 10/18/1994 | 4,300 | <10.0 | <5.0 | <5.0 | <10.0 | 120 | 7 | 36 |
| 04/11/1995 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 10/17/1995 | 160 | <10.0 | <5.0 | <5.0 | <10.0 | 11 | 4 | 17 |
| 10/17/95 - Dup | 140 | <10.0 | <5.0 | <5.0 | <10.0 | 10 | 5 | 17 |
| 04/16/1996 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | 22 |
| 10/15/1996 | 67 | <10.0 | <5.0 | <5.0 | <10.0 | 17 | <3.0 | 14 |
| 04/22/1997 | 270 | <10.0 | <5.0 | <5.0 | <10.0 | 18 | <3.0 | 16 |
| 05/11/1999 | <16.0 | <2.0 | <0.2 | <0.3 | 1 | 11 | 3 | 52 |
| 5/11/99 - Dup | 17.3 | 2.6 | <0.2 | <0.3 | 0.5 | 17.8 | 2.4 | 61.1 |
| 05/24/2000 | 125 | <2.6 | <0.2 | <0.9 | 2.4 | 41.8 | 6.5 | 29.5 |
| 5/24/00 - Dup | 116 | 6.5 | <0.2 | <0.9 | 1.7 | 23 | <1.9 | 28.9 |
| 05/24/2001 | 859 | 3.0 J | 0.14 J | <5.0 | 2.6 J | 29.7 | 2.4 J | 19.9 J |
| 5/24/01 - Dup | 611 | <10.0 | 0.15 J | <5.0 | <5.0 | 23.7 | <3.0 | 20.7 |
| NOTES: | | | | | | | | |
| (a) The regulatory limit is the USEPA Maximum Contaminant Level. | | | | | | | | |
| (b) This value represents a secondary maximum contaminant level (SMCL). | | | | | | | | |
| (c) Value represents the target value for drinking water after treatment. | | | | | | | | |
| (d) Values shown in bold indicate an exceedance of the regulatory limit. | | | | | | | | |
| (e) "<x" indicates that the parameter was not detected above the method detection limit (x). | | | | | | | | |
| (f) Dup indicates the results of a duplicate sample. | | | | | | | | |
| (g) The laboratory qualifier "J" indicates as estimated value (less than the reporting limit). | | | | | | | | |
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TABLE 1: GROUNDWATER MONITORING DATA

| CONCENTRATION (in mg/l) | | | | | | | | |
|-------------------------|-----------|---------|------------|---------------|-------|-------|---------|--------|
| DATE | Acetone | Benzene | Chloroform | Ethyl Benzene | MEK | MIBK | Toluene | Xylene |
| Regulatory Limit(a): | NA(b) | 5 | 100 | 700 | NA | NA | 1,000 | 10,000 |
| WELL: MW-11 | | | | | | | | |
| 04/10/1992 | <10.0(c) | --(d) | <5.0 | <5.0 | -- | -- | <5.0 | <5.0 |
| 07/17/1992 | <10.0 | <5.0 | <5.0 | <5.0 | -- | -- | <5.0 | <5.0 |
| 10/31/1992 | <10.0 | <5.0 | <5.0 | <5.0 | -- | -- | 0.002 | 5 |
| 06/29/1994 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 06/29/94 - Dup(e) | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 04/11/1995 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 04/11/95 - Dup | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 10/17/1995 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 04/16/1996 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 04/16/96 - Dup | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 10/15/1996 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 04/22/1997 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 05/19/1998 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| 05/11/1999 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| 05/24/2000 | | 5 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| 05/23/2001 | 2.9 JB(f) | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| WELL: MW-1D | | | | | | | | |
| 4/10/92 | <10.0 | -- | <5.0 | <5.0 | -- | -- | 50 | <5.0 |
| 7/17/92 | <10.0 | <5.0 | <5.0 | <5.0 | -- | -- | 6 | <5.0 |
| 10/31/92 | <10.0 | <5.0 | <5.0 | <5.0 | -- | -- | <5.0 | <5.0 |
| 6/29/94 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | 50 | <5.0 | <5.0 |
| 10/18/94 - Dup | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 4/11/95 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 10/17/95 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 4/16/96 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 10/15/96 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 4/22/97 | | 16 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 5/19/98 | | 3.8 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| 05/11/1999 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| 05/24/2000 | | 8 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| 05/23/2001 | 3.0 JB | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| WELL: MW-2I | | | | | | | | |
| 4/10/92 | <10.0 | -- | <5.0 | 28 | -- | -- | <5.0 | 66 |
| 7/17/92 | <10.0 | <5.0 | <5.0 | <5.0 | -- | -- | 1 | 1 |
| 10/31/92 | <10.0 | <5.0 | <5.0 | 1 | -- | -- | <5.0 | <5.0 |
| 1/11/93 | <10.0 | <5.0 | <5.0 | <5.0 | -- | -- | <5.0 | <5.0 |
| 6/29/94 | <10.0 | <5.0 | <5.0 | 77 | <10.0 | 10 | <5.0 | 160 |
| 10/18/94 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 4/11/95 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 10/17/95 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 4/16/96 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 10/15/96 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 4/22/97 | <10.0 | <5.0 | <5.0 | 20 | <10.0 | <5.0 | <5.0 | 260 |
| 5/19/98 | | 1.6 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| 05/11/1999 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| 05/24/2000 | | 4.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| 05/24/2001 | 2.9 JB | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |

CONCENTRATION (in mg/l)

| DATE | Acetone | Benzene | Chloroform | Ethyl Benzene | MEK | MIBK | Toluene | Xylene |
|----------------------|---------|---------|------------|---------------|---------|--------|---------|--------|
| Regulatory Limit(a): | NA(b) | 5 | 100 | 700 | NA | NA | 1,000 | 10,000 |
| WELL: MW-3S | | | | | | | | |
| 04/10/1992 | <10.0 | -- | 290 | 12,000 | -- | -- | 5,500 | 37,000 |
| 07/17/1992 | <10.0 | <5.0 | <5.0 | 9,100 | -- | -- | 3,430 | 27,300 |
| 10/31/1992 | <10.0 | 93(g) | <5.0 | 9,900 | -- | -- | 3,750 | 16,300 |
| 01/11/1993 | 1,500 | 140 | <5.0 | 15,000 | -- | -- | 3,800 | 43,000 |
| 6/29/94 | 800 | 260 | 50 | 10 | 3,800 | 27,000 | 2,900 | 27,000 |
| 10/18/94 | 5,000 | 2,500 | 2,500 | 12,000 | 5,000 | 26,000 | 2,500 | 34,000 |
| 4/11/95 | 5,000 | 2,500 | 2,500 | 14,000 | 5,000 | 11,000 | 5,000 | 41,000 |
| 10/17/95 | 1,200 | 500 | 500 | 11,000 | 2,400 | 17,000 | 1,800 | 32,000 |
| 4/16/96 | 1,000 | 500 | 500 | 11,000 | 3,000 | 18,000 | 3,600 | 36,000 |
| 10/15/96 | 5,000 | 2,500 | 2,500 | 13,000 | 5,000 | 12,000 | 2,600 | 39,000 |
| 4/22/97 | 2,000 | 1,000 | 1,000 | 9,000 | 2,000 | 7,900 | 1,400 | 25,000 |
| 04/22/97 - Dup | 2,000 | 1,000 | 1,000 | 9,800 | 2,000 | 8,100 | 1,700 | 27,000 |
| 5/19/98 | 1.4 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| 09/01/1998 | 390 | 200 | <200 | 11,000 | 1,300 | 10,000 | 1,000 | 21,000 |
| 05/11/1999 | 770 | 240 | 100 | 12,000 | 2,000 | 18,000 | 2,600 | 32,000 |
| 5/11/99 - Dup | 770 | 230 | 100 | 11,000 | 2,000 | 19,000 | 2,300 | 29,000 |
| 05/24/2000 | 740 | 290 | <100 | 8,800 | 3,200 | 15,000 | 2,900 | 5,800 |
| 5/24/00 - Dup | 740 | 290 | <100 | 8,500 | 3,300 | 15,000 | 2,000 | 5,600 |
| 05/24/2001 | 590 B | 220 | <200 | 6,400 D | 7,300 D | 1,600 | 1,300 | 10,000 |
| WELL: MW-3I | | | | | | | | |
| 4/10/92 | <10.0 | -- | <5.0 | <5.0 | -- | -- | <5.0 | <5.0 |
| 7/17/92 | <10.0 | <5.0 | <5.0 | 2 | -- | -- | <5.0 | 3 |
| 10/31/92 | <10.0 | <5.0 | <5.0 | 4 | -- | -- | <5.0 | <5.0 |
| 1/11/93 | <10.0 | <5.0 | <5.0 | <5.0 | -- | -- | <5.0 | <5.0 |
| 6/29/94 | <10.0 | <5.0 | <5.0 | 10 | <10.0 | <5.0 | <5.0 | <5.0 |
| 10/18/94 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 4/11/95 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 10/17/95 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 4/16/96 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 10/15/96 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 4/22/97 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 5/19/98 | 550 | 120 | 200 | 3,700 | 1,900 | 14,000 | 1,000 | 5,100 |
| 09/01/1998 | 1.8 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| 05/11/1999 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| 05/24/2000 | 4 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| 05/23/2001 | 1.9 JB | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| WELL: MW-4I | | | | | | | | |
| 04/10/1992 | <10.0 | -- | <5.0 | <5.0 | -- | -- | <5.0 | <5.0 |
| 07/17/1992 | <10.0 | 1 | <5.0 | <5.0 | -- | -- | <5.0 | <5.0 |
| 10/31/1992 | <10.0 | <5.0 | <5.0 | <5.0 | -- | -- | <5.0 | <5.0 |
| 01/11/1993 | <10.0 | <5.0 | <5.0 | <5.0 | -- | -- | <5.0 | <5.0 |
| 06/29/1994 | <10.0 | <5.0 | <5.0 | 10 | <10.0 | <5.0 | <5.0 | <5.0 |
| 10/18/1994 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 04/11/1995 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 10/17/1995 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 04/16/1996 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 10/15/1996 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |

