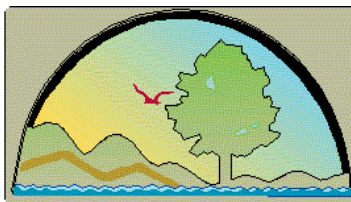


**MAXEY FLATS DISPOSAL SITE  
ANNUAL REPORT  
2003**

**March 15, 2004**



Environmental and Public Protection Cabinet  
Department for Environmental Protection  
Division of Waste Management  
Superfund Branch

Maxey Flats Disposal Site  
2597 Maxey Flat Road  
Hillsboro, KY 41049  
606-784-6612

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**List of Acronyms**

BoRP	Balance of Remedial Phase
Commonwealth	Commonwealth of Kentucky
DCSW	Drainage Channels Surface Water
IRP	Initial Remedial Phase
IMP	Interim Maintenance Period
MFDS	Maxey Flats Disposal Site
O & M	Operation and Maintenance Requirement Summary
PSVP	Performance Standards Verification Plan
PSSW	Perennial Streams Surface Water
RA	Remedial Action
USEPA	U.S. Environmental Protection Agency
USGS	U.S. Geological Survey

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## **1.0 Introduction**

The Maxey Flats Disposal Site (MFDS), located in Fleming County, Kentucky, approximately 10 miles northwest of Morehead, Kentucky, is an inactive low-level radioactive waste site owned by the Commonwealth of Kentucky (Commonwealth).

The Initial Remedial Phase (IRP), Remedial Action (RA) at the MFDS began in 1997 and concluded in June 2003. The U.S. Environmental Protection Agency (USEPA) issued the Certificate of Completion on October 6, 2003.

The Commonwealth is submitting this report in accordance with Section 4.0 of the Performance Verification Standard Plan (PSVP). The report details sampling and maintenance activities listed in the PSVP and the Operation and Maintenance Requirement Summary (O&M).

## **2.0 Scope of Work**

The Interim Maintenance Period (IMP) is ongoing pursuant to the Consent Decree (Civil Action Number 95-58) signed by the U.S. Environmental Protection Agency (USEPA), the Maxey Flats Steering Committee (Settling Private Parties), and the Commonwealth. The Commonwealth is responsible for completion of the Balance of Remedial Phase (BoRP) that includes the Interim Maintenance Period, Final Closure Period and Associated Remedial Activities and Performance Monitoring.

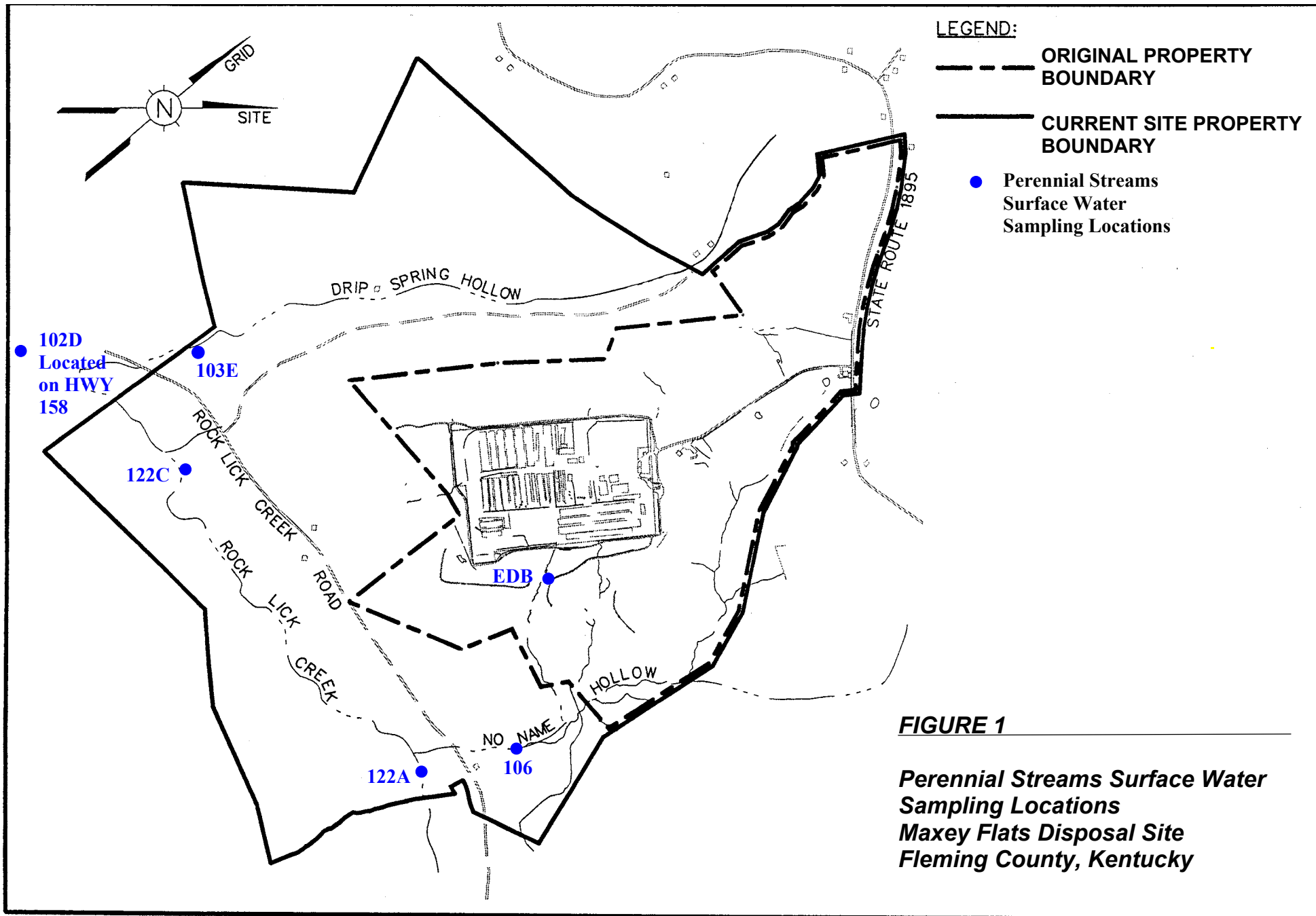
The Interim Maintenance Period Work Plan describes the tasks to be completed including:

- Surface/ground water monitoring
- IRP cap maintenance and replacement
- Trench leachate management and monitoring
- Subsidence monitoring and surveys
- Erosion evaluation
- General site maintenance
- Contaminated liquid and waste burial
- Data collection, analysis, and reporting
- Site drainage and erosion control features
- Installation of a horizontal flow barrier, if necessary

## **3.0 Surface Water Monitoring**

### **3.1 Perennial Streams Surface Water**

Perennial Streams Surface Water (PSSW) monitoring is performed in streams inside and outside the Maxey Flats Disposal Site's boundary and analyzed for tritium. Perennial Streams Surface Water locations are shown in Figure 1. The following is a brief description of the sampling locations.



**FIGURE 1**

**Perennial Streams Surface Water Sampling Locations  
Maxey Flats Disposal Site  
Fleming County, Kentucky**

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- Background samples are collected from location 122A upstream of the confluence of No Name Creek with Rock Lick Creek.
- Sampling location 106 is located on No Name Creek approximately 600 feet upstream from the confluence with Rock Lick Creek.
- Sampling location 122C is located on Rock Lick Creek downstream from the confluence of No Name Creek and upstream of the confluence with Drip Springs Creek.
- Sampling location 103E is located on Drip Springs Creek in the approximate area of the buffer zone boundary.
- Location 102D is located outside of the buffer zone area downstream from the three barrel culvert crossing Rock Lick Creek under KY Route 158. This is designated the compliance location because of the confluence of the three creeks and because the location is outside of the buffer zone area.

A total of 1,822 surface water samples were collected and analyzed for tritium during this period with no anomalous data reported. Charts of the data collected during this period along with a summary of the perennial streams surface water data are presented in Appendix A1 and A2 respectively.

Background samples are collected at stream sampling location 122A, upstream of the confluence of No Name Creek and Rock Lick Creek. The annual average of tritium passing this point was 0.06 pCi/ml.

Sampling locations 106B, 122C, and 103E are stream surface water locations inside the buffer zone boundary and are monitored for a comparison to the 4-mrem/year-dose limit and its derived tritium concentration of 20 pCi/ml. The annual averages of tritium passing sampling locations 106B, 122C, and 103E were 4.46 pCi/ml, 0.99 pCi/ml, and 0.51 pCi/ml respectively.

Stream surface water monitoring, sampling location 102D (Compliance Point), outside the buffer zone boundary is monitored for a comparison to the 4-mrem/year dose limit and its derived tritium concentration of 20 pCi/ml. The annual average of tritium passing sampling location 102D was 0.66 pCi/ml.

The sampling data reflected in Appendix A indicates the 4-mrem/yr-dose limit is being met at these locations.

### 3.2 Drainage Channels Surface Water

Drainage channels upstream of the perennial streams are monitored using sequential samplers to collect a daily composite sample and analyzed for tritium.

- C107 (West Drain)
- 143 (South Drain)
- 144 (East Drain)



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Drainage Channels Surface Water (DCSW) monitoring locations (Figure 2) established in drainage channels upstream of the perennial streams include C107 (West drain), 143 (South drain), and 144 (East drain). These locations are monitored for comparison to 25-mrem/yr total effective dose equivalent (TEDE). The annual averages of tritium passing sampling locations C107, 143, and 144 were 10.55 pCi/ml, 0.23 pCi/ml, 69.94 pCi/ml respectively.

Daily composite samples were collected from C107 and 143 using a sequential sampler while sampling location 144 was a monthly grab sample. A sequential sampler was installed at sampling location 144 during the latter part of December 2003 to start collecting daily composite samples January 1, 2004.

A total of 632 samples were collected and analyzed for tritium during this period with no anomalous data reported. Charts of the data collected during this period along with a summary of the drainage channel surface water data is presented in Appendix B1 and B2 respectively.

The sampling data reflected in Appendix B indicates the 25-mrem/yr-dose limit is being met at these locations.

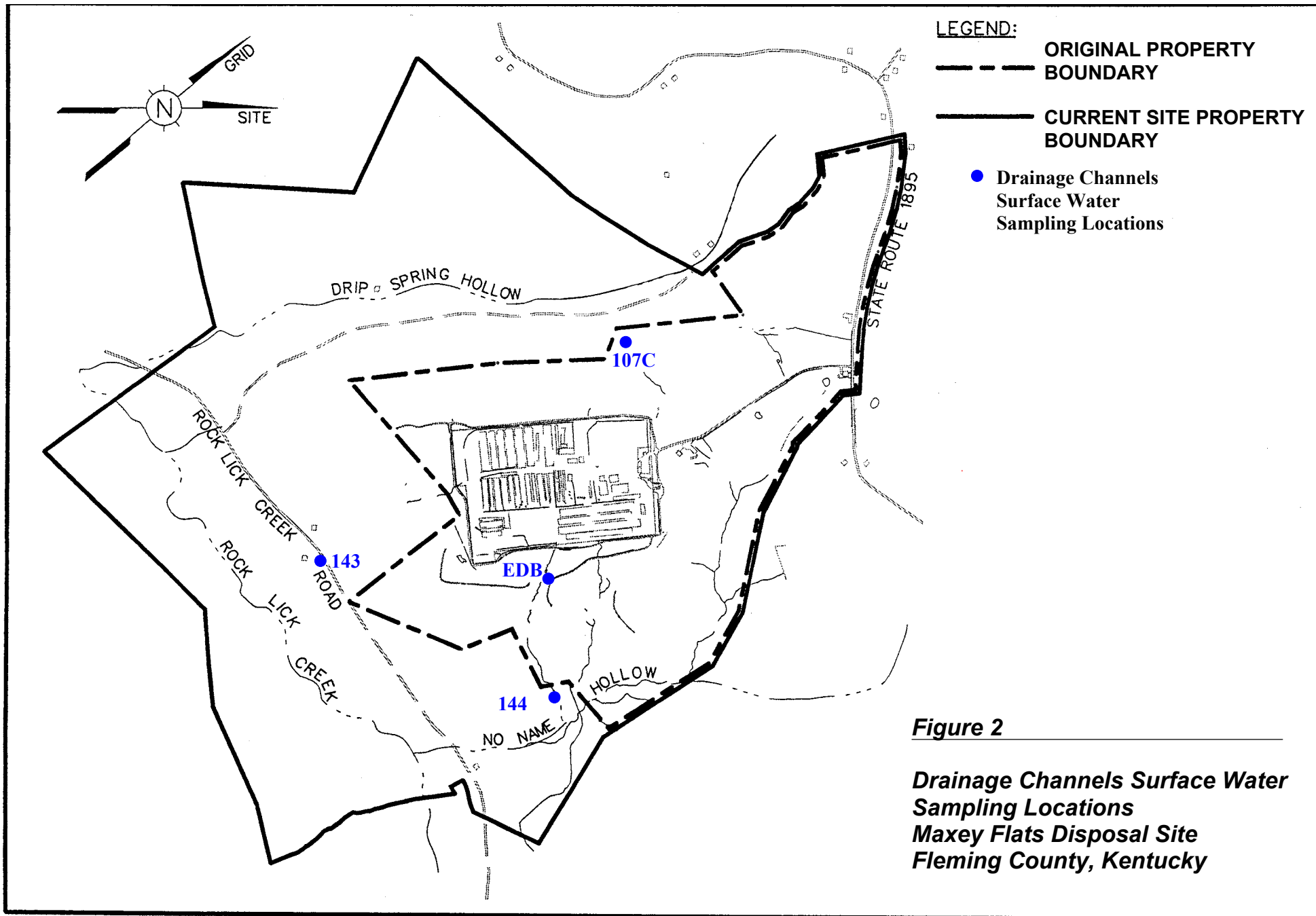
The first point of monitoring surface water runoff from the Maxey Flats Disposal Site is at the East Detention Basin (EDB). Sampling is performed at the EDB based on storm events of 2.8 inches of rainfall in a 24-hour period. In order for the sequential sampler to collect a storm event sample, the sampler is programmed to collect a sample based on 0.11 inches of rainfall per hour, which is the highest setting not to exceed the 2.8 inches in a 24-hour period. Appendix B2 contains a summary of the data obtained during this reporting period. A total of 21 samples were collected and analyzed for tritium with the annual average of tritium passing this point being 0.13 pCi/ml.

### 3.3 Streams Surface Water Data Summary

The analytical results for those points established for compliance monitoring during the IMP demonstrates there is no risk to human health or the environment.

### 3.4 Sampling Equipment Status

All sampling equipment operated properly with no replacements necessary. Samples were collected in accordance with the PSVP unless problems occurred beyond site's control such as freezing lines, washouts, no flow, or power outages. Comments are noted in the data summary of Appendix A2 and Appendix B2.



**Figure 2**

**Drainage Channels Surface Water  
Sampling Locations  
Maxey Flats Disposal Site  
Fleming County, Kentucky**

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**4.0 Dose Assessment**

Waterborne pathways are the only significant contributor to dose with tritium being the only significant radionuclide. Concentrations are first compared directly to 20 pCi/ml, followed by a monthly and annual average comparison. A list of the sampling locations with the average activity, and dose assessment is listed in Appendix C. Table 1 is a summary of the annual average dose for each sampling location.

**Table 1**

Location	Dose (mrem)
<u>122A</u>	<u>2.92E-03</u>
<u>106</u>	<u>2.05E-01</u>
<u>122C</u>	<u>4.55E-02</u>
<u>102D</u>	<u>3.09E-02</u>
<u>103E</u>	<u>2.45E-02</u>
<u>143</u>	<u>9.94E-03</u>
<u>144</u>	<u>2.68E+00</u>
<u>C107</u>	<u>4.31E-01</u>
<u>EDB</u>	<u>4.71E-03</u>

Based on the assumption that all water sampled is available as drinking water, the annual whole-body dose for tritium in mrem/y is calculated using the following equation:

$$D_{\text{whole body}}(\text{mrem/y}) = C_w \times U_w \times D_w$$

where

$C_w$  = concentration of tritium in water (pCi/L)

$U_w$  = water consumption rate (L/y) = 730L/y for maximally exposed individual

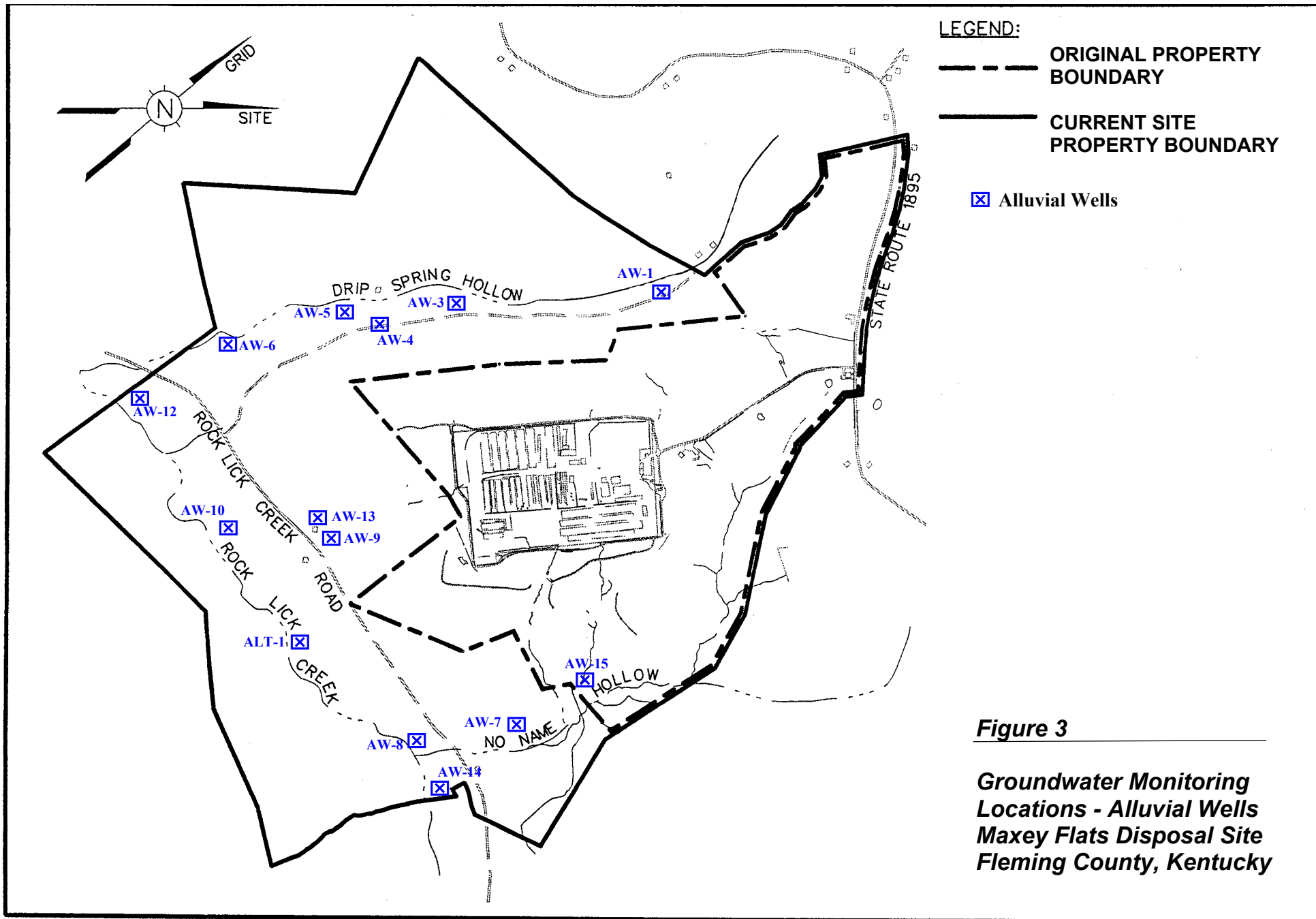
$D_w$  = dose conversion factor (mrem/pCi)

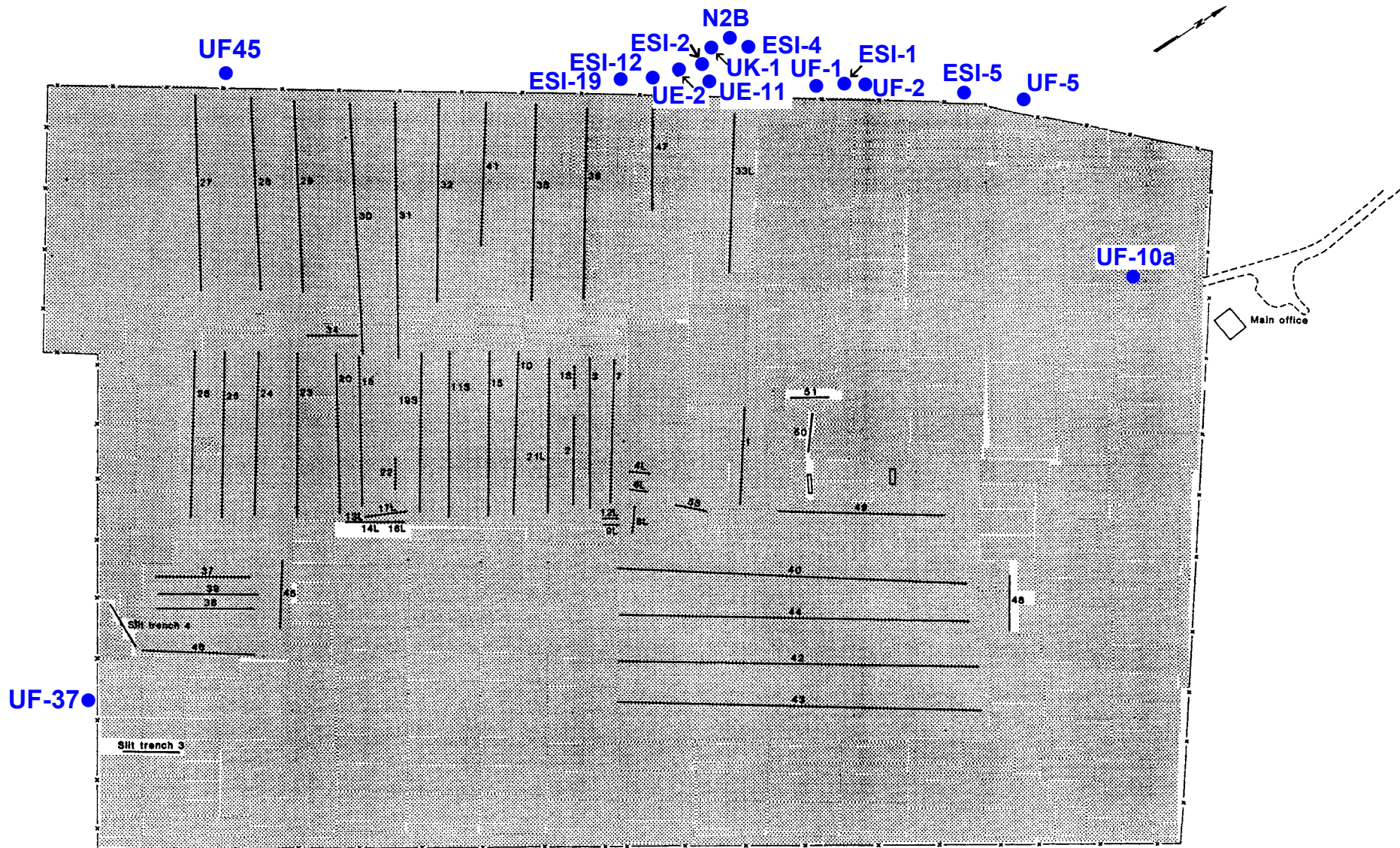
=  $6.3 \times 10^{-8}$  mrem/pCi for tritium for whole body ingestion pathway for an adult

$D_{\text{whole body}}$  = effective dose equivalent (mrem/y) from ingestion of 730 L of potable water with tritium concentration  $C_w$ .





**5.0 Groundwater Monitoring**

Groundwater monitoring locations, referred to as alluvial wells and USGS monitoring wells, are shown in Figure 3 and Figure 4 respectively. Charts and a summary of the data collected during this period for the Alluvial Wells are located in Appendix D1 and D2 respectively. Charts and a summary of the data collected during this period for the USGS Monitoring Wells are located in Appendix D3 and D4 respectively.





**EXPLANATION**

-  POLYVINYLCHLORIDE COVERED AREAS
-  FENCE (RESTRICTED AREA)
-  TRENCH CENTERLINE AND TRENCH NUMBER
-  **UF-1** WELL AND WELL NUMBER

**Figure 4**

**Groundwater Monitoring Locations - USGS Wells Maxey Flats Disposal Site Fleming County, KY**

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## 5.1 Alluvial Wells

Four alluvial wells (AW-6, AW-7, AW-10, and AW-12) were monitored quarterly and analyzed for tritium, with the remaining ten alluvial wells monitored annually. During this reporting period, a total of 26 samples were collected and analyzed for tritium. The tritium level detected in the alluvial wells varied from 0.00 to 16.35 pCi/ml. A summary of the data obtained from the alluvial wells during this reporting period is presented in Appendix D2. Due to the number of data points, only four wells, (AW-6, AW-7, AW-10, and AW-12) are shown in chart form (Appendix D1).

The concentration of tritium in well AW-7 is gradually decreasing while the activity for AW-1 has shown an increase over two monitoring periods. Because access to the alluvium within the buffer zone is controlled by the Commonwealth, the alluvial wells are not considered a drinking water source and therefore do not represent a potential radiological dose.

## 5.2 USGS Monitoring Wells

Sixteen monitoring wells around the perimeter of the site are monitored using automatic monitoring devices to record the liquid level measurement. Of these sixteen wells, four wells were selected for sampling on a semi-annual basis.

Charts of the liquid level and a summary of that data are presented in Appendix D3 and D4 respectively. A summary of the sampling data obtained from the USGS monitoring wells during this reporting period is presented in Appendix D5. The activity ranged from 28,000 pCi/ml to 663,065 pCi/ml. Wells UE-2, UF-37, and UF-45 have data missing due to corrupted data memory cards and/or low battery.

## 6.0 Data Management

A data package is prepared for each group of samples analyzed on site. The data package contains the instrument's QC charts (efficiency and background), chain of custody form(s), raw data sheet, and data reduction sheet. Data is reviewed and validated through on-site procedures. An employee of the Commonwealth whose normal duties are not involved with the Maxey Flats Disposal Site validates the data monthly. Following validation, the data is entered into the site's database and transmitted to USEPA, the Steering Committee's representative and other Commonwealth personnel.

### 6.1 Data Reporting

Sampling data for the IMP was reported in accordance with the PSVP. The following indicates the month and the date the data was sent via e-mail to all parties.

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Month	Date Sent	Month	Date Sent
January -----	02/25/03	February ----	04/02/03
March -----	05/08/03	April -----	05/23/03
May -----	06/23/03	June -----	07/17/03
July -----	08/28/03	August -----	09/19/03
September ---	10/29/03	October -----	11/18/03
November ---	12/23/03	December ---	01/20/04

The Semi-annual report was mailed out to EPA and de maximis, inc. on August 3, 2003.

## 7.0 Rainfall Data

Presently there are three rain gages on site: East Detention Basin, UF-37, and the main office. The annual rainfall data presented in Appendix E was obtained from the rain gage located at the East Detention Basin. This data was chosen because the gage is used in conjunction with the sampler at the East Detention Basin. A total of 54.18 inches of rainfall was measured at this gage during the year 2003.

## 8.0 IRP Cap Maintenance

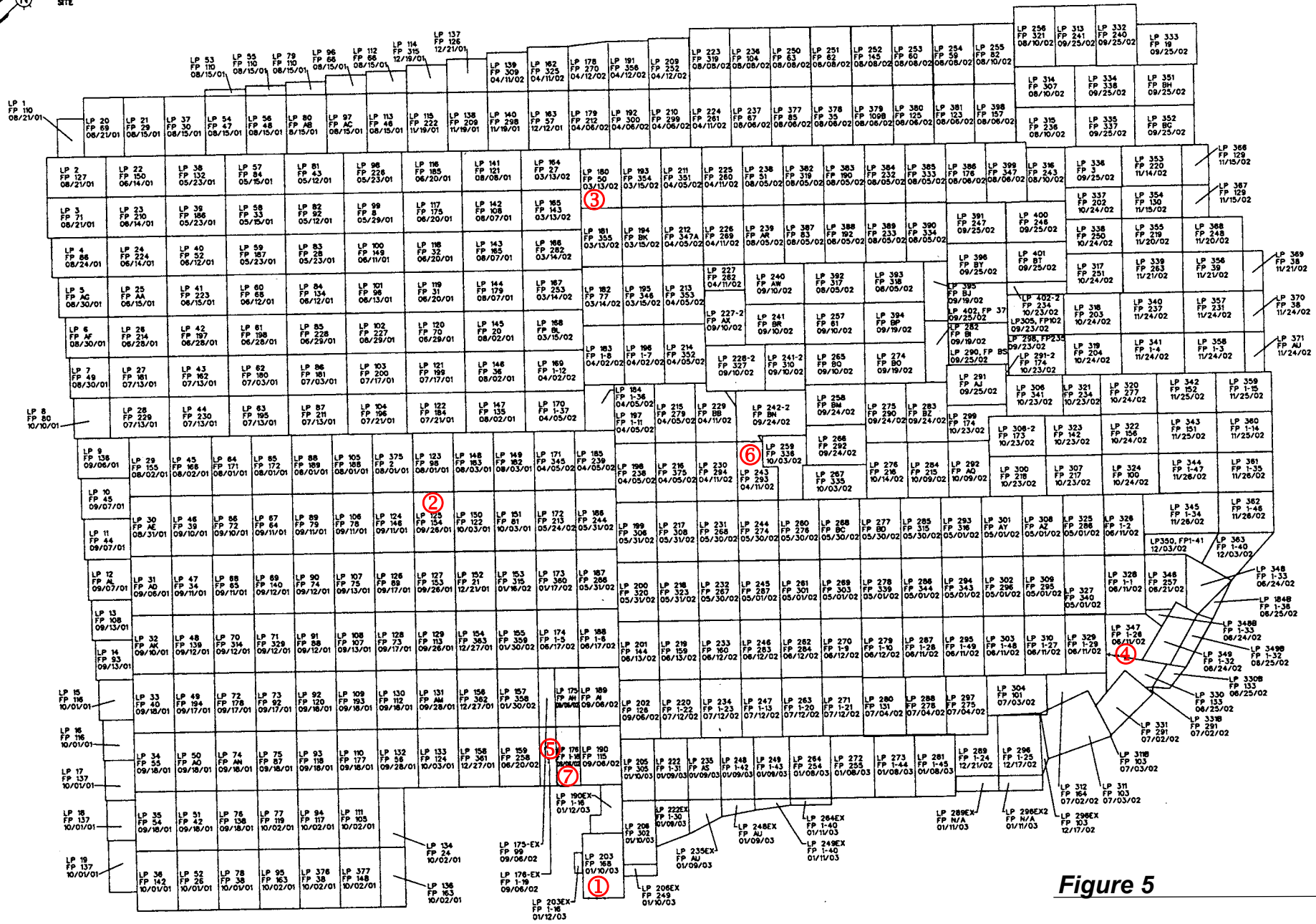
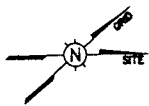
IRP cap maintenance items include: 1) geo-membrane liner and boots, 2) headwall maintenance, 3) subsidence area repairs, 4) sumps, 5) diversion berms, 6) anchor trenches, 7) drainage channels, 8) articulating concrete block mat (AB-mat) system, 9) North Channel emergency spillway, and 10) the former leachate storage facility area.

### 8.1 Geo-membrane liner and boots

A total of seven repairs were made to the liner during this period, none of which are considered as major repairs. Figure 5 (Geo-membrane Liner Repair Locations) shows the locations of defective areas where repairs were made to the geo-membrane liner during this period. Table 2 is a brief description of the defects detected and repaired during this reporting period.

**Table 2**

Date	Panel ID	Size of Defect
5/13/2003	168	24-inch cut
7/1/2003	125	3-inch cut
9/8/2003	180	Two ½-inch holes; 4x6 inch patch
9/8/2003	176	4x4-inch area
9/8/2003	347	¼-inch hole for releasing water
9/24/2003	243	6-inch cut
11/3/2003	176	Bubbles in extrusion weld



**Figure 5**  
**Geo-membrane Liner Repair Locations (2003)**  
**Liner Panel Layout**  
**Maxey Flats Disposal Site**  
**Fleming County, Kentucky**

- ① Assigned Defect ID: 5 13 03-1
- ② Assigned Defect ID: 070103-1
- ③ Assigned Defect ID: 090803-1
- ④ Assigned Defect ID: 090803-2
- ⑤ Assigned Defect ID: 090803-3
- ⑥ Assigned Defect ID: 092403-1
- ⑦ Assigned Defect ID: 110303-1



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The trench sump boots were inspected during the monthly liner inspections and during the downloading of the trench sump's liquid level measurements. During this period there were no signs of any defects at the sump boots.

Monthly inspections of the geo-membrane liner were conducted as required by the Operation and Maintenance Summary Requirement (O&M).

A summary of the repairs made to the geo-membrane liner is presented in Appendix F along with the repair and quality assurance forms. The inspections performed during this period (Appendix G), indicate the geo-membrane liner is functioning as designed and meeting performance standards.

## 8.2 Headwall Maintenance

Headwall maintenance includes the four headwalls and associated items along the North Channel and the NE corner piping, geo-membrane liner batten and the liquid collection system. All items were found to be in satisfactory condition with the exception of debris/leaves collecting at the trash grate and restricting plate at the upstream headwall of the NE Corner piping. Removal of the leaves/debris will be a continuous maintenance issue for the site.

## 8.3 Subsidence Monitoring and Repair

Inspections were conducted monthly in accordance with the O&M plan. There has been no noticeable subsidence of the trench area during this reporting period, which meets requirements of the O&M, Section 3.3.3 Subsidence Monitoring.

## 8.4 Diversion Berms

The diversion berms were inspected twice-a-month as required by the O&M. All were found to be in satisfactory condition.

Liquid was detected under the polypropylene liner at diversion berm number 6, liner panel number 176. A sample was collected, analyzed and found to be within release limits. Liquid was released and repairs to the geo-membrane liner were made as required.

## 8.5 Anchor Trenches

The anchor trenches were inspected twice-a-month as required by the O&M. All were found to be in satisfactory condition.

## 8.6 Drainage Channels

All drainage channels were inspected during this period as required by the O&M. Control of weeds/vegetation in the gabion basket was performed by spraying the areas with weed killer and/or manually removing the vegetation.

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8.7 Articulating Concrete Block Mat (AB-mat) System

The articulating concrete block system was inspected monthly as required by the O&M. The AB Mat System is satisfactorily functioning as designed.

Two blocks in the AB Mats System of the south drainage channel were found to have shifted and to be standing vertical during the August 2003 inspection. A visual inspection of the area was conducted to determine the cause for the shifting of the blocks (Photo 1). In the area where the blocks had shifted, no cable clamps could be found connecting the blocks to the existing blocks upstream. The blocks were repositioned and secured to the existing system (Photo 2) using cable clamps to hold the sections together.

8.8 Former Leachate Storage Facility Area

The former leachate storage facility area was found in satisfactory condition. The area shows no signs of subsidence or any damage to the geo-membrane liner or boots around the tank extensions.

8.9 Inspections

A total of 87 inspections were performed during the period of February 2003 through December 2003. All items inspected were found in satisfactory condition and meeting performance standards. Appendix G contains the inspection forms that were completed during this period.

8.10 Equipment Status

All equipment used for the repairs to the liner remains in good working condition. Quality control (QC) checks of the liner welding equipment are conducted prior to making repairs to the geo-membrane liner. Following the completion of the repairs, the equipment was cleaned and placed in storage.

**9.0 Trench Leachate Management and Monitoring**

Trench sump liquid level measurements were obtained in accordance with the Performance Standard Verification Plan (PSVP), Section 2.3 Sump Measurement. The collection and evaluation of the trench sump leachate levels are to: (1) detect recharge conditions that may require leachate management, and (2) provide data for future evaluation of the horizontal flow barriers.