CONCENTRATION (in mg/l)

| DATE | Acetone | Benzene | Chloroform | Ethyl Benzene | MEK | MIBK | Toluene | Xylene |
|----------------------|---------|---------|------------|---------------|-------|-------|---------|--------|
| Regulatory Limit(a): | NA(b) | 5 | 100 | 700 | NA | NA | 1,000 | 10,000 |
| 04/22/1997 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 05/19/1998 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 1.30 | <10.0 | 1.20 |
| 05/11/1999 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| 05/24/2000 | | 5 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| 05/23/2001 | 8.8 JB | 210 | <20.0 | 220 | <20.0 | <20.0 | 5.8 J | 340 |
| WELL: MW-4D | | | | | | | | |
| 4/10/92 | <10.0 | -- | <5.0 | <5.0 | -- | -- | 4 | 5 |
| 7/17/92 | <10.0 | <5.0 | <5.0 | <5.0 | -- | -- | <5.0 | <5.0 |
| 10/31/92 | <10.0 | 1 | <5.0 | 11 | -- | -- | 2 | 38 |
| 1/11/93 | <10.0 | <5.0 | <5.0 | <5.0 | -- | -- | <5.0 | <5.0 |
| 01/11/93 - Dup | <10.0 | <5.0 | <5.0 | <5.0 | -- | -- | <5.0 | <5.0 |
| 6/29/94 | <10.0 | <5.0 | <5.0 | 10 | <10.0 | <5.0 | <5.0 | <5.0 |
| 10/18/94 | <10.0 | <5.0 | <5.0 | 20 | <10.0 | <5.0 | <5.0 | 58 |
| 4/11/95 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 10/17/95 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 4/16/96 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 10/15/96 | | 47 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 4/22/97 | | 31 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 5/19/98 | | 4.6 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| 05/11/1999 | | 8 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| 05/24/2000 | | 14 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| 05/24/2001 | 5.0 JB | | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| WELL: MW-5S | | | | | | | | |
| 6/29/94 | <10.0 | <5.0 | <5.0 | 10 | <10.0 | <5.0 | <5.0 | <5.0 |
| 10/18/94 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 4/11/95 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 4/16/96 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 10/15/96 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 10/15/96 - Dup | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 4/22/97 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 5/19/98 | | 3.7 | 1.8 | <5.0 | 1.5 | <10.0 | <10.0 | 1.5 |
| 09/01/1998 | | 4.5 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| 05/11/1999 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| 05/24/2000 | | 4.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| 05/24/2001 | 3.7 JB | | <10.0 | <10.0 | <10.0 | 2.0 J | <10.0 | <10.0 |
| WELL: MW-5I | | | | | | | | |
| 6/29/94 | <10.0 | <5.0 | <5.0 | 10 | <10.0 | <5.0 | <5.0 | <5.0 |
| 10/18/94 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 4/11/95 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 10/17/95 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 10/17/95 - Dup | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 4/16/96 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 10/15/96 | <10.0 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 | <5.0 |
| 4/22/97 | | 11 | <5.0 | <5.0 | <5.0 | <10.0 | <5.0 | <5.0 |
| 5/19/98 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| 09/01/1998 | | 15 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| 05/11/1999 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| 05/24/2000 | | 5 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |

| CONCENTRATION (in mg/l) | | | | | | | | |
|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------|------------|---------------|-------|-------|---------|--------|
| DATE | Acetone | Benzene | Chloroform | Ethyl Benzene | MEK | MIBK | Toluene | Xylene |
| Regulatory Limit(a): | NA(b) | 5 | 100 | 700 | NA | NA | 1,000 | 10,000 |
| 05/23/2001 | 4.7 JB | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| 5/23/01 - Dup | 3.8 JB | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| NOTES: | | | | | | | | |
| (a) The regulatory limit is the USEPA Maximum Contaminant Level. | | | | | | | | |
| (b) "NA" indicates there is no regulatory limit promulgated for this parameter. | | | | | | | | |
| (c) "<x" indicates that the parameter was not detected above the method detected limit (x). | | | | | | | | |
| (d) "--" indicates that this parameter was not analyzed. | | | | | | | | |
| (e) Dup indicates the results of a duplicate sample. | | | | | | | | |
| (f) Laboratory qualifiers include: | | | | | | | | |
| | J - estimated value (less than the reporting limit) | | | | | | | |
| | B - the parameter was detected in either a quality control or method blank | | | | | | | |
| | D - the sample result is the result of a dilution | | | | | | | |
| (g) Values shown in bold indicate an exceedance of the regulatory limit. | | | | | | | | |

TABLE 1: GROUNDWATER MONITORING DATA

| CONCENTRATION (in mg/l) | | | | | | | | |
|-------------------------|----------|----------|-----------|---------|----------|-----------|-------|----------|
| DATE | Aluminum | Arsenic | Beryllium | Cadmium | Chromium | Manganese | Lead | Zinc |
| Regulatory Limit(a): | 200(b) | 10 | 4 | 5 | 100 | 50(b) | 15(c) | 5,000(b) |
| WELL: MW-1I | | | | | | | | |
| 6/29/94 | 9,500(d) | <10.0(e) | <5.0 | <5.0 | <10.0 | 1,100 | 15 | 76 |
| 6/29/94 - Dup(f) | 5,100 | <10.0 | <5.0 | <5.0 | 19 | 240 | 22 | 33 |
| 10/18/1994 | 280 | <10.0 | <5.0 | <5.0 | <10.0 | 29 | <3.0 | <20.0 |
| 4/11/95 | 365 | <10.0 | <5.0 | <5.0 | <10.0 | 38 | <3.0 | <20.0 |
| 4/11/95 - Dup | 850 | <10.0 | <5.0 | <5.0 | <10.0 | 63 | 4 | <20.0 |
| 10/17/95 | 390 | <10.0 | <5.0 | <5.0 | <10.0 | 28 | <3.0 | 15 |
| 4/16/96 | 73 | <10.0 | <5.0 | <5.0 | <10.0 | 18 | <3.0 | 11 |
| 4/16/96 - Dup | 120 | <10.0 | <5.0 | <5.0 | <10.0 | 19 | <3.0 | 14 |
| 10/15/96 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | 11 |
| 4/22/97 | 130 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | 66 | 16.0 |
| 05/11/1999 | 20 | <2.0 | <0.2 | <0.3 | 1.2 | 9.9 | <1.4 | 18.6 |
| 05/24/2000 | 64 | <2.6 | <0.2 | <0.9 | 2.4 | 14.1 | <1.9 | 24.3 |
| 05/23/2001 | 289 | <10.0 | 0.15 J(g) | <5.0 | <10.0 | 43.6 | <3.0 | 15.2 J |
| WELL: MW-1D | | | | | | | | |
| 06/29/1994 | 3,400 | <10.0 | <5.0 | <5.0 | <10.0 | 83 | 6 | 23 |
| 10/18/1994 | 660 | <10.0 | <5.0 | <5.0 | <10.0 | 17 | <3.0 | 21 |
| 10/18/94 - Dup | 980 | <10.0 | <5.0 | <5.0 | <10.0 | 24 | 4 | <20.0 |
| 04/11/1995 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 10/17/95 | 270 | <10.0 | <5.0 | <5.0 | <10.0 | 19 | <3.0 | 13 |
| 04/16/1996 | 170 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | <20.0 |
| 10/15/96 | <200 | 11 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | 13 |
| 04/22/1997 | 3,100 | <10.0 | <5.0 | <5.0 | <10.0 | 40 | 8 | 24 |
| 05/11/1999 | 372 | <2.0 | <0.2 | <0.3 | 3.2 | 4.2 | 4.1 | 51.5 |
| 05/24/2000 | 137 | <2.6 | <0.2 | <0.9 | 4.1 | 10.4 | <1.9 | 22.1 |
| 05/23/2001 | 802 | <10.0 | 0.25 J | 4.6 J | <10.0 | 25.7 | 2.3 J | 27.5 |
| WELL: MW-2I | | | | | | | | |
| 6/29/94 | 19,000 | <10.0 | 37 | <5.0 | 37 | 630 | 29 | 90 |
| 10/18/94 | 3,200 | <10.0 | <5.0 | <5.0 | <10.0 | 34 | 4 | <20.0 |
| 4/11/95 | 12,000 | <10.0 | <5.0 | <5.0 | 20 | 290 | 19 | 67 |
| 10/17/95 | 3,900 | <10.0 | <5.0 | <5.0 | 19 | 110 | 8 | 28 |
| 4/16/96 | 1,900 | <10.0 | <5.0 | <5.0 | <10.0 | 64 | 4 | 34 |
| 10/15/96 | 4,300 | 15 | <5.0 | <5.0 | <10.0 | 110 | 10 | 50 |
| 4/22/97 | 2,100 | <10.0 | <5.0 | <5.0 | <10.0 | 70 | 4 | 18 |
| 05/11/1999 | 395 | 2 | <0.2 | <0.3 | 1.7 | 19.8 | 7 | 30.1 |
| 05/24/2000 | 565 | 5.2 | <0.2 | <0.9 | 1.2 | 29.9 | <1.9 | 12.6 |
| 05/24/2001 | 1,470 | <10.0 | 0.40 J | <5.0 | 4.4 J | 60.4 | 6.1 | 16.9 J |
| WELL: MW-3S | | | | | | | | |
| 06/29/1994 | 28,000 | 24 | <5.0 | 8 | 66 | 400 | 170 | 320 |
| 10/18/1994 | 4,000 | <10.0 | <5.0 | <5.0 | 11 | 3,200 | 37 | 67 |
| 04/11/1995 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | 2,200 | 9 | <20.0 |
| 10/17/1995 | 3,900 | <10.0 | <5.0 | <5.0 | 12 | 3,200 | 27 | 56 |
| 04/16/1996 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | 2,500 | 7 | 31 |
| 10/15/1996 | 180 | <10.0 | <5.0 | <5.0 | <10.0 | 2,700 | 12 | 26 |
| 04/22/1997 | 220 | <10.0 | <5.0 | <5.0 | 11 | 1,400 | 10 | 54 |
| 4/22/97 - Dup | 240 | <10.0 | <5.0 | <5.0 | 16 | 1,400 | 10 | 25 |
| 05/11/1999 | <16.0 | 6 | <0.2 | <0.3 | 5.2 | 3,190 | <1.4 | 68.7 |
| 5/11/99 - Dup | 29 | 6 | <0.2 | <0.3 | 3.4 | 3,500 | 10.8 | 25.2 |

CONCENTRATION (in mg/l)