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Photo 1 – Defective area South drain prior to making repairs



Photo 2 – Blocks positioned in place with clamps added

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Electronic water level monitoring devices have been installed to monitor the leachate level of the trench sumps. Two types of data loggers were originally installed, Water Log Model H-500 and Global Model WL14X. Due to problems (power source and moisture) associated with the Global Models, replacement of the Global Models was necessary. The units were replaced with the Water Log Model H-500XL.

A total of eighty-three trench sumps remain following the remedial construction. Of the eighty-three trench sumps, seventy-seven trench sumps have automatic monitoring devices leaving six that are not monitored using automatic monitoring devices. The six that do not have the automatic monitoring devices are either dry or have insufficient liquid for the automatic monitoring devices to function properly. These six trench sumps are manually measured at a minimum of once per year.

The data loggers are programmed to obtain a liquid level measurement once per day. The reading obtained on the first day of the month has been selected for reporting.

Charts and a summary of the liquid level measurements for all eighty-three trench sumps are found in Appendix H1 and H2, respectively. The freeboard calculations are located in Appendix H3.

## **10.0 Contaminated Liquid and Solid Waste**

Contaminated liquid and waste generated on site will be disposed of in accordance with the IMP Work Plan; Section 3.2, Treatment of Other Contaminated Liquids, and Section 3.3, Waste Burial.

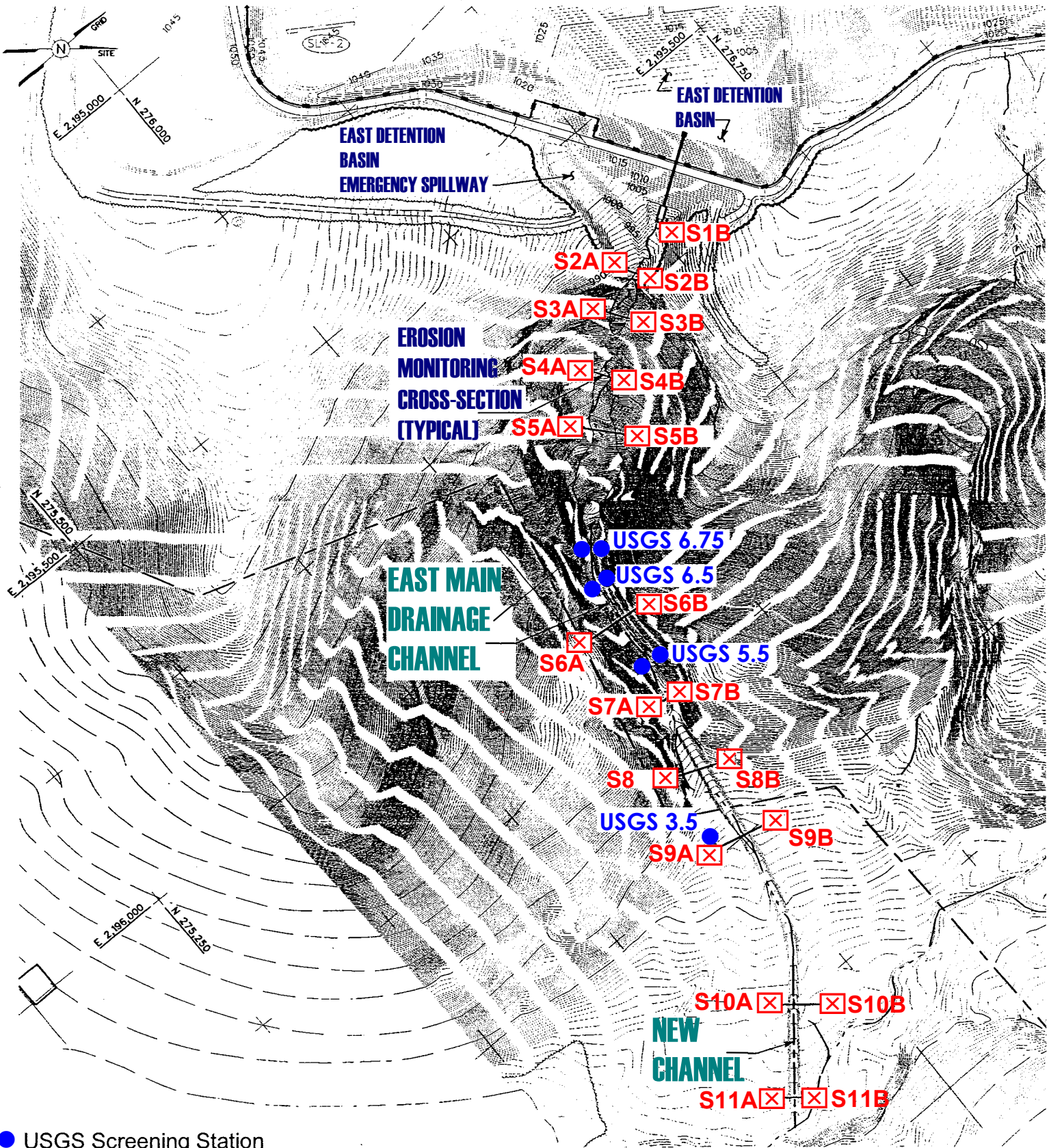
No liquid removed from the trench cap area required storage in the on-site liquid storage tank during this reporting period.

The thirty-eight Global Data Loggers that were replaced with the Water Log Models were disposed of in the underground tank along with several bags of trash left over from the remedial activities.

## **11.0 Erosion Monitoring**

Erosion monitoring consists of obtaining elevation measurements and observations of the east drainage channel. The U.S. Geological Survey monitored the East Main Drainage Channel three times during this reporting period. Locations of the erosion monuments are shown in Figure 6 (Erosion Monitoring Locations). Charts of the erosion measurements obtained during this period are found in Appendix I1 with the erosion measurements in Appendix I2. A summary of the area for each cross section at the East Drain is presented in Appendix I3. Photographs depicting the marker locations are included with this file on compact disc labeled, USGS Erosion Marker 2003. There was no major erosion or slides in the channel during this reporting period.

Observance of the south and west channels were completed in the spring and fall and found minimum erosion occurring.



- USGS Screening Station
- ⊠ Cross Sections Installed During Remedial Activities

**Figure 6**  
**Erosion Monitoring Locations**  
**Maxey Flats Disposal Site**  
**Fleming County, KY**

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**12.0 IMP Work Plan Revisions, Changes and Correspondence**

Revisions and changes to the IMP Work Plan are required to be in writing and submitted to USEPA for approval. During this reporting period, no revisions or changes were required.

Deed restrictions for the buffer zone property were recorded with the Fleming County Clerk office on January 5, 2004. Copies of the deed restrictions were sent to USEPA.

**13.0 Custodial Care Activities**

13.1 Vegetation

Vegetation covering the areas that were disturbed during the remedial activities is slowly being established. All areas were mowed at least once during the growing season with the exception of the borrow area and the stockpile area. The borrow area and stockpile area were mowed late in the growing season to allow the area to reseed in order to obtain a more established stand of vegetation.

Several low areas in the borrow area located to the north of the Site have been flagged for repair. A contractor, Shearer and Thompson Farm Supply, is scheduled to make the repairs during the spring of 2004. The areas will be filled with topsoil, seeded and covered with mulch.

The area east of the site was used for screening of material used for cap construction. Material (rocks, etc.) not suitable for the cap area was stockpiled along the southeastern corner and covered with topsoil. Due to voids in the placement of the material, settling has occurred leaving holes between the rocks. A time will be scheduled to haul material to the areas, fill the holes and seed the areas.

13.2 Building Maintenance

Routine maintenance including cleaning gutters and maintaining locking mechanisms for doors was performed on the buildings on site. No major modifications or repairs were necessary during this reporting period.

13.3 Security Fence

The security fence surrounding the Site was found in satisfactory condition with no maintenance required during this period. The gates and locking mechanisms were checked and maintenance was performed as indicated by the O&M plan.

13.4 Roadway maintenance

The perimeter road around the site remains in good condition except for a few areas where surface water has caused washouts. These areas have been repaired several times over the year but continue to washout during rain events.

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One washout section is along the east side of the site approximately midway between the northeast corner and the East Detention Basin. This area has no drainage ditch along the road to channel runoff to a central location. To correct the problem, a small drainage ditch will be cut and a culvert installed to divert surface water to the drainage channel east of the perimeter road.

The other areas are along the west side of the site. In more than one place the gravel is being washed out by surface flow during a rain event. There is no good solution to this occurrence because the road receives all surface runoff from the outer bank of the west channel.

#### **14.0 Demolition of Buffer Zone Buildings**

CRS Demolition, Louisville, Kentucky, began demolition of the buffer zone buildings on December 2, 2003 and concluded on December 23, 2003. Buildings on the south side of Rock Lick Road were buried in place while the buildings on the north side were hauled to a burial site on the south side of Rock Lick Road. The two barns along the north entrance to the site were demolished and buried. All areas disturbed during the demolition of the buildings were graded, seeded, and covered with mulch. A file labeled Site Bldg Demolition 2003 is included on this compact disc. This file contains photographs of the buildings prior to demolition and upon completion.

#### **15.0 Cathodic Protection**

The cathodic protection for the underground waste disposal tank was checked monthly. All readings were within the accepted range according to the operating instructions. The instructions received during the installation and training stated the DC Voltage should range from 5.0-7.5 volts and the DC Amps should not fall below 1.0. Table 3 contains the recordings by date of the DC volt readings, DC Amp readings, and the individual taking the recordings for the cathodic protection device.

**Table 3**

<b>Date</b>	<b>Reading (DC volts)</b>	<b>Reading (DC Amps)</b>	<b>Reading By:</b>
January	6.0	2.00	Jeff Stamper
February	6.0	1.90	Jeff Stamper
March	6.0	2.00	Jeff Stamper
April	6.5	1.80	Jeff Stamper
May	6.5	1.80	Jeff Stamper
June	6.4	2.00	Jeff Stamper
July	7.0	2.00	Jeff Stamper
August	7.0	1.80	Jeff Stamper
September	7.0	1.90	Jeff Stamper
October	6.5	2.00	Roger Brown
November	7.0	2.00	Jeff Stamper
December	6.5	1.95	Jeff Stamper

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**APPENDIX A**

**PERENNIAL STREAMS SURFACE WATER  
DATA CHARTS AND SUMMARY  
2003**



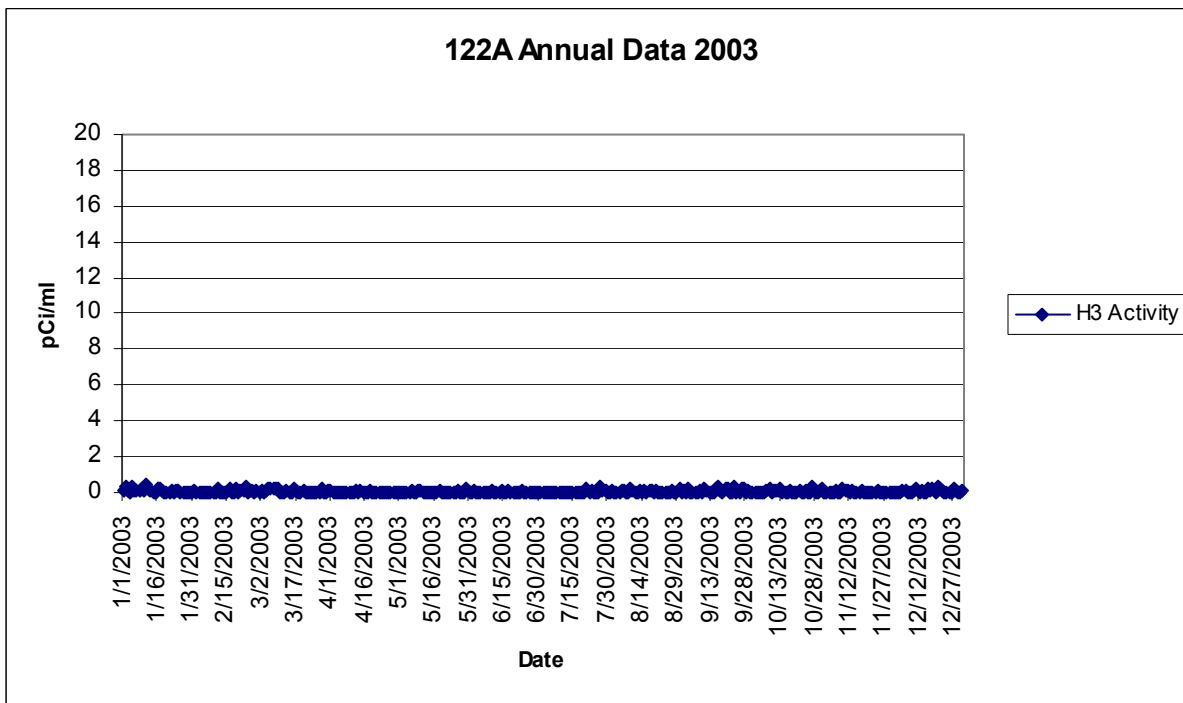
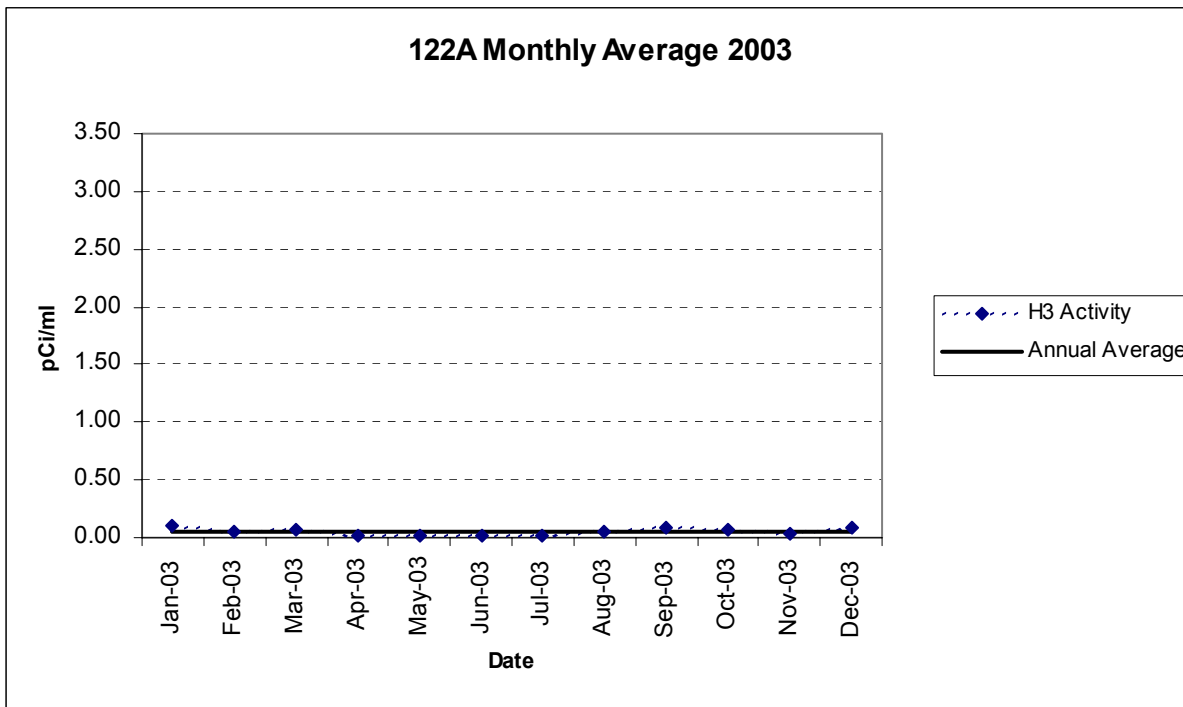
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**APPENDIX A1**

**PERENNIAL STREAMS SURFACE WATER  
DATA CHARTS 2003**

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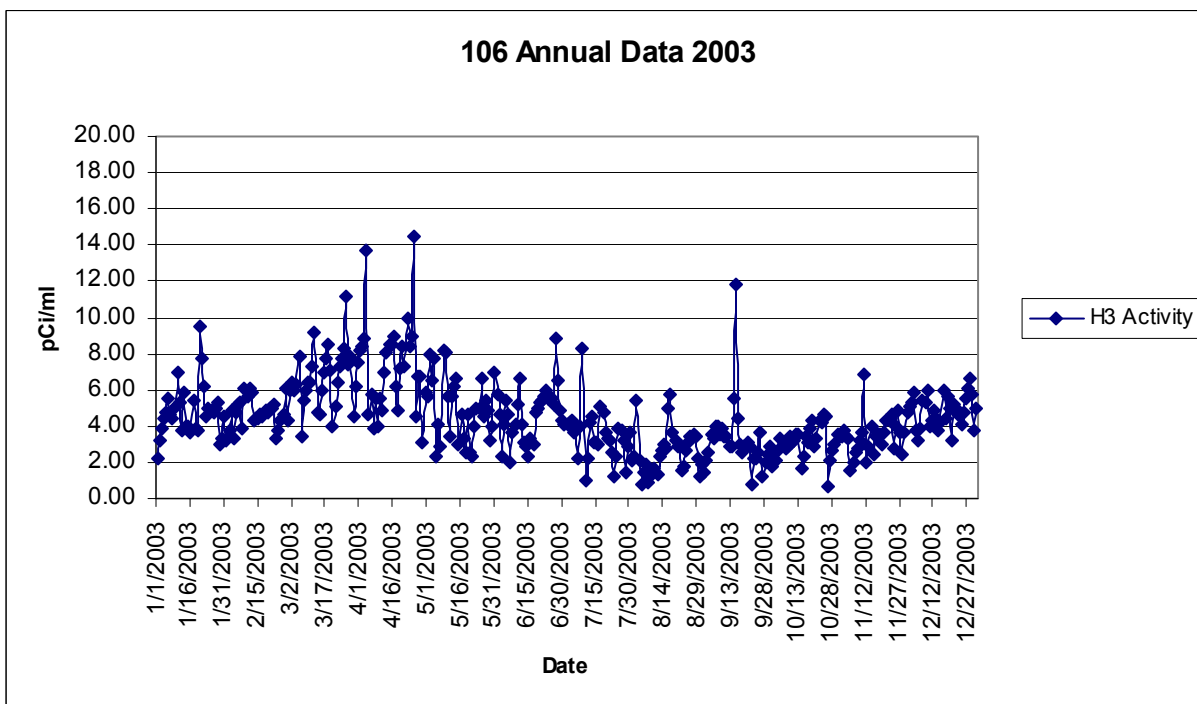
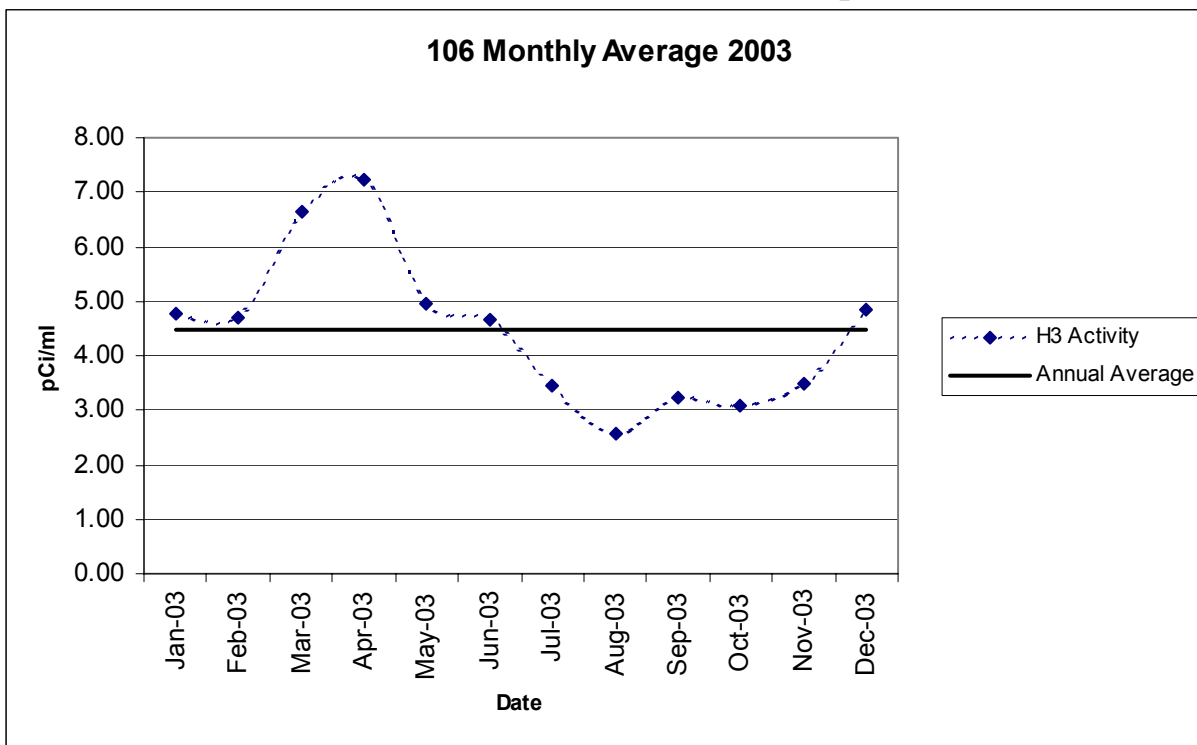
**Perennial Streams Surface Water PSVP Compliance Point 122A  
 Background Location**



Note: All samples less than 20 pCi/ml  
 MDA = 0.44 pCi/ml  
 Annual average = 0.06 pCi/ml  
 Min 0.00 pCi/ml Max = 1.31 pCi/ml

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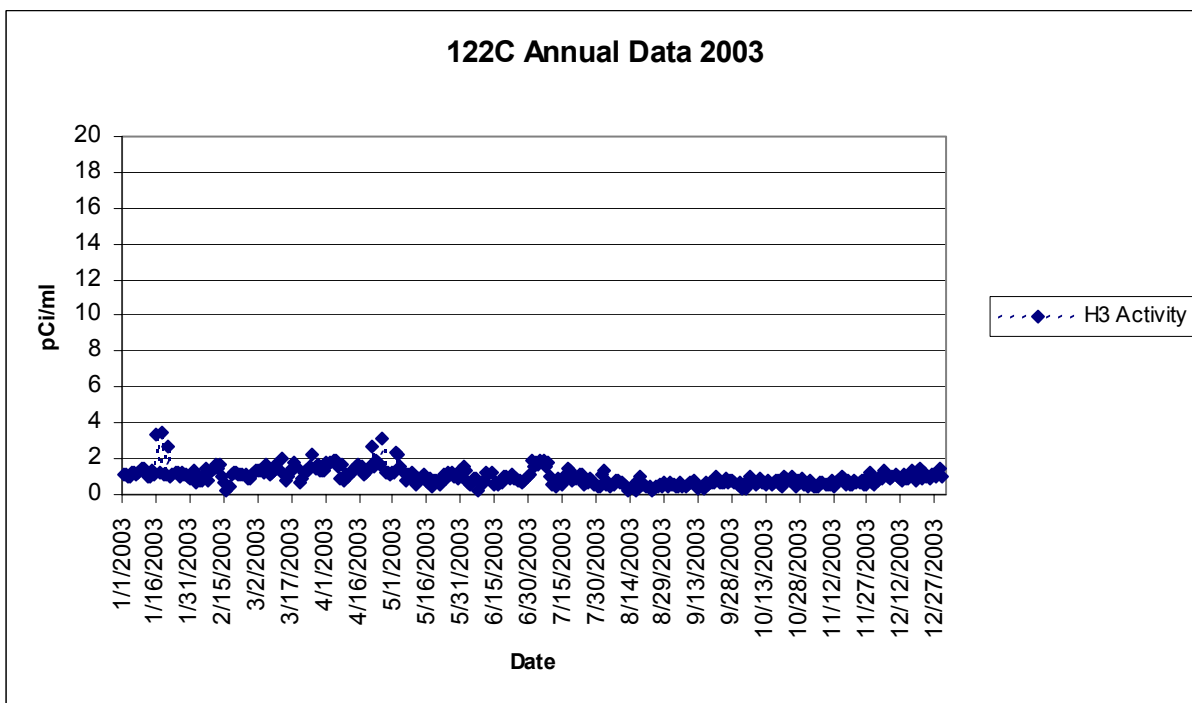
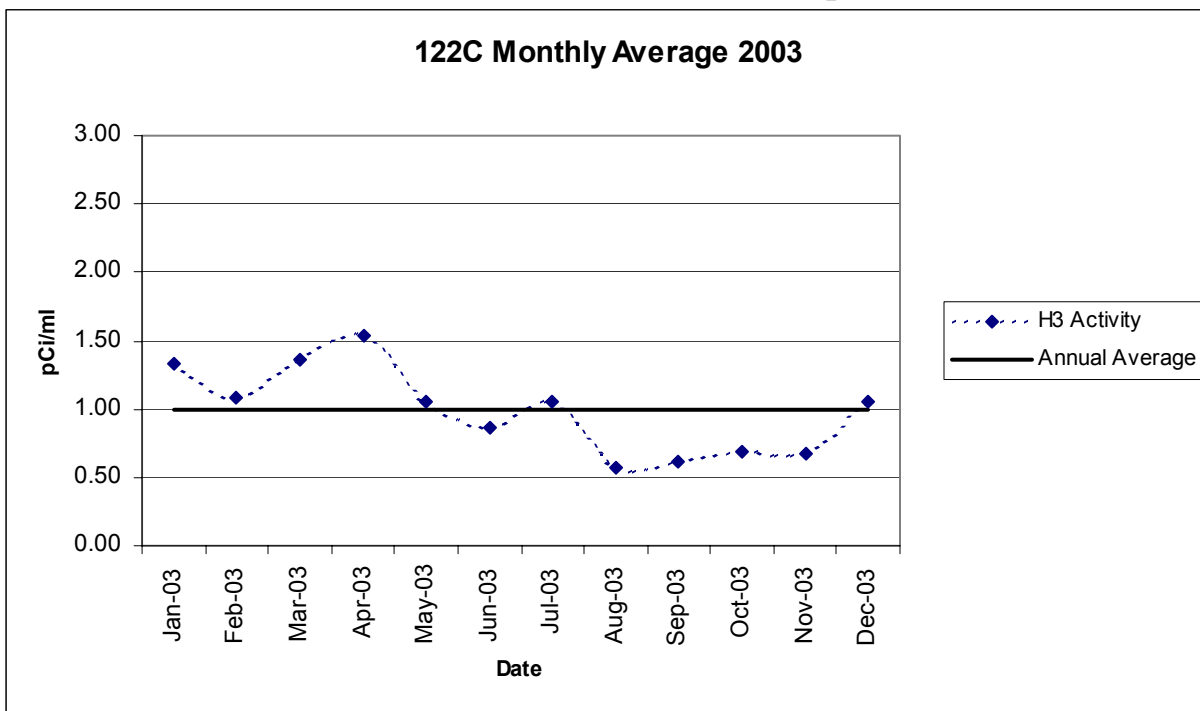
**Perennial Streams Surface Water PSVP Compliance Point 106**



Note: All samples less than 20 pCi/ml  
 MDA = 0.44 pCi/ml  
 Annual average = 1.06 pCi/ml  
 Min – 0.00 pCi/ml    Max = 6.85 pCi/ml

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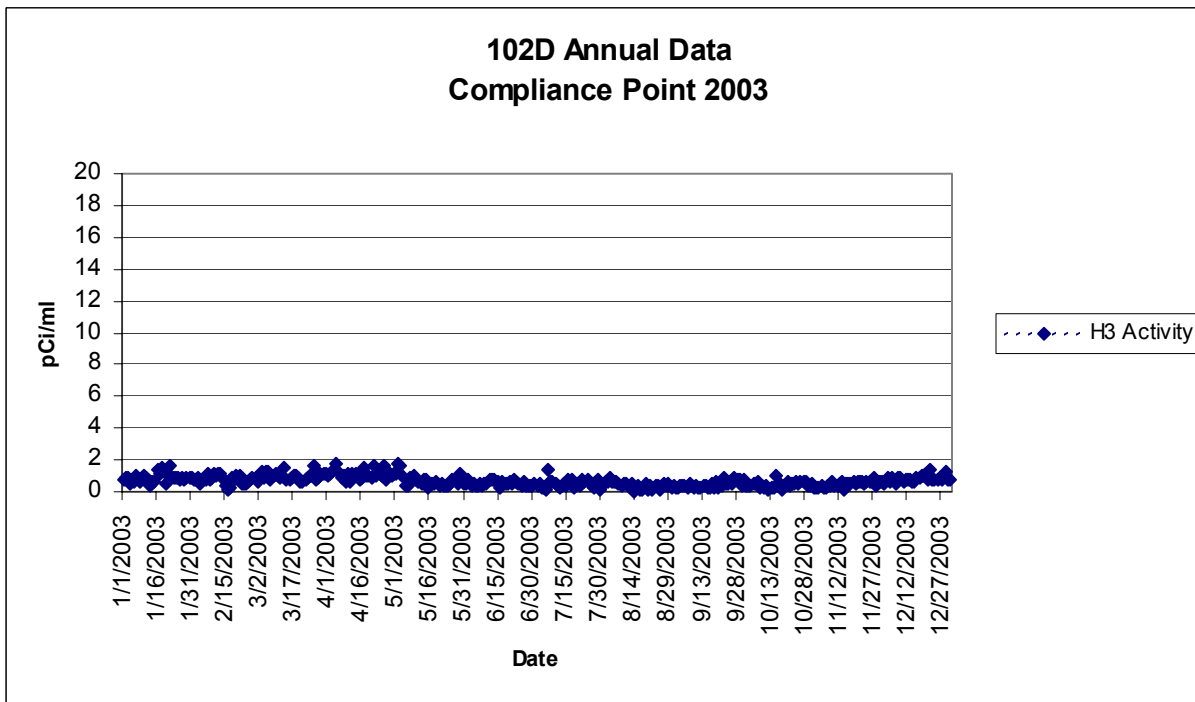
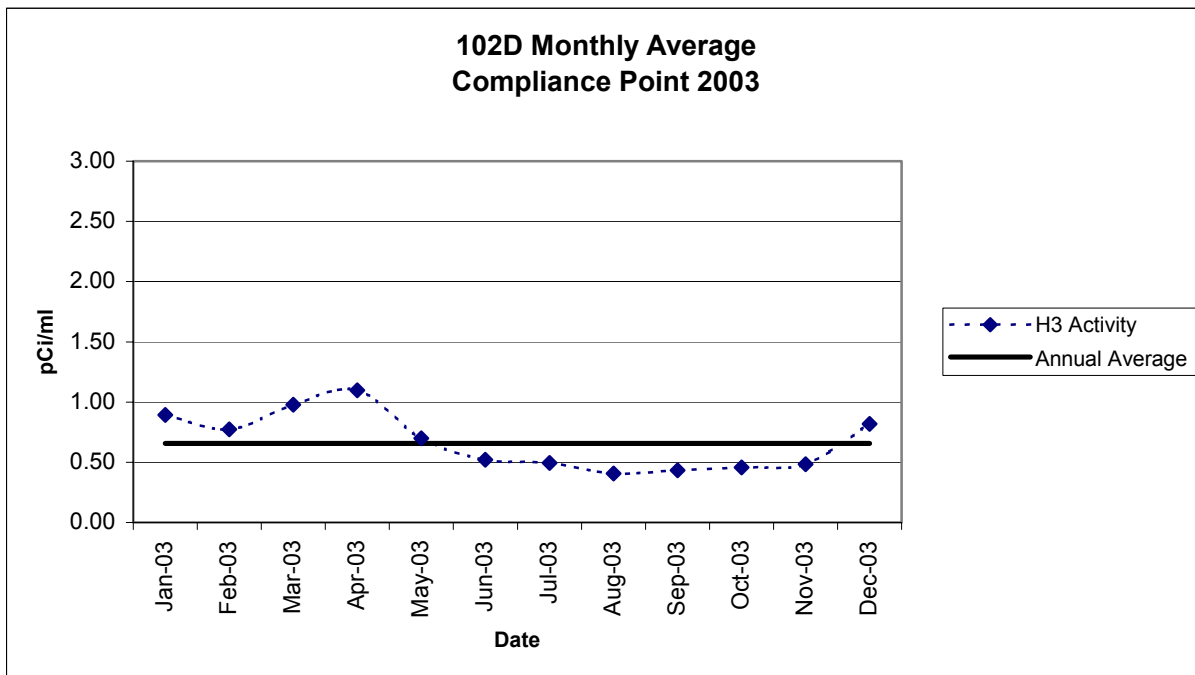
Perennial Streams Surface Water PSVP Compliance Point 122C



Note: All samples less than 20 pCi/ml  
 MDA = 0.44 pCi/ml  
 Annual average = 0.98 pCi/ml  
 Min = 0.22 pCi/ml    Max = 3.41 pCi/ml

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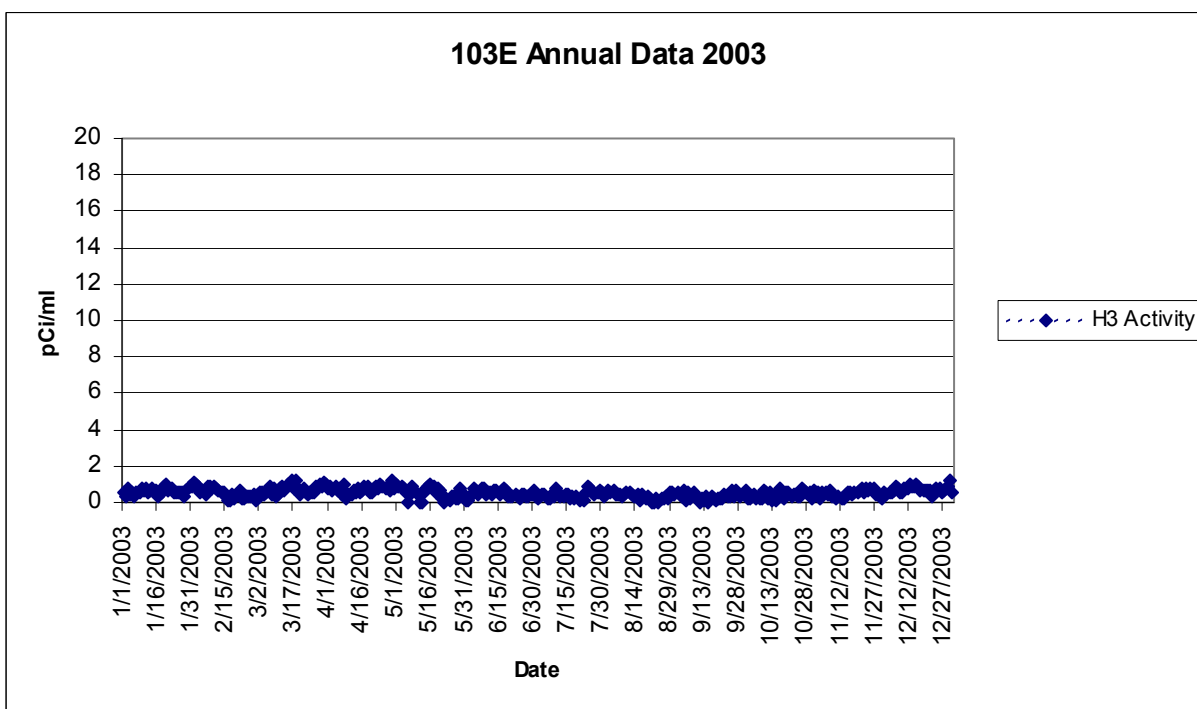
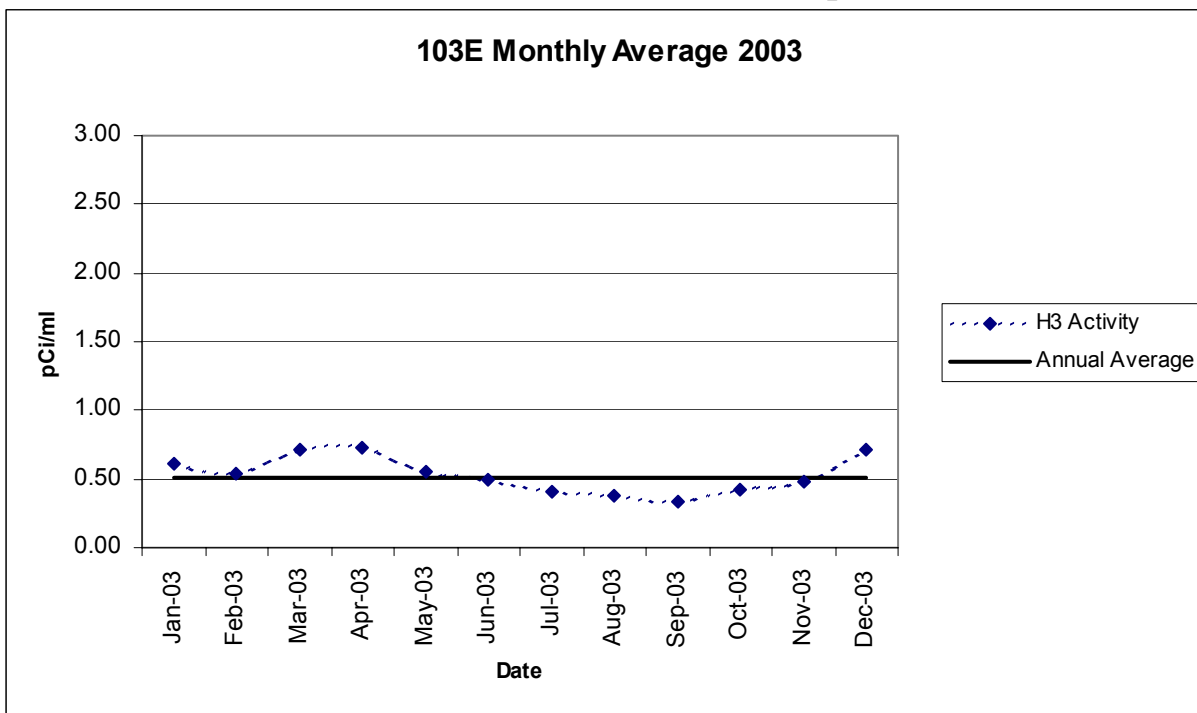
**Drinking Water PSVP Compliance Point 102D**



Note: All less than 20 pCi/ml  
 MDA = 0.44 pCi/ml  
 Annual average = 0.66 pCi/ml  
 Min = 0.00 pCi/ml    Max = 1.77 pCi/ml

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Perennial Streams Surface Water PSVP Compliance Point 103E



Note: All samples less than 20 pCi/ml  
 MDA = 0.44 pCi/ml  
 Annual average = 0.51 pCi/ml  
 Min = 0.00 pCi/ml    Max = 1.25 pCi/ml

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**APPENDIX A2**

**PERENNIAL STREAMS SURFACE WATER  
DATA SUMMARY 2003**

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**Location 122A**

<b>Date</b>	<b>Activity (pCi/ml)</b>	<b>Error</b>	<b>Comments</b>	<b>Date</b>	<b>Activity (pCi/ml)</b>	<b>Error</b>	<b>Comments</b>
1/1/2003	0.14+/-	0.14		2/18/2003	0+/-	0.13	
1/2/2003	0.28+/-	0.14		2/19/2003	0.21+/-	0.14	
1/3/2003	0.11+/-	0.13		2/20/2003	0+/-	0.13	
1/4/2003	0.05+/-	0.13		2/21/2003	0.14+/-	0.14	
1/5/2003	0.32+/-	0.14		2/22/2003	0.08+/-	0.13	
1/6/2003	0.08+/-	0.13		2/23/2003	0.3+/-	0.14	
1/7/2003	0.07+/-	0.13		2/24/2003	0+/-	0.13	
1/8/2003	0.16+/-	0.13		2/25/2003	0.08+/-	0.14	
1/9/2003	0.19+/-	0.13		2/26/2003	0.1+/-	0.14	
1/10/2003	0.16+/-	0.13		2/27/2003	0+/-	0.14	
1/11/2003	0.44+/-	0.14		2/28/2003	0.16+/-	0.14	
1/12/2003	0.25+/-	0.13		3/1/2003	0.01+/-	0.14	
1/13/2003	0.08+/-	0.13		3/2/2003	0.08+/-	0.14	
1/14/2003	0.03+/-	0.13		3/3/2003	0.02+/-	0.14	
1/15/2003	0+/-	0.13		3/4/2003	0.07+/-	0.13	
1/16/2003	0.21+/-	0.14		3/5/2003	0.17+/-	0.13	
1/17/2003	0.18+/-	0.14		3/6/2003	0.2+/-	0.13	
1/18/2003	0.07+/-	0.14		3/7/2003	0.24+/-	0.13	
1/19/2003	0+/-	0.13		3/8/2003	0.17+/-	0.13	
1/20/2003	0+/-	0.13		3/9/2003	0.25+/-	0.13	
1/21/2003	0+/-	0.13		3/10/2003	0+/-	0.13	
1/22/2003	0.09+/-	0.13		3/11/2003	0+/-	0.13	
1/23/2003	0.04+/-	0.13		3/12/2003	0+/-	0.14	
1/24/2003	0.15+/-	0.14		3/13/2003	0.06+/-	0.14	
1/25/2003	0.15+/-	0.14		3/14/2003	0.04+/-	0.14	
1/26/2003	0.01+/-	0.13		3/15/2003	0+/-	0.13	
1/27/2003	0+/-	0.13		3/16/2003	0.17+/-	0.14	
1/28/2003	0+/-	0.13		3/17/2003	0.07+/-	0.14	
1/29/2003	0+/-	0.13		3/18/2003	0+/-	0.13	
1/30/2003	0+/-	0.13		3/19/2003	0+/-	0.13	
1/31/2003	0+/-	0.13		3/20/2003	0.14+/-	0.13	
2/1/2003	0.09+/-	0.13		3/21/2003	0+/-	0.13	
2/2/2003	0+/-	0.13		3/22/2003	0.04+/-	0.13	
2/3/2003	0+/-	0.13		3/23/2003	0+/-	0.13	
2/4/2003	0+/-	0.13		3/24/2003	0+/-	0.13	
2/5/2003	0+/-	0.13		3/25/2003	0+/-	0.13	
2/6/2003	0+/-	0.13		3/26/2003	0+/-	0.13	
2/7/2003	0+/-	0.13		3/27/2003	0+/-	0.13	
2/8/2003	0+/-	0.13		3/28/2003	0.21+/-	0.14	
2/9/2003	0+/-	0.13		3/29/2003	0+/-	0.13	
2/10/2003	0.02+/-	0.14		3/30/2003	0+/-	0.13	
2/11/2003	0.23+/-	0.14		3/31/2003	0.1+/-	0.14	
2/12/2003	0.03+/-	0.13		4/1/2003	0.15+/-	0.14	
2/13/2003	0+/-	0.13		4/2/2003	0+/-	0.13	
2/14/2003	0+/-	0.13		4/3/2003	0+/-	0.13	
2/15/2003	0+/-	0.13		4/4/2003	0+/-	0.13	
2/16/2003	0.24+/-	0.14		4/5/2003	0+/-	0.13	
2/17/2003	0+/-	0.13		4/6/2003	0.05+/-	0.13	



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**Location 122A**

<b>Date</b>	<b>Activity (pCi/ml)</b>	<b>Error</b>	<b>Comments</b>	<b>Date</b>	<b>Activity (pCi/ml)</b>	<b>Error</b>	<b>Comments</b>
4/7/2003	0+/-	0.13		5/25/2003	0+/-	0.14	
4/8/2003	0+/-	0.13		5/26/2003	0.1+/-	0.14	
4/9/2003	0.04+/-	0.13		5/27/2003	0+/-	0.14	
4/10/2003	0.03+/-	0.13		5/28/2003	0+/-	0.13	
4/11/2003	0+/-	0.13		5/29/2003	0+/-	0.14	
4/12/2003	0.07+/-	0.13		5/30/2003	0.24+/-	0.14	
4/13/2003	0+/-	0.13		5/31/2003	0+/-	0.14	
4/14/2003	0.07+/-	0.13		6/1/2003	0+/-	0.14	
4/15/2003	0+/-	0.14		6/2/2003	0.11+/-	0.14	
4/16/2003	0+/-	0.13		6/3/2003	0+/-	0.14	
4/17/2003	0+/-	0.14		6/4/2003	0+/-	0.14	
4/18/2003	0.1+/-	0.14		6/5/2003	0+/-	0.14	
4/19/2003	0+/-	0.14		6/6/2003	0+/-	0.14	
4/20/2003	0+/-	0.13		6/7/2003	0.03+/-	0.14	
4/21/2003	0+/-	0.13		6/8/2003	0+/-	0.14	
4/22/2003	0+/-	0.13		6/9/2003	0+/-	0.14	
4/23/2003	0+/-	0.13		6/10/2003	0.07+/-	0.14	
4/24/2003	0+/-	0.13		6/11/2003	0+/-	0.14	
4/25/2003	0+/-	0.13		6/12/2003	0+/-	0.14	
4/26/2003	0+/-	0.13		6/13/2003	0+/-	0.14	
4/27/2003	0+/-	0.13		6/14/2003	0.11+/-	0.14	
4/28/2003	0.05+/-	0.14		6/15/2003	0+/-	0.14	
4/29/2003	0+/-	0.14		6/16/2003	0+/-	0.14	
4/30/2003	0+/-	0.13		6/17/2003	0.1+/-	0.13	
5/1/2003	0+/-	0.14		6/18/2003	0.03+/-	0.12	
5/2/2003	0+/-	0.14		6/19/2003	0.01+/-	0.12	
5/3/2003	0.01+/-	0.14		6/20/2003	0+/-	0.12	
5/4/2003	0+/-	0.13		6/21/2003	0+/-	0.12	
5/5/2003	0+/-	0.14		6/22/2003	0.04+/-	0.12	
5/6/2003	0.12+/-	0.14		6/23/2003	0.09+/-	0.13	
5/7/2003	0+/-	0.13		6/24/2003	0+/-	0.13	
5/8/2003	0.01+/-	0.13		6/25/2003	0+/-	0.12	
5/9/2003	0.12+/-	0.14		6/26/2003	0+/-	0.12	
5/10/2003	0.06+/-	0.14		6/27/2003	0+/-	0.12	
5/11/2003	0+/-	0.13		6/28/2003	0+/-	0.12	
5/12/2003	0.04+/-	0.14		6/29/2003	0+/-	0.12	
5/13/2003	0+/-	0.14		6/30/2003	0+/-	0.13	
5/14/2003	0+/-	0.14		7/1/2003	0+/-	0.13	
5/15/2003	0.01+/-	0.14		7/2/2003	0+/-	0.12	
5/16/2003	0+/-	0.14		7/3/2003	0+/-	0.12	
5/17/2003	0+/-	0.14		7/4/2003	0+/-	0.12	
5/18/2003	0.07+/-	0.14		7/5/2003	0+/-	0.12	
5/19/2003	0+/-	0.14		7/6/2003	0+/-	0.13	
5/20/2003	0+/-	0.14		7/7/2003	0+/-	0.13	
5/21/2003	0+/-	0.14		7/8/2003	0+/-	0.13	
5/22/2003	0+/-	0.14		7/9/2003	0+/-	0.13	
5/23/2003	0+/-	0.14		7/10/2003	0+/-	0.13	
5/24/2003	0.02+/-	0.14		7/11/2003	0+/-	0.12	

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**Location 122A**

<b>Date</b>	<b>Activity (pCi/ml)</b>	<b>Error</b>	<b>Comments</b>	<b>Date</b>	<b>Activity (pCi/ml)</b>	<b>Error</b>	<b>Comments</b>
7/12/2003	0+/-	0.12		8/28/2003	0+/-	0.12	
7/13/2003	0+/-	0.13		8/29/2003	0.04+/-	0.12	
7/14/2003	0+/-	0.12		8/30/2003	0.18+/-	0.12	
7/15/2003	0.02+/-	0.13		8/31/2003	0.03+/-	0.12	
7/16/2003	0+/-	0.12		9/1/2003	0.11+/-	0.12	
7/17/2003	0+/-	0.13		9/2/2003	0+/-	0.12	
7/18/2003	0+/-	0.12		9/3/2003	0.18+/-	0.13	
7/19/2003	0+/-	0.12		9/4/2003	0.04+/-	0.12	
7/20/2003	0+/-	0.13		9/5/2003	0+/-	0.12	
7/21/2003	0.22+/-	0.13		9/6/2003	0.01+/-	0.12	
7/22/2003	0.02+/-	0.13		9/7/2003	0+/-	0.12	
7/23/2003	0.09+/-	0.13		9/8/2003	0.11+/-	0.12	
7/24/2003	0+/-	0.12		9/9/2003	0+/-	0.12	
7/25/2003	0+/-	0.12		9/10/2003	0.22+/-	0.12	
7/26/2003	0+/-	0.13		9/11/2003	0.13+/-	0.12	
7/27/2003	0.28+/-	0.13		9/12/2003	0+/-	0.12	
7/28/2003	0.08+/-	0.13		9/13/2003	0+/-	0.12	
7/29/2003	0.09+/-	0.13		9/14/2003	0.01+/-	0.12	
7/30/2003	0+/-	0.12		9/15/2003	0.25+/-	0.13	
7/31/2003	0+/-	0.13		9/16/2003	0.31+/-	0.13	
8/1/2003	0.08+/-	0.13		9/17/2003	0.08+/-	0.12	
8/2/2003	0+/-	0.13		9/18/2003	0+/-	0.12	
8/3/2003	0+/-	0.13		9/19/2003	0.18+/-	0.12	
8/4/2003	0+/-	0.14		9/20/2003	0.19+/-	0.12	
8/5/2003	0.12+/-	0.13		9/21/2003	0.02+/-	0.12	
8/6/2003	0.12+/-	0.13		9/22/2003	0+/-	0.12	
8/7/2003	0.04+/-	0.12		9/23/2003	0.37+/-	0.12	
8/8/2003	0.02+/-	0.12		9/24/2003	0.01+/-	0.12	
8/9/2003	0.22+/-	0.13		9/25/2003	0+/-	0.12	
8/10/2003	0.06+/-	0.12		9/26/2003	0.17+/-	0.12	
8/11/2003	0+/-	0.12		9/27/2003	0.27+/-	0.12	
8/12/2003	0+/-	0.13		9/28/2003	0.04+/-	0.12	
8/13/2003	0.12+/-	0.13		9/29/2003	0.06+/-	0.12	
8/14/2003	0+/-	0.13		9/30/2003	0+/-	0.12	
8/15/2003	0.15+/-	0.13		10/1/2003	0+/-	0.13	
8/16/2003	0+/-	0.13		10/2/2003	0+/-	0.13	
8/17/2003	0.1+/-	0.13		10/3/2003	0+/-	0.12	
8/18/2003	0.1+/-	0.13		10/4/2003	0+/-	0.12	
8/19/2003	0+/-	0.12		10/5/2003	0+/-	0.12	
8/20/2003	0.06+/-	0.13		10/6/2003	0+/-	0.12	
8/21/2003	0+/-	0.12		10/7/2003	0.15+/-	0.12	
8/22/2003	0+/-	0.12		10/8/2003	0.23+/-	0.12	
8/23/2003	0+/-	0.12		10/9/2003	0.05+/-	0.12	
8/24/2003	0.03+/-	0.12		10/10/2003	0.15+/-	0.12	
8/25/2003	0.04+/-	0.12		10/11/2003	0.11+/-	0.12	
8/26/2003	0.02+/-	0.12		10/12/2003	0.12+/-	0.12	
8/27/2003	0.1+/-	0.12		10/13/2003	0.22+/-	0.12	

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**Location 122A**

<b>Date</b>	<b>Activity (pCi/ml)</b>	<b>Error</b>	<b>Comments</b>	<b>Date</b>	<b>Activity (pCi/ml)</b>	<b>Error</b>	<b>Comments</b>
10/14/2003	0.03+/-	0.12		12/1/2003	0+/-	0.12	
10/15/2003	0.02+/-	0.12		12/2/2003	0.03+/-	0.12	
10/16/2003	0+/-	0.12		12/3/2003	0.02+/-	0.12	
10/17/2003	0.07+/-	0.12		12/4/2003	0.04+/-	0.12	
10/18/2003	0.05+/-	0.12		12/5/2003	0.06+/-	0.12	
10/19/2003	0.01+/-	0.12		12/6/2003	0.14+/-	0.12	
10/20/2003	0+/-	0.12		12/7/2003	0.01+/-	0.12	
10/21/2003	0.14+/-	0.12		12/8/2003	0.00+/-	0.12	
10/22/2003	0+/-	0.11		12/9/2003	0.00+/-	0.12	
10/23/2003	0+/-	0.11		12/10/2003	0.14+/-	0.13	
10/24/2003	0.13+/-	0.12		12/11/2003	0.26+/-	0.13	
10/25/2003	0.05+/-	0.12		12/12/2003	0.04+/-	0.12	
10/26/2003	0+/-	0.11		12/13/2003	0.12+/-	0.12	
10/27/2003	0.38+/-	0.12		12/14/2003	0.05+/-	0.12	
10/28/2003	0+/-	0.12		12/15/2003	0.00+/-	0.12	
10/29/2003	0+/-	0.12		12/16/2003	0.19+/-	0.13	
10/30/2003	0.07+/-	0.12		12/17/2003	0.10+/-	0.13	
10/31/2003	0.19+/-	0.13		12/18/2003	0.18+/-	0.13	
11/1/2003	0+/-	0.12		12/19/2003	0.05+/-	0.12	
11/2/2003	0+/-	0.12		12/20/2003	0.29+/-	0.13	
11/3/2003	0+/-	0.12		12/21/2003	0.17+/-	0.13	
11/4/2003	0.01+/-	0.12		12/22/2003	0.14+/-	0.13	
11/5/2003	0+/-	0.12		12/23/2003	0.00+/-	0.13	
11/6/2003	0.06+/-	0.12		12/24/2003	0.02+/-	0.13	
11/7/2003	0+/-	0.12		12/25/2003	0.00+/-	0.12	
11/8/2003	0+/-	0.12		12/26/2003	0.01+/-	0.13	
11/9/2003	0.23+/-	0.13		12/27/2003	0.18+/-	0.13	
11/10/2003	0.12+/-	0.12		12/28/2003	0.07+/-	0.13	
11/11/2003	0.08+/-	0.12		12/29/2003	0.00+/-	0.12	
11/12/2003	0.04+/-	0.12		12/30/2003	0.00+/-	0.13	
11/13/2003	0.07+/-	0.13		12/31/2003	0.13+/-	0.13	
11/14/2003	0+/-	0.12					
11/15/2003	0.04+/-	0.13					
11/16/2003	0+/-	0.12					
11/17/2003	0.08+/-	0.13					
11/18/2003	0.03+/-	0.12					
11/19/2003	0+/-	0.12					
11/20/2003	0+/-	0.12					
11/21/2003	0+/-	0.12					
11/22/2003	0.03+/-	0.12					
11/23/2003	0+/-	0.12					
11/24/2003	0.1+/-	0.12					
11/25/2003	0+/-	0.12					
11/26/2003	0+/-	0.12					
11/27/2003	0+/-	0.12					
11/28/2003	0+/-	0.12					
11/29/2003	0+/-	0.12					
11/30/2003	0+/-	0.12					

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Date	Activity (pCi/ml)	Error	Comments	Date	Activity (pCi/ml)	Error	Comments
1/1/2003	2.23+/-	0.17		2/18/2003	4.87+/-	0.20	
1/2/2003	3.24+/-	0.18		2/19/2003	4.74+/-	0.19	
1/3/2003	3.82+/-	0.19		2/20/2003	5.00+/-	0.20	
1/4/2003	4.38+/-	0.19		2/21/2003	4.96+/-	0.20	
1/5/2003	4.70+/-	0.20		2/22/2003	5.22+/-	0.20	
1/6/2003	5.49+/-	0.21		2/23/2003	3.27+/-	0.18	
1/7/2003	4.61+/-	0.20		2/24/2003	3.72+/-	0.18	
1/8/2003	4.45+/-	0.19		2/25/2003	4.36+/-	0.19	
1/9/2003	5.11+/-	0.20		2/26/2003	4.69+/-	0.20	
1/10/2003	6.96+/-	0.22		2/27/2003	6.12+/-	0.21	
1/11/2003	5.35+/-	0.20		2/28/2003	4.26+/-	0.19	
1/12/2003	3.78+/-	0.18		3/1/2003	5.99+/-	0.21	
1/13/2003	5.87+/-	0.20		3/2/2003	6.41+/-	0.21	
1/14/2003	3.95+/-	0.18		3/3/2003	6.01+/-	0.21	
1/15/2003	3.93+/-	0.19		3/4/2003	6.30+/-	0.21	
1/16/2003	3.65+/-	0.18		3/5/2003	7.82+/-	0.22	
1/17/2003	5.42+/-	0.20		3/6/2003	3.44+/-	0.17	
1/18/2003	3.92+/-	0.19		3/7/2003	5.42+/-	0.20	
1/19/2003	3.73+/-	0.18		3/8/2003	5.93+/-	0.20	
1/20/2003	9.53+/-	0.24		3/9/2003	6.43+/-	0.21	
1/21/2003	7.77+/-	0.23		3/10/2003	6.44+/-	0.21	
1/22/2003	6.21+/-	0.21		3/11/2003	7.28+/-	0.21	
1/23/2003	4.55+/-	0.19		3/12/2003	9.18+/-	0.24	
1/24/2003	4.94+/-	0.20		3/13/2003	4.76+/-	0.19	
1/25/2003	4.89+/-	0.20		3/14/2003	4.61+/-	0.19	
1/26/2003	4.75+/-	0.19		3/15/2003	5.95+/-	0.21	
1/27/2003	4.96+/-	0.20		3/16/2003	6.93+/-	0.22	
1/28/2003	5.33+/-	0.20		3/17/2003	7.77+/-	0.22	
1/29/2003	2.95+/-	0.17		3/18/2003	8.53+/-	0.23	
1/30/2003	3.28+/-	0.18		3/19/2003	7.02+/-	0.22	
1/31/2003	4.49+/-	0.19		3/20/2003	4.02+/-	0.19	
2/1/2003	3.18+/-	0.18		3/21/2003	5.07+/-	0.20	
2/2/2003	3.74+/-	0.18		3/22/2003	6.38+/-	0.21	
2/3/2003	4.90+/-	0.20		3/23/2003	7.33+/-	0.22	
2/4/2003	3.26+/-	0.18		3/24/2003	7.69+/-	0.23	
2/5/2003	4.80+/-	0.19		3/25/2003	8.33+/-	0.23	
2/6/2003	5.16+/-	0.20		3/26/2003	11.12+/-	0.26	
2/7/2003	5.34+/-	0.20		3/27/2003	7.41+/-	0.22	
2/8/2003	3.92+/-	0.18		3/28/2003	7.80+/-	0.23	
2/9/2003	6.07+/-	0.21		3/29/2003	4.56+/-	0.19	
2/10/2003	5.60+/-	0.20		3/30/2003	6.16+/-	0.21	
2/11/2003	6.07+/-	0.21		3/31/2003	7.52+/-	0.22	
2/12/2003	5.84+/-	0.21		4/1/2003	8.22+/-	0.23	
2/13/2003	4.35+/-	0.19		4/2/2003	8.39+/-	0.23	
2/14/2003	4.40+/-	0.19		4/3/2003	8.80+/-	0.24	
2/15/2003	4.47+/-	0.19		4/4/2003	13.73+/-	0.28	
2/16/2003	4.66+/-	0.20		4/5/2003	4.64+/-	0.19	
2/17/2003	4.50+/-	0.19		4/6/2003	5.76+/-	0.21	

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Date	Activity (pCi/ml)	Error	Comments	Date	Activity (pCi/ml)	Error	Comments
4/7/2003	3.89+/-	0.19		5/25/2003	6.68+/-	0.22	
4/8/2003	5.52+/-	0.20		5/26/2003	4.48+/-	0.20	
4/9/2003	3.96+/-	0.18		5/27/2003	5.40+/-	0.21	
4/10/2003	5.48+/-	0.20		5/28/2003	4.85+/-	0.20	
4/11/2003	4.84+/-	0.19		5/29/2003	3.25+/-	0.18	
4/12/2003	6.91+/-	0.22		5/30/2003	4.00+/-	0.19	
4/13/2003	8.04+/-	0.23		5/31/2003	6.94+/-	0.22	
4/14/2003	8.47+/-	0.23		6/1/2003	5.71+/-	0.21	
4/15/2003	8.55+/-	0.23		6/2/2003	4.69+/-	0.20	
4/16/2003	8.99+/-	0.24		6/3/2003	2.34+/-	0.17	
4/17/2003	6.20+/-	0.21		6/4/2003	4.09+/-	0.19	
4/18/2003	4.87+/-	0.20		6/5/2003	5.38+/-	0.21	
4/19/2003	7.16+/-	0.22		6/6/2003	4.61+/-	0.20	
4/20/2003	8.41+/-	0.23		6/7/2003	2.00+/-	0.16	
4/21/2003	7.26+/-	0.22		6/8/2003	3.60+/-	0.18	
4/22/2003	9.90+/-	0.25		6/9/2003	4.12+/-	0.19	
4/23/2003	8.38+/-	0.23		6/10/2003	5.19+/-	0.20	
4/24/2003	8.90+/-	0.23		6/11/2003	6.63+/-	0.22	
4/25/2003	14.48+/-	0.28		6/12/2003	4.05+/-	0.18	
4/26/2003	4.56+/-	0.19		6/13/2003	3.10+/-	0.17	
4/27/2003	6.73+/-	0.21		6/14/2003	2.87+/-	0.16	
4/28/2003	6.78+/-	0.21		6/15/2003	2.34+/-	0.16	
4/29/2003	3.05+/-	0.17		6/16/2003	3.28+/-	0.17	
4/30/2003	5.87+/-	0.21		6/17/2003	3.03+/-	0.17	
5/1/2003	5.64+/-	0.21		6/18/2003	4.77+/-	0.19	
5/2/2003	8.00+/-	0.23		6/19/2003	4.93+/-	0.19	
5/3/2003	6.52+/-	0.22		6/20/2003	5.35+/-	0.19	
5/4/2003	7.68+/-	0.23		6/21/2003	5.44+/-	0.19	
5/5/2003	2.37+/-	0.17		6/22/2003	5.69+/-	0.19	
5/6/2003	4.14+/-	0.19		6/23/2003	6.00+/-	0.20	
5/7/2003	2.87+/-	0.18		6/24/2003	5.50+/-	0.19	
5/8/2003	8.22+/-	0.23		6/25/2003	5.52+/-	0.19	
5/9/2003	8.03+/-	0.23		6/26/2003	5.23+/-	0.19	
5/10/2003	5.64+/-	0.21		6/27/2003	8.83+/-	0.22	
5/11/2003	3.40+/-	0.18		6/28/2003	6.49+/-	0.20	
5/12/2003	5.60+/-	0.21		6/29/2003	4.84+/-	0.18	
5/13/2003	6.18+/-	0.21		6/30/2003	4.33+/-	0.18	
5/14/2003	6.67+/-	0.21		7/1/2003	4.13+/-	0.18	
5/15/2003	2.95+/-	0.17		7/2/2003	4.07+/-	0.18	
5/16/2003	4.69+/-	0.19		7/3/2003	4.18+/-	0.18	
5/17/2003	3.27+/-	0.17		7/4/2003	4.26+/-	0.18	
5/18/2003	2.56+/-	0.17		7/5/2003	3.69+/-	0.17	
5/19/2003	4.65+/-	0.19		7/6/2003	4.02+/-	0.18	
5/20/2003	2.57+/-	0.17		7/7/2003	2.17+/-	0.16	
5/21/2003	2.27+/-	0.17		7/8/2003	3.97+/-	0.18	
5/22/2003	3.99+/-	0.19		7/9/2003	8.29+/-	0.22	
5/23/2003	4.98+/-	0.20		7/10/2003	0.99+/-	0.14	
5/24/2003	4.99+/-	0.20		7/11/2003	2.19+/-	0.15	

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Date	Activity (pCi/ml)	Error	Comments	Date	Activity (pCi/ml)	Error	Comments
7/12/2003	4.21+/-	0.18		8/28/2003	3.42+/-	0.16	
7/13/2003	4.49+/-	0.18		8/29/2003	2.16+/-	0.15	
7/14/2003	3.08+/-	0.16		8/30/2003	1.17+/-	0.14	
7/15/2003	3.08+/-	0.16		8/31/2003	1.92+/-	0.15	
7/16/2003	2.95+/-	0.16		9/1/2003	1.44+/-	0.14	
7/17/2003	5.07+/-	0.19		9/2/2003	2.12+/-	0.15	
7/18/2003	4.73+/-	0.18		9/3/2003	2.58+/-	0.16	
7/19/2003	3.62+/-	0.17		9/4/2003	3.52+/-	0.17	
7/20/2003	3.32+/-	0.17		9/5/2003	3.35+/-	0.17	
7/21/2003	3.21+/-	0.17		9/6/2003	3.97+/-	0.18	
7/22/2003	2.55+/-	0.16		9/7/2003	3.95+/-	0.18	
7/23/2003	1.20+/-	0.14		9/8/2003	3.59+/-	0.17	
7/24/2003	2.35+/-	0.16		9/9/2003	3.92+/-	0.18	
7/25/2003	3.86+/-	0.17		9/10/2003	3.43+/-	0.17	
7/26/2003	3.79+/-	0.17		9/11/2003	3.39+/-	0.17	
7/27/2003	3.16+/-	0.17		9/12/2003	2.86+/-	0.16	
7/28/2003	1.41+/-	0.14		9/13/2003	2.83+/-	0.16	
7/29/2003	2.87+/-	0.16		9/14/2003	5.56+/-	0.19	
7/30/2003	3.69+/-	0.17		9/15/2003	11.82+/-	0.25	
7/31/2003	2.14+/-	0.16		9/16/2003	4.41+/-	0.18	
8/1/2003	2.37+/-	0.16		9/17/2003	2.96+/-	0.16	
8/2/2003	5.44+/-	0.19		9/18/2003	2.57+/-	0.16	
8/3/2003	2.14+/-	0.16		9/19/2003	2.83+/-	0.16	
8/4/2003	0.81+/-	0.14		9/20/2003	3.12+/-	0.17	
8/5/2003	1.46+/-	0.15		9/21/2003	2.85+/-	0.16	
8/6/2003	1.91+/-	0.15		9/22/2003	0.80+/-	0.14	
8/7/2003	0.89+/-	0.14		9/23/2003	2.16+/-	0.15	
8/8/2003	1.60+/-	0.15		9/24/2003	2.19+/-	0.15	
8/9/2003	1.33+/-	0.14		9/25/2003	2.58+/-	0.16	
8/10/2003	1.69+/-	0.15		9/26/2003	3.66+/-	0.17	
8/11/2003	1.33+/-	0.14		9/27/2003	1.21+/-	0.14	
8/12/2003	2.32+/-	0.16		9/28/2003	2.03+/-	0.15	
8/13/2003	2.61+/-	0.16		9/29/2003	2.41+/-	0.16	
8/14/2003	2.97+/-	0.16		9/30/2003	2.88+/-	0.16	
8/15/2003	2.81+/-	0.16		10/1/2003	1.77+/-	0.15	
8/16/2003	4.94+/-	0.19		10/2/2003	2.14+/-	0.15	
8/17/2003	5.70+/-	0.19		10/3/2003	2.13+/-	0.15	
8/18/2003	3.65+/-	0.17		10/4/2003	2.62+/-	0.16	
8/19/2003	3.16+/-	0.17		10/5/2003	3.30+/-	0.17	
8/20/2003	2.88+/-	0.16		10/6/2003	2.99+/-	0.17	
8/21/2003	2.89+/-	0.17		10/7/2003	2.72+/-	0.16	
8/22/2003	1.58+/-	0.15		10/8/2004	2.83+/-	0.16	
8/23/2003	1.72+/-	0.15		10/9/2004	3.46+/-	0.17	
8/24/2003	2.62+/-	0.16		10/10/2003	3.12+/-	0.17	
8/25/2003	3.14+/-	0.17		10/11/2003	3.15+/-	0.17	
8/26/2003	3.46+/-	0.17		10/12/2003	3.51+/-	0.17	
8/27/2003	3.54+/-	0.17		10/13/2003	3.56+/-	0.17	

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Date	Activity (pCi/ml)	Error	Comments	Date	Activity (pCi/ml)	Error	Comments
10/14/2003	1.67+/-	0.15		12/1/2003	5.06+/-	0.19	
10/15/2003	2.34+/-	0.15		12/2/2003	5.35+/-	0.19	
10/16/2003	3.41+/-	0.17		12/3/2003	5.86+/-	0.20	
10/17/2003	3.08+/-	0.16		12/4/2003	3.74+/-	0.18	
10/18/2003	3.82+/-	0.17		12/5/2003	3.17+/-	0.17	
10/19/2003	4.29+/-	0.18		12/6/2003	3.84+/-	0.18	
10/20/2003	2.89+/-	0.16		12/7/2003	5.41+/-	0.19	
10/21/2003	3.34+/-	0.17		12/8/2003	5.35+/-	0.19	
10/22/2003	4.30+/-	0.18		12/9/2003	5.96+/-	0.20	
10/23/2003	4.24+/-	0.18		12/10/2003	3.99+/-	0.18	
10/24/2003	4.59+/-	0.18		12/11/2003	4.29+/-	0.18	
10/25/2003	4.55+/-	0.18		12/12/2003	4.86+/-	0.19	
10/26/2003	0.65+/-	0.13		12/13/2003	4.40+/-	0.18	
10/27/2003	2.07+/-	0.15		12/14/2003	3.77+/-	0.17	
10/28/2003	2.69+/-	0.16		12/15/2003	4.23+/-	0.18	
10/29/2003	2.96+/-	0.16		12/16/2003	5.99+/-	0.20	
10/30/2003	3.50+/-	0.17		12/17/2003	4.39+/-	0.18	
10/31/2003	3.44+/-	0.17		12/18/2003	5.68+/-	0.20	
11/1/2003	3.48+/-	0.17		12/19/2003	4.96+/-	0.19	
11/2/2003	3.74+/-	0.17		12/20/2003	3.22+/-	0.17	
11/3/2003	3.45+/-	0.17		12/21/2003	5.15+/-	0.19	
11/4/2003	3.37+/-	0.17		12/22/2003	4.97+/-	0.19	
11/5/2003	1.60+/-	0.15		12/23/2003	4.62+/-	0.19	
11/6/2003	1.99+/-	0.15		12/24/2003	4.14+/-	0.18	
11/7/2003	2.55+/-	0.16		12/25/2003	4.77+/-	0.19	
11/8/2003	2.76+/-	0.16		12/26/2003	5.53+/-	0.19	
11/9/2003	3.23+/-	0.17		12/27/2003	6.05+/-	0.20	
11/10/2003	3.65+/-	0.17		12/28/2003	6.58+/-	0.21	
11/11/2003	6.85+/-	0.21		12/29/2003	5.74+/-	0.20	
11/12/2003	1.98+/-	0.15		12/30/2003	3.75+/-	0.18	
11/13/2003	2.92+/-	0.16		12/31/2003	5.02+/-	0.19	
11/14/2003	3.97+/-	0.18					
11/15/2003	2.47+/-	0.16					
11/16/2003	3.47+/-	0.17					
11/17/2003	3.53+/-	0.17					
11/18/2003	3.53+/-	0.17					
11/19/2003	3.02+/-	0.16					
11/20/2003	3.70+/-	0.17					
11/21/2003	4.35+/-	0.18					
11/22/2003	4.27+/-	0.18					
11/23/2003	4.65+/-	0.18					
11/24/2003	2.76+/-	0.16					
11/25/2003	3.94+/-	0.17					
11/26/2003	4.89+/-	0.19					
11/27/2003	3.63+/-	0.17					
11/28/2003	2.42+/-	0.16					
11/29/2003	3.70+/-	0.17					
11/30/2003	4.70+/-	0.19					