| DATE | Aluminum | Arsenic | Beryllium | Cadmium | Chromium | Manganese | Lead | Zinc |
|----------------------|----------|---------|-----------|---------|----------|-----------|-------|----------|
| Regulatory Limit(a): | 200(b) | 10 | 4 | 5 | 100 | 50(b) | 15(c) | 5,000(b) |
| 05/24/2000 | 104 | 9.4 | <0.2 | 1.6 | 4.7 | 3,000 | 13.6 | 6.4 |
| 5/24/00 - Dup | 123 | <2.6 | <0.2 | 1.4 | 5.1 | 2,990 | 2.7 | 25.2 |
| 05/24/2001 | 122 J | 4.9 J | 0.24 J | <5.0 | 4.9 J | 2,430 | 6.2 | 22.8 |
| WELL: MW-3I | | | | | | | | |
| 6/29/94 | 4,800 | <10.0 | <5.0 | <5.0 | 13 | 260 | 16 | 59 |
| 10/18/94 | 340 | <10.0 | <5.0 | <5.0 | <10.0 | 65 | <3.0 | 21 |
| 4/11/95 | 780 | <10.0 | <5.0 | <5.0 | <10.0 | 200 | 4 | <20.0 |
| 10/17/95 | 1,200 | <10.0 | <5.0 | <5.0 | <10.0 | 240 | 7 | 26 |
| 4/16/96 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | <15.0 | <3.0 | 11 |
| 10/15/96 | 1,100 | <10.0 | <5.0 | <5.0 | <10.0 | 340 | 5 | 24 |
| 4/22/97 | 440 | <10.0 | <5.0 | <5.0 | <10.0 | 72 | <3.0 | 18 |
| 05/11/1999 | 42.5 | <2.0 | <0.2 | <0.3 | 2 | 7.3 | <1.4 | 91 |
| 05/24/2000 | 21.4 | 5.9 | <0.2 | <0.9 | 1.9 | 8 | <1.9 | 19.5 |
| 05/24/2001 | 714 | <10.0 | 0.15 J | <5.0 | 3.0 J | 151 | 4 | 13.2 J |
| WELL: MW-4I | | | | | | | | |
| 6/29/94 | 6,300 | <10.0 | <5.0 | <5.0 | 14 | 1,700 | <3.0 | 6 |
| 10/18/94 | 1,000 | <10.0 | <5.0 | <5.0 | <10.0 | 690 | <3.0 | 24 |
| 4/11/95 | 690 | <10.0 | <5.0 | <5.0 | <10.0 | 210 | <3.0 | <20.0 |
| 10/17/95 | 1,600 | <10.0 | <5.0 | <5.0 | <10.0 | 820 | 6 | 20 |
| 4/16/96 | 120 | <10.0 | <5.0 | <5.0 | <10.0 | 180 | <3.0 | 12 |
| 10/15/96 | 1,200 | <10.0 | <5.0 | <5.0 | <10.0 | 750 | 4 | 19 |
| 4/22/97 | <200 | <10.0 | <5.0 | <5.0 | <10.0 | 72 | <3.0 | 440 |
| 05/11/1999 | <16.0 | <2.0 | <0.2 | <0.3 | 1.1 | 147 | <1.4 | 10.4 |
| 05/24/2000 | 17.8 | <2.6 | <0.2 | <0.9 | 2.8 | 144 | <1.9 | <1.8 |
| 05/24/2001 | 294 | <10.0 | 0.12 J | <5.0 | <10.0 | 278 | <3.0 | 13.2 J |
| WELL: MW-4D | | | | | | | | |
| 06/29/1994 | 9,900 | <10.0 | <5.0 | <5.0 | 21 | 240 | 16 | 89 |
| 10/18/1994 | 16,000 | <10.0 | <5.0 | <5.0 | 28 | 250 | 24 | 79 |
| 04/11/1995 | 39,000 | <10.0 | <5.0 | <5.0 | 61 | 490 | 40 | 140 |
| 10/17/1995 | 63,000 | <10.0 | <5.0 | <5.0 | 110 | 1,100 | 60 | 290 |
| 04/16/1996 | 20,000 | 10 | <5.0 | <5.0 | 30 | 340 | 25 | 110 |
| 10/15/1996 | 1,400 | 7 | <5.0 | <5.0 | <10.0 | 48 | 5 | 22 |
| 04/22/1997 | 2,400 | <10.0 | <5.0 | <5.0 | <10.0 | 34 | 4 | 24 |
| 05/11/1999 | 1,410 | 2 | <0.2 | <0.3 | 2.6 | 54 | 4.8 | 78.5 |
| 05/24/2000 | 994 | 12 | <0.2 | <0.9 | 4.5 | 40 | <1.9 | 6.8 |
| 05/24/2001 | 16,000 | 8.4 J | 1.1 J | <5.0 | 27.1 | 315 | 26 | 96.8 |
| WELL: MW-5S | | | | | | | | |
| 06/29/1994 | 21,000 | 15 | <5.0 | <5.0 | 85 | 700 | 43 | 140 |
| 10/18/1994 | 9,300 | <10.0 | <5.0 | <5.0 | 30 | 290 | 15 | 54 |
| 04/11/1995 | 18,000 | <10.0 | <5.0 | <5.0 | 58 | 940 | 38 | 120 |
| 04/16/1996 | 1,200 | <10.0 | <5.0 | <5.0 | <10.0 | 41 | <3.0 | 35 |
| 10/15/1996 | 2,200 | <10.0 | <5.0 | <5.0 | <10.0 | 340 | 8 | 29 |
| 10/15/96 - Dup | 2,200 | <10.0 | <5.0 | <5.0 | <10.0 | 370 | 5 | 27 |
| 04/22/1997 | 740 | <10.0 | <5.0 | <5.0 | <10.0 | 82 | <3.0 | 18 |
| 05/11/1999 | 1,200 | <2.0 | <0.2 | <0.3 | 5.7 | 1,290 | 10.7 | 64.4 |
| 05/24/2000 | 74.4 | <2.6 | <0.2 | <0.9 | 2 | 49.7 | <1.9 | 23.5 |
| 05/24/2001 | 592 | <10.0 | 0.22 J | <5.0 | 7.1 J | 193 | <3.0 | 21.5 |
| WELL: MW-5I | | | | | | | | |

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 REGION III
 1650 Arch Street
 Philadelphia, Pennsylvania 19103-2029

April 25, 2002

SUBJECT: Hranica Landfill Superfund Site
 Five-Year Review Report

FROM: Peter W. Schaul, Chief
 Remedial Branch (3HS20)

TO: Abraham Ferdas, Director
 Hazardous Site Cleanup Division (3HS00)

Attached for your signature is the second Five-Year Review Report for the Hranica Landfill Superfund Site in Butler County, Pennsylvania. The physical aspects of the remedial action have been completed but the institutional controls remain to be implemented. The institutional controls required by the ROD includes the prohibition of : development of wells at the Site for use as drinking water, bathing water, or other domestic uses that would expose people or animals to the ground water; excavation or drilling of any type which may disturb areas of cover placement or reconstruction; use of the Site that may permit contact with soils determined by the endangerment assessment to present a potentially unacceptable health risk; and use of the Site that would allow free public access. The EPA attorney is working to implement the institutional controls.

The risk for people living near the Site has been removed by the remedial actions taken. However, because the institutional controls required by the 1990 ROD for OU1 are not in place, the remedy is not fully protective. EPA will insure that the PRPs put the required institutional controls in place.

| | | | | CONCURRENCES | | | |
|---------|---------------------|----------------------|-----------|--------------|--|--|--|
| SYMBOL | 3HS22 | 3HS22 | 3HS20 | | | | |
| SURNAME | R. Mathur <i>RM</i> | G. Crystal <i>GC</i> | P. Schaul | | | | |
| DATE | 11-25-02 | | | | | | |

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
1650 Arch Street
Philadelphia, Pennsylvania 19103-2029

SUBJECT: Addendum to Hranica Landfill Five Year Review

FROM: Rashmi Mathur, Remedial Project Manager
Hazardous Site Cleanup Division

TO: Hranica Site File, Butler County, PA

THRU: Peter W. Schaul, Director, Office of Superfund Site Remediation (3HS20)

The April 2002 Five Year Review for the Hranica Landfill Superfund Site identified certain issues and/or deficiencies requiring follow-up action. The following documents the current status of those issues.

SECTION I

The following identified issues have been addressed and/or resolved:

- The institutional controls were put into place February 4, 2003.

SECTION II

No items are needed in Section II

SECTION III

I have attached the deed notice recorded for the Hranica Landfill Superfund Site

cc: Raphael Gonzales, OSRTI
David Lopez, OSRTI

Butler County Tax Claim Bureau Deed

1997 Repository Sale

THIS DEED made this 4th day of February 2003, _____,
by the TAX CLAIM BUREAU OF THE COUNTY OF BUTLER in the Commonwealth of
Pennsylvania, Trustee Grantor, and Capenos Warren

_____, Grantee.

WITNESSETH, that in consideration of one dollar
_____ (1.00 Dollars, the receipt
whereof is hereby acknowledged, the herein Trustee Grantor does hereby grant and convey unto
the said Grantee:

All that certain parcel of land lying and being situate in the Township of
Buffalo, Butler County, Pennsylvania, and being identified
as Tax Parcel No. 040-1F79-12G-0000 on the tax maps prepared and maintained in the
Office of the Chief Assessor of the said County of Butler as of _____ pursuant
to the authority contained in the Fourth to Eighth Class County Assessment Law, as amended.

SOURCE OF TITLE: See Deed of Joseph Hranica, widower & Joseph V.
Hranica
to William Hranica
the same bearing the date of January 8, 1962,
and appearing of record in the Office of Recorder of Deeds in and for the said County of Butler in
Deed Book 761, page 487.

The same having been sold by the Tax Claim Bureau to the said grantee, on the
26th day of February 1997 after due advertisement according
to law, the period of redemption for the payment of tax claims having expired without the
property having been redeemed, or any tax judgements heretofore having been entered against
the described property having not been satisfied, or no agreement to stay the sale of the within
described property having been entered into, or the within described real estate no longer
remaining in possession of a sequestrator, by Upset Sale, by order of Court for Judicial Sale
entered to No. MSD 96-40318 Term, _____, in the Court of
Common Pleas in and for the County of Butler under and by virtue of the Act of 1947 PL 1368
(Real Estate Tax Sale Law).