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Date	Activity (pCi/ml)	Error	Comments	Date	Activity (pCi/ml)	Error	Comments
1/1/2003	1.09+/-	0.15		2/18/2003	1.07+/-	0.15	
1/2/2003	1.1+/-	0.15		2/19/2003	1.22+/-	0.15	
1/3/2003	0.95+/-	0.15		2/20/2003	1.24+/-	0.15	
1/4/2003	0.99+/-	0.15		2/21/2003	1.12+/-	0.15	
1/5/2003	1.21+/-	0.15		2/22/2003	1.09+/-	0.15	
1/6/2003	1.24+/-	0.15		2/23/2003	1.14+/-	0.15	
1/7/2003	1.17+/-	0.15		2/24/2003	1.09+/-	0.15	
1/8/2003	1.18+/-	0.15		2/25/2003	0.84+/-	0.15	
1/9/2003	1.44+/-	0.15		2/26/2003	0.88+/-	0.15	
1/10/2003	1.49+/-	0.15		2/27/2003	1.17+/-	0.15	
1/11/2003	1.24+/-	0.15		2/28/2003	1.23+/-	0.15	
1/12/2003	1.05+/-	0.15		3/1/2003	1.36+/-	0.16	
1/13/2003	1+/-	0.15		3/2/2003	1.34+/-	0.16	
1/14/2003	1.33+/-	0.15		3/3/2003	1.31+/-	0.16	
1/15/2003	1.1+/-	0.15		3/4/2003	1.28+/-	0.15	
1/16/2003	3.34+/-	0.18		3/5/2003	1.72+/-	0.16	
1/17/2003	1.22+/-	0.15		3/6/2003	1.34+/-	0.15	
1/18/2003	3.41+/-	0.18		3/7/2003	1.12+/-	0.15	
1/19/2003	1.08+/-	0.15		3/8/2003	1.28+/-	0.15	
1/20/2003	1.1+/-	0.15		3/9/2003	1.3+/-	0.15	
1/21/2003	2.67+/-	0.17		3/10/2003	1.64+/-	0.15	
1/22/2003	1.05+/-	0.15		3/11/2003	1.41+/-	0.16	
1/23/2003	1.11+/-	0.15		3/12/2003	1.98+/-	0.16	
1/24/2003	1.18+/-	0.15		3/13/2003	1.1+/-	0.15	
1/25/2003	1.18+/-	0.15		3/14/2003	0.77+/-	0.15	
1/26/2003	0.96+/-	0.15		3/15/2003	1.02+/-	0.15	
1/27/2003	1.25+/-	0.15		3/16/2003	1.2+/-	0.15	
1/28/2003	1.08+/-	0.15		3/17/2003	1.42+/-	0.16	
1/29/2003	1.15+/-	0.15		3/18/2003	1.74+/-	0.16	
1/30/2003	1+/-	0.15		3/19/2003	1.53+/-	0.15	
1/31/2003	0.92+/-	0.15		3/20/2003	0.66+/-	0.14	
2/1/2003	1.36+/-	0.15		3/21/2003	0.9+/-	0.15	
2/2/2003	0.71+/-	0.14		3/22/2003	1.18+/-	0.15	
2/3/2003	1.02+/-	0.15		3/23/2003	1.37+/-	0.15	
2/4/2003	0.82+/-	0.15		3/24/2003	1.36+/-	0.15	
2/5/2003	0.8+/-	0.15		3/25/2003	1.51+/-	0.16	
2/6/2003	1.15+/-	0.15		3/26/2003	2.23+/-	0.17	
2/7/2003	1.47+/-	0.16		3/27/2003	1.4+/-	0.16	
2/8/2003	0.75+/-	0.15		3/28/2003	1.68+/-	0.16	
2/9/2003	1.39+/-	0.16		3/29/2003	1.38+/-	0.15	
2/10/2003	1.4+/-	0.16		3/30/2003	1.32+/-	0.15	
2/11/2003	1.63+/-	0.16		3/31/2003	1.37+/-	0.15	
2/12/2003	1.46+/-	0.16		4/1/2003	1.83+/-	0.16	
2/13/2003	1.68+/-	0.16		4/2/2003	1.64+/-	0.16	
2/14/2003	1.05+/-	0.15		4/3/2003	1.77+/-	0.16	
2/15/2003	0.7+/-	0.15		4/4/2003	1.87+/-	0.16	
2/16/2003	0.23+/-	0.14		4/5/2003	1.89+/-	0.16	
2/17/2003	0.43+/-	0.14		4/6/2003	1.52+/-	0.16	



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<b>Date</b>	<b>Activity (pCi/ml)</b>	<b>Error</b>	<b>Comments</b>	<b>Date</b>	<b>Activity (pCi/ml)</b>	<b>Error</b>	<b>Comments</b>
4/7/2003	0.91+/-	0.15		5/25/2003	1.21+/-	0.16	
4/8/2003	1.63+/-	0.16		5/26/2003	1.07+/-	0.15	
4/9/2003	0.81+/-	0.15		5/27/2003	1.25+/-	0.15	
4/10/2003	1.09+/-	0.15		5/28/2003	0.99+/-	0.15	
4/11/2003	0.97+/-	0.15		5/29/2003	0.91+/-	0.15	
4/12/2003	1.35+/-	0.15		5/30/2003	1.35+/-	0.16	
4/13/2003	1.34+/-	0.15		5/31/2003	1.04+/-	0.15	
4/14/2003	1.55+/-	0.16		6/1/2003	1.51+/-	0.16	
4/15/2003	1.66+/-	0.16		6/2/2003	1.33+/-	0.16	
4/16/2003	1.45+/-	0.16		6/3/2003	0.72+/-	0.15	
4/17/2003	1.54+/-	0.16		6/4/2003	0.61+/-	0.15	
4/18/2003	1.13+/-	0.15		6/5/2003	0.86+/-	0.15	
4/19/2003	1.27+/-	0.16		6/6/2003	0.93+/-	0.15	
4/20/2003	1.54+/-	0.16		6/7/2003	0.26+/-	0.14	
4/21/2003	2.72+/-	0.18		6/8/2003	0.67+/-	0.15	
4/22/2003	1.55+/-	0.16		6/9/2003	0.61+/-	0.15	
4/23/2003	1.86+/-	0.16		6/10/2003	0.83+/-	0.15	
4/24/2003	1.81+/-	0.16		6/11/2003	1.22+/-	0.16	
4/25/2003	1.73+/-	0.16		6/12/2003	1.12+/-	0.16	
4/26/2003	3.09+/-	0.18		6/13/2003	1.28+/-	0.16	
4/27/2003	1.19+/-	0.15		6/14/2003	0.61+/-	0.15	
4/28/2003	1.23+/-	0.15		6/15/2003	0.71+/-	0.15	
4/29/2003	1.11+/-	0.15		6/16/2003	0.53+/-	0.15	
4/30/2003	1.2+/-	0.16		6/17/2003	0.7+/-	0.13	
5/1/2003	1.28+/-	0.16		6/18/2003	0.68+/-	0.13	
5/2/2003	2.39+/-	0.17		6/19/2003	1.03+/-	0.14	
5/3/2003	2.22+/-	0.17		6/20/2003	0.97+/-	0.14	
5/4/2003	1.6+/-	0.16		6/21/2003	0.89+/-	0.14	
5/5/2003	1.19+/-	0.16		6/22/2003	1.1+/-	0.14	
5/6/2003	0.73+/-	0.15		6/23/2003	0.92+/-	0.14	
5/7/2003	1.13+/-	0.15		6/24/2003	0.85+/-	0.14	
5/8/2003	1+/-	0.15		6/25/2003	0.81+/-	0.14	
5/9/2003	1.21+/-	0.15		6/26/2003	0.78+/-	0.14	
5/10/2003	1.02+/-	0.15		6/27/2003	0.65+/-	0.14	
5/11/2003	0.56+/-	0.14		6/28/2003	0.78+/-	0.14	
5/12/2003	0.86+/-	0.15		6/29/2003	0.99+/-	0.14	
5/13/2003	1.02+/-	0.16		6/30/2003	1.16+/-	0.14	
5/14/2003	1.11+/-	0.16		7/1/2003	1.9+/-	0.15	
5/15/2003	0.78+/-	0.15		7/2/2003	1.56+/-	0.15	
5/16/2003	0.65+/-	0.15		7/3/2003	1.79+/-	0.15	
5/17/2003	0.85+/-	0.15		7/4/2003	1.64+/-	0.15	
5/18/2003	0.49+/-	0.15		7/5/2003	1.92+/-	0.15	
5/19/2003	0.82+/-	0.15		7/6/2003	1.86+/-	0.15	
5/20/2003	0.74+/-	0.15		7/7/2003	1.52+/-	0.15	
5/21/2003	0.57+/-	0.15		7/8/2003	1.78+/-	0.15	
5/22/2003	0.76+/-	0.15		7/9/2003	1.02+/-	0.14	
5/23/2003	1.12+/-	0.15		7/10/2003	0.61+/-	0.14	
5/24/2003	0.88+/-	0.15		7/11/2003	0.62+/-	0.14	

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**Location 122C**

<b>Date</b>	<b>Activity (pCi/ml)</b>	<b>Error</b>	<b>Comments</b>	<b>Date</b>	<b>Activity (pCi/ml)</b>	<b>Error</b>	<b>Comments</b>
7/12/2003	0.46+/-	0.13		8/28/2003	0.46+/-	0.13	
7/13/2003	0.87+/-	0.14		8/29/2003	0.71+/-	0.13	
7/14/2003	0.6+/-	0.14		8/30/2003	0.5+/-	0.13	
7/15/2003	0.96+/-	0.14		8/31/2003	0.64+/-	0.13	
7/16/2003	0.85+/-	0.14		9/1/2003	0.53+/-	0.13	
7/17/2003	1.43+/-	0.15		9/2/2003	0.53+/-	0.13	
7/18/2003	1.37+/-	0.15		9/3/2003	0.45+/-	0.13	
7/19/2003	0.82+/-	0.14		9/4/2003	0.47+/-	0.13	
7/20/2003	0.94+/-	0.14		9/5/2003	0.67+/-	0.13	
7/21/2003	0.93+/-	0.14		9/6/2003	0.41+/-	0.13	
7/22/2003	1.07+/-	0.14		9/7/2003	0.46+/-	0.13	
7/23/2003	1.11+/-	0.14		9/8/2003	0.56+/-	0.13	
7/24/2003	0.51+/-	0.13		9/9/2003	0.66+/-	0.13	
7/25/2003	0.63+/-	0.13		9/10/2003	0.69+/-	0.13	
7/26/2003	0.66+/-	0.14		9/11/2003	0.77+/-	0.13	
7/27/2003	0.9+/-	0.14		9/12/2003	0.54+/-	0.13	
7/28/2003	0.78+/-	0.14		9/13/2003	0.37+/-	0.13	
7/29/2003	0.51+/-	0.13		9/14/2003	0.5+/-	0.13	
7/30/2003	0.47+/-	0.13		9/15/2003	0.35+/-	0.13	
7/31/2003	0.47+/-	0.13		9/16/2003	0.64+/-	0.13	
8/1/2003	1.16+/-	0.14		9/17/2003	0.52+/-	0.13	
8/2/2003	1.31+/-	0.15		9/18/2003	0.67+/-	0.13	
8/3/2003	0.53+/-	0.13		9/19/2003	0.72+/-	0.13	
8/4/2003	0.71+/-	0.14		9/20/2003	0.62+/-	0.13	
8/5/2003	0.42+/-	0.13		9/21/2003	1.03+/-	0.14	
8/6/2003	0.51+/-	0.13		9/22/2003	0.72+/-	0.13	
8/7/2003	0.74+/-	0.13		9/23/2003	0.68+/-	0.13	
8/8/2003	0.83+/-	0.14		9/24/2003	0.72+/-	0.13	
8/9/2003	0.66+/-	0.13		9/25/2003	0.85+/-	0.13	
8/10/2003	0.63+/-	0.13		9/26/2003	0.67+/-	0.13	
8/11/2003	0.58+/-	0.13		9/27/2003	0.79+/-	0.13	
8/12/2003	0.42+/-	0.13		9/28/2003	0.77+/-	0.13	
8/13/2003	0.24+/-	0.13		9/29/2003	0.67+/-	0.13	
8/14/2003	0.46+/-	0.14		9/30/2003	0.51+/-	0.13	
8/15/2003	0.33+/-	0.13		10/1/2003	0.67+/-	0.14	
8/16/2003	0.22+/-	0.13		10/2/2003	0.31+/-	0.13	
8/17/2003	0.73+/-	0.14		10/3/2003	0.41+/-	0.13	
8/18/2003	0.97+/-	0.14		10/4/2003	0.37+/-	0.13	
8/19/2003	0.58+/-	0.13		10/5/2003	0.83+/-	0.14	
8/20/2003	0.57+/-	0.13		10/6/2003	0.97+/-	0.14	
8/21/2003	0.41+/-	0.13		10/7/2003	0.76+/-	0.13	
8/22/2003	0.4+/-	0.13		10/8/2003	0.52+/-	0.13	
8/23/2003	0.22+/-	0.13		10/9/2003	0.69+/-	0.13	
8/24/2003	0.29+/-	0.13		10/10/2003	0.84+/-	0.13	
8/25/2003	0.42+/-	0.13		10/11/2003	0.72+/-	0.13	
8/26/2003	0.49+/-	0.13		10/12/2003	0.65+/-	0.13	
8/27/2003	0.54+/-	0.13		10/13/2003	0.52+/-	0.13	

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**Location 122C**

<b>Date</b>	<b>Activity (pCi/ml)</b>	<b>Error</b>	<b>Comments</b>	<b>Date</b>	<b>Activity (pCi/ml)</b>	<b>Error</b>	<b>Comments</b>
10/14/2003	0.77+/-	0.13		12/1/2003	0.83+/-	0.14	
10/15/2003	0.61+/-	0.13		12/2/2003	1.00+/-	0.14	
10/16/2003	0.66+/-	0.13		12/3/2003	0.88+/-	0.14	
10/17/2003	0.76+/-	0.13		12/4/2003	1.32+/-	0.14	
10/18/2003	0.79+/-	0.13		12/5/2003	1.09+/-	0.14	
10/19/2003	0.61+/-	0.13		12/6/2003	1.04+/-	0.14	
10/20/2003	0.48+/-	0.13		12/7/2003	0.86+/-	0.14	
10/21/2003	1.02+/-	0.13		12/8/2003	0.95+/-	0.14	
10/22/2003	0.93+/-	0.13		12/9/2003	1.14+/-	0.14	
10/23/2003	0.78+/-	0.13		12/10/2003	1.02+/-	0.14	
10/24/2003	1.06+/-	0.13		12/11/2003	0.85+/-	0.14	
10/25/2003	0.83+/-	0.13		12/12/2003	0.79+/-	0.14	
10/26/2003	0.49+/-	0.12		12/13/2003	1.11+/-	0.14	
10/27/2003	0.75+/-	0.13		12/14/2003	0.93+/-	0.14	
10/28/2003	0.72+/-	0.13		12/15/2003	0.90+/-	0.14	
10/29/2003	0.85+/-	0.14		12/16/2003	1.31+/-	0.14	
10/30/2003	0.53+/-	0.13		12/17/2003	1.18+/-	0.14	
10/31/2003	0.4+/-	0.13		12/18/2003	0.80+/-	0.14	
11/1/2003	0.77+/-	0.13		12/19/2003	1.37+/-	0.14	
11/2/2003	0.51+/-	0.13		12/20/2003	1.43+/-	0.15	
11/3/2003	0.45+/-	0.13		12/21/2003	0.93+/-	0.14	
11/4/2003	0.49+/-	0.13		12/22/2003	1.19+/-	0.14	
11/5/2003	0.44+/-	0.13		12/23/2003	1.01+/-	0.14	
11/6/2003	0.67+/-	0.13		12/24/2003	0.87+/-	0.14	
11/7/2003	0.62+/-	0.13		12/25/2003	1.09+/-	0.14	
11/8/2003	0.52+/-	0.13		12/26/2003	1.10+/-	0.14	
11/9/2003	0.51+/-	0.13		12/27/2003	0.97+/-	0.14	
11/10/2003	0.58+/-	0.13		12/28/2003	1.22+/-	0.15	
11/11/2003	0.8+/-	0.13		12/29/2003	1.49+/-	0.15	
11/12/2003	0.46+/-	0.13		12/30/2003	0.99+/-	0.14	
11/13/2003	0.7+/-	0.14		12/31/2003	0.75+/-	0.14	
11/14/2003	0.73+/-	0.14					
11/15/2003	0.98+/-	0.14					
11/16/2003	0.88+/-	0.14					
11/17/2003	0.52+/-	0.13					
11/18/2003	0.78+/-	0.14					
11/19/2003	0.6+/-	0.13					
11/20/2003	0.61+/-	0.13					
11/21/2003	0.73+/-	0.13					
11/22/2003	0.64+/-	0.13					
11/23/2003	0.69+/-	0.13					
11/24/2003	0.82+/-	0.14					
11/25/2003	0.54+/-	0.13					
11/26/2003	0.56+/-	0.13					
11/27/2003	0.95+/-	0.14					
11/28/2003	1.2+/-	0.14					
11/29/2003	0.64+/-	0.13					
11/30/2003	0.61+/-	0.13					

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Date	Activity (pCi/ml)	Error	Comments	Date	Activity (pCi/ml)	Error	Comments
1/1/2003	0.8+/-	0.15		2/18/2003	0.82+/-	0.14	
1/2/2003	0.85+/-	0.15		2/19/2003	0.75+/-	0.14	
1/3/2003	0.82+/-	0.15		2/20/2003	0.99+/-	0.15	
1/4/2003	0.49+/-	0.14		2/21/2003	1.06+/-	0.15	
1/5/2003	0.7+/-	0.14		2/22/2003	0.53+/-	0.14	
1/6/2003	0.64+/-	0.14		2/23/2003	0.45+/-	0.14	
1/7/2003	0.97+/-	0.15		2/24/2003	0.48+/-	0.14	
1/8/2003	0.67+/-	0.14		2/25/2003	0.64+/-	0.15	
1/9/2003	0.87+/-	0.14		2/26/2003	0.75+/-	0.15	
1/10/2003	0.98+/-	0.15		2/27/2003	0.91+/-	0.15	
1/11/2003	0.94+/-	0.15		2/28/2003	0.91+/-	0.15	
1/12/2003	0.74+/-	0.14		3/1/2003	0.67+/-	0.15	
1/13/2003	0.39+/-	0.14		3/2/2003	0.88+/-	0.15	
1/14/2003	0.65+/-	0.14		3/3/2003	1.25+/-	0.15	
1/15/2003	0.68+/-	0.14		3/4/2003	0.87+/-	0.14	
1/16/2003	1.43+/-	0.16		3/5/2003	1.26+/-	0.15	
1/17/2003	1.12+/-	0.15		3/6/2003	1.23+/-	0.15	
1/18/2003	1.53+/-	0.16		3/7/2003	0.81+/-	0.14	
1/19/2003	1.25+/-	0.15		3/8/2003	0.98+/-	0.15	
1/20/2003	0.56+/-	0.14		3/9/2003	1.12+/-	0.15	
1/21/2003	1.08+/-	0.15		3/10/2003	0.96+/-	0.15	
1/22/2003	1.65+/-	0.16		3/11/2003	0.82+/-	0.15	
1/23/2003	0.93+/-	0.15		3/12/2003	1.01+/-	0.15	
1/24/2003	0.91+/-	0.15		3/13/2003	1.57+/-	0.16	
1/25/2003	0.9+/-	0.15		3/14/2003	0.78+/-	0.15	
1/26/2003	0.8+/-	0.15		3/15/2003	0.81+/-	0.15	
1/27/2003	0.87+/-	0.15		3/16/2003	0.82+/-	0.15	
1/28/2003	0.73+/-	0.14		3/17/2003	1.06+/-	0.15	
1/29/2003	0.88+/-	0.15		3/18/2003	0.99+/-	0.15	
1/30/2003	0.9+/-	0.15		3/19/2003	0.82+/-	0.15	
1/31/2003	0.92+/-	0.15		3/20/2003	0.65+/-	0.14	
2/1/2003	0.81+/-	0.15		3/21/2003	0.68+/-	0.15	
2/2/2003	0.8+/-	0.15		3/22/2003	0.76+/-	0.15	
2/3/2003	0.84+/-	0.15		3/23/2003	0.83+/-	0.15	
2/4/2003	0.53+/-	0.14		3/24/2003	0.98+/-	0.15	
2/5/2003	0.81+/-	0.15		3/25/2003	1.04+/-	0.15	
2/6/2003	0.81+/-	0.15		3/26/2003	1.64+/-	0.16	
2/7/2003	1.1+/-	0.15		3/27/2003	0.78+/-	0.15	
2/8/2003	0.75+/-	0.15		3/28/2003	0.89+/-	0.15	
2/9/2003	0.85+/-	0.15		3/29/2003	1.07+/-	0.15	
2/10/2003	1.19+/-	0.15		3/30/2003	1.13+/-	0.15	
2/11/2003	1.05+/-	0.15		3/31/2003	1.12+/-	0.15	
2/12/2003	1.14+/-	0.15		4/1/2003	0.99+/-	0.15	
2/13/2003	1.16+/-	0.15		4/2/2003	1.09+/-	0.15	
2/14/2003	0.79+/-	0.15		4/3/2003	1.21+/-	0.15	
2/15/2003	0.42+/-	0.14		4/4/2003	1.33+/-	0.15	
2/16/2003	0.11+/-	0.14		4/5/2003	1.77+/-	0.16	
2/17/2003	0.22+/-	0.14		4/6/2003	1.16+/-	0.15	

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**Location 102D**

Date	Activity (pCi/ml)	Error	Comments	Date	Activity (pCi/ml)	Error	Comments
4/7/2003	0.93+/-	0.15		5/25/2003	0.46+/-	0.15	
4/8/2003	1.03+/-	0.15		5/26/2003	0.73+/-	0.15	
4/9/2003	0.69+/-	0.14		5/27/2003	0.77+/-	0.15	
4/10/2003	1.18+/-	0.15		5/28/2003	0.54+/-	0.14	
4/11/2003	0.6+/-	0.14		5/29/2003	1.15+/-	0.15	
4/12/2003	1.12+/-	0.15		5/30/2003	0.77+/-	0.15	
4/13/2003	1.1+/-	0.15		5/31/2003	0.51+/-	0.14	
4/14/2003	1.05+/-	0.15		6/1/2003	0.5+/-	0.14	
4/15/2003	0.81+/-	0.15		6/2/2003	0.73+/-	0.15	
4/16/2003	0.84+/-	0.15		6/3/2003	0.35+/-	0.15	
4/17/2003	1.45+/-	0.16		6/4/2003	0.46+/-	0.15	
4/18/2003	1.01+/-	0.15		6/5/2003	0.41+/-	0.15	
4/19/2003	0.98+/-	0.15		6/6/2003	0.41+/-	0.15	
4/20/2003	0.9+/-	0.15		6/7/2003	0.47+/-	0.15	
4/21/2003	1.66+/-	0.16		6/8/2003	0.36+/-	0.15	
4/22/2003	1.03+/-	0.15		6/9/2003	0.55+/-	0.15	
4/23/2003	1.31+/-	0.15		6/10/2003	0.54+/-	0.15	
4/24/2003	1.1+/-	0.15		6/11/2003	0.8+/-	0.15	
4/25/2003	0.96+/-	0.15		6/12/2003	0.7+/-	0.15	
4/26/2003	1.65+/-	0.16		6/13/2003	0.7+/-	0.15	
4/27/2003	0.77+/-	0.15		6/14/2003	0.62+/-	0.15	
4/28/2003	1.15+/-	0.15		6/15/2003	0.59+/-	0.15	
4/29/2003	1.02+/-	0.15		6/16/2003	0.28+/-	0.14	
4/30/2003	1.07+/-	0.15		6/17/2003	0.58+/-	0.13	
5/1/2003	1.19+/-	0.16		6/18/2003	0.56+/-	0.13	
5/2/2003	1.7+/-	0.16		6/19/2003	0.48+/-	0.13	
5/3/2003	1.64+/-	0.16		6/20/2003	0.62+/-	0.13	
5/4/2003	1.06+/-	0.15		6/21/2003	0.46+/-	0.13	
5/5/2003	0.43+/-	0.14		6/22/2003	0.79+/-	0.14	
5/6/2003	0.42+/-	0.14		6/23/2003	0.59+/-	0.13	
5/7/2003	0.85+/-	0.15		6/24/2003	0.49+/-	0.13	
5/8/2003	0.72+/-	0.15		6/25/2003	0.36+/-	0.13	
5/9/2003	0.98+/-	0.15		6/26/2003	0.6+/-	0.14	
5/10/2003	0.79+/-	0.15		6/27/2003	0.33+/-	0.13	
5/11/2003	0.61+/-	0.14		6/28/2003	0.41+/-	0.13	
5/12/2003	0.54+/-	0.14		6/29/2003	0.44+/-	0.13	
5/13/2003	0.78+/-	0.15		6/30/2003	0.43+/-	0.13	
5/14/2003	0.76+/-	0.15		7/1/2003	0.47+/-	0.13	
5/15/2003	0.23+/-	0.14		7/2/2003	0.39+/-	0.13	
5/16/2003	0.49+/-	0.15		7/3/2003	0.55+/-	0.136	
5/17/2003	0.5+/-	0.15		7/4/2003	0.27+/-	0.13	
5/18/2003	0.45+/-	0.15		7/5/2003	0.28+/-	0.13	
5/19/2003	0.59+/-	0.15		7/6/2003	0.08+/-	0.13	
5/20/2003	0.38+/-	0.14		7/7/2003	1.39+/-	0.15	
5/21/2003	0.56+/-	0.15		7/8/2003	0.68+/-	0.14	
5/22/2003	0.33+/-	0.14		7/9/2003	0.64+/-	0.14	
5/23/2003	0.38+/-	0.14		7/10/2003	0.49+/-	0.13	
5/24/2003	0.39+/-	0.14		7/11/2003	0.41+/-	0.13	

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Date	Activity (pCi/ml)	Error	Comments	Date	Activity (pCi/ml)	Error	Comments
7/12/2003	0.3+/-	0.13		8/28/2003	0.41+/-	0.13	
7/13/2003	0.36+/-	0.13		8/29/2003	0.45+/-	0.13	
7/14/2003	0.49+/-	0.13		8/30/2003	0.29+/-	0.12	
7/15/2003	0.36+/-	0.13		8/31/2003	0.32+/-	0.12	
7/16/2003	0.71+/-	0.14		9/1/2003	0.27+/-	0.12	
7/17/2003	0.74+/-	0.14		9/2/2003	0.29+/-	0.13	
7/18/2003	0.24+/-	0.13		9/3/2003	0.32+/-	0.13	
7/19/2003	0.47+/-	0.13		9/4/2003	0.37+/-	0.13	
7/20/2003	0.48+/-	0.13		9/5/2003	0.42+/-	0.13	
7/21/2003	0.36+/-	0.13		9/6/2003	0.2+/-	0.13	
7/22/2003	0.74+/-	0.14		9/7/2003	0.47+/-	0.13	
7/23/2003	0.62+/-	0.13		9/8/2003	0.35+/-	0.13	
7/24/2003	0.73+/-	0.14		9/9/2003	0.25+/-	0.13	
7/25/2003	0.45+/-	0.13		9/10/2003	0.43+/-	0.13	
7/26/2003	0.49+/-	0.13		9/11/2003	0.25+/-	0.13	
7/27/2003	0.28+/-	0.13		9/12/2003	0.27+/-	0.13	
7/28/2003	0.59+/-	0.13		9/13/2003	0.32+/-	0.13	
7/29/2003	0.72+/-	0.14		9/14/2003	0.39+/-	0.13	
7/30/2003	0.13+/-	0.13		9/15/2003	0.26+/-	0.13	
7/31/2003	0.42+/-	0.13		9/16/2003	0.23+/-	0.12	
8/1/2003	0.65+/-	0.14		9/17/2003	0.51+/-	0.13	
8/2/2003	0.67+/-	0.14		9/18/2003	0.19+/-	0.12	
8/3/2003	0.86+/-	0.14		9/19/2003	0.63+/-	0.13	
8/4/2003	0.64+/-	0.14		9/20/2003	0.25+/-	0.12	
8/5/2003	0.68+/-	0.13		9/21/2003	0.41+/-	0.13	
8/6/2003	0.63+/-	0.13		9/22/2003	0.91+/-	0.13	
8/7/2003	0.46+/-	0.13		9/23/2003	0.56+/-	0.13	
8/8/2003	0.39+/-	0.13		9/24/2003	0.48+/-	0.13	
8/9/2003	0.54+/-	0.13		9/25/2003	0.63+/-	0.13	
8/10/2003	0.46+/-	0.13		9/26/2003	0.51+/-	0.13	
8/11/2003	0.37+/-	0.13		9/27/2003	0.83+/-	0.13	
8/12/2003	0.41+/-	0.13		9/28/2003	0.81+/-	0.13	
8/13/2003	0.46+/-	0.14		9/29/2003	0.75+/-	0.13	
8/14/2003	0+/-	0.13		9/30/2003	0.41+/-	0.13	
8/15/2003	0.37+/-	0.13		10/1/2003	0.79+/-	0.14	
8/16/2003	0.11+/-	0.13		10/2/2003	0.33+/-	0.13	
8/17/2003	0.15+/-	0.13		10/3/2003	0.44+/-	0.13	
8/18/2003	0.26+/-	0.13		10/4/2003	0.33+/-	0.13	
8/19/2003	0.47+/-	0.13		10/5/2003	0.49+/-	0.13	
8/20/2003	0.17+/-	0.13		10/6/2003	0.55+/-	0.14	
8/21/2003	0.37+/-	0.13		10/7/2003	0.6+/-	0.13	
8/22/2003	0.18+/-	0.13		10/8/2003	0.27+/-	0.12	
8/23/2003	0.38+/-	0.13		10/9/2003	0.36+/-	0.12	
8/24/2003	0.4+/-	0.13		10/10/2003	0.23+/-	0.12	
8/25/2003	0.18+/-	0.13		10/11/2003	0.36+/-	0.12	
8/26/2003	0.35+/-	0.13		10/12/2003	0.13+/-	0.12	
8/27/2003	0.54+/-	0.13		10/13/2003	0.22+/-	0.12	

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Date	Activity (pCi/ml)	Error	Comments	Date	Activity (pCi/ml)	Error	Comments
10/14/2003	0.28+/-	0.13		12/1/2003	0.66+/-	0.13	
10/15/2003	1.05+/-	0.14		12/2/2003	0.54+/-	0.13	
10/16/2003	0.44+/-	0.13		12/3/2003	0.85+/-	0.13	
10/17/2003	0.56+/-	0.13		12/4/2003	0.61+/-	0.13	
10/18/2003	0.16+/-	0.13		12/5/2003	0.88+/-	0.14	
10/19/2003	0.36+/-	0.13		12/6/2003	0.81+/-	0.13	
10/20/2003	0.6+/-	0.13		12/7/2003	0.49+/-	0.13	
10/21/2003	0.36+/-	0.12		12/8/2003	0.86+/-	0.14	
10/22/2003	0.47+/-	0.12		12/9/2003	0.83+/-	0.13	
10/23/2003	0.48+/-	0.12		12/10/2003	0.68+/-	0.13	
10/24/2003	0.66+/-	0.13		12/11/2003	0.76+/-	0.13	
10/25/2003	0.55+/-	0.12		12/12/2003	0.73+/-	0.13	
10/26/2003	0.65+/-	0.13		12/13/2003	0.79+/-	0.14	
10/27/2003	0.61+/-	0.12		12/14/2003	0.57+/-	0.13	
10/28/2003	0.58+/-	0.13		12/15/2003	0.69+/-	0.13	
10/29/2003	0.41+/-	0.13		12/16/2003	0.85+/-	0.14	
10/30/2003	0.41+/-	0.13		12/17/2003	0.83+/-	0.14	
10/31/2003	0.46+/-	0.13		12/18/2003	1.00+/-	0.14	
11/1/2003	0.3+/-	0.13		12/19/2003	1.04+/-	0.14	
11/2/2003	0.23+/-	0.13		12/20/2003	1.18+/-	0.14	
11/3/2003	0.31+/-	0.13		12/21/2003	0.76+/-	0.14	
11/4/2003	0.33+/-	0.13		12/22/2003	1.43+/-	0.15	
11/5/2003	0.25+/-	0.13		12/23/2003	0.71+/-	0.14	
11/6/2003	0.31+/-	0.13		12/24/2003	0.73+/-	0.14	
11/7/2003	0.42+/-	0.13		12/25/2003	0.72+/-	0.14	
11/8/2003	0.38+/-	0.13		12/26/2003	0.90+/-	0.14	
11/9/2003	0.61+/-	0.13		12/27/2003	0.75+/-	0.14	
11/10/2003	0.43+/-	0.13		12/28/2003	1.04+/-	0.14	
11/11/2003	0.33+/-	0.13		12/29/2003	1.24+/-	0.15	
11/12/2003	0.56+/-	0.13		12/30/2003	0.70+/-	0.14	
11/13/2003	0.59+/-	0.13		12/31/2003	0.73+/-	0.14	
11/14/2003	0.09+/-	0.13					
11/15/2003	0.52+/-	0.13					
11/16/2003	0.51+/-	0.13					
11/17/2003	0.51+/-	0.13					
11/18/2003	0.66+/-	0.13					
11/19/2003	0.51+/-	0.13					
11/20/2003	0.61+/-	0.13					
11/21/2003	0.63+/-	0.13					
11/22/2003	0.61+/-	0.13					
11/23/2003	0.48+/-	0.13					
11/24/2003	0.67+/-	0.13					
11/25/2003	0.62+/-	0.13					
11/26/2003	0.57+/-	0.13					
11/27/2003	0.86+/-	0.14					
11/28/2003	0.34+/-	0.13					
11/29/2003	0.64+/-	0.13					
11/30/2003	0.59+/-	0.13					

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<b>Date</b>	<b>Activity (pCi/ml)</b>	<b>Error</b>	<b>Comments</b>	<b>Date</b>	<b>Activity (pCi/ml)</b>	<b>Error</b>	<b>Comments</b>
1/1/2003	0.56+/-	0.14		2/18/2003	0.44+/-	0.14	
1/2/2003	0.3+/-	0.14		2/19/2003	0.21+/-	0.14	
1/3/2003	0.77+/-	0.15		2/20/2003	0.45+/-	0.14	
1/4/2003	0.43+/-	0.14		2/21/2003	0.69+/-	0.14	
1/5/2003	0.5+/-	0.15		2/22/2003	0.18+/-	0.14	
1/6/2003	0.35+/-	0.14		2/23/2003	0.2+/-	0.14	
1/7/2003	0.56+/-	0.15		2/24/2003	0.38+/-	0.14	
1/8/2003	0.59+/-	0.14		2/25/2003	0.38+/-	0.14	
1/9/2003	0.76+/-	0.14		2/26/2003	0.29+/-	0.14	
1/10/2003	0.61+/-	0.14		2/27/2003	0.45+/-	0.14	
1/11/2003	0.74+/-	0.14		2/28/2003	0.16+/-	0.14	
1/12/2003	0.59+/-	0.14		3/1/2003	0.4+/-	0.14	
1/13/2003	0.71+/-	0.14		3/2/2003	0.51+/-	0.14	
1/14/2003	0.73+/-	0.14		3/3/2003	0.51+/-	0.14	
1/15/2003	0.68+/-	0.14		3/4/2003	0.41+/-	0.14	
1/16/2003	0.32+/-	0.14		3/5/2003	0.59+/-	0.14	
1/17/2003	0.59+/-	0.14		3/6/2003	0.9+/-	0.14	
1/18/2003	0.54+/-	0.14		3/7/2003	0.42+/-	0.13	
1/19/2003	0.88+/-	0.15		3/8/2003	0.8+/-	0.14	
1/20/2003	0.94+/-	0.15		3/9/2003	0.34+/-	0.13	
1/21/2003	0.61+/-	0.14		3/10/2003	0.48+/-	0.14	
1/22/2003	0.72+/-	0.14		3/11/2003	0.74+/-	0.14	
1/23/2003	0.53+/-	0.14		3/12/2003	0.9+/-	0.14	
1/24/2003	0.59+/-	0.14		3/13/2003	0.69+/-	0.14	
1/25/2003	0.58+/-	0.14		3/14/2003	0.94+/-	0.15	
1/26/2003	0.57+/-	0.14		3/15/2003	0.99+/-	0.15	
1/27/2003	0.55+/-	0.14		3/16/2003	1.25+/-	0.15	
1/28/2003	0.34+/-	0.14		3/17/2003	0.82+/-	0.14	
1/29/2003	0.68+/-	0.14		3/18/2003	1.2+/-	0.15	
1/30/2003	0.91+/-	0.14		3/19/2003	0.76+/-	0.14	
1/31/2003	0.93+/-	0.14		3/20/2003	0.44+/-	0.14	
2/1/2003	1.12+/-	0.15		3/21/2003	0.72+/-	0.14	
2/2/2003	0.97+/-	0.15		3/22/2003	0.54+/-	0.14	
2/3/2003	0.83+/-	0.15		3/23/2003	0.42+/-	0.14	
2/4/2003	0.57+/-	0.14		3/24/2003	0.54+/-	0.14	
2/5/2003	0.7+/-	0.14		3/25/2003	0.57+/-	0.14	
2/6/2003	0.42+/-	0.14		3/26/2003	0.58+/-	0.14	
2/7/2003	0.9+/-	0.15		3/27/2003	0.85+/-	0.15	
2/8/2003	0.86+/-	0.14		3/28/2003	0.95+/-	0.15	
2/9/2003	0.72+/-	0.14		3/29/2003	0.86+/-	0.15	
2/10/2003	0.9+/-	0.15		3/30/2003	1.07+/-	0.15	
2/11/2003	0.82+/-	0.14		3/31/2003	1.02+/-	0.15	
2/12/2003	0.65+/-	0.15		4/1/2003	0.73+/-	0.14	
2/13/2003	0.55+/-	0.14		4/2/2003	0.91+/-	0.15	
2/14/2003	0.55+/-	0.14		4/3/2003	0.68+/-	0.14	
2/15/2003	0.29+/-	0.14		4/4/2003	0.91+/-	0.15	
2/16/2003	0.12+/-	0.14		4/5/2003	0.65+/-	0.14	
2/17/2003	0.16+/-	0.14		4/6/2003	0.73+/-	0.14	



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Date	Activity (pCi/ml)	Error	Comments	Date	Activity (pCi/ml)	Error	Comments
4/7/2003	0.48+/-	0.14		5/25/2003	0.29+/-	0.14	
4/8/2003	0.99+/-	0.15		5/26/2003	0.35+/-	0.14	
4/9/2003	0.23+/-	0.14		5/27/2003	0.26+/-	0.14	
4/10/2003	0.4+/-	0.14		5/28/2003	0.23+/-	0.14	
4/11/2003	0.42+/-	0.14		5/29/2003	0.75+/-	0.15	
4/12/2003	0.63+/-	0.14		5/30/2003	0.51+/-	0.15	
4/13/2003	0.57+/-	0.14		5/31/2003	0.13+/-	0.14	
4/14/2003	0.8+/-	0.14		6/1/2003	0.15+/-	0.14	
4/15/2003	0.59+/-	0.14		6/2/2003	0.34+/-	0.15	
4/16/2003	0.63+/-	0.14		6/3/2003	0.44+/-	0.15	
4/17/2003	0.84+/-	0.14		6/4/2003	0.74+/-	0.15	
4/18/2003	0.93+/-	0.15		6/5/2003	0.68+/-	0.15	
4/19/2003	0.58+/-	0.14		6/6/2003	0.47+/-	0.14	
4/20/2003	0.53+/-	0.14		6/7/2003	0.72+/-	0.15	
4/21/2003	0.73+/-	0.14		6/8/2003	0.81+/-	0.15	
4/22/2003	0.9+/-	0.15		6/9/2003	0.48+/-	0.14	
4/23/2003	0.81+/-	0.14		6/10/2003	0.58+/-	0.14	
4/24/2003	0.96+/-	0.15		6/11/2003	0.56+/-	0.14	
4/25/2003	0.93+/-	0.15		6/12/2003	0.4+/-	0.13	
4/26/2003	0.8+/-	0.14		6/13/2003	0.68+/-	0.14	
4/27/2003	0.86+/-	0.15		6/14/2003	0.62+/-	0.14	
4/28/2003	0.63+/-	0.14		6/15/2003	0.41+/-	0.13	
4/29/2003	1.23+/-	0.15		6/16/2003	0.64+/-	0.14	
4/30/2003	0.77+/-	0.15		6/17/2003	0.76+/-	0.14	
5/1/2003	0.98+/-	0.15		6/18/2003	0.67+/-	0.14	
5/2/2003	0.93+/-	0.15		6/19/2003	0.34+/-	0.13	
5/3/2003	0.89+/-	0.15		6/20/2003	0.38+/-	0.13	
5/4/2003	0.75+/-	0.15		6/21/2003	0.3+/-	0.13	
5/5/2003	0.52+/-	0.14		6/22/2003	0.4+/-	0.13	
5/6/2003			Line dislodged	6/23/2003	0.36+/-	0.13	
5/7/2003	0.45+/-	0.14		6/24/2003	0.18+/-	0.13	
5/8/2003	0.9+/-	0.15		6/25/2003	0.44+/-	0.13	
5/9/2003	0.64+/-	0.15		6/26/2003	0.4+/-	0.13	
5/10/2003	0.43+/-	0.14		6/27/2003	0.38+/-	0.13	
5/11/2003			Equipment Malfunction	6/28/2003	0.36+/-	0.13	
5/12/2003			Equipment Malfunction	6/29/2003	0.47+/-	0.13	
5/13/2003	0.52+/-	0.14		6/30/2003	0.71+/-	0.13	
5/14/2003	0.74+/-	0.14		7/1/2003	0.34+/-	0.13	
5/15/2003	0.86+/-	0.14		7/2/2003	0.22+/-	0.13	
5/16/2003	0.95+/-	0.14		7/3/2003	0.38+/-	0.13	
5/17/2003	0.84+/-	0.14		7/4/2003	0.43+/-	0.13	
5/18/2003	0.55+/-	0.14		7/5/2003	0.46+/-	0.13	
5/19/2003	0.78+/-	0.14		7/6/2003	0.17+/-	0.13	
5/20/2003	0.69+/-	0.14		7/7/2003	0.24+/-	0.13	
5/21/2003	0.24+/-	0.14		7/8/2003	0.43+/-	0.13	
5/22/2003	0.02+/-	0.14		7/9/2003	0.36+/-	0.13	
5/23/2003	0.22+/-	0.14		7/10/2003	0.73+/-	0.13	
5/24/2003	0.1+/-	0.14		7/11/2003	0.51+/-	0.13	

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Date	Activity (pCi/ml)	Error	Comments	Date	Activity (pCi/ml)	Error	Comments
7/12/2003	0.33+/-	0.13		8/28/2003	0.24+/-	0.12	
7/13/2003	0.38+/-	0.13		8/29/2003	0.53+/-	0.13	
7/14/2003	0.41+/-	0.13		8/30/2003	0.54+/-	0.13	
7/15/2003	0.4+/-	0.13		8/31/2003	0.44+/-	0.12	
7/16/2003	0.26+/-	0.13		9/1/2003	0.54+/-	0.13	
7/17/2003	0.34+/-	0.13		9/2/2003	0.4+/-	0.12	
7/18/2003	0.26+/-	0.13		9/3/2003	0.36+/-	0.13	
7/19/2003	0.28+/-	0.13		9/4/2003	0.61+/-	0.13	
7/20/2003	0.08+/-	0.13		9/5/2003	0.08+/-	0.13	
7/21/2003	0.27+/-	0.13		9/6/2003	0.53+/-	0.13	
7/22/2003	0.15+/-	0.13		9/7/2003	0.23+/-	0.13	
7/23/2003	0.52+/-	0.13		9/8/2003	0.52+/-	0.13	
7/24/2003	0.9+/-	0.14		9/9/2003	0.37+/-	0.13	
7/25/2003	0.76+/-	0.14		9/10/2003	0.18+/-	0.13	
7/26/2003	0.55+/-	0.13		9/11/2003	0+/-	0.12	
7/27/2003	0.39+/-	0.13		9/12/2003	0.23+/-	0.13	
7/28/2003	0.54+/-	0.13		9/13/2003	0.14+/-	0.12	
7/29/2003	0.61+/-	0.13		9/14/2003	0.37+/-	0.13	
7/30/2003	0.52+/-	0.13		9/15/2003	0+/-	0.12	
7/31/2003	0.28+/-	0.13		9/16/2003	0.3+/-	0.13	
8/1/2003	0.46+/-	0.13		9/17/2003	0.23+/-	0.13	
8/2/2003	0.7+/-	0.14		9/18/2003	0.13+/-	0.13	
8/3/2003	0.6+/-	0.14		9/19/2003	0.27+/-	0.13	
8/4/2003	0.61+/-	0.14		9/20/2003	0.21+/-	0.13	
8/5/2003	0.47+/-	0.13		9/21/2003	0.22+/-	0.13	
8/6/2003	0.43+/-	0.13		9/22/2003	0.43+/-	0.13	
8/7/2003	0.47+/-	0.13		9/23/2003	0.37+/-	0.13	
8/8/2003	0.38+/-	0.13		9/24/2003	0.32+/-	0.13	
8/9/2003	0.43+/-	0.13		9/25/2003	0.66+/-	0.13	
8/10/2003	0.54+/-	0.13		9/26/2003	0.33+/-	0.13	
8/11/2003	0.52+/-	0.13		9/27/2003	0.71+/-	0.13	
8/12/2003	0.47+/-	0.13		9/28/2003	0.45+/-	0.13	
8/13/2003	0.34+/-	0.13		9/29/2003	0.37+/-	0.13	
8/14/2003	0.32+/-	0.13		9/30/2003	0.43+/-	0.13	
8/15/2003	0.47+/-	0.13		10/1/2003	0.69+/-	0.13	
8/16/2003	0.15+/-	0.13		10/2/2003	0.27+/-	0.13	
8/17/2003	0.45+/-	0.13		10/3/2003	0.21+/-	0.13	
8/18/2003	0.27+/-	0.13		10/4/2003	0.34+/-	0.13	
8/19/2003	0.3+/-	0.13		10/5/2003	0.42+/-	0.13	
8/20/2003	0.26+/-	0.13		10/6/2003	0.21+/-	0.13	
8/21/2003	0.05+/-	0.13		10/7/2003	0.21+/-	0.13	
8/22/2003	0.02+/-	0.13		10/8/2003	0.27+/-	0.13	
8/23/2003	0.25+/-	0.13		10/9/2003	0.67+/-	0.13	
8/24/2003	0.03+/-	0.13		10/10/2003	0.58+/-	0.13	
8/25/2003	0.25+/-	0.13		10/11/2003	0.27+/-	0.13	
8/26/2003	0.26+/-	0.13		10/12/2003	0.5+/-	0.13	
8/27/2003	0.28+/-	0.12		10/13/2003	0.16+/-	0.13	

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Date	Activity (pCi/ml)	Error	Comments	Date	Activity (pCi/ml)	Error	Comments
10/14/2003	0.11+/-	0.13		12/1/2003	0.56+/-	0.13	
10/15/2003	0.41+/-	0.13		12/2/2003	0.45+/-	0.13	
10/16/2003	0.8+/-	0.13		12/3/2003	0.51+/-	0.13	
10/17/2003	0.37+/-	0.13		12/4/2003	0.52+/-	0.13	
10/18/2003	0.22+/-	0.12		12/5/2003	0.62+/-	0.14	
10/19/2003	0.56+/-	0.13		12/6/2003	0.92+/-	0.14	
10/20/2003	0.57+/-	0.13		12/7/2003	0.72+/-	0.14	
10/21/2003	0.38+/-	0.13		12/8/2003	0.55+/-	0.13	
10/22/2003	0.41+/-	0.13		12/9/2003	0.51+/-	0.13	
10/23/2003	0.45+/-	0.13		12/10/2003	0.80+/-	0.14	
10/24/2003	0.3+/-	0.12		12/11/2003	0.80+/-	0.13	
10/25/2003	0.38+/-	0.13		12/12/2003	0.94+/-	0.14	
10/26/2003	0.81+/-	0.13		12/13/2003	0.88+/-	0.14	
10/27/2003	0.67+/-	0.13		12/14/2003	0.93+/-	0.14	
10/28/2003	0.56+/-	0.13		12/15/2003	0.95+/-	0.14	
10/29/2003	0.55+/-	0.13		12/16/2003	0.89+/-	0.14	
10/30/2003	0.25+/-	0.12		12/17/2003	0.68+/-	0.14	
10/31/2003	0.66+/-	0.13		12/18/2003	0.69+/-	0.14	
11/1/2003	0.57+/-	0.13		12/19/2003	0.69+/-	0.14	
11/2/2003	0.57+/-	0.13		12/20/2003	0.68+/-	0.14	
11/3/2003	0.24+/-	0.12		12/21/2003	0.70+/-	0.14	
11/4/2003	0.6+/-	0.13		12/22/2003	0.36+/-	0.13	
11/5/2003	0.5+/-	0.13		12/23/2003	0.66+/-	0.14	
11/6/2003	0.42+/-	0.13		12/24/2003	0.73+/-	0.14	
11/7/2003	0.7+/-	0.13		12/25/2003	0.75+/-	0.14	
11/8/2003	0.32+/-	0.13		12/26/2003	0.54+/-	0.13	
11/9/2003	0.34+/-	0.13		12/27/2003	0.69+/-	0.14	
11/10/2003	0.25+/-	0.12		12/28/2003	0.74+/-	0.14	
11/11/2003	0.31+/-	0.13		12/29/2003	0.83+/-	0.14	
11/12/2003	0.26+/-	0.13		12/30/2003	1.18+/-	0.14	
11/13/2003	0.24+/-	0.13		12/31/2003	0.54+/-	0.14	
11/14/2003	0.41+/-	0.13					
11/15/2003	0.57+/-	0.13					
11/16/2003	0.53+/-	0.13					
11/17/2003	0.46+/-	0.13					
11/18/2003	0.56+/-	0.13					
11/19/2003	0.6+/-	0.13					
11/20/2003	0.61+/-	0.13					
11/21/2003	0.73+/-	0.13					
11/22/2003	0.5+/-	0.13					
11/23/2003	0.74+/-	0.13					
11/24/2003	0.7+/-	0.13					
11/25/2003	0.76+/-	0.13					
11/26/2003	0.76+/-	0.14					
11/27/2003	0.46+/-	0.13					
11/28/2003	0.4+/-	0.13					
11/29/2003	0.32+/-	0.13					
11/30/2003	0.18+/-	0.13					

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**APPENDIX B**

**DRAINAGE CHANNEL SURFACE WATER  
DATA CHARTS AND SUMMARY  
2003**

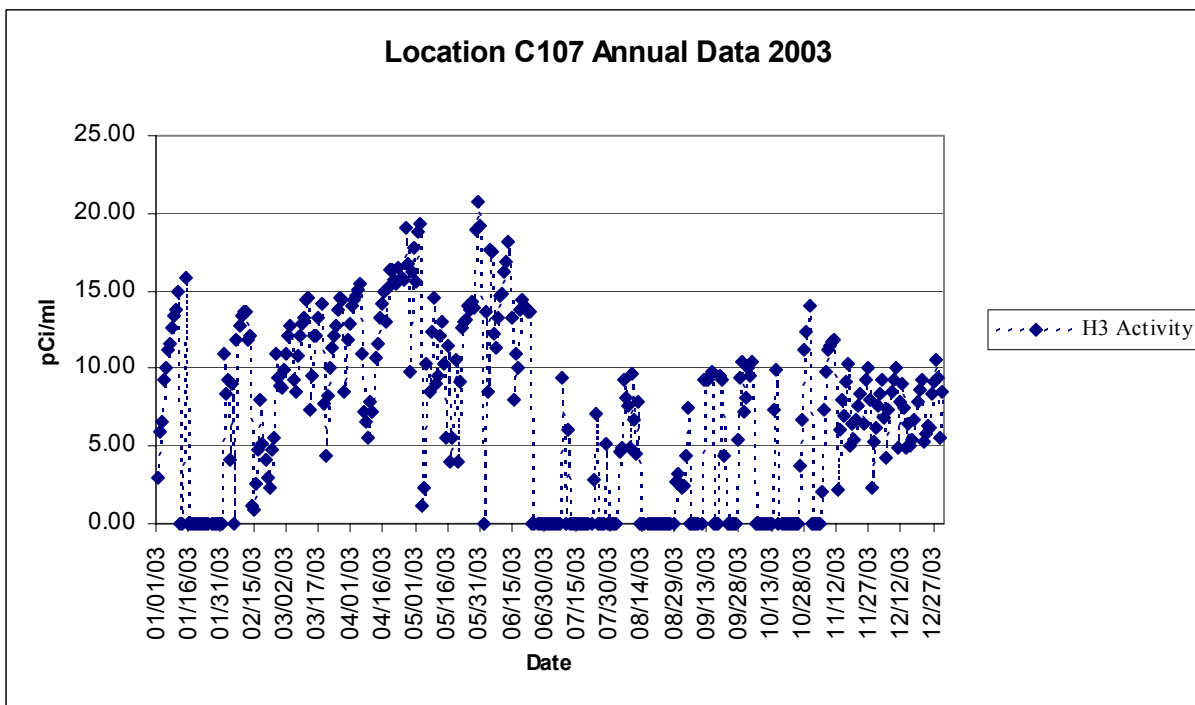
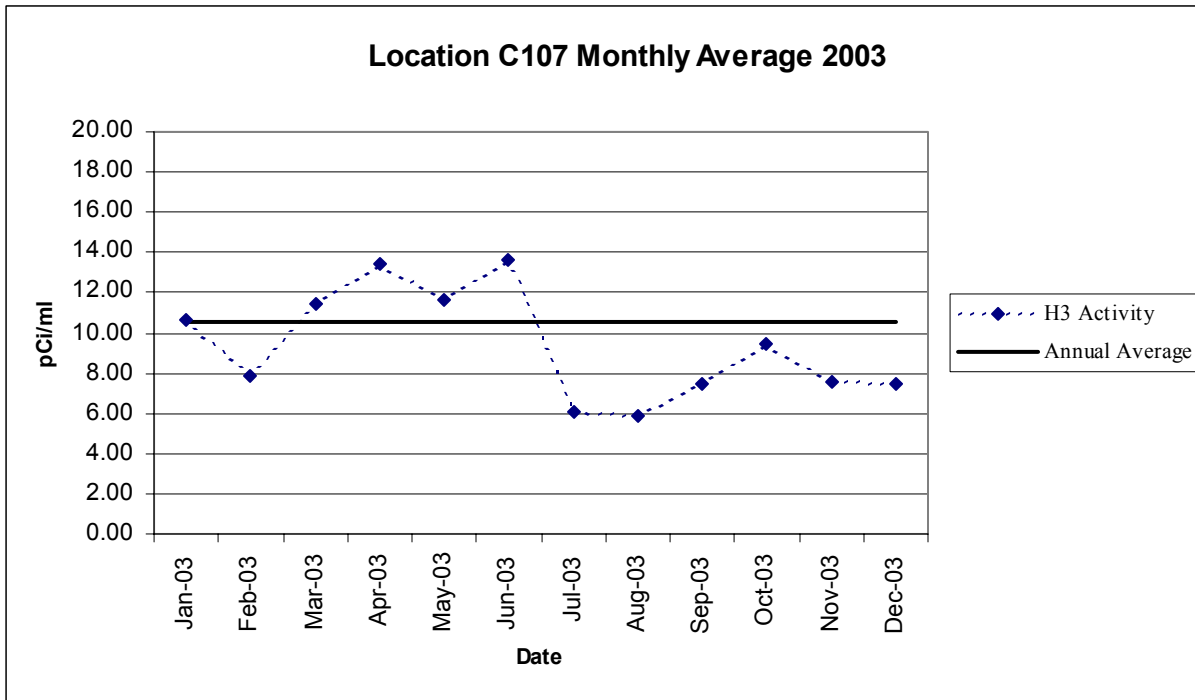
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**APPENDIX B1**

**DRAINAGE CHANNEL SURFACE WATER  
DATA CHARTS  
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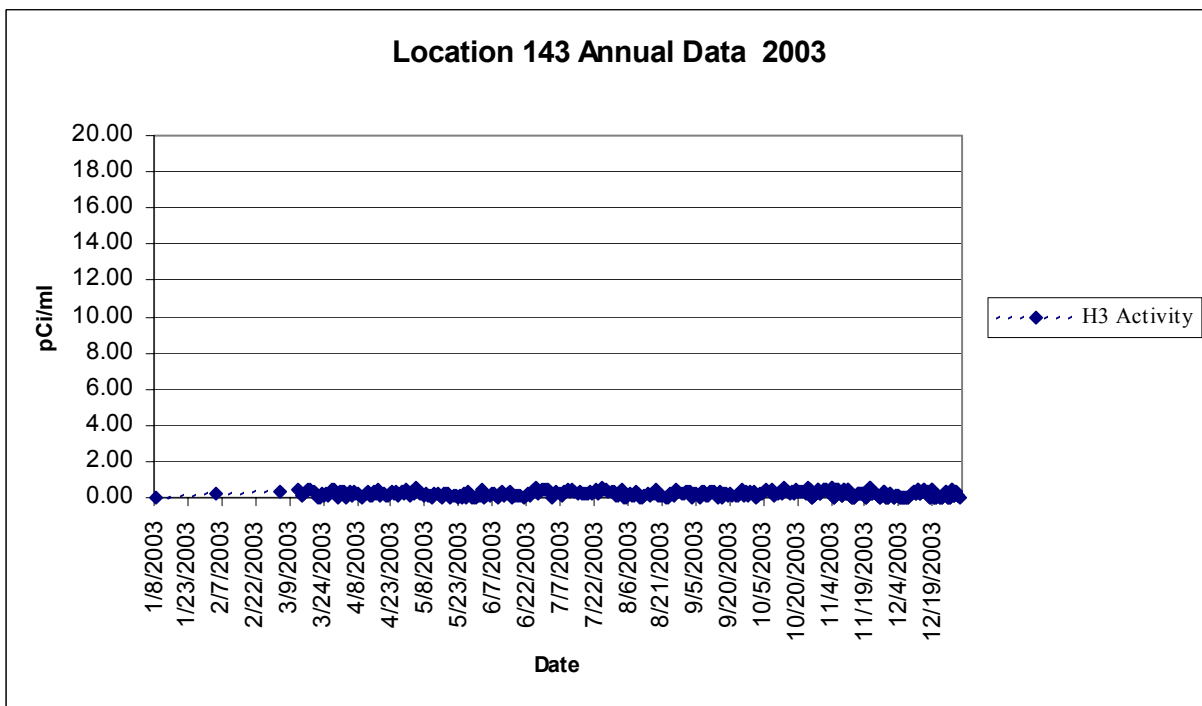
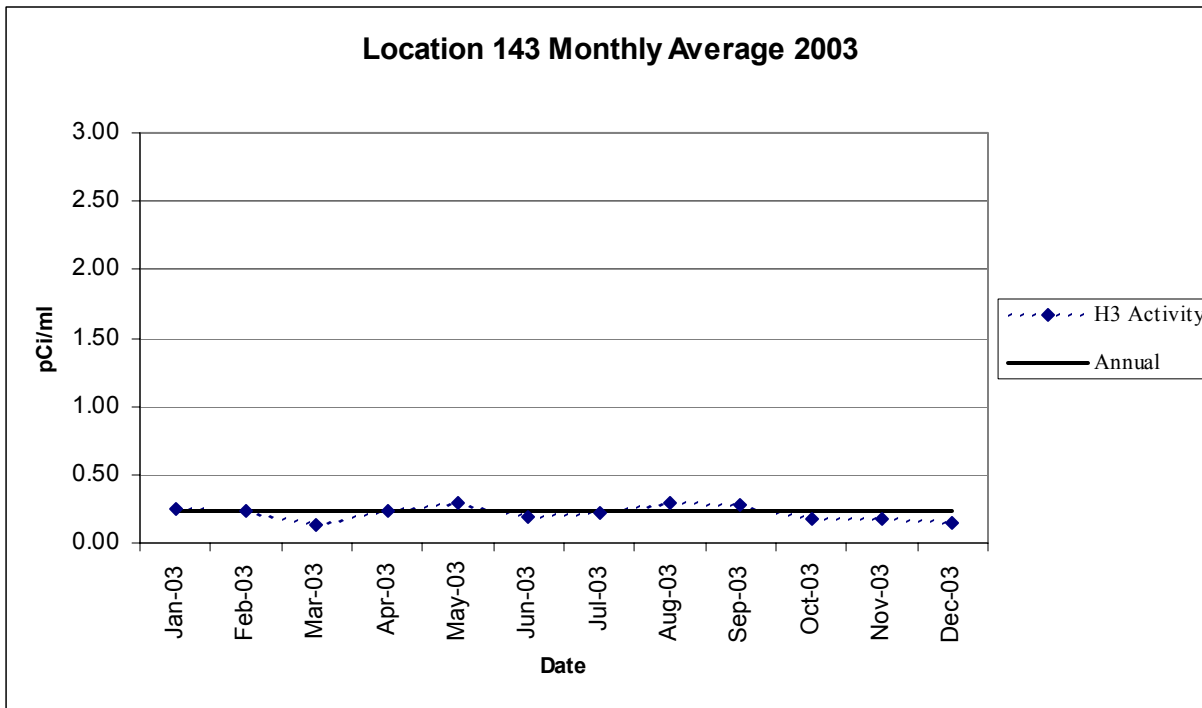
**25 mrem/yr TEDE PSVP Compliance Point C107**



Note: One sample exceeded the 20 pCi/ml with a reading of 20.71 pCi/ml  
 MDA = 0.44 pCi/ml  
 Annual average = 10.55 pCi/ml  
 Min = 0.90 pCi/ml    Max = 20.71 pCi/ml

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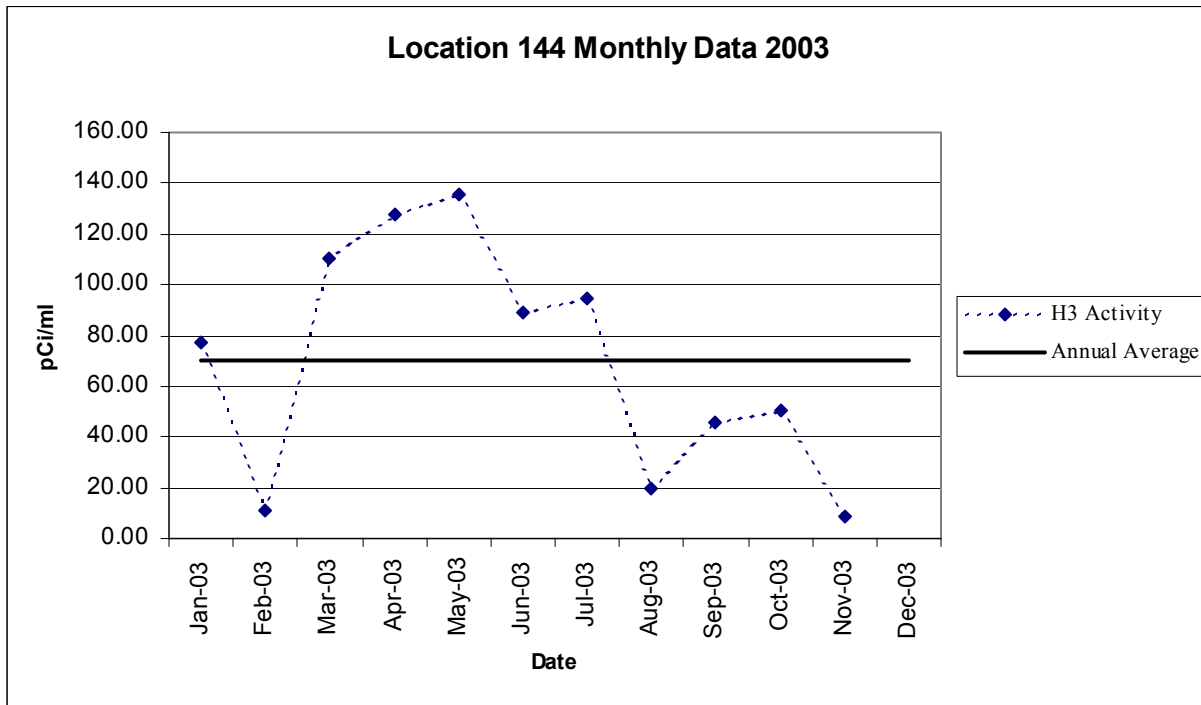
**25 mrem/yr TEDE PSVP Compliance Point 143**



Note: All samples less than 20 pCi/ml  
MDA = 0.44 pCi/ml  
Annual average = 0.23 pCi/ml  
Min = 0.00 pCi/ml    Max = 0.56 pCi/ml

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**25 mrem/yr TEDE PSVP Compliance Point 144**



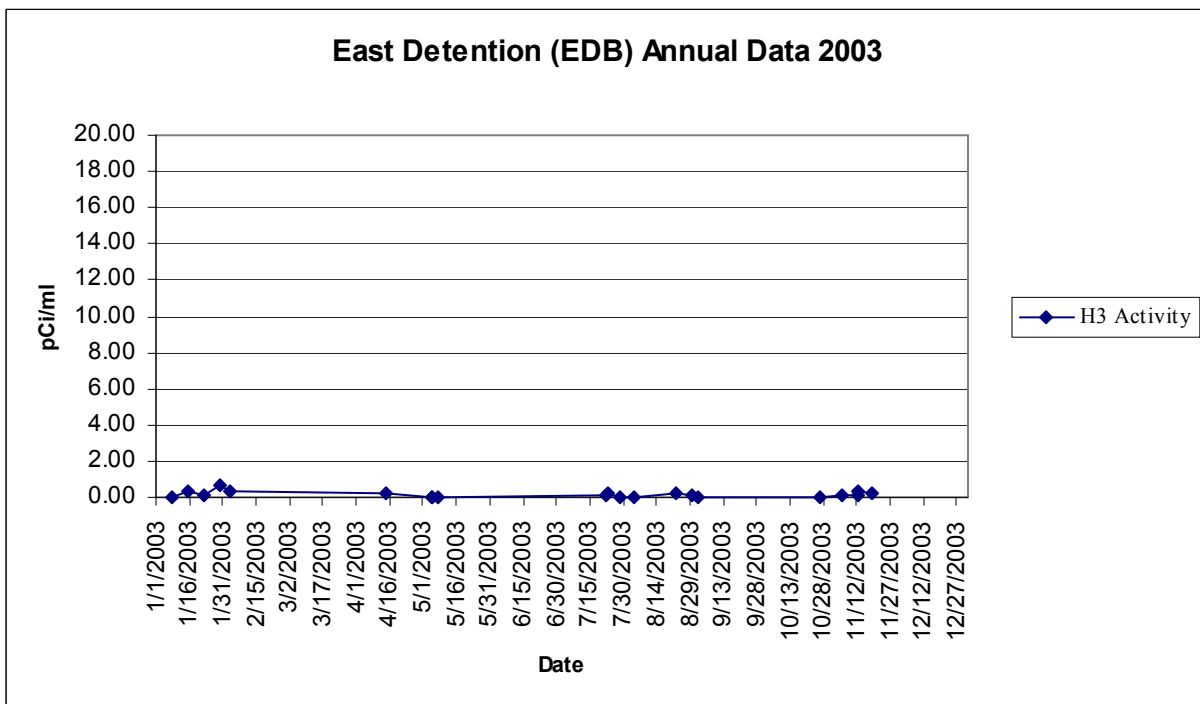
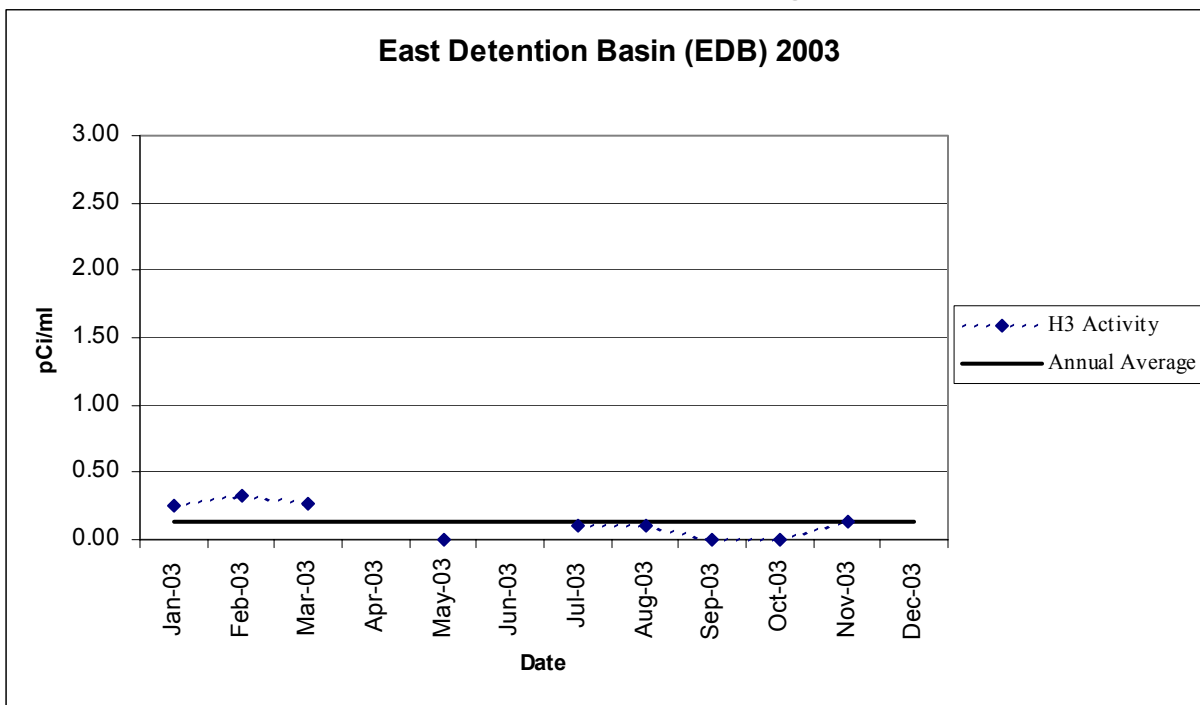
Note: MDA = 0.44 pCi/ml  
Annual average = 69.94 pCi/ml  
Min = 8.82 pCi/ml    Max = 135.22 pCi/ml

No monthly average for location 144. Samples were collected monthly.  
Sampler has been installed to collect daily samples beginning January 2004.