RECORDED

TO HAVE AND TO HOLD, the same unto and for the use of the said
Grantee, _____
and assigns forever, Free and Clear subject to attached consent order *****.

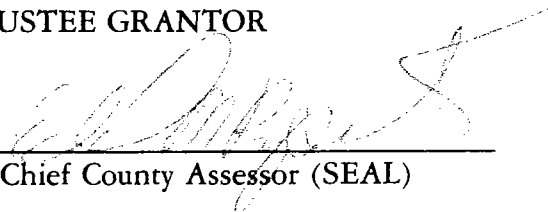
NOTICE

THIS DOCUMENT MAY NOT DOES NOT SEEM TO CONVEY TRANSFER IN
CURE OR INSURE THE TITLE TO THE LAND AND HERE TO SURFACE
UNDERMATH THE SURFACE LAND DESCRIBED OR REFERRED TO HEREIN,
AND THE CURE OR OWNERS OF SUCH COAL (MAY HAVE HAVE) THE
COMPLETE LEGAL RIGHT TO REMOVE ALL OF SUCH COAL AND IN ANY
CONNECTION, DAMAGE MAY RESULT TO THE SURFACE OF THE LAND AND
ANY HOUSE BUILDING OR OTHER STRUCTURE ON OF IN SUCH LAND. THE
INCLUSION OF THIS NOTICE DOES NOT ENLARGE, RESTRICT OR MODIFY
ANY LEGAL RIGHTS OR OBLIGATIONS OTHERWISE CREATED, TRANSFERRED,
EXCEPTED OR RESERVED BY THIS INSTRUMENT. (ITS PURPOSE IS TO
mainly provided in Section 1 of the Act of July 17, 1937, P.L. 514 as amended and
is not intended as notice of unrecorded instruments, if any.)

IN WITNESS WHEREOF, the said Tax Claim Bureau, as Trustee Grantor,
has hereunto caused this Deed to be executed by its Director the day and year first above written.

Signed, Sealed and Delivered
in the presence of:

TAX CLAIM BUREAU OF
BUTLER COUNTY, PENNSYLVANIA
TRUSTEE GRANTOR

By 

Chief County Assessor (SEAL)

NOTICE

THE UNDERSIGNED ACKNOWLEDGES BY THIS INSTRUMENT IN FULL TO THIS NOTICE AND THE ACCEPTANCE AND RECORDED OF THIS DEED AS ARE FULLY COGNIZANT OF THE FACT THAT THE UNDERSIGNED MAY NOT BE OBTAINING THE RIGHT OF PROTECTION AGAINST SUBSIDENCE AS TO THE PROPERTY HEREIN CONVEYED RESULTING FROM COAL MINING OPERATIONS AND THAT THE PURCHASED PROPERTY HEREIN CONVEYED MAY BE PROTECTED FROM DAMAGE DUE TO MINE SUBSIDENCE BY A PRIVATE CONTRACT WITH THE OWNERS OF THE ECONOMIC INTEREST IN THE COAL. THIS NOTICE IS INSERTED HEREIN TO COMPLY WITH THE BITUMINOUS MINE SUBSIDENCE AND LAND CONSERVATION ACT OF 1966.

WITNESS:

Grantee *Edward M. Rupert*

COMMONWEALTH OF PENNSYLVANIA :
: SS:
COUNTY OF BUTLER :

On this, the 4th day of February 2003, before me, the Prothonotary of the County of Butler, the undersigned officer, personally appeared Edward M. Rupert, Chief County Assessor of the County of Butler, Commonwealth of Pennsylvania, known to me to be the person described in the foregoing instrument and acknowledge that he executed the same in the capacity therein stated and for the purposes therein contained.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal,

Edward M. Rupert
Prothonotary

PROTHONOTARY OFFICIAL TITLE
COMMISSION EXPIRES FIRST MONDAY IN JAN. 2004

CERTIFICATE OF RESIDENCE

I hereby certify that the precise residence of the Grantee herein is as follows:

415 Edgewood Drive
Sarver PA 16055-9266

Edward M. Rupert
Grantee

Deed

Tax Claim Bureau
of
Butler County

Trustee
to

Warren Capenos
C/O US Environ. Protection Agency
1650 Arch Street (3RC43)
Philadelphia PA 19103
ATTN Sheila Briggs-Steuteville

Commonwealth of Pennsylvania

§§.

County of Butler

Recorded on this _____ day of _____ A.D. _____
in the Recorder's Office of said County, in Deed Book Volume, _____ Page _____.

Given under my hand and seal of the said office, the date above written.

_____, Recorder

IN THE UNITED STATES DISTRICT COURT
FOR THE WESTERN DISTRICT OF PENNSYLVANIA

| | | |
|---------------------------------|---|--------------------------|
| UNITED STATES OF AMERICA, | : | |
| | : | |
| Plaintiff, | : | |
| | : | |
| v. | : | CIVIL ACTION NO. 93-0688 |
| | : | |
| ESTATE OF WILLIAM HRANICA; | : | |
| JOSEPH HRANICA, in his capacity | : | |
| as EXECUTOR thereof, | : | |
| | : | |
| Defendants. | : | |
| | : | |
| | : | |
| _____ | : | |

CONSENT DECREE

CONSENT DECREE

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ATTACHMENTS 1-3

LIST OF ATTACHMENTS

- ATTACHMENT 1 . . . DESCRIPTION OF HRANICA LANDFILL SITE
- ATTACHMENT 2 . . . RECORD OF DECISION, HRANICA LANDFILL SITE,
June 29, 1990, issued by the U.S. EPA, Region III
- ATTACHMENT 3 . . . DEED RESTRICTIONS, to be filed by Joseph Hranica
for the Hranica Property.

IN THE UNITED STATES DISTRICT COURT
FOR THE WESTERN DISTRICT OF PENNSYLVANIA

| | | |
|-------------------------------------------|---|------------------|
| UNITED STATES OF AMERICA, | : | |
| | : | |
| Plaintiff, | : | |
| | : | |
| v. | : | CIVIL ACTION NO. |
| | : | |
| ESTATE OF WILLIAM HRANICA; | : | |
| JOSEPH HRANICA, in his capacity | : | |
| as Executor thereof, | : | |
| | : | |
| Defendants. | : | |
| <hr style="width: 40%; margin-left: 0;"/> | | |

CONSENT DECREE

WHEREAS, the United States of America ("United States"), on behalf of the Administrator of the United States Environmental Protection Agency ("EPA"), has filed a complaint in this matter against the Estate of William Hranica and Joseph Hranica, in his capacity as its Executor, in the United States District Court for the Western District of Pennsylvania pursuant to Sections 104(e), 106, and 113(g) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended by the Superfund Amendments and Reauthorization Act of 1986, Pub. L. 99-499, 100 Stat. 1613 (1986) ("CERCLA"), 42 U.S.C. §§ 9604(e), 9606 and 9613(g): (i) for injunctive relief pursuant to Section 104(e) of CERCLA, 42 U.S.C. 5 9604(e), for access for EPA and its authorized representatives onto certain land needed to effect the cleanup of a hazardous waste site known as the Hranica Landfill Site ("the Hranica Site" or the "Site") in Butler County, Pennsylvania (as hereinafter defined); (ii) for injunctive relief pursuant to Section 106 of CERCLA, 42 U.S.C. § 9606, for restricting use of the Site and placing restrictions on the deed for the "Hranica property" as hereinafter defined, and (iii) a declaratory judgment pursuant to Section 113(g) of CERCLA, 42 U.S.C. § 9613(g), and 28 U.S.C. 5 2201, as to liability for further response costs in connection with the Site as herein defined;

WHEREAS, the United States alleges that hazardous substances, as defined by Section 101(14) of CERCLA, 42 U.S.C. § 9601(14) (hereinafter "hazardous substances") which were disposed of at the Hranica Site have been released and/or threaten to be released at or from the Hranica Site into the environment;