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**East Detention Basin Discharge Flow**



Note: All samples less than 20 pCi/ml – insufficient precipitation for sample for Mar, Jun, and Dec 2003  
 MDA = 0.44 pCi/ml  
 Annual average = 0.13 pCi/ml  
 Min = 0.00 pCi/ml    Max = 0.62 pCi/ml

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**APPENDIX B2**

**DRAINAGE CHANNEL SURFACE WATER  
DATA SUMMARY  
2003**

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**Location C107**

<b>Date</b>	<b>Activity (pCi/ml)</b>	<b>Error</b>	<b>Comments</b>	<b>Date</b>	<b>Activity (pCi/ml)</b>	<b>Error</b>	<b>Comments</b>
1/1/2003	2.97+/-	0.14		2/18/2003	8.00+/-	0.23	
1/2/2003	5.95+/-	0.20		2/19/2003	5.10+/-	0.20	
1/3/2003	6.61+/-	0.21		2/20/2003	4.12+/-	0.19	
1/4/2003	9.25+/-	0.24		2/21/2003	3.00+/-	0.17	
1/5/2003	9.99+/-	0.24		2/22/2003	2.30+/-	0.17	
1/6/2003	11.17+/-	0.25		2/23/2003	4.75+/-	0.19	
1/7/2003	11.62+/-	0.25		2/24/2003	5.52+/-	0.20	
1/8/2003	12.66+/-	0.26		2/25/2003	10.90+/-	0.25	
1/9/2003	13.42+/-	0.27		2/26/2003	9.40+/-	0.24	
1/10/2003	13.78+/-	0.28		2/27/2003	8.93+/-	0.24	
1/11/2003	14.91+/-	0.29		2/28/2003	8.81+/-	0.24	
1/12/2003			Insufficient flow	3/1/2003	9.92+/-	0.25	
1/13/2003			Insufficient flow	3/2/2003	10.96+/-	0.26	
1/14/2003	15.87+/-	0.29		3/3/2003	12.12+/-	0.27	
1/15/2003			Insufficient flow	3/4/2003	12.82+/-	0.27	
1/16/2003			Frozen line	3/5/2003	9.26+/-	0.24	
1/17/2003			Frozen line	3/6/2003	8.50+/-	0.23	
1/18/2003			Frozen line	3/7/2003	10.87+/-	0.25	
1/19/2003			Frozen line	3/8/2003	12.12+/-	0.26	
1/20/2003			Frozen line	3/9/2003	12.94+/-	0.26	
1/21/2003			Frozen line	3/10/2003	13.21+/-	0.26	
1/22/2003			Frozen line	3/11/2003	14.38+/-	0.27	
1/23/2003			Frozen line	3/12/2003	14.59+/-	0.28	
1/24/2003			Frozen line	3/13/2003	7.35+/-	0.22	
1/25/2003			Frozen line	3/14/2003	9.57+/-	0.24	
1/26/2003			Frozen line	3/15/2003	12.15+/-	0.26	
1/27/2003			Frozen line	3/16/2003	12.17+/-	0.26	
1/28/2003			Frozen line	3/17/2003	13.24+/-	0.27	
1/29/2003			Frozen line	3/18/2003	14.15+/-	0.28	
1/30/2003			Frozen line	3/19/2003	7.78+/-	0.22	
1/31/2003			Frozen line	3/20/2003	4.36+/-	0.19	
2/1/2003	11.00+/-	0.25		3/21/2003	8.31+/-	0.23	
2/2/2003	8.36+/-	0.23		3/22/2003	10.10+/-	0.25	
2/3/2003	9.24+/-	0.24		3/23/2003	11.37+/-	0.26	
2/4/2003	4.09+/-	0.18		3/24/2003	12.07+/-	0.26	
2/5/2003	9.05+/-	0.23		3/25/2003	12.82+/-	0.27	
2/6/2003			Insufficient flow	3/26/2003	13.82+/-	0.28	
2/7/2003	11.81+/-	0.26		3/27/2003	14.61+/-	0.29	
2/8/2003	12.73+/-	0.27		3/28/2003	14.37+/-	0.28	
2/9/2003	13.46+/-	0.27		3/29/2003	8.54+/-	0.23	
2/10/2003	13.65+/-	0.27		3/30/2003	11.82+/-	0.26	
2/11/2003	13.71+/-	0.28		3/31/2003	12.93+/-	0.27	
2/12/2003	11.85+/-	0.26		4/1/2003	14.05+/-	0.28	
2/13/2003	12.12+/-	0.26		4/2/2003	14.49+/-	0.28	
2/14/2003	1.22+/-	0.15		4/3/2003	14.66+/-	0.28	
2/15/2003	0.90+/-	0.15		4/4/2003	15.04+/-	0.29	
2/16/2003	2.55+/-	0.17		4/5/2003	15.47+/-	0.29	
2/17/2003	4.81+/-	0.20		4/6/2003	10.98+/-	0.25	

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Date	Activity (pCi/ml)	Error	Comments	Date	Activity (pCi/ml)	Error	Comments
4/7/2003	7.17+/-	0.22		5/25/2003	14.07+/-	0.28	
4/8/2003	6.51+/-	0.21		5/26/2003	13.78+/-	0.28	
4/9/2003	5.55+/-	0.20		5/27/2003	14.28+/-	0.29	
4/10/2003	7.81+/-	0.22		5/28/2003	13.94+/-	0.28	
4/11/2003	7.27+/-	0.22		5/29/2003	18.97+/-	0.32	
4/12/2003	10.72+/-	0.25		5/30/2003	20.71+/-	0.33	
4/13/2003	11.57+/-	0.26		5/31/2003	19.19+/-	0.32	
4/14/2003	13.27+/-	0.27		6/1/2003			Insufficient flow
4/15/2003	14.22+/-	0.28		6/2/2003	13.67+/-	0.28	
4/16/2003	14.89+/-	0.28		6/3/2003	8.55+/-	0.24	
4/17/2003	13.06+/-	0.27		6/4/2003	17.62+/-	0.31	
4/18/2003	15.22+/-	0.29		6/5/2003	17.56+/-	0.29	
4/19/2003	16.43+/-	0.30		6/6/2003	12.28+/-	0.25	
4/20/2003	16.35+/-	0.29		6/7/2003	11.29+/-	0.25	
4/21/2003	15.74+/-	0.29		6/8/2003	13.29+/-	0.26	
4/22/2003	15.42+/-	0.29		6/9/2003	14.69+/-	0.27	
4/23/2003	16.45+/-	0.30		6/10/2003	14.84+/-	0.27	
4/24/2003	15.89+/-	0.30		6/11/2003	16.21+/-	0.28	
4/25/2003	15.67+/-	0.29		6/12/2003	16.85+/-	0.29	
4/26/2003	19.02+/-	0.32		6/13/2003	18.19+/-	0.30	
4/27/2003	16.76+/-	0.30		6/14/2003	13.21+/-	0.26	
4/28/2003	9.74+/-	0.25		6/15/2003	8.01+/-	0.22	
4/29/2003	16.25+/-	0.30		6/16/2003	10.95+/-	0.24	
4/30/2003	17.82+/-	0.31		6/17/2003	10.11+/-	0.24	
5/1/2003	15.57+/-	0.29		6/18/2003	13.81+/-	0.27	
5/2/2003	18.84+/-	0.32		6/19/2003	14.37+/-	0.27	
5/3/2003	19.29+/-	0.32		6/20/2003	14.02+/-	0.27	
5/4/2003	1.15+/-	0.15		6/21/2003	13.98+/-	0.26	
5/5/2003	2.37+/-	0.17		6/22/2003	13.67+/-	0.26	
5/6/2003	10.33+/-	0.25		6/23/2003	13.62+/-	0.26	
5/7/2003	8.53+/-	0.24		6/24/2003			Insufficient flow
5/8/2003	12.40+/-	0.27		6/25/2003			Insufficient flow
5/9/2003	14.52+/-	0.28		6/26/2003			Insufficient flow
5/10/2003	9.05+/-	0.24		6/27/2003			Insufficient flow
5/11/2003	9.51+/-	0.24		6/28/2003			Insufficient flow
5/12/2003	12.08+/-	0.26		6/29/2003			Insufficient flow
5/13/2003	13.00+/-	0.27		6/30/2003			Insufficient flow
5/14/2003	10.30+/-	0.25		7/1/2003			Insufficient flow
5/15/2003	5.54+/-	0.20		7/2/2003			Insufficient flow
5/16/2003	11.49+/-	0.26		7/3/2003			Insufficient flow
5/17/2003	3.98+/-	0.19		7/4/2003			Insufficient flow
5/18/2003	5.57+/-	0.20		7/5/2003			Insufficient flow
5/19/2003	10.61+/-	0.25		7/6/2003			Insufficient flow
5/20/2003	3.95+/-	0.19		7/7/2003			Insufficient flow
5/21/2003	9.20+/-	0.24		7/8/2003	9.45+/-	0.23	
5/22/2003	12.67+/-	0.27		7/9/2003			Insufficient flow
5/23/2003	12.96+/-	0.27		7/10/2003	6.03+/-	0.20	
5/24/2003	13.18+/-	0.28		7/11/2003			Insufficient flow

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Date	Activity (pCi/ml)	Error	Comments	Date	Activity (pCi/ml)	Error	Comments
7/12/2003			Insufficient flow	8/28/2003			Insufficient flow
7/13/2003			Insufficient flow	8/29/2003	2.73 +/-	0.16	
7/14/2003			Insufficient flow	8/30/2003	3.18 +/-	0.16	
7/15/2003			Insufficient flow	8/31/2003	2.59 +/-	0.15	
7/16/2003			Insufficient flow	9/1/2003	2.36 +/-	0.15	
7/17/2003			Insufficient flow	9/2/2003	2.42 +/-	0.15	
7/18/2003			Insufficient flow	9/3/2003	4.34 +/-	0.18	
7/19/2003			Insufficient flow	9/4/2003	7.50 +/-	0.21	
7/20/2003			Insufficient flow	9/5/2003			Insufficient flow
7/21/2003			Insufficient flow	9/6/2003			Insufficient flow
7/22/2003	2.84 +/-	0.16		9/7/2003			Insufficient flow
7/23/2003	7.11 +/-	0.21		9/8/2003			Insufficient flow
7/24/2003			Insufficient flow	9/9/2003			Insufficient flow
7/25/2003			Insufficient flow	9/10/2003			Insufficient flow
7/26/2003			Insufficient flow	9/11/2003	9.23 +/-	0.23	
7/27/2003			Insufficient flow	9/12/2003	9.33 +/-	0.23	
7/28/2003	5.13 +/-	0.19		9/13/2003	9.24 +/-	0.23	
7/29/2003			Insufficient flow	9/14/2003	9.48 +/-	0.23	
7/30/2003			Insufficient flow	9/15/2003	9.81 +/-	0.23	
7/31/2003			Insufficient flow	9/16/2003			Insufficient flow
8/1/2003			Insufficient flow	9/17/2003			Insufficient flow
8/2/2003			Insufficient flow	9/18/2003			Insufficient flow
8/3/2003	4.58 +/-	0.19		9/19/2003	9.50 +/-	0.23	
8/4/2003	4.93 +/-	0.19		9/20/2003	9.31 +/-	0.23	
8/5/2003	9.31 +/-	0.23		9/21/2003	4.35 +/-	0.18	
8/6/2003	8.10 +/-	0.22		9/22/2003			Insufficient flow
8/7/2003	7.66 +/-	0.21		9/23/2003			Insufficient flow
8/8/2003	4.86 +/-	0.19		9/24/2003			Insufficient flow
8/9/2003	9.65 +/-	0.23		9/25/2003			Insufficient flow
8/10/2003	6.67 +/-	0.21		9/26/2003			Insufficient flow
8/11/2003	4.48 +/-	0.18		9/27/2003	5.45 +/-	0.19	
8/12/2003	7.91 +/-	0.22		9/28/2003	9.41 +/-	0.23	
8/13/2003			Insufficient flow	9/29/2003	10.45 +/-	0.24	
8/14/2003			Insufficient flow	9/30/2003	7.25 +/-	0.21	
8/15/2003			Insufficient flow	10/1/2003	8.18 +/-	0.22	
8/16/2003			Insufficient flow	10/2/2003	10.07 +/-	0.24	
8/17/2003			Insufficient flow	10/3/2003	9.52 +/-	0.23	
8/18/2003			Insufficient flow	10/4/2003	10.47 +/-	0.24	
8/19/2003			Insufficient flow	10/5/2003			Insufficient flow
8/20/2003			Insufficient flow	10/6/2003			Insufficient flow
8/21/2003			Insufficient flow	10/7/2003			Insufficient flow
8/22/2003			Insufficient flow	10/8/2003			Insufficient flow
8/23/2003			Insufficient flow	10/9/2003			Insufficient flow
8/24/2003			Insufficient flow	10/10/2003			Insufficient flow
8/25/2003			Insufficient flow	10/11/2003			Insufficient flow
8/26/2003			Insufficient flow	10/12/2003			Insufficient flow
8/27/2003			Insufficient flow	10/13/2003			Insufficient flow

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<b>Date</b>	<b>Activity (pCi/ml)</b>	<b>Error</b>	<b>Comments</b>	<b>Date</b>	<b>Activity (pCi/ml)</b>	<b>Error</b>	<b>Comments</b>
10/14/2003	7.31+/-	0.21		12/1/2003	7.63+/-	0.22	
10/15/2003	9.98+/-	0.23		12/2/2003	8.37+/-	0.22	
10/16/2003			Insufficient flow	12/3/2003	9.29+/-	0.23	
10/17/2003			Insufficient flow	12/4/2003	6.78+/-	0.21	
10/18/2003			Insufficient flow	12/5/2003	4.27+/-	0.18	
10/19/2003			Insufficient flow	12/6/2003	7.31+/-	0.21	
10/20/2003			Insufficient flow	12/7/2003	8.52+/-	0.22	
10/21/2003			Insufficient flow	12/8/2003	9.32+/-	0.23	
10/22/2003			Insufficient flow	12/9/2003	10.04+/-	0.24	
10/23/2003			Insufficient flow	12/10/2003	4.85+/-	0.19	
10/24/2003			Insufficient flow	12/11/2003	7.87+/-	0.22	
10/25/2003			Insufficient flow	12/12/2003	9.02+/-	0.23	
10/26/2003	3.80+/-	0.17		12/13/2003	7.52+/-	0.21	
10/27/2003	6.72+/-	0.20		12/14/2003	4.93+/-	0.19	
10/28/2003	11.27+/-	0.24		12/15/2003	6.38+/-	0.20	
10/29/2003	12.33+/-	0.25		12/16/2003	5.05+/-	0.19	
10/30/2003	14.06+/-	0.26		12/17/2003	5.47+/-	0.19	
10/31/2003			Insufficient flow	12/18/2003	6.72+/-	0.21	
11/1/2003			Insufficient flow	12/19/2003	7.92+/-	0.22	
11/2/2003			Insufficient flow	12/20/2003	8.68+/-	0.22	
11/3/2003			Insufficient flow	12/21/2003	9.32+/-	0.23	
11/4/2003			Insufficient flow	12/22/2003	5.28+/-	0.19	
11/5/2003	2.10+/-	0.15		12/23/2003	5.81+/-	0.20	
11/6/2003	7.36+/-	0.21		12/24/2003	6.30+/-	0.20	
11/7/2003	9.81+/-	0.23		12/25/2003	6.24+/-	0.20	
11/8/2003	11.23+/-	0.25		12/26/2003	8.33+/-	0.22	
11/9/2003	11.49+/-	0.25		12/27/2003	9.14+/-	0.23	
11/10/2003	11.78+/-	0.25		12/28/2003	10.57+/-	0.24	
11/11/2003	11.85+/-	0.25		12/29/2003	9.37+/-	0.23	
11/12/2003	2.14+/-	0.15		12/30/2003	5.56+/-	0.19	
11/13/2003	6.04+/-	0.20		12/31/2003	8.53+/-	0.22	
11/14/2003	7.99+/-	0.22					
11/15/2003	6.99+/-	0.21					
11/16/2003	9.14+/-	0.23					
11/17/2003	10.32+/-	0.24					
11/18/2003	5.09+/-	0.19					
11/19/2003	6.42+/-	0.20					
11/20/2003	5.45+/-	0.19					
11/21/2003	6.72+/-	0.20					
11/22/2003	7.61+/-	0.21					
11/23/2003	8.36+/-	0.22					
11/24/2003	6.44+/-	0.20					
11/25/2003	9.31+/-	0.23					
11/26/2003	10.11+/-	0.24					
11/27/2003	8.02+/-	0.22					
11/28/2003	2.38+/-	0.16					
11/29/2003	5.30+/-	0.19					
11/30/2003	6.25+/-	0.20					

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Date	Activity (pCi/ml)	Error	Comments	Date	Activity (pCi/ml)	Error	Comments
1/8/2003	0.00+/-	0.44	Monthly Grab	4/26/2003	0.08+/-	0.13	
2/4/2003	0.19+/-	0.14	Monthly Grab	4/27/2003	0.28+/-	0.14	
3/4/2003	0.31+/-	0.14	Monthly split sample	4/28/2003	0.25+/-	0.14	
3/12/2003	0.48+/-	0.14	First Day of Daily Sample	4/29/2003	0.44+/-	0.14	
3/13/2003	0.36+/-	0.14		4/30/2003	0.37+/-	0.14	
3/14/2003	0.11+/-	0.13		5/1/2003	0.11+/-	0.14	
3/15/2003	0.22+/-	0.13		5/2/2003	0.28+/-	0.14	
3/16/2003	0.36+/-	0.14		5/3/2003	0.23+/-	0.14	
3/17/2003	0.41+/-	0.14		5/4/2003	0.56+/-	0.15	
3/18/2003	0.41+/-	0.14		5/5/2003	0.18+/-	0.14	
3/19/2003	0.34+/-	0.14		5/6/2003	0.22+/-	0.14	
3/20/2003	0.21+/-	0.13		5/7/2003	0.06+/-	0.13	
3/21/2003	0.01+/-	0.13		5/8/2003	0.23+/-	0.14	
3/22/2003	0.03+/-	0.13		5/9/2003	0.16+/-	0.13	
3/23/2003	0.21+/-	0.13		5/10/2003	0.10+/-	0.13	
3/24/2003	0.14+/-	0.13		5/11/2003	0.02+/-	0.13	
3/25/2003	0.20+/-	0.13		5/12/2003	0.26+/-	0.14	
3/26/2003	0.13+/-	0.13		5/13/2003	0.25+/-	0.14	
3/27/2003	0.40+/-	0.14		5/14/2003	0.15+/-	0.14	
3/28/2003	0.46+/-	0.14		5/15/2003	0.01+/-	0.13	
3/29/2003	0.27+/-	0.14		5/16/2003	0.26+/-	0.14	
3/30/2003	0.03+/-	0.13		5/17/2003	0.21+/-	0.14	
3/31/2003	0.36+/-	0.14		5/18/2003	0.18+/-	0.14	
4/1/2003	0.31+/-	0.14		5/19/2003	0.05+/-	0.13	
4/2/2003	0.30+/-	0.14		5/20/2003	0.08+/-	0.14	
4/3/2003	0.05+/-	0.13		5/21/2003	0.15+/-	0.14	
4/4/2003	0.36+/-	0.14		5/22/2003	0.00+/-	0.14	
4/5/2003	0.16+/-	0.13		5/23/2003	0.11+/-	0.14	
4/6/2003	0.30+/-	0.14		5/24/2003	0.00+/-	0.14	
4/7/2003	0.26+/-	0.14		5/25/2003	0.18+/-	0.14	
4/8/2003	0.22+/-	0.14		5/26/2003	0.00+/-	0.14	
4/9/2003	0.09+/-	0.13		5/27/2003	0.28+/-	0.14	
4/10/2003	0.05+/-	0.13		5/28/2003	0.01+/-	0.14	
4/11/2003	0.24+/-	0.14		5/29/2003	0.05+/-	0.14	
4/12/2003	0.28+/-	0.14		5/30/2003	0.04+/-	0.14	
4/13/2003	0.07+/-	0.13		5/31/2003	0.10+/-	0.14	
4/14/2003	0.09+/-	0.13		6/1/2003	0.09+/-	0.14	
4/15/2003	0.32+/-	0.14		6/2/2003	0.48+/-	0.15	
4/16/2003	0.21+/-	0.14		6/3/2003	0.00+/-	0.14	
4/17/2003	0.40+/-	0.14		6/4/2003	0.10+/-	0.14	
4/18/2003	0.08+/-	0.13		6/5/2003	0.12+/-	0.14	
4/19/2003	0.22+/-	0.14		6/6/2003	0.18+/-	0.14	
4/20/2003	0.15+/-	0.13		6/7/2003	0.17+/-	0.14	
4/21/2003	0.16+/-	0.13		6/8/2003	0.16+/-	0.14	
4/22/2003	0.18+/-	0.13		6/9/2003	0.00+/-	0.13	
4/23/2003	0.31+/-	0.14		6/10/2003	0.19+/-	0.14	
4/24/2003	0.22+/-	0.14		6/11/2003	0.36+/-	0.14	
4/25/2003	0.29+/-	0.14		6/12/2003	0.14+/-	0.13	

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Date	Activity (pCi/ml)	Error	Comments	Date	Activity (pCi/ml)	Error	Comments
6/13/2003	0.21+/-	0.13		7/31/2003	0.08+/-	0.13	
6/14/2003	0.38+/-	0.13		8/1/2003	0.09+/-	0.13	
6/15/2003	0.00+/-	0.13		8/2/2003	0.38+/-	0.13	
6/16/2003	0.08+/-	0.13		8/3/2003	0.41+/-	0.13	
6/17/2003	0.08+/-	0.13		8/4/2003	0.02+/-	0.13	
6/18/2003	0.09+/-	0.13		8/5/2003	0.00+/-	0.13	
6/19/2003	0.13+/-	0.13		8/6/2003	0.25+/-	0.13	
6/20/2003	0.00+/-	0.12		8/7/2003	0.12+/-	0.13	
6/21/2003	0.12+/-	0.13		8/8/2003	0.10+/-	0.13	
6/22/2003	0.17+/-	0.13		8/9/2003	0.30+/-	0.13	
6/23/2003	0.14+/-	0.13		8/10/2003	0.23+/-	0.13	
6/24/2003	0.36+/-	0.13		8/11/2003	0.03+/-	0.13	
6/25/2003	0.48+/-	0.13		8/12/2003	0.01+/-	0.13	
6/26/2003	0.54+/-	0.13		8/13/2003	0.08+/-	0.12	
6/27/2003	0.22+/-	0.12		8/14/2003	0.20+/-	0.13	
6/28/2003	0.40+/-	0.13		8/15/2003	0.16+/-	0.12	
6/29/2003	0.44+/-	0.13		8/16/2003	0.18+/-	0.13	
6/30/2003	0.45+/-	0.13		8/17/2003	0.19+/-	0.13	
7/1/2003	0.49+/-	0.13		8/18/2003	0.49+/-	0.13	
7/2/2003	0.31+/-	0.13		8/19/2003	0.13+/-	0.12	
7/3/2003	0.05+/-	0.13		8/20/2003	0.07+/-	0.13	
7/4/2003	0.27+/-	0.13		8/21/2003	0.11+/-	0.13	
7/5/2003	0.32+/-	0.13		8/22/2003	0.00+/-	0.12	
7/6/2003	0.25+/-	0.13		8/23/2003	0.00+/-	0.13	
7/7/2003	0.16+/-	0.13		8/24/2003	0.18+/-	0.13	
7/8/2003	0.28+/-	0.13		8/25/2003	0.22+/-	0.13	
7/9/2003	0.30+/-	0.13		8/26/2003	0.07+/-	0.13	
7/10/2003	0.43+/-	0.13		8/27/2003	0.44+/-	0.12	
7/11/2003	0.28+/-	0.13		8/28/2003	0.29+/-	0.12	
7/12/2003	0.39+/-	0.13		8/29/2003	0.27+/-	0.12	
7/13/2003	0.34+/-	0.13		8/30/2003	0.27+/-	0.12	
7/14/2003	0.20+/-	0.12		8/31/2003	0.30+/-	0.12	
7/15/2003	0.37+/-	0.13		9/1/2003	0.32+/-	0.12	
7/16/2003	0.18+/-	0.13		9/2/2003	0.38+/-	0.12	
7/17/2003	0.24+/-	0.13		9/3/2003	0.00+/-	0.12	
7/18/2003	0.19+/-	0.13		9/4/2003	0.24+/-	0.13	
7/19/2003	0.24+/-	0.13		9/5/2003	0.27+/-	0.13	
7/20/2003	0.37+/-	0.13		9/6/2003	0.04+/-	0.12	
7/21/2003	0.24+/-	0.13		9/7/2003	0.38+/-	0.13	
7/22/2003	0.46+/-	0.13		9/8/2003	0.37+/-	0.13	
7/23/2003	0.21+/-	0.13		9/9/2003	0.16+/-	0.13	
7/24/2003	0.36+/-	0.13		9/10/2003	0.07+/-	0.12	
7/25/2003	0.53+/-	0.13		9/11/2003	0.33+/-	0.13	
7/26/2003	0.45+/-	0.13		9/12/2003	0.31+/-	0.13	
7/27/2003	0.41+/-	0.13		9/13/2003	0.30+/-	0.13	
7/28/2003	0.32+/-	0.13		9/14/2003	0.02+/-	0.12	
7/29/2003	0.37+/-	0.13		9/15/2003	0.28+/-	0.13	
7/30/2003	0.30+/-	0.13		9/16/2003			No Sample - Battery Low



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Date	Activity (pCi/ml)	Error	Comments	Date	Activity (pCi/ml)	Error	Comments
9/17/2003	0.24+/-	0.13		11/3/2003	0.33+/-	0.12	
9/18/2003	0.20+/-	0.13		11/4/2003	0.55+/-	0.13	
9/19/2003	0.11+/-	0.13		11/5/2003	0.00+/-	0.12	
9/20/2003	0.27+/-	0.13		11/6/2003	0.41+/-	0.13	
9/21/2003	0.10+/-	0.12		11/7/2003	0.39+/-	0.13	
9/22/2003	0.16+/-	0.13		11/8/2003	0.13+/-	0.12	
9/23/2003	0.12+/-	0.13		11/9/2003	0.42+/-	0.13	
9/24/2003	0.21+/-	0.12		11/10/2003	0.18+/-	0.12	
9/25/2003	0.47+/-	0.13		11/11/2003	0.47+/-	0.13	
9/26/2003	0.13+/-	0.12		11/12/2003	0.10+/-	0.13	
9/27/2003	0.34+/-	0.13		11/13/2003	0.01+/-	0.12	
9/28/2003	0.10+/-	0.12		11/14/2003	0.05+/-	0.12	
9/29/2003	0.28+/-	0.13		11/15/2003	0.21+/-	0.13	
9/30/2003	0.35+/-	0.13		11/16/2003	0.20+/-	0.13	
10/1/2003	0.02+/-	0.12		11/17/2003	0.18+/-	0.13	
10/2/2003	0.12+/-	0.13		11/18/2003	0.18+/-	0.13	
10/3/2003	0.25+/-	0.13		11/19/2003	0.00+/-	0.12	
10/4/2003	0.27+/-	0.13		11/20/2003	0.37+/-	0.13	
10/5/2003	0.32+/-	0.13		11/21/2003	0.52+/-	0.13	
10/6/2003	0.44+/-	0.13		11/22/2003	0.24+/-	0.12	
10/7/2003	0.35+/-	0.13		11/23/2003	0.19+/-	0.12	
10/8/2003	0.48+/-	0.13		11/24/2003	0.15+/-	0.12	
10/9/2003	0.13+/-	0.13		11/25/2003	0.03+/-	0.12	
10/10/2003	0.25+/-	0.13		11/26/2003	0.08+/-	0.13	
10/11/2003	0.19+/-	0.13		11/27/2003	0.38+/-	0.13	
10/12/2003	0.32+/-	0.13		11/28/2003	0.00+/-	0.12	
10/13/2003	0.23+/-	0.13		11/29/2003	0.01+/-	0.13	
10/14/2003	0.55+/-	0.13		11/30/2003	0.17+/-	0.13	
10/15/2003	0.30+/-	0.12		12/1/2003	0.00+/-	0.12	
10/16/2003	0.24+/-	0.12		12/2/2003	0.11+/-	0.13	
10/17/2003	0.32+/-	0.13		12/3/2003	0.10+/-	0.13	
10/18/2003	0.21+/-	0.12		12/4/2003	0.00+/-	0.12	
10/19/2003	0.42+/-	0.13		12/5/2003	0.00+/-	0.12	
10/20/2003	0.33+/-	0.13		12/6/2003	0.00+/-	0.12	
10/21/2003	0.32+/-	0.13		12/7/2003	0.00+/-	0.13	
10/22/2003	0.29+/-	0.12		12/8/2003	0.00+/-	0.13	
10/23/2003	0.23+/-	0.12		12/9/2003	0.27+/-	0.13	
10/24/2003	0.52+/-	0.13		12/10/2003	0.37+/-	0.13	
10/25/2003	0.46+/-	0.13		12/11/2003	0.27+/-	0.13	
10/26/2003	0.05+/-	0.12		12/12/2003	0.45+/-	0.13	
10/27/2003	0.15+/-	0.12		12/13/2003	0.21+/-	0.13	
10/28/2003	0.19+/-	0.12		12/14/2003	0.29+/-	0.13	
10/29/2003	0.43+/-	0.13		12/15/2003	0.46+/-	0.13	
10/30/2003	0.17+/-	0.12		12/16/2003	0.33+/-	0.13	
10/31/2003	0.49+/-	0.13		12/17/2003	0.05+/-	0.13	
11/1/2003	0.39+/-	0.13		12/18/2003	0.42+/-	0.13	
11/2/2003	0.36+/-	0.12		12/19/2003	0.00+/-	0.12	

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**Location 143**

<b>Date</b>	<b>Activity (pCi/ml)</b>	<b>Error</b>	<b>Comments</b>
12/20/2003	0.00+/-	0.13	
12/21/2003	0.12+/-	0.13	
12/22/2003	0.00+/-	0.13	
12/23/2003	0.00+/-	0.13	
12/24/2003	0.37+/-	0.13	
12/25/2003	0.04+/-	0.13	
12/26/2003	0.01+/-	0.12	
12/27/2003	0.41+/-	0.13	
12/28/2003	0.10+/-	0.13	
12/29/2003	0.32+/-	0.13	
12/30/2003	0.08+/-	0.13	
12/31/2003	0.01+/-	0.13	

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**Location 144**

<b>Date</b>	<b>Activity (pCi/ml)</b>	<b>Error</b>	<b>Comments</b>
1/8/2003	77.30+/-	0.59	Monthly Grab
2/4/2003	10.78+/-	0.25	Monthly Grab
3/4/2003	110.39+/-	0.70	Monthly Grab
3/24/2003	127.60+/-	0.75	Monthly Grab - No flow
4/14/2003	135.22+/-	0.77	Monthly Grab
5/13/2003	89.22+/-	0.63	Monthly Grab
6/23/2003	94.23+/-	0.62	Monthly Grab
7/16/2003	19.47+/-	0.30	Monthly Grab
8/20/2003	45.52+/-	0.44	Monthly Grab
9/8/2003	50.83+/-	0.47	Monthly Grab
10/1/2003	1.10+/-	0.14	Monthly Grab
10/28/2003	8.82+/-	0.22	Monthly Grab
11/25/2003	53.22+/-	0.48	Monthly Grab
12/24/2003			Split sample not collected

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**East Detention Basin (EDB)**

Date	Activity (pCi/ml)	Error	Comments
1/8/2003	0.00+/-	0.44	Composite 12/30/02-1/8/03
1/15/2003	0.28+/-	0.14	Composite 1/8-15/03
1/22/2003	0.11+/-	0.13	Composite 1/15-22/03
1/29/2003	0.62+/-	0.14	Composite 1/22-29/03
2/3/2003	0.33+/-	0.14	Final Weekly Composite
4/14/2003	0.27+/-	0.13	
5/5/2003	0.00+/-	0.14	
5/5/2003	0.00+/-	0.14	
5/7/2003	0.00+/-	0.14	
7/22/2003	0.10+/-	0.13	
7/23/2003	0.18+/-	0.13	
7/28/2003	0.03+/-	0.13	
8/3/2003	0.00+/-	0.13	
8/22/2003	0.27+/-	0.13	
8/29/2003	0.06+/-	0.10	
9/1/2003	0.00+/-	0.12	
10/26/2003	0.00+/-	0.12	
11/5/2003	0.08+/-	0.12	
11/12/2003	0.08+/-	0.13	0745
11/12/2003	0.30+/-	0.13	0900
11/18/2003	0.19+/-	0.13	

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**APPENDIX C**  
**DOSE ASSESSMENT**  
**2003**

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**Location 122A**

**MONTHLY DOSE CALCULATIONS**

<b>Date</b>	<b>Avg Act</b> (pCi/ml)	<b>Dose</b> (mrem)
Jan-03	0.105	4.84E-03
Feb-03	0.060	2.76E-03
Mar-03	0.066	3.03E-03
Apr-03	0.019	8.58E-04
May-03	0.026	1.19E-03
Jun-03	0.020	9.04E-04
Jul-03	0.026	1.19E-03
Aug-03	0.170	7.80E-03
Sep-03	0.092	4.23E-03
Oct-03	0.070	3.22E-03
Nov-03	0.030	1.36E-03
Dec-03	0.000	3.62E-03
<b>Annual Averages</b>	<b>0.057</b>	<b>2.92E-03</b>

**Location 106**

**MONTHLY DOSE CALCULATIONS**

<b>Date</b>	<b>Avg Act</b> (pCi/ml)	<b>Dose</b> (mrem)
Jan-03	0.618	2.20E-01
Feb-03	0.534	2.16E-01
Mar-03	0.716	3.05E-01
Apr-03	0.728	3.32E-01
May-03	0.554	2.28E-01
Jun-03	0.496	2.15E-01
Jul-03	0.403	1.58E-01
Aug-03	0.372	1.18E-01
Sep-03	0.333	1.49E-01
Oct-03	3.069	1.41E-01
Nov-03	3.486	1.60E-01
Dec-03	5.205	2.22E-01
<b>Annual Averages</b>	<b>1.376</b>	<b>2.05E-01</b>

**Location 122C**

**MONTHLY DOSE CALCULATIONS**

<b>Date</b>	<b>Avg Act</b> (pCi/ml)	<b>Dose</b> (mrem)
Jan-03	1.332	6.12E-02
Feb-03	1.076	4.95E-02
Mar-03	1.362	6.26E-02
Apr-03	1.542	7.09E-02
May-03	1.058	4.87E-02
Jun-03	0.870	4.00E-02
Jul-03	1.050	4.83E-02
Aug-03	0.570	2.62E-02
Sep-03	0.618	2.84E-02
Oct-03	0.687	3.16E-02
Nov-03	0.667	3.07E-02
Dec-03	0.830	4.81E-02
<b>Annual Averages</b>	<b>0.972</b>	<b>4.55E-02</b>

**Location 102D**

**MONTHLY DOSE CALCULATIONS**

<b>Date</b>	<b>Avg Act</b> (pCi/ml)	<b>Dose</b> (mrem)
Jan-03	0.892	4.10E-02
Feb-03	0.774	3.56E-02
Mar-03	0.977	4.49E-02
Apr-03	1.099	5.05E-02
May-03	0.700	3.22E-02
Jun-03	0.520	2.39E-02
Jul-03	0.495	2.27E-02
Aug-03	0.407	1.87E-02
Sep-03	0.432	1.99E-02
Oct-03	0.458	2.11E-02
Nov-03	0.482	2.22E-02
Dec-03	0.660	3.76E-02
<b>Annual Averages</b>	<b>0.658</b>	<b>3.09E-02</b>

**Location 103E**

**MONTHLY DOSE CALCULATIONS**

<b>Date</b>	<b>Avg Act</b> (pCi/ml)	<b>Dose (mrem)</b> (mrem)
Jan-03	0.618	2.84E-02
Feb-03	0.534	2.46E-02
Mar-03	0.716	3.29E-02
Apr-03	0.728	3.35E-02
May-03	0.554	2.55E-02
Jun-03	0.496	2.28E-02
Jul-03	0.403	1.85E-02
Aug-03	0.372	1.71E-02
Sep-03	0.333	1.53E-02
Oct-03	0.428	1.97E-02
Nov-03	0.487	2.24E-02
Dec-03	0.505	3.27E-02
<b>Annual Averages</b>	<b>0.515</b>	<b>2.45E-02</b>

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**C107**

MONTHLY DOSE CALCULATIONS

Date	Avg Act (pCi/ml)	Dose (mrem)
Feb-03	7.829	3.60E-01
Mar-03	11.394	5.24E-01
Apr-03	13.450	6.19E-01
May-03	11.646	5.36E-01
Jun-03	13.672	6.29E-01
Jul-03	6.112	2.81E-01
Aug-03	5.896	2.71E-01
Sep-03	7.464	3.43E-01
Oct-03	9.428	4.34E-01
Nov-03	7.527	3.46E-01
Dec-03	7.432	3.42E-01
<b>Annual Averages</b>	<b>9.259</b>	<b>4.26E-01</b>

**143**

MONTHLY DOSE CALCULATIONS

Date	Avg Act (pCi/ml)	Dose (mrem)
Feb-03	0.227	1.04E-02
Mar-03	0.126	5.80E-03
Apr-03	0.233	1.07E-02
May-03	0.285	1.31E-02
Jun-03	0.188	8.66E-03
Jul-03	0.225	1.04E-02
Aug-03	0.293	1.35E-02
Sep-03	0.276	1.27E-02
Oct-03	0.181	8.32E-03
Nov-03	0.169	7.76E-03
Dec-03	0.150	6.69E-03
<b>Annual Averages</b>	<b>0.214</b>	<b>9.82E-03</b>