WHEREAS, the United States alleges that the Defendants are among the parties jointly and severally liable to the United States pursuant to Section 107(a) of CERCLA, 42 U.S.C. § 9607(a), for response costs incurred by the United States at or for the Hranica Site, and/or are persons who may be required to allow the United States and/or its authorized representatives to have access to the Hranica Site under Section 104(e) of CERCLA, 42 U.S.C. § 9604(e);

WHEREAS, the Defendants do not admit any legal or equitable liability under any federal or state statute, regulation, or common law for any endangerment, nuisance, response, removal or remedial costs incurred or to be incurred by the United States, or for damages caused by the storage, treatment, handling, disposal, or release or threatened release of hazardous substances or pollutants or contaminants to, at, from or near the Hranica Site;

WHEREAS, on or about _____, 1992, the United States filed a Claim against the Estate of William Hranica and Joseph Hranica, Executor, with the Court of Common Pleas, Butler County, Orphans Court Division, seeking a grant of site access to undertake response actions at the Hranica Landfill Site and deed restrictions to ensure site access and limit future uses of the "Hranica property" which would be inconsistent with the selected remedy for the Site;

WHEREAS, the United States and the Defendants agree that settlement of this matter and entry of this Consent Decree are made in good faith in an effort to avoid expensive and protracted litigation and to settle and resolve claims asserted by the United States;

WHEREAS, in consideration of, and in exchange for the promises and the mutual undertakings and covenants herein and intending to be bound legally hereby, the Defendants and the United States by their authorized representatives have agreed to the entry of this Consent Decree.

NOW THEREFORE, it is hereby ORDERED, ADJUDGED, AND DECREED, as follows:

I. JURISDICTION

The Court has jurisdiction over the subject matter herein and the parties to this action pursuant to Sections 104(e), 106, and 113(g) of CERCLA, 42 U.S.C. §5 9604(e), 9606, and 9613(g), and 28 U.S.C. 5§ 1331 and 1345.

II. DEFINITIONS

Whenever the following terms are used in this Consent Decree or in any attachments or appendices hereto, the definitions specified hereinafter shall apply:

A. "Additional Response Actions" shall mean response actions performed at the Hranica Site in addition to those to be performed by PPG Industries and Aluminum Company of America pursuant to a separate Consent Decree [Civil Docket No. 91-1276 (W.D. Pa. 1991)] in connection with the Record of Decision, Hranica Landfill Site, dated June 29, 1990 as defined by Paragraph H below.

B. "Additional Response Costs" shall mean response costs incurred by the United States which are attributable to the performance of Additional Response Actions.

C. "Days" as used herein shall mean calendar days unless specified otherwise.

D. "Defendants" shall mean the Estate of William Hranica and his heirs, successors and assigns, and the Executor of the Estate of William Hranica ("Estate") who is Joseph Hranica.

E. "Endangerment Assessment" shall mean the Endangerment Assessment prepared as an attachment to the Phase II Comprehensive Site Investigation for the Hranica Site by IT Corporation on behalf of PPG Industries, Inc. and completed in April 1990.

F. "EPA" shall mean the U.S. Environmental Protection Agency.

G. "Executor" shall mean Joseph Hranica.

H. "Future Response Costs" shall mean all costs, including indirect costs, incurred by the United States in connection with the Site between February 5, 1991 and the effective date of the Remedial Design/Remedial Action Consent Decree entered into by PPG Industries, Inc., Aluminum Company of America, and the United States for performance of the remedy for the Hranica Site as set forth in the Record of Decision, dated June 29, 1990.

I. "Hranica Landfill Site," "Hranica Site," or "the Site" shall mean the "facility" as that term is defined in Section 101(9) of CERCLA, 42 U.S.C. § 9601(9), and 40 C.F.R. § 300.5 consisting of the property in the legal description attached as Attachment 1 and any other property which has been affected by the release of hazardous substances from the Hranica property.

J. "Hranica Property" or "property" shall mean the real property as described in Attachment 1 to this Consent Decree which is a copy of the Pennsylvania deed between Joseph Hranica and Joseph V. Hranica, Grantors, and William Hranica, Grantee, recorded in the Office for the Recording of Deeds for Butler County, Pennsylvania, in Deed Book Volume 761, at pages 487-88.

K. "NCP" shall mean the National Oil and Hazardous Substances Pollution Contingency Plan promulgated pursuant to Section 105 of CERCLA, 42 U.S.C. § 9605, codified at 40 C.F.R. Part 300, including, but not limited to, any amendments thereto.

L. "Operation and Maintenance" or "O & M" shall mean all activities required to maintain the effectiveness of the Remedial Action as required under the Operation and Maintenance Plan approved or developed by EPA pursuant to its Consent Decree with PPG Industries, Inc. and the Aluminum Company of America, entered by the Court on October 24, 1991, for Remedial Action and Remedial Design activities at the Site and the Scope of Work ("SCOW") attached thereto.

M. "Parties" shall mean the Estate of William Hranica; Joseph Hranica, in his capacity as its Executor, and the United States of America.

N. "Past Response Costs" shall mean all costs, including, but not limited to, interest and indirect costs that the United States incurred with regard to the Site prior to February 5, 1991.

O. "Record of Decision" or "ROD" (Attachment 2) shall mean the written determination by the Regional Administrator, EPA Region III, of appropriate remedial action for Operable Unit One for the Hranica Landfill Site, issued on June 29, 1990, made in accordance with Section 121 of CERCLA, 42 U.S.C. § 9621, and Section 300.430 of the NCP, 40 C.F.R. 5 300.430.

P. "Response Costs" shall mean all administrative, enforcement, investigative, remedial, removal, and indirect costs, and legal expenses (including attorneys' fees) and prejudgment interest incurred by the United States, pursuant to CERCLA, for response actions taken at or in connection with the Hranica Site.

III. PARTIES BOUND

This Consent Decree shall apply to and be binding upon the parties to this Consent Decree including the Estate of William Hranica and his heirs, successors and assigns, and the Executor of the Estate who is Joseph Hranica, and the United States, including EPA. The undersigned representative of the Defendants certifies that he is fully authorized by the Estate

and the heirs, successors, and assigns of William Hranica, including all of the children of William Hranica, to execute this Consent Decree and to bind legally the Estate and its successors and assigns including the children of William Hranica to this Consent Decree.

IV. NOTICE TO THE STATE

The United States has notified the Commonwealth of Pennsylvania of negotiations with the Defendants in this matter and the terms of this Consent Decree, in accordance with the requirements of CERCLA Section 121(f)(1), 42 U.S.C. § 9621(f) (1).

V. STATEMENT OF PURPOSE

The purposes of this Consent Decree, as well as the intention of the Parties, are: (A) to protect the public health and welfare and the environment from hazardous conditions which may be presented by any release or threatened release of hazardous substances, pollutants or contaminants at or from the Site, and (B) to further the public interest by avoiding protracted litigation between the Parties.

VI. GRANT OF SITE ACCESS

A. The Defendants shall grant the EPA, its authorized representatives, and/or parties which have entered into agreements with the United States EPA to undertake response actions at the Site, access, at all reasonable times, to the Hranica Landfill Site for the purposes of conducting, supervising, supporting, and monitoring all response actions authorized by CERCLA, including but not limited to conducting a remedial action as that term is defined in Section 101(24) of CERCLA, 42 U.S.C § 9601(24), conducting operation or maintenance activities as that term is defined in Section 104(c)(6) of CERCLA, 42 U.S.C. 5 9604(c)(6), and implementing all response actions as that term is defined in Section 101(25) of CERCLA, 42 U.S.C. 5 9601(25), relating to a release or threat of release of hazardous substances or pollutants or contaminants at or from the Hranica Landfill Site.