**144**

MONTHLY DOSE CALCULATIONS

Date	Avg Act (pCi/ml)	Dose (mrem)
Feb-03	10.780	4.96E-01
Mar-03	118.995	5.47E+00
Apr-03	135.220	6.22E+00
May-03	89.220	4.10E+00
Jun-03	94.230	4.33E+00
Jul-03	19.470	8.95E-01
Aug-03	45.520	2.09E+00
Sep-03	50.830	2.34E+00
Oct-03	4.960	2.28E-01
Nov-03	53.220	2.45E+00
Dec-03		0.00E+00
<b>Annual Averages</b>	<b>62.245</b>	<b>2.60E+00</b>

**EDB**

MONTHLY DOSE CALCULATIONS

Date	Avg Act (pCi/ml)	Dose (mrem)
Feb-03	0.330	1.52E-02
Mar-03	0.270	
Apr-03		1.24E-02
May-03	0.000	0.00E+00
Jun-03		
Jul-03	0.103	4.75E-03
Aug-03	0.110	5.06E-03
Sep-03	0.000	0.00E+00
Oct-03	0.000	0.00E+00
Nov-03	0.163	7.47E-03
Dec-03		
<b>Annual Averages</b>	<b>0.122</b>	<b>5.61E-03</b>

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**APPENDIX D**

**GOUNDWATER MONITORING  
DATA CHARTS AND SUMMARY 2003  
(ALLUVIAL AND USGS MONITORING WELLS)**

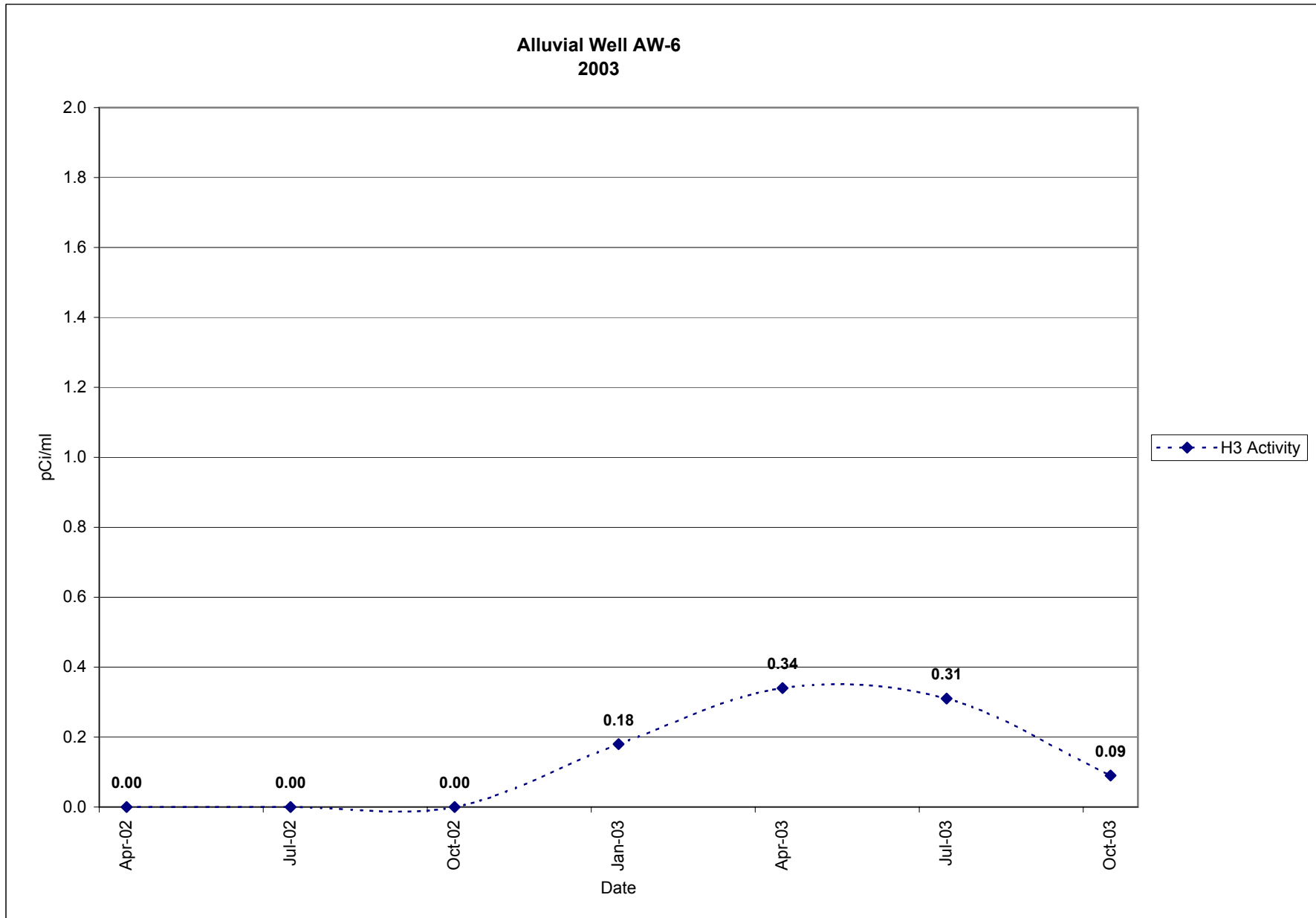


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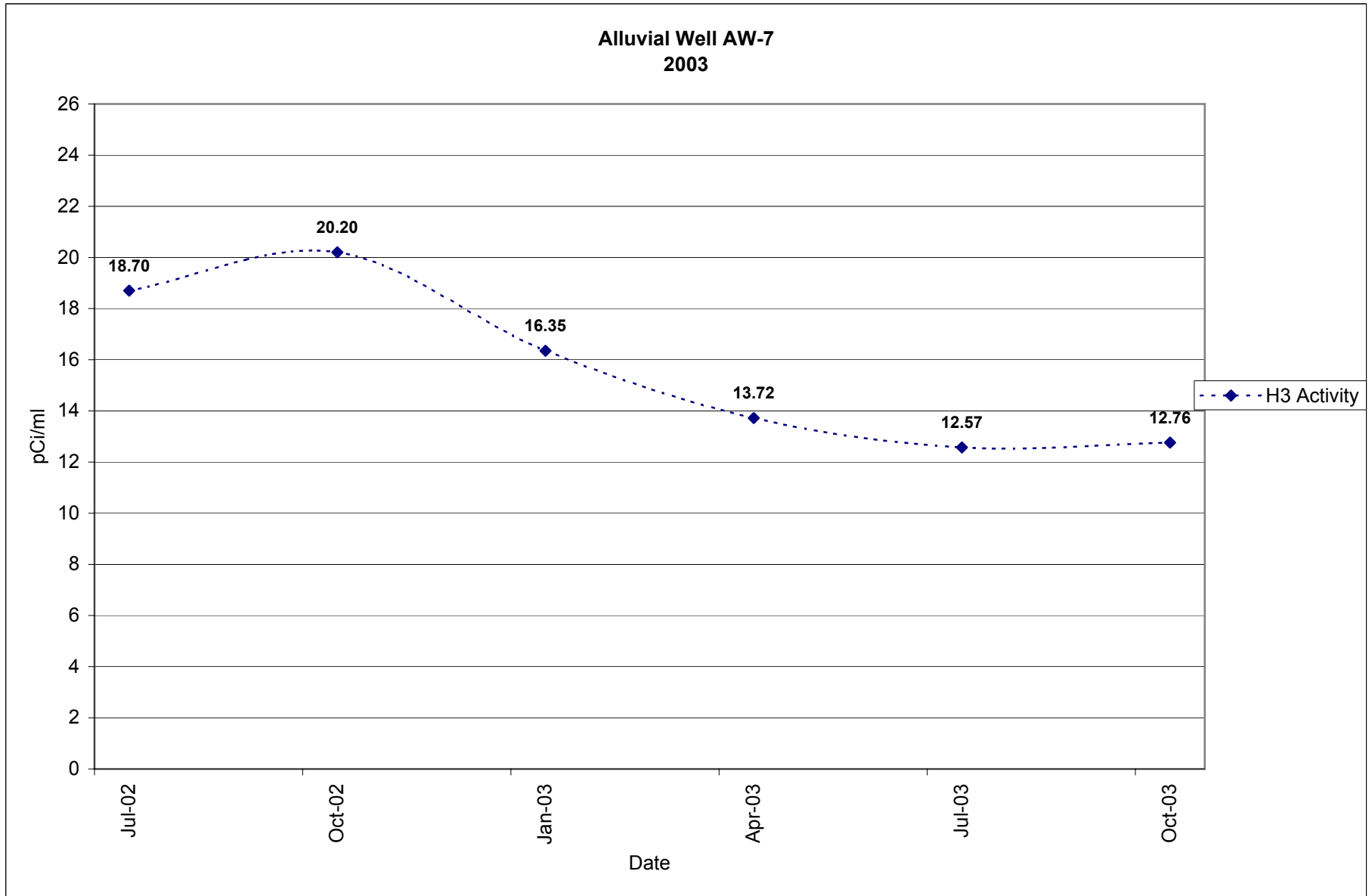
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**ALLUVIAL WELLS  
DATA CHARTS  
2003**

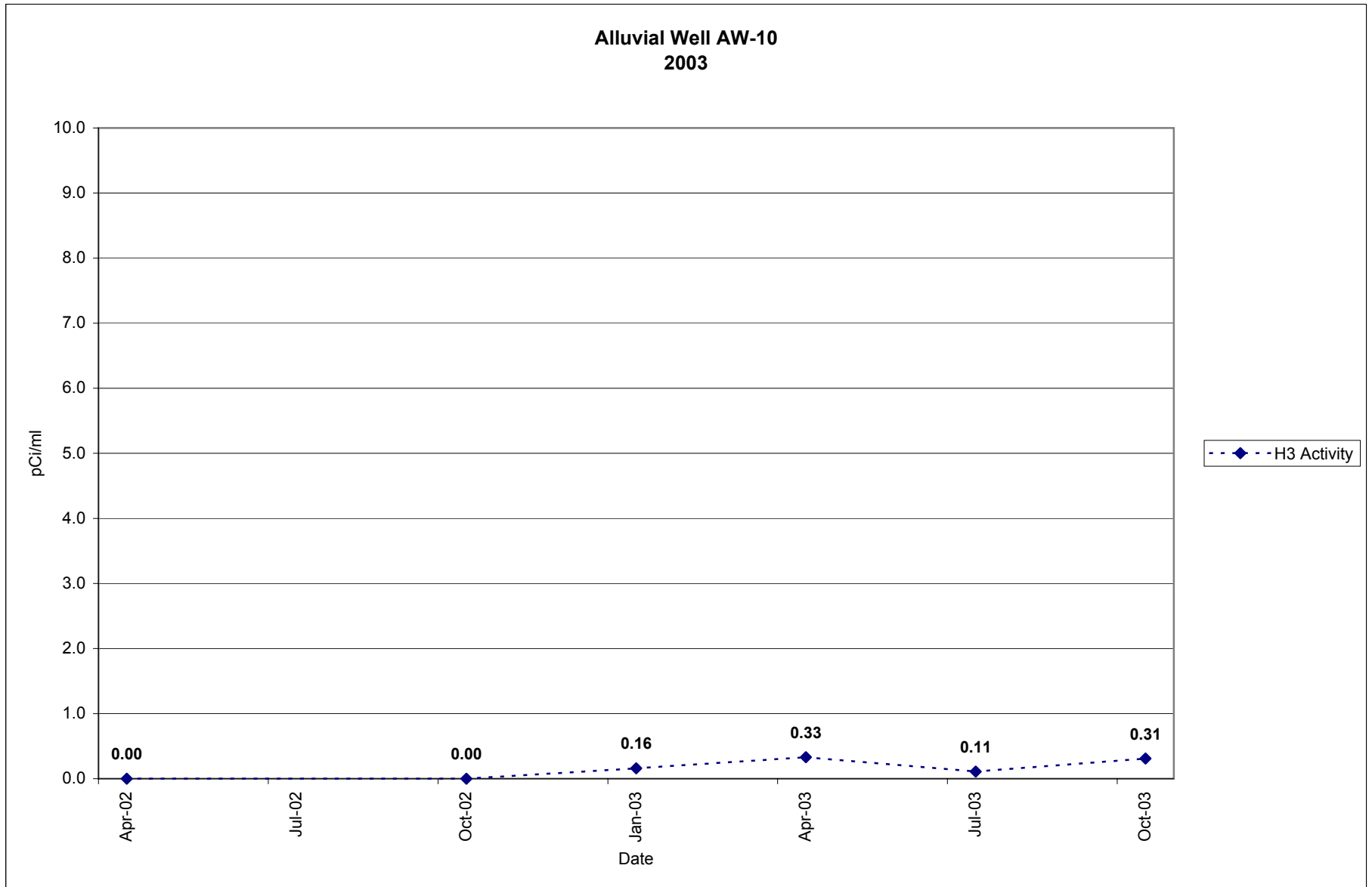
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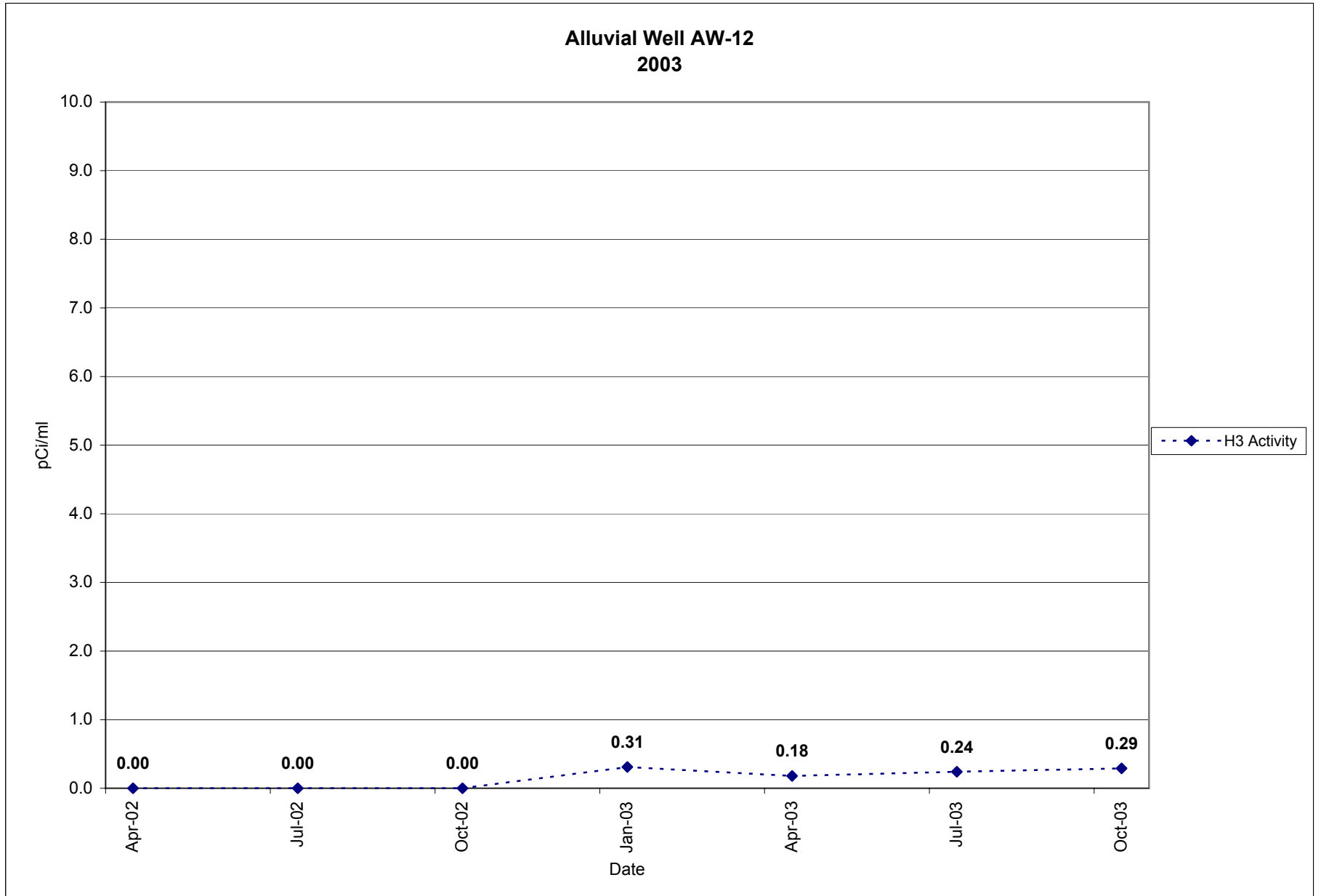
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**APPENDIX D2**

**ALLUVIAL WELLS  
DATA SUMMARY  
2003**

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<b>WELL ID:</b>		<b>AW-1</b>
<b>Installation Information</b>		
Depth of well	-	25.5 ft
Elevation of Bottom	-	739.28
Top of Casing Elevation	-	764.78
Ground Surface Elevation	-	762.26
TOC above LSD	-	2.52 ft

SC - Specific Conductivity

Temp - Temperature

DO - Dissolved Oxygen

TU - Turbidity

DATE	Laboratory Log #	TIME	TOC to Bottom	Liquid (ft) pre-meas	Liquid (ft) post-meas	Water Level (ft)	MEASUREMENTS OBTAINED					Collected By	Sample	Pumping Rate	Comments	LABORTORY
							SC	pH	Temp (C)	DO	TU					Activity (pCi/ml)
24-Apr-02		11:20 AM	25.50	6.82		18.68	259		13			USGS	Yes	1 quart per minute	Annulus between protective casing and well needs filling (3.8 ft). Well top of casing is 2.55 ft above ground surface.	
24-Apr-02	1157	12:10 PM	25.50		8.15	17.35	269	6.4	13.1						Collected sampled and discontinued pumping.	9.74 +/- 0.24
23-Apr-03		10:13 AM	25.50	7.69		17.81	244	5.62	11.3	5.77	212	USGS	yes	Pumped 4.5 gallons total	Red color	
23-Apr-03	1291	10:34 AM	25.50		9.08	16.42	257	6.49	11.7	0.39	10.5				Clear sample	13.65 +/- 0.28

**Note: No graph for this well since there were only two data points.**

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<b>WELL ID:</b>	<b>AW-3</b>	
<b>Installation Information</b>		
Depth of well	-	20.10 ft
Elevation of Bottom	-	711.32
Top of Casing Elevation	-	731.42
Ground Surface Elevation	-	729.00
TOC above LSD	-	2.42 ft

SC - Specific Conductivity

Temp - Temperature

DO - Dissolved Oxygen

TU - Turbidity

DATE	Laboratory Log #	TIME	TOC to Bottom	Liquid (ft) pre-meas	Liquid (ft) post-meas	Water Level (ft)	MEASUREMENTS OBTAINED					Collected By	Sample	Pumping Rate	Comments	LABORTORY
							SC	pH	Temp (C)	DO	TU					Activity (pCi/ml)
24-Apr-02		1:40 PM	20.10	7.30		12.80	672		11.6			USGS	Yes	1 quart @ 80 seconds	Water cloudy; no color	
24-Apr-02	1158	2:07 PM	20.10		17.75	2.35	677	6.8	12.1						Stop pumping. Recover rate is 0.1 ft @1'55"	1.34 +/- 0.42
23-Apr-03		10:59 AM	20.10	8.04		12.06	179	5.87	10.15	3.61	3.4					
23-Apr-03	1292	11:24 AM	20.10		17.62	2.48	200	5.74	10.3	2.7	17.9	USGS	Yes	1-60 ml purged	Clear start; slowed pump rate	0.51 +/- 0.14

**Note: No graph for this well since there were only two data points.**



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<b>WELL ID:</b>	<b>AW-4</b>	
<b>Installation Information</b>		
Depth of well	-	16.0 ft
Elevation of Bottom	-	696.64
Top of Casing Elevation	-	712.64
Ground Surface Elevation	-	709.79
TOC above LSD	-	2.85 ft

SC - Specific Conductivity

Temp - Temperature

DO - Dissolved Oxygen

TU - Turbidity

DATE	Laboratory Log #	TIME	TOC to Bottom	Liquid (ft) pre-meas	Liquid (ft) post-meas	Water Level (ft)	MEASUREMENTS OBTAINED					Collected By	Sample	Pumping Rate	Comments	LABORTORY
							SC	pH	Temp (C)	DO	TU					Activity (pCi/ml)
24-Apr-02		2:20 PM	16.00	6.42		9.58	191		12			USGS	Yes	1 quart @ 80 seconds	Water cloudy, no color	
24-Apr-02	1159	2:44 PM	16.00		14.91	1.09	190	5.2	12.1						Recover Rate - 0.1 ft @ 5 minutes	0.49 +/- 0.42
23-Apr-03			16.00	6.52			186	4.74	11.6	3.01	1.1					
23-Apr-03	1293		16.00		14.89	1.11	186	4.58	11.4	1.33	112	USGS	Yes	Slow pump rate	2.75 total gallons	0.49 +/- 0.14

**Note: No graph for this well since there were only two data points.**

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<b>WELL ID:</b>	<b>AW-5</b>	
<b>Installation Information</b>		
Depth of well	-	13.00 ft
Elevation of Bottom	-	692.63
Top of Casing Elevation	-	705.63
Ground Surface Elevation	-	703.14
TOC above LSD	-	2.49 ft

SC - Specific Conductivity  
Temp - Temperature  
DO - Dissolved Oxygen  
TU - Turbidity

DATE	Laboratory Log #	TIME	TOC to Bottom	Liquid (ft) pre-meas	Liquid (ft) post-meas	Water Level (ft)	MEASUREMENTS OBTAINED					Collected By	Sample	Pumping Rate	Comments	LABORTORY Activity (pCi/ml)
							SC	pH	Temp (C)	DO	TU					
24-Apr-02		3:00 PM	13.00	3.90		9.1	191		12			USGS	Yes	1 quart @ 80 seconds	Water cloudy -no color	
24-Apr-02	1160	3:23 PM	13.00		11.45	1.6	190	6.8	12.1						Recovery rate - 0.1 @ eight seconds.	0.0 +/- 0.42
23-Apr-03		1:56 PM	13.00	4.70		8.30	1452	6.61	10.4	1.82	427					
23-Apr-03	1294	2:20 PM	13.00		11.20	1.80	742	6.71	10.3	0.98	15.1	USGS	Yes		Cloudy to clear	0.31 +/- 0.14

**Note: No graph for this well since there were only two data points.**

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<b>WELL ID:</b>		<b>AW-6</b>
<b>Installation Information</b>		
Depth of well	-	19.00 ft
Elevation of Bottom	-	663.70
Top of Casing Elevation	-	682.70
Ground Surface Elevation	-	680.28
TOC above LSD	-	-19.00 ft
N38°15.286' W083° 34.830'		

SC - Specific Conductivity

Temp - Temperature

DO - Dissolved Oxygen

TU - Turbidity

							MEASUREMENTS OBTAINED								LABORTORY	
DATE	Laboratory Log #	TIME	TOC to Bottom	Liquid (ft) pre-meas	Liquid (ft) post-meas	Water Level (ft)	SC	pH	Temp (C)	DO	TU	Collected By	Sample	Pumping Rate	Comments	Activity (pCi/ml)
24-Apr-02		11:20 AM	19.00	5.11		13.89	411		13.6			USGS	Yes	1 quart @ 80 seconds	Iron precipitating in well	
24-Apr-02	1161	12:10 PM	19.00		7.02	11.98	378	5.8	12.7						Recovery rate 0.10 ft @ 40 seconds.	0.0 +/- 0.42
24-Jul-02		10:57 AM	19.00	9.18		9.82						USGS	Yes	1- 60 ml	Rusty color, cleared up after 5 minutes of pumping.	
24-Jul-02	2006	11:20 AM	19.00		8.20	10.80	348	5.77	14.4	0.37	6.6				Clear	0.0 +/- 0.44
31-Oct-02	2708	10:24 AM	19.00	5.39		13.61						USGS	yes	1-60 ml		
31-Oct-02		10:46 AM	19.00		7.10	11.90	350	6.01	15.8	0.5	0					0 +/- 0.46
23-Jan-03		11:25 AM	19.00	5.82		13.18	364	5.71	12.41	3.59	83.2	USGS	Yes		Rust to slight rust color to clear.	
23-Jan-03	302	11:50 AM	19.00		8.16	10.84	344	5.88	12.6	0.39	0			1-60 ml		0.18 +/- 0.14
23-Apr-03		2:38 PM	19.00	5.16		13.84	374	5.94	11.9	1.37	343					
23-Apr-03	1295	3:00 PM	19.00		7.55	11.45	344	5.74	11.5	0.3	0	USGS	Yes		Red color	0.3 +/- 0.14
24-Jul-03		12:55 PM	19.00	5.83		13.17	419	6.09	13.9	1.64	7.4				Clear	
24-Jul-03	2198	1:15 PM	19.00		8.09	10.91	348	5.99	13.9	0.25	0	USGS	Yes		Pumped 4.0 gal	0.31 +/- 0.13
23-Oct-03		2:43 PM	19.00	5.66		13.34	440	6.36	15.25	3.58	2.8			1 qt/min	5-gal total	
23-Oct-03	3027	3:01 PM	19.00		7.99	11.01	348	5.88	15.46	0.3	0	USGS	Yes			0.09 +/- 0.12

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<b>WELL ID:</b>	<b>AW-7</b>
<b>Installation Information</b>	
Depth of well	- 20.00 ft
Elevation of Bottom	- 698.01
Top of Casing Elevation	- 718.01
Ground Surface Elevation	- 715.61
TOC above LSD	- 2.40 ft

N38°15' 13.0" W083° 33' 54.4"

SC - Specific Conductivity

Temp - Temperature

DO - Dissolved Oxygen

TU - Turbidity

DATE	Laboratory Log #	TIME	TOC to Bottom	Liquid (ft) pre-meas	Liquid (ft) post-meas	Water Level (ft)	MEASUREMENTS OBTAINED					Collected By	Sample	Pumping Rate	Comments	LABORTORY
							SC	pH	Temp (C)	DO	TU					Activity (pCi/ml)
25-Apr-02		2:53 PM	20.00	5.00		15.00	105		13.5			USGS	Yes	1 quart @ 80 seconds		
25-Apr-02	1205	3:24 PM	20.00		5.65	14.35	123	5.6	13.1						Collected sample	21.1 +/- 0.32
24-Jul-02		2:28 PM	20.00	7.40		12.60						USGS	Yes	1 - 60 ml	Hevy sediment	
24-Jul-02	2007	2:47 PM	20.00		8.25	11.75	135	5.66	14	0.38	23.1				Cleared up after a few minutes of	18.7 +/- 0.31
31-Oct-02	2711	12:17 PM	20.00	7.58		12.42						USGS	yes	1-60 ml		20.2 +/- 0.32
31-Oct-02		12:40 PM	20.00		7.64	12.36	127	5.77	15.2	0.23	0					
23-Jan-03		4:17 PM	20.00	7.30		12.70	103	5.45	13.3	3.76	0	USGS	Yes	1- 60 ml	Clear	16.35 +/- 0.29
23-Jan-03	303	4:45 PM	20.00		8.12	11.88	146	5.91	14	0.76	0					
24-Apr-03		12:20 PM	20.00	6.66		13.34	118	5.6	12	1.31	0					
24-Apr-03	1302	12:40 PM	20.00		7.77	12.23	170	5.9	12.1	0.45	0	USGS	Yes	1-60 ml	Clear	13.72 +/- 0.28
24-Jul-03		2:46 PM	20.00	7.41		12.59	338	5.79	14.3	2.09	106				Cloudy	
24-Jul-03	2199	3:06 PM	20.00		8.46	11.54	171	6.03	13.5	0.37	0	USGS	Yes	1-60 ml	Pumped 4.0 gal	12.57 +/- 0.25
24-Oct-03		9:55 AM	20.00	7.44		12.56	158	6.08	14.33	0.8	0			1 qt/min	5-gal total	
24-Oct-03	3030	10:17 AM	20.00		8.40	11.60	170	5.97	14.45	0.26	0	USGS	Yes			12.76 +/- 0.26

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<b>WELL ID:</b>	<b>AW-8</b>	
<b>Installation Information</b>		
Depth of well	-	20.10 ft
Elevation of Bottom	-	681.20
Top of Casing Elevation	-	701.30
Ground Surface Elevation	-	698.56
TOC above LSD	-	2.74 ft

SC - Specific Conductivity  
Temp - Temperature  
DO - Dissolved Oxygen  
TU - Turbidity

DATE	Laboratory Log #	TIME	TOC to Bottom	Liquid (ft) pre-meas	Liquid (ft) post-meas	Water Level (ft)	MEASUREMENTS OBTAINED					Collected By	Sample	Pumping Rate	Comments	LABORTORY
							SC	pH	Temp (C)	DO	TU					Activity (pCi/ml)
25-Apr-02		11:57 AM	20.10	5.12		14.98	322		13.1			USGS	Yes	1 quart @ 80 seconds	Annulus between protective casing and well needs filling (2 ft). Well top of casing is 2.70 ft above ground surface. Water clear.	
25-Apr-02	1208	12:10 PM	20.10		5.64	14.46	325	5.5	12.9						Collected sampled and discontinued pumping. No recovery rate computed. Only 0.5 ft drawdown.	0.75 +/- 0.14
24-Apr-03		10:40 AM	20.10	6.46		13.64	321	4	11.6	2.49	70.9					
24-Apr-03	1303	10:54 AM	20.10		7.17	12.93	320	3.74	11.5	1.15	0	USGS	Yes	1-60 ml	cloudy to clear	0.22 +/- 0.14

**Note: No graph for this well since there were only two data points.**

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<b>WELL ID:</b>	<b>AW-9</b>	
<b>Installation Information</b>		
Depth of well	-	16.50 ft
Elevation of Bottom	-	703.95
Top of Casing Elevation	-	720.45
Ground Surface Elevation	-	718.17
TOC above LSD	-	2.28 ft

SC - Specific Conductivity  
Temp - Temperature  
DO - Dissolved Oxygen  
TU - Turbidity

DATE	Laboratory Log #	TIME	TOC to Bottom	Liquid (ft) pre-meas	Liquid (ft) post-meas	Water Level (ft)	MEASUREMENTS OBTAINED					Collected By	Sample	Pumping Rate	Comments	LABORTORY Activity (pCi/ml)
							SC	pH	Temp (C)	DO	TU					
25-Apr-02		9:28 AM	16.50	4.52		11.98	638		11.8			USGS	Yes	1 quart @ 80 seconds	Annulus between protective casing and well needs filling. Well top of casing is 2.30 ft above ground surface. Water clear at start then became cloudy.	
25-Apr-02	1212	9:55 AM	16.50		13.85	2.65	578	6.5	11.7						Collected sampled and discontinued pumping.	1.14 +/- 0.15
24-Apr-03		4:22 PM	16.50	5.09		11.41	543	6.15	11.7	2.02	12.1					
24-Apr-03	1296	4:42 PM	16.50		15.60	0.90	551	6.57	11.3	0.6	288	USGS	Yes	1-60 ml	Cloudy at start	0.95 +/- 0.15

**Note: No graph for this well since there are only two data points.**

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<b>WELL ID: AW-10</b>	
<b>Installation Information</b>	
Depth of well	- 18.50 ft
Elevation of Bottom	- <b>660.59</b>
Top of Casing Elevation	- 679.09
Ground Surface Elevation	- 676.49
TOC above LSD	- 2.60 ft

SC - Specific Conductivity  
Temp - Temperature  
DO - Dissolved Oxygen  
TU - Turbidity

							MEASUREMENTS OBTAINED									LABORTORY
DATE	Laboratory Log #	TIME	TOC to Bottom	Liquid (ft) pre-meas	Liquid (ft) post-meas	Water Level (ft)	SC	pH	Temp (C)	DO	TU	Collected By	Sample	Pumping Rate	Comments	Activity (pCi/ml)
25-Apr-02		10:42 AM	18.50	4.22		14.28	107		12.5			USGS	Yes	1 quart @ 80 seconds	Annulus between protective casing and well needs filling. Water has red color began clearing up approximately 15 minutes after pumping began.	
25-Apr-02	1210	11:09 AM	18.50		4.76	13.74	108	5.2	12.3					1 -60 ml	Collected sampled and discontinued pumping. No recovery rate computed, only 0.36 ft drawdown.	0.0 +/- 0.42
31-Oct-02	2710	11:40 AM	18.50	5.30		13.20						USGS	yes	1-60 ml	Rust color; pump rate 600 ml/min. Cleared up	0 +/- 0.46
31-Oct-02		12:00 PM	18.50		5.80	12.70	107	5.65	15.5	0.25	0					
23-Jan-03		3:30 PM	18.50	5.76		12.74	125	6	12.9	3.59	77.3	USGS	Yes	1 quart @ 60 seconds	Rust color to clear; Turb went out of range@ 15:39 but came back within range at 15:44	0.16 +/- 0.14
23-Jan-03	304	3:56 PM	18.50		6.41	12.09	115	5.58	12.8	0.58	0			1-60 ml		
24-Apr-03		10:00 AM	18.50	5.03		13.47	125	5.97	12	1.15	1000+					
24-Apr-03	1304	10:20 AM	18.50		5.77	12.73	118	5.84	11.9	0.37	0	USGS	Yes	1 - 60 ml	Cloudy, red color, clear at sampling	0.33 +/- 0.14
24-Jul-03		2:07 PM	18.50	6.03		12.47	99	6.08	14.9	1.18	34.3				Red color	
24-Jul-03	2200	2:27 PM	18.50		6.83	11.67	112	5.94	14.4	0.16	16.2	USGS	Yes	1 - 60 ml	Pumped 4.5 gal	0.11 +/- 0.13
24-Oct-03		9:15 AM	18.50	6.36		12.14	131	6.27	14.42	3.74	375			1 - 60 ml		
24-Oct-03	3029	9:41 AM	18.50		7.18	11.32	119	5.96	15.11	0.36	0	USGS	Yes	1 quart @ 60 seconds	Pumped 5-gal	0.31 +/- 0.12

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<b>WELL ID:</b>	<b>AW-12</b>
<b>Installation Information</b>	
Depth of well -	18.00 ft
Elevation of Bottom -	650.51
Top of Casing Elevation -	668.51
Ground Surface Elevation -	665.66
TOC above LSD -	2.85 ft

SC - Specific Conductivity  
Temp - Temperature  
DO - Dissolved Oxygen  
TU - Turbidity

							<b>MEASUREMENTS OBTAINED</b>								<b>LABORTORY</b>	
DATE	Laboratory Log #	TIME	TOC to Bottom	Liquid (ft) pre-meas	Liquid (ft) post-meas	Water Level (ft)	SC	pH	Temp (c)	DO	TU	Collected By	Sample	Pumping Rate	Comments	Activity (pCi/ml)
24-Apr-02		4:20 PM	18.00	6.43		11.57	458		14.1			USGS	Yes	1 quart @ 80 seconds	Water has light red color, began clearing up after a few minutes of pumping.	
24-Apr-02	1162	4:43 PM	18.00		8.65	9.35	453	6.2	12.5					1 - 60 ml	Collected sampled and discontinued pumping. Recovery rate 0.10 ft at 28 seconds	0.0 +/- 0.42
24-Jul-02		11:37 AM	18.00	7.92		10.08						USGS	Yes		Clear	
24-Jul-02	2008	11:59 AM	18.00		10.20	7.80	448	6.14	14.2	0.36	2.7			1 - 60 ml	Clear	0.0 +/- 0.44
31-Oct-02	2709	11:02 AM	18.00	5.63		12.37						USGS	yes	1-60 ml		0 +/- 0.46
31-Oct-02		11:23 AM	18.00		8.79	9.21	436	6.33	15.5	0.49	0					
23-Jan-03		2:50 PM	18.00	7.72		10.28	442	6.21	12.4	3.11	59.5	USGS	Yes	1 quart @ 60 seconds	Clear	0.31 +/- 0.14
23-Jan-03	305	3:10 PM	18.00		10.53	7.47	413	6.22	11.8	0.52	0			1 - 60 ml		
23-Apr-03		3:12 PM	18.00	6.91		11.09	444	5.98	11.2	3.31	4.9					
23-Apr-03	1297	3:30 PM	18.00		9.35	8.65	426	6.08	10.6	0.26	0	USGS	Yes	1 - 60 ml	Clear	0.2 +/- 0.14
24-Jul-03		1:30 PM	18.00	7.66			480	6.44	14	1.33	0				Clear	
24-Jul-03	2201	1:52 PM	18.00		10.41		433	6.37	13.4	0.21	0	USGS	Yes	1 - 60 ml	Pumped 4.5 gal	0.24 +/- 0.13
23-Oct-03		3:17 PM	18.00	7.42		10.58	465	6.36	15.19	1.82	0			1 quart @ 60 seconds	5-gal total	
23-Oct-03	3028	3:38 PM	18.00		10.20	7.80	435	6.21	15.11	0.23	0	USGS	Yes	1 - 60 ml		0.29 +/- 0.12



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<b>WELL ID:</b>	<b>AW-13</b>	
<b>Installation Information</b>		
Depth of well	-	21.63 ft
Elevation of Bottom	-	709.10
Top of Casing Elevation	-	730.73
Ground Surface Elevation	-	728.27
TOC above LSD	-	2.46 ft

SC - Specific Conductivity  
Temp - Temperature  
DO - Dissolved Oxygen  
TU - Turbidity

DATE	Laboratory Log #	TIME	TOC to Bottom	Liquid (ft) pre-meas	Liquid (ft) post-meas	Water Level (ft)	MEASUREMENTS OBTAINED					Collected By	Sample	Pumping Rate	Comments	LABORTORY
							SC	pH	Temp (C)	DO	TU					Activity (pCi/ml)
25-Apr-02		10:05 AM	21.63	0.74		20.89	260		12.5			USGS	Yes	Pumping rate was 0.10 ft at 80 seconds	Annulus between protective casing and well needs filling. Water level was approximately 2 feet above ground surface at initial measurement.	
25-Apr-02	1211	10:32 AM	21.63		16.40	5.23	255	4.9	12.9						Collected sampled and discontinued pumping. Water clear to cloudy. Recovery rate was 0.05 ft at 2 minutes.	0.69 +/- 0.14
23-Apr-03		3:49 PM	21.63	1.20		20.43	247	4.94	12.4	1.58	50					
23-Apr-03	1298	4:11 PM	21.63		18.00	3.63	247	4.73	12.4	1.45	41.2	USGS	Yes	1 - 60 ml	Clear	0.61 +/- 0.14

**Note: No graph for this well since there were only two data points.**

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<b>WELL ID:</b>	<b>AW-14</b>	
<b>Installation Information</b>		
Depth of well	-	20.00 ft
Elevation of Bottom	-	686.07
Top of Casing Elevation	-	706.07
Ground Surface Elevation	-	703.25
TOC above LSD	-	2.82 ft

SC - Specific Conductivity

Temp - Temperature

DO - Dissolved Oxygen

TU - Turbidity

DATE	Laboratory Log #	TIME	TOC to Bottom	Liquid (ft) pre-meas	Liquid (ft) post-meas	Water Level (ft)	MEASUREMENTS OBTAINED					Collected By	Sample	Pumping Rate	Comments	LABORTORY
							SC	pH	Temp (C)	DO	TU					Activity (pCi/ml)
25-Apr-02		1:23 PM	20.00	4.34		15.66	457		13.8			USGS	Yes	1 quart @ 80 seconds	Annulus between protective casing and well needs filling (2 ft). Wate cloudy, cleared up before sample taken.	
25-Apr-02	1207	1:47 PM	20.00		5.08	14.92	553	6.4	12.8						Collected sampled and discontinued pumping. No recovery rate computed, only 0.5 ft drawdown.	0.0 +/- 0.42
24-Apr-03		11:11 AM	20.00	4.75		15.25	626	6.41	11.4	1.18	168					
24-Apr-03	1305	11:28 AM	20.00		5.62	14.38	627	6.86	11.4	0.33	0	USGS	Yes	1 - 60 ml	Red color; clear up shortly after pumping	0 +/- 0.13

**Note: No graph for this well since there were only two data points.**

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Maxey Flats Disposal Site  
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<b>WELL ID:</b>		<b>AW-15</b>
<b>Installation Information</b>		
Depth of well	-	22.15 ft
Elevation of Bottom	-	713.35
Top of Casing Elevation	-	735.50
Ground Surface Elevation	-	733.15
TOC above LSD	-	2.35 ft

SC - Specific Conductivity

Temp - Temperature

DO - Dissolved Oxygen

TU - Turbidity

							<b>MEASUREMENTS OBTAINED</b>									<b>LABORTORY</b>
DATE	Laboratory Log #	TIME	TOC to Bottom	Liquid (ft) pre-meas	Liquid (ft) post-meas	Water Level (ft)	SC	pH	Temp (C)	DO	TU	Collected By	Sample	Pumping Rate	Comments	Activity (pCi/ml)
25-Apr-02		2:16 PM	22.15	4.70		17.45	345		13.4			USGS	Yes	1 quart @ 80 seconds	Annulus between protective casing and well needs filling. Water cloudy, cleared up as pumping.	
25-Apr-02	1206	2:40 PM	22.15		8.92	13.23	899	6.6	12					1 - 60 ml	Collected sampled and discontinued pumping. Recovery rate was 0.10 ft at 15 seconds.	0.58 +/- 0.14
24-Apr-03		11:48 AM	22.15	5.91		16.24	416	6.22	11.2	1.87	29					
24-Apr-03	1306	12:07 PM	22.15		10.96	11.19	909	6.56	11.3	0.42	0	USGS	Yes	1 - 60 ml	Clear	0.43 +/- 0.14

**Note: No graph for this well since there were only two data points.**

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Maxey Flats Disposal Site  
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<b>WELL ID:</b>	<b>ALT-1</b>	
<b>Installation Information</b>		
Depth of well	-	20.00 ft
Elevation of Bottom	-	666.57
Top of Casing Elevation	-	686.57
Ground Surface Elevation	-	684.27
TOC above LSD	-	2.30 ft

SC - Specific Conductivity

Temp - Temperature

DO - Dissolved Oxygen

TU - Turbidity

DATE	Laboratory Log #	TIME	TOC to Bottom	Liquid (ft) pre-meas	Liquid (ft) post-meas	Water Level (ft)	MEASUREMENTS OBTAINED					Collected By	Sample	Pumping Rate	Comments	LABORTORY Activity (pCi/ml)
							SC	pH	Temp (C)	DO	TU					
25-Apr-02		11:20 AM	20.00	7.05		12.95	177		12.7			USGS	Yes	1 quart @ 80 seconds	Annulus between protective casing and well needs filling (0.3 ft). Water red in color, clearing up as pumping.	
25-Apr-02	1209	11:44 AM	20.00		7.78	12.22	202	6.1	12.4					1 - 60 ml	Collected sampled and discontinued pumping. No recovery rate computed, drawdown only 0.73 ft.	1.57 +/- 0.15
24-Jul-02		1:24 PM	20.00	8.98		11.02						USGS	Yes	1 - 60 ml	Liquid was rusty looking but cleared up.	
24-Jul-02	2005	1:48 PM	20.00		9.95	10.05	228	6.26	14.8	0.48	5.7				Clear	1.24 +/- 0.15
24-Apr-03		9:30 AM	20.00	8.40		11.60	83.7	5.37	11.5	2.52	62.5					
24-Apr-03	1301	9:50 AM	20.00		9.30	10.70	122	5.82	11.4	0.49	0	USGS	Yes	1 - 60 ml	Clear	0.58 +/- 0.14

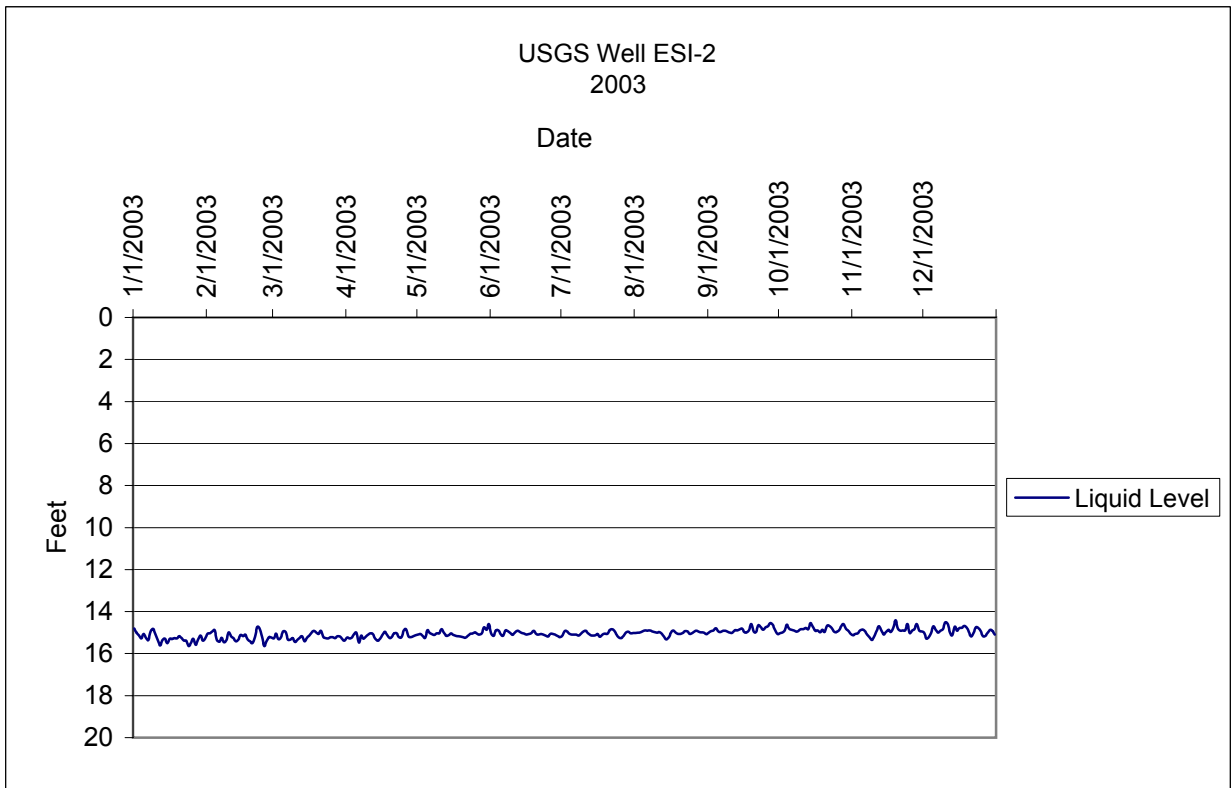
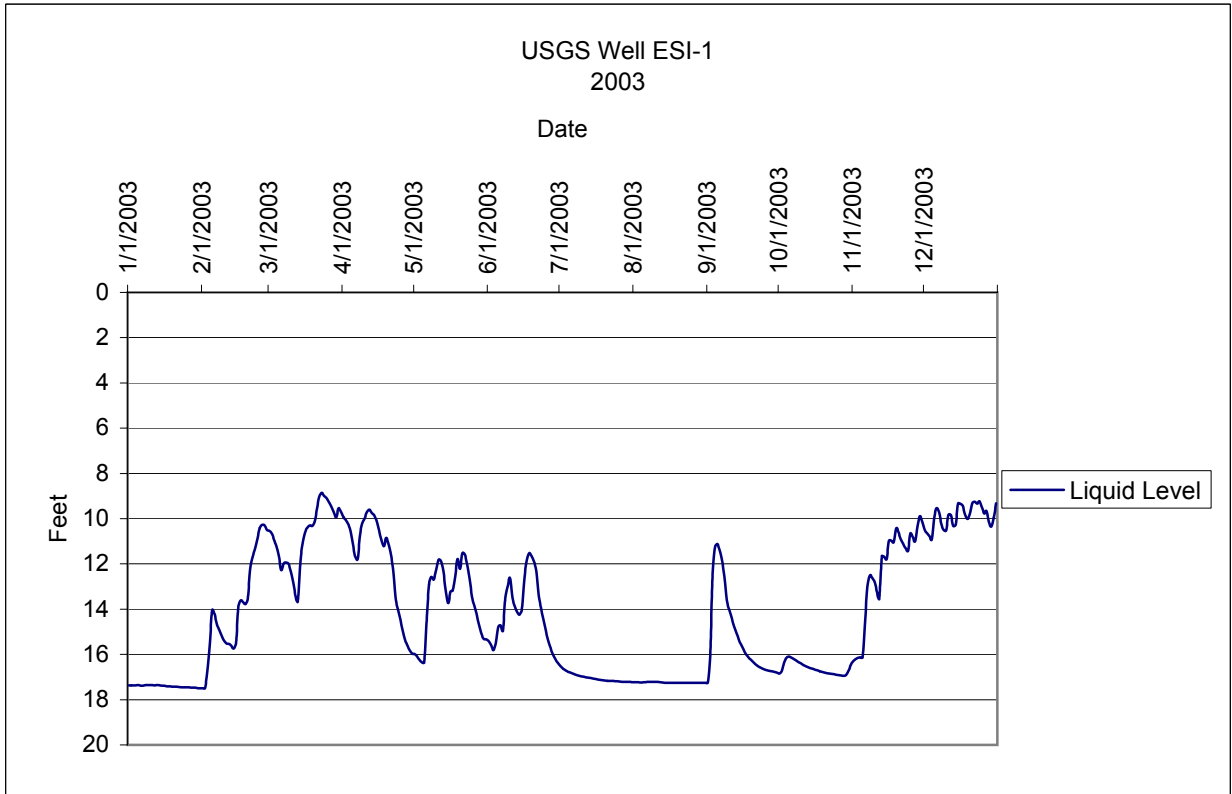
**Note: No graph for this well since there were only three data points**

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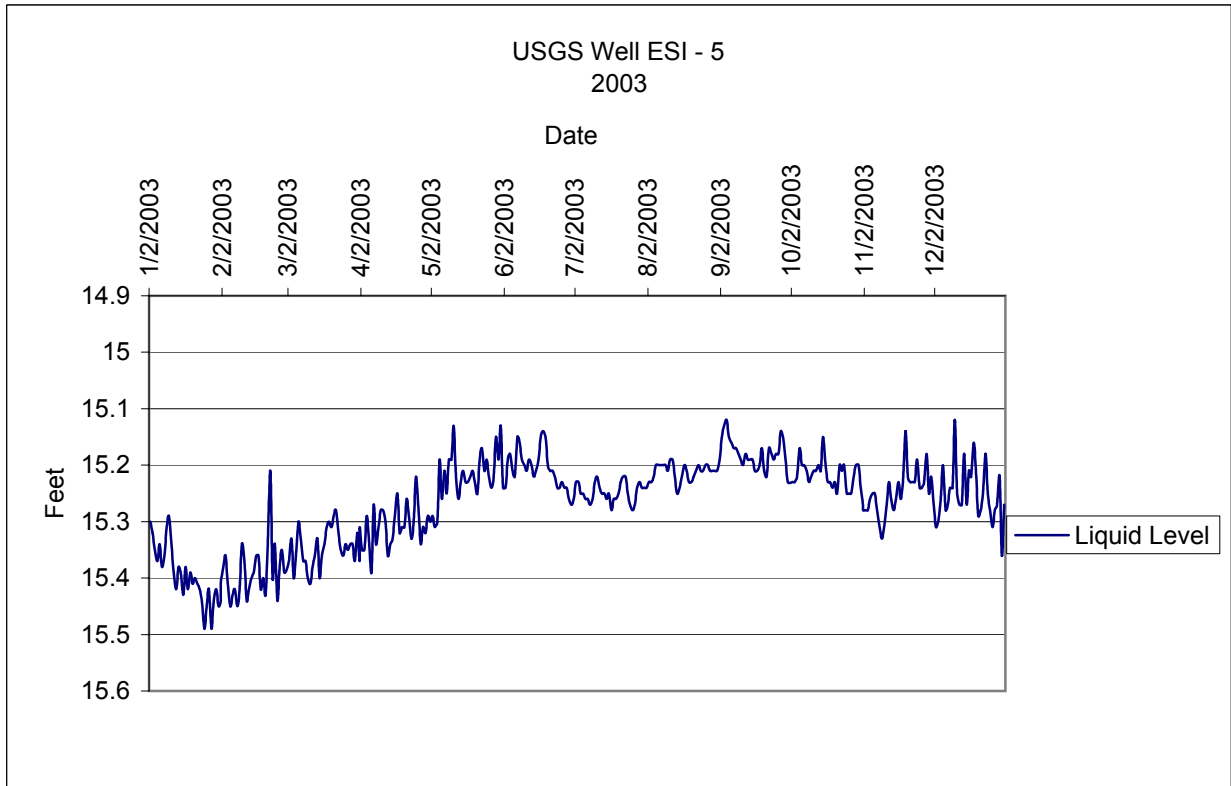
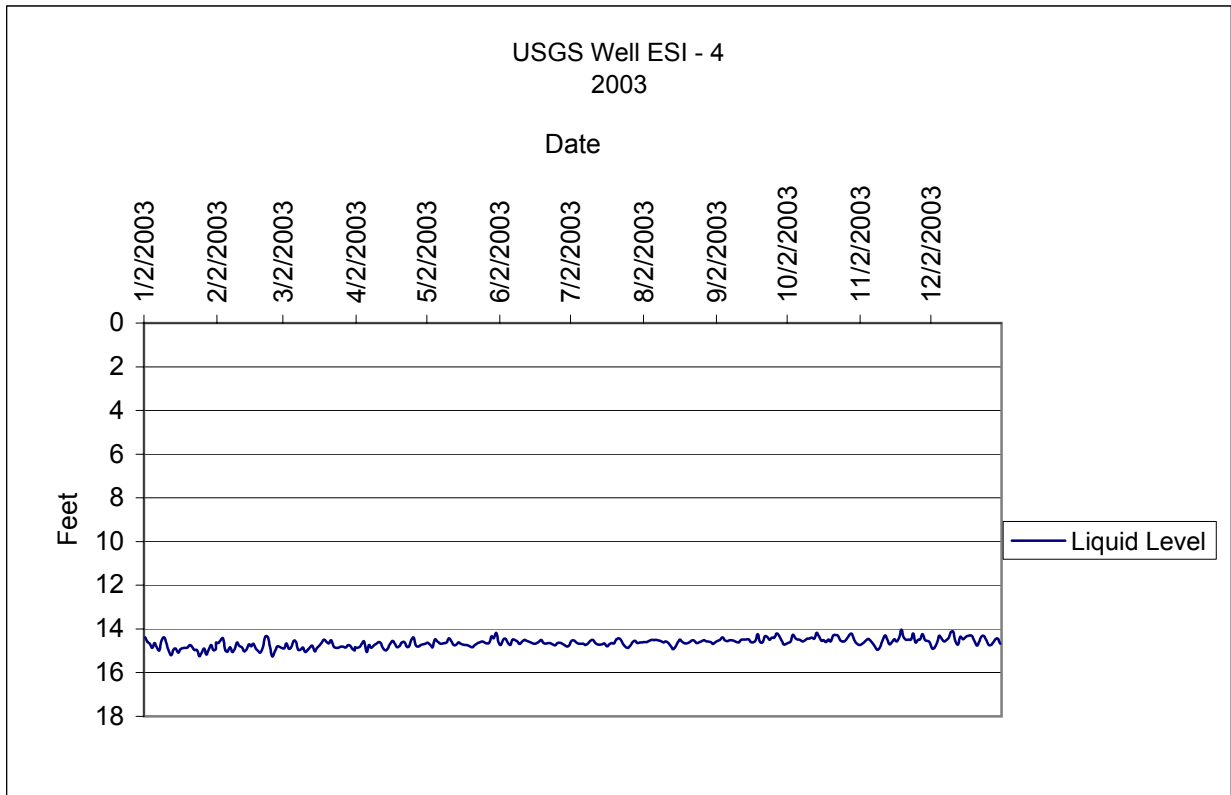
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**USGS MONITORING WELLS  
LIQUID LEVEL CHARTS  
2003**

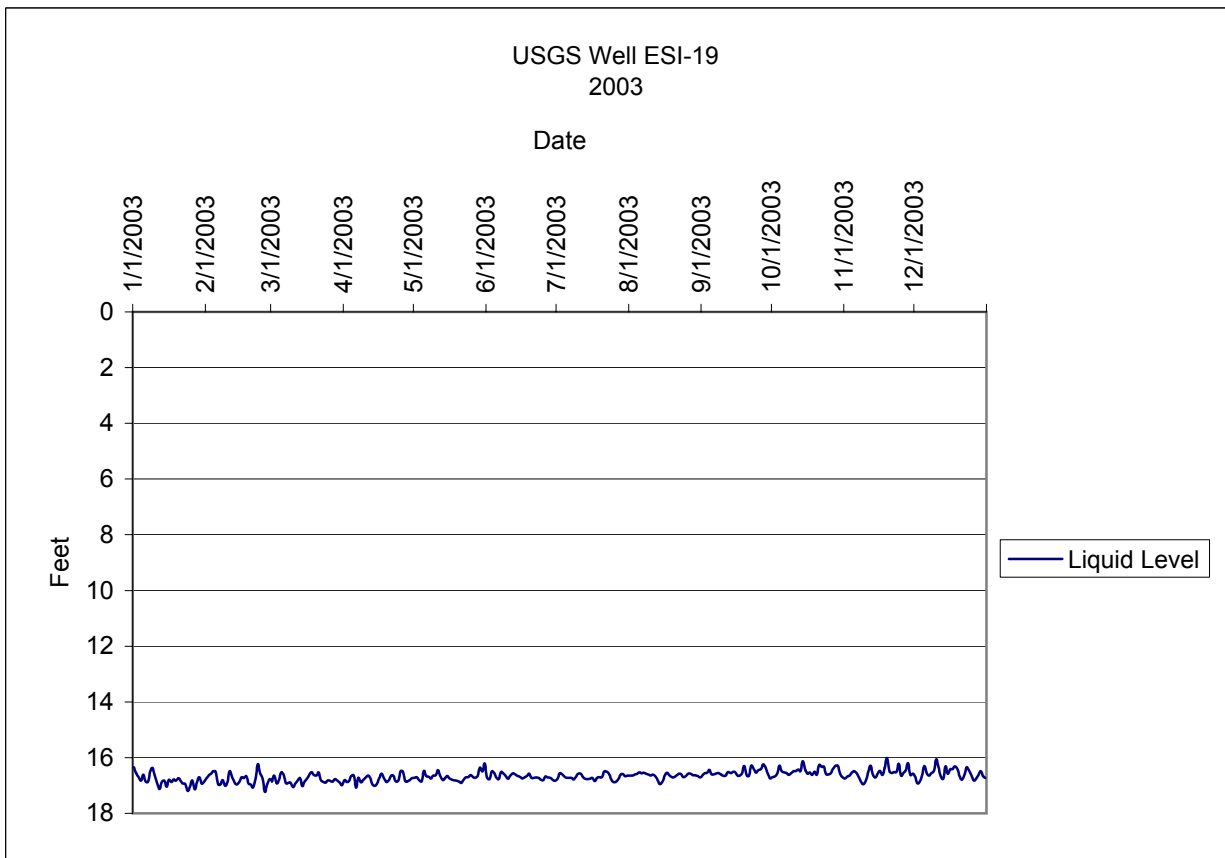
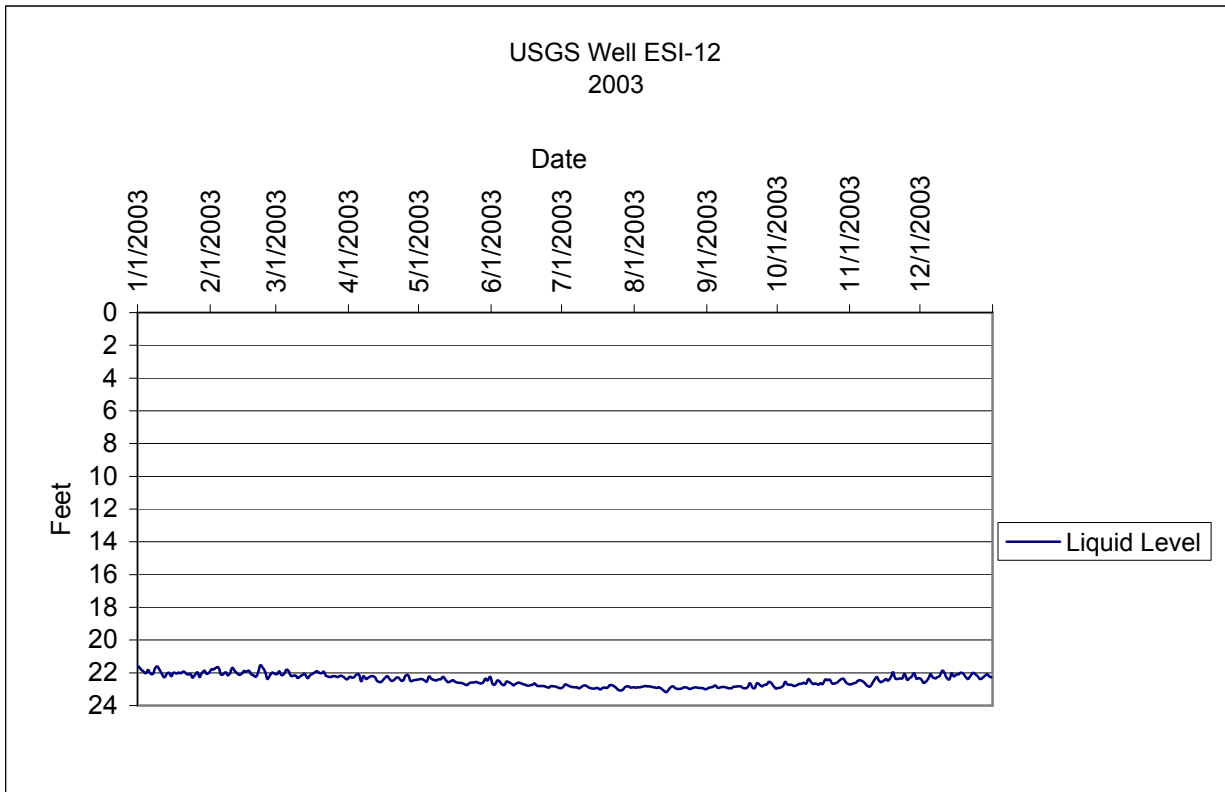
**ANNUAL REPORT**  
Maxey Flats Disposal Site  
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**ANNUAL REPORT**  
Maxey Flats Disposal Site  
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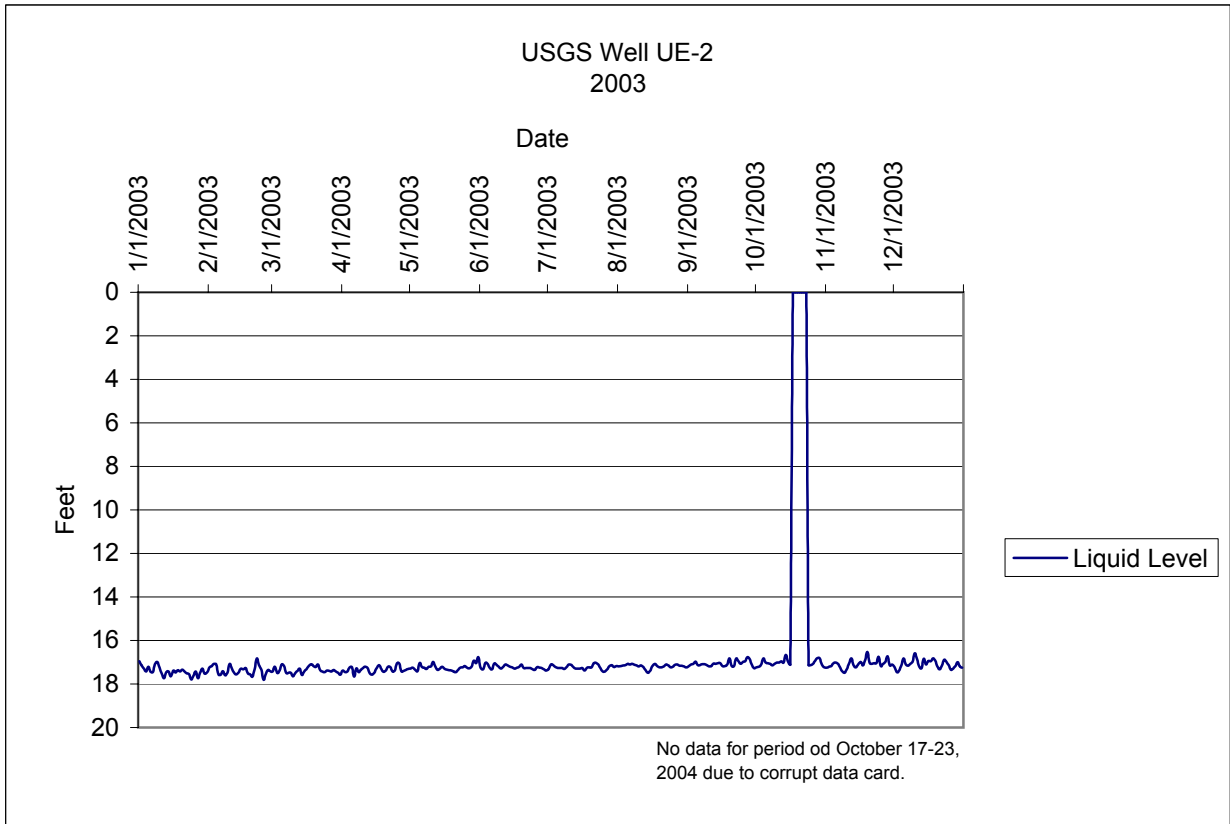
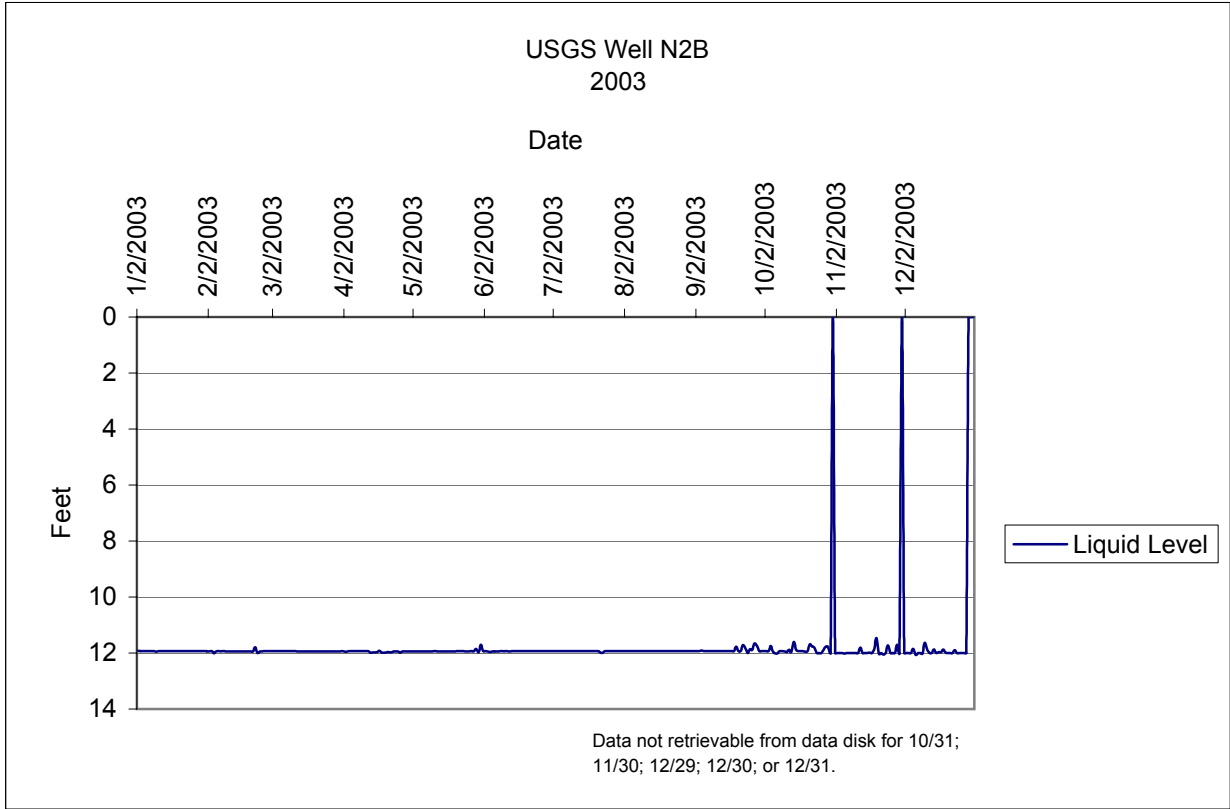


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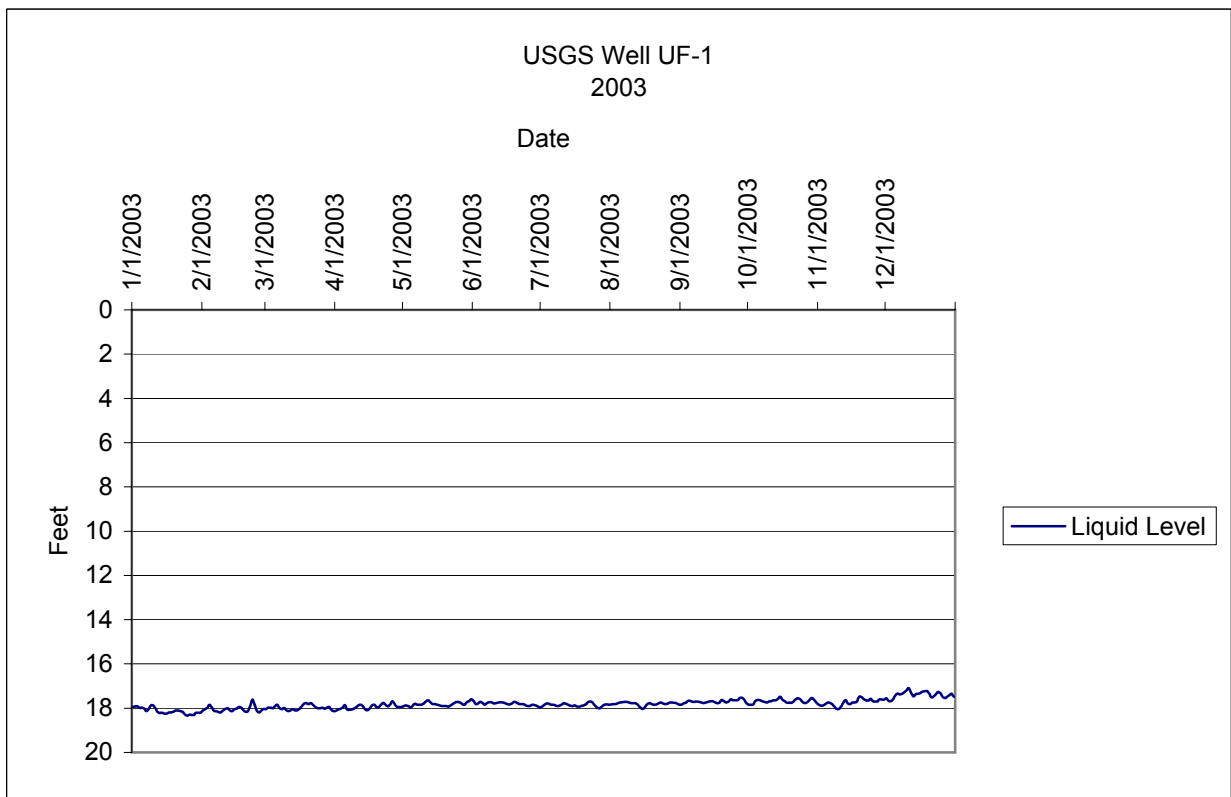