B. The Defendants agree and are hereby ordered not to interfere with, obstruct, or disturb the performance, support, or supervision of any remedial or response actions taken or to be taken at the Hranica Site, including any operation or maintenance activities.

C. The Defendants agree and are hereby ordered not to use any portion of the Site in any manner that would adversely affect the implementation of the response actions and/or operation and maintenance activities performed at the Site by EPA, its authorized representatives, and/or parties which have entered into agreements with the United States EPA to undertake response actions at the Site.

D. Nothing in this Consent Decree shall limit whatever authority the United States may have under CERCLA or any other law to enter or obtain access to any property, including the Site.

VII. DEED RESTRICTIONS ON USE OF THE PROPERTY

A. The Defendants agree not to and are hereby ordered not to engage in the following activities:

1. Development of wells on the Hranica property for use as drinking water, cooking water, bathing water, or other domestic uses that could expose people or animals to the ground water;
2. Excavation or drilling of any type on the Hranica property without prior written permission of EPA;
3. Use of the property that may permit contact with soils containing lead in excess of 300 parts per million, determined by the Endangerment Assessment to present a potential unacceptable health risk;
4. Use of the Hranica property that would allow free public access.

B. Within fifteen (15) days of the date of entry of this Consent Decree, the Defendants shall file with and/or on the deed, title, easement, and any instrument of conveyance for the Hranica property or any portion of the property the following covenants running with the land which appear as Attachment 3 to this Consent Decree and which state the following: (i) EPA, its authorized representatives, and/or parties which have entered into agreements with the United States EPA to undertake response actions at the Site shall have access at all reasonable times to the Hranica property or any portion thereof for purposes of conducting, supervising, supporting, and monitoring all response actions authorized by CERCLA, including operation and maintenance; (ii) no person shall interfere with, obstruct, or disturb the performance, support or supervision of any remedial or response actions taken or to be taken at the Hranica property, including any operation or maintenance activities; (iii) no person shall conduct any activities on the Hranica property or engage in any uses of the property which are enumerated in Article VII.A. of this Consent Decree and from which Defendants have agreed to refrain under Article VII.A. of this Consent Decree; and (iv) all grantor(s) of the Hranica property as defined herein or any portion thereof, shall inform any person or entity that subsequently acquires any title, easement, or other interest in the Hranica property, or any portion thereof, of the requirements, conditions and operative effect of this Article VII. The language of such deed restrictions and covenant running with the land is attached as Attachment 3 of this Consent Decree. Within five (5) days of the filing of such covenant, Defendants shall send documentation of such recordation and filing to EPA by certified mail in accordance with Article X (Notices).

C. A certified copy of this Consent Decree shall be attached as an exhibit to the covenants running with the land which are required to be made part of any deed, title, easement, or any instrument of conveyance for the Hranica property or any portion thereof as outlined in Article VII, Paragraph B. Within five (5) days of the filing of this Consent Decree as an attached exhibit to the deed, title, easement, or any instrument of conveyance, Defendants shall send documentation of such recordation or filing to EPA by certified mail in accordance with Article X (Notices).

D. At least sixty (60) days prior to any sale or transfer of the Hranica property or any portion thereof by the Defendants, the Defendants shall notify the United States, by certified mail, in accordance with Article X (Notices) of the intent to convey any title to or any other interest in the Hranica property or any portion thereof and the name and address of the proposed transferee, and provide to EPA copies of the proposed agreement of sale or lease and/or the deed, title, easement, or other instrument transferring any interest in the Hranica property or any portion thereof to illustrate compliance with this Article VII and comportment with the language of the deed restrictions and covenants running with the land set forth in Attachment 3. Any oral lease or other oral transfer of any interest or right in the Hranica property, or any portion thereof, shall also be expressly be made subject to such deed restriction and/or covenant running with the land and notification to EPA of such oral lease or transfer must also be made in accordance with Article X (Notices).

VIII. EFFECT OF SETTLEMENT

A. This Consent Decree was negotiated in good faith by the United States and the Defendants and entry of this Consent Decree by the Court constitutes judicial approval of the settlement embodied in it for the purposes of Section 113(f) of CERCLA, 42 U.S.C 5 9613(f). The United States and the Defendants agree that, subject to the satisfactory performance by Defendants of their obligations under Articles VI and VII of this Consent Decree, the Defendants shall obtain the Covenant Not to Sue set forth in Article IX of this Consent Decree.

B. Each Defendant agrees that with respect to any suit or claim for contribution brought against it arising out of the Site, it will timely notify the United States, in conformance with Article X, of the institution of such suit or claim. Defendants also agree that the United States shall be under no obligation to assist the Defendants in any way in defending against such suits for contribution. By entering into this Consent Decree, the Defendants are not waiving whatever rights they may have to contribution protection under CERCLA.

C. In any subsequent action brought by the United States in connection with the Site, the Defendants shall not assert any defense of claim-splitting, collateral estoppel, or res judicata based on the filing of the present action or entry of this Consent Decree.

IX. COVENANT NOT TO SUE

A. In consideration of the grant of access, as described in Article VI, and the recording of deed restrictions, as described in Article VII, and subject to Article IX.B., the United States covenants not to sue Defendants in any civil or administrative proceeding for any civil claims against or any civil liability of the Defendants under CERCLA for:

1. performance of the remedial action described in the Record of Decision for the Hranica Landfill Site dated June 29, 1990; and
2. performance of the operation and maintenance activities described in the Record of Decision for the Site dated June 29, 1990; and
3. payment of all Past Response Costs and Future Response Costs (as herein defined).

B. This covenant not to sue shall not apply, inter alia, to the following:

1. Claims based on criminal liability;
2. Claims for liability for damage to natural resources, as defined in Section 101(16) of CERCLA, 42 U.S.C. § 9601(16) or for recovery of costs incurred by a federal trustee of such resources assessing damage to, or restoration or replacement of, such resources; and
3. Claims for performance by the Defendants of any additional response actions or payment of any additional response costs; and
4. Claims arising from any current and/or future operations, activities, or uses of the Site by the Defendants, their heirs, successors, assigns, contractors and/or representatives.

C. The covenant not to sue set forth in Article IX.B. shall become effective upon receipt by the United States of the Defendants' notice of the recording of deed restrictions relating to site access and to uses of the property, as set forth in Article VII of this Consent Decree.

D. Whatever claims the Defendants may have against any other person in this or any other proceeding for contribution or indemnification of all or a portion of the cost of its settlement herein shall be secondary to whatever claims the United States may have against such other person for the response action or other costs incurred by the United States for actions taken at the Hranica Site.

E. For and in consideration of the covenants and promises made herein, the Defendants covenant not to sue or otherwise assert any cause of action, claim, or demand arising out of the Site or this Consent Decree against the United States, including any claim pursuant to Section 112 of CERCLA, 42 U.S.C. § 9612, or any other provision of law, directly or indirectly, or against the Hazardous Substances Superfund established by Section 221 of CERCLA, 42 U.S.C. § 9631. Such covenant not to sue shall become effective on the date of entry of this Consent Decree.

F. Nothing in this Consent Decree shall preclude the Defendants from asserting whatever claims they may have against any person not a party to this Consent Decree for indemnification, contribution, or cost recovery.

X. NOTICES

A. Whenever the terms of this Consent Decree require that notice be given, it shall be directed in writing, by certified mail, to the following agencies and individuals at the addresses specified below (or to such other address as such individual may designate by written notice):

1. If to the United States:
 - (a) Chief, Environmental Enforcement Section
Environmental and Natural Resources Division
U.S. Department of Justice
P.O. Box 7611
Ben Franklin Station
Washington, D.C. 20044

AND

- (b) Office of Regional Counsel (3RC30)
Attn.: Hranica Landfill Site
U.S. EPA Region III
841 Chestnut Building
Philadelphia, PA 19107

XI. RESPONSE AUTHORITY

Nothing in this Consent Decree shall be deemed to limit the response authority of the United States under Section 104 of CERCLA, 42 U.S.C. 5 9604, or to alter the applicable legal principles governing judicial review of any action taken by the United States pursuant to that authority.

XII. MODIFICATION; ARTICLE HEADINGS

A. Except as specifically provided in this Consent Decree, no modifications to this Consent Decree shall be made without written notification to and written approval of the United States and this Court.

B. All article headings herein are for convenience only and are in no way to be construed as part of this Consent Decree or a limitation on the scope of the provisions to which they may refer.

XIII. PUBLIC NOTICE AND COMMENT

Consistent with Section 122(i) of CERCLA, 42 U.S.C. § 9622(i), and 28 C.F.R. § 50.7, this Consent Decree shall be lodged with the Court for a period of not less than thirty (30) days for public notice and comment. The United States reserves its right as provided in this Article to withhold or withdraw its consent on the basis of such public comment.

XIV. EFFECTIVE DATES

A. This Consent Decree shall be effective upon the date of its entry by this Court. The United States may petition this Court for entry of this Decree only after the completion of the public comment period provided for by Article XIII above.

XV. USE OF DECREE

This Consent Decree was negotiated and executed by the United States and the Defendants in good faith to avoid expensive and protracted litigation. The execution of this Consent Decree does not constitute, and shall not be considered as, an admission of liability of the Defendants or the United States or as an admission of any wrongdoing, violation of law or fault for any purpose dealt with in this Consent Decree. This Consent Decree shall not be used in any judicial or administrative proceeding except to enforce the terms of this Consent Decree.

XVI. RETENTION OF JURISDICTION

A. This Court shall retain jurisdiction of this Consent Decree for purposes of ensuring compliance with its terms and conditions.

B. The United States and the Defendants each retain the right to seek enforcement of the terms of this Consent Decree and take any action authorized by federal law not inconsistent with the terms of this Consent Decree to achieve compliance with the terms and conditions of this Consent Decree or otherwise.

C. Nothing herein shall in any way abrogate or restrict the United States' authority to enforce all federal environmental laws.

**BY THEIR COUNSEL, THE PARTIES ENTER INTO THIS CONSENT DECREE
AND SUBMIT IT TO THE COURT, THAT IT MAY BE APPROVED AND ENTERED.**

ATTACHMENT 3

The following Covenant Running With the Land shall be appended to the deed for the Hranica property following the recital in said deed:

UNDER AND SUBJECT nevertheless to the express restrictions that these premises shall be subject to the following conditions of access and use, which conditions derive from the operation of the Consent Decree attached hereto:

(i) EPA, its authorized representatives, and/or parties which have entered into agreements with the United States EPA to undertake response actions at the Hranica Site shall have access at all reasonable times to the Hranica property or any portion thereof for purposes of conducting, supervising, supporting, and monitoring all response actions authorized by CERCLA, including operation and maintenance;

(ii) no person shall interfere with, obstruct, or disturb the performance, support or supervision of any remedial or response actions taken or to be taken at the Hranica property in connection with the Hranica Site, including any operation or maintenance activities;

(iii) no person shall conduct any of the following activities on, or engage in any of the following uses of, the Hranica property:

1. Development of wells on the Hranica property for use as drinking water, bathing water, or other domestic uses that could expose people or animals to the ground water;
2. Excavation or drilling of any type on the Hranica property without prior written permission of EPA;
3. Use of the property that may permit contact with soils containing lead in excess of 300 parts per million, determined by the Endangerment Assessment to present a potential unacceptable health risk;
4. Use of the Hranica property that would allow free public access.

(iv) all grantor(s) of the Hranica property as defined as all or any portion thereof, shall inform any person or entity that subsequently acquires any title, easement, or other interest in the Hranica property, or any portion thereof, of the requirements, conditions and operative effect of this covenant running with the land.



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF REVENUE
BUREAU OF INDIVIDUAL TAXES
DEPT. 280603
HARRISBURG, PA 17128-0603

REALTY TRANSFER TAX STATEMENT OF VALUE

See Reverse for Instructions

| RECORDER'S USE ONLY | |
|---------------------|-----------|
| State Tax Paid | 0 |
| Book Number | 2003 0204 |
| Page Number | 004897 |
| Date Recorded | 2-4-03 |

Complete each section and file in duplicate with Recorder of Deeds when (1) the full value/consideration is not set forth in the deed, (2) when the deed is without consideration, or by gift, or (3) a tax exemption is claimed. A Statement of Value is not required if the transfer is wholly exempt from tax based on: (1) family relationship or (2) public utility easement. If more space is needed, attach additional sheet(s).

A CORRESPONDENT - All inquiries may be directed to the following person:

| | | | | | |
|----------------|--------------------------------|-------|------------|-------------------|----------|
| Name | BUTLER COUNTY TAX CLAIM BUREAU | | | Telephone Number: | |
| Street Address | City | State | Zip Code | Area Code (724) | 284-5323 |
| P.O. BOX 1208 | Butler | Pa | 16003-1208 | | |

B TRANSFER DATA

| | | | | | |
|----------------------|--------------------------------------|------------|--------------------------------|--------------------|------------|
| Grantor(s)/Lessor(s) | BUTLER COUNTY TAX CLAIM / HRANICA WM | | Date of Acceptance of Document | | |
| Grantee(s)/Lessee(s) | Warren Capenos | | | | |
| Street Address | P.O. BOX 1208 | | Street Address | 415 Edgewood Drive | |
| City | State | Zip Code | City | State | Zip Code |
| Butler | PA | 16003-1208 | Sarver | PA | 16055-9266 |

C PROPERTY LOCATION

| | | | | |
|----------------|------------------|-------------------|-------------------------|-------------|
| Street Address | West of LR 10024 | | City, Township, Borough | Buffalo Twp |
| County | School District | Tax Parcel Number | | |
| Butler | Freeport Area | 040-1F79-12G-0000 | | |

D VALUATION DATA

| | | |
|------------------------------|------------------------------|------------------------|
| 1. Actual Cash Consideration | 2. Other Consideration | 3. Total Consideration |
| 700 | + | = 700 |
| 4. County Assessed Value | 5. Common Level Ratio Factor | 6. Fair Market Value |
| 1350 | X N/A | = |

E EXEMPTION DATA

| | |
|---------------------------------|-------------------------------------|
| 1a. Amount of Exemption Claimed | 1b. Percentage of Interest Conveyed |
| 10090 | |

2. Check Appropriate Box Below for Exemption Claimed

- Will or intestate succession _____ (Name of Decedent) _____ (Estate File Number)
- Transfer to Industrial Development Agency.
- Transfer to a trust. (Attach complete copy of trust agreement identifying all beneficiaries.)
- Transfer between principal and agent. (Attach complete copy of agency/straw party agreement.)
- Transfers to the Commonwealth, the United States and Instrumentalities by gift, dedication, condemnation or in lieu of condemnation. (If condemnation or in lieu of condemnation, attach copy of resolution.)
- Transfer from mortgagor to a holder of a mortgage in default. Mortgage Book Number _____, Page Number _____
- Corrective or confirmatory deed. (Attach complete copy of the prior deed being corrected or confirmed.)
- To correct the consent order NOT attached *****
- Statutory corporate consolidation, merger or division. (Attach copy of articles.)
- Other (Please explain exemption claimed, if other than listed above.) _____

Under penalties of law, I declare that I have examined this Statement, including accompanying information, and to the best of my knowledge and belief, it is true, correct and complete.

| | |
|-------------------------------------------------|--------|
| Signature of Correspondent or Responsible Party | Date |
| <i>Eileen M. Russell</i> | 2-4-03 |

FAILURE TO COMPLETE THIS FORM PROPERLY OR ATTACH APPLICABLE DOCUMENTATION MAY RESULT IN THE RECORDER'S REFUSAL TO RECORD THE DEED.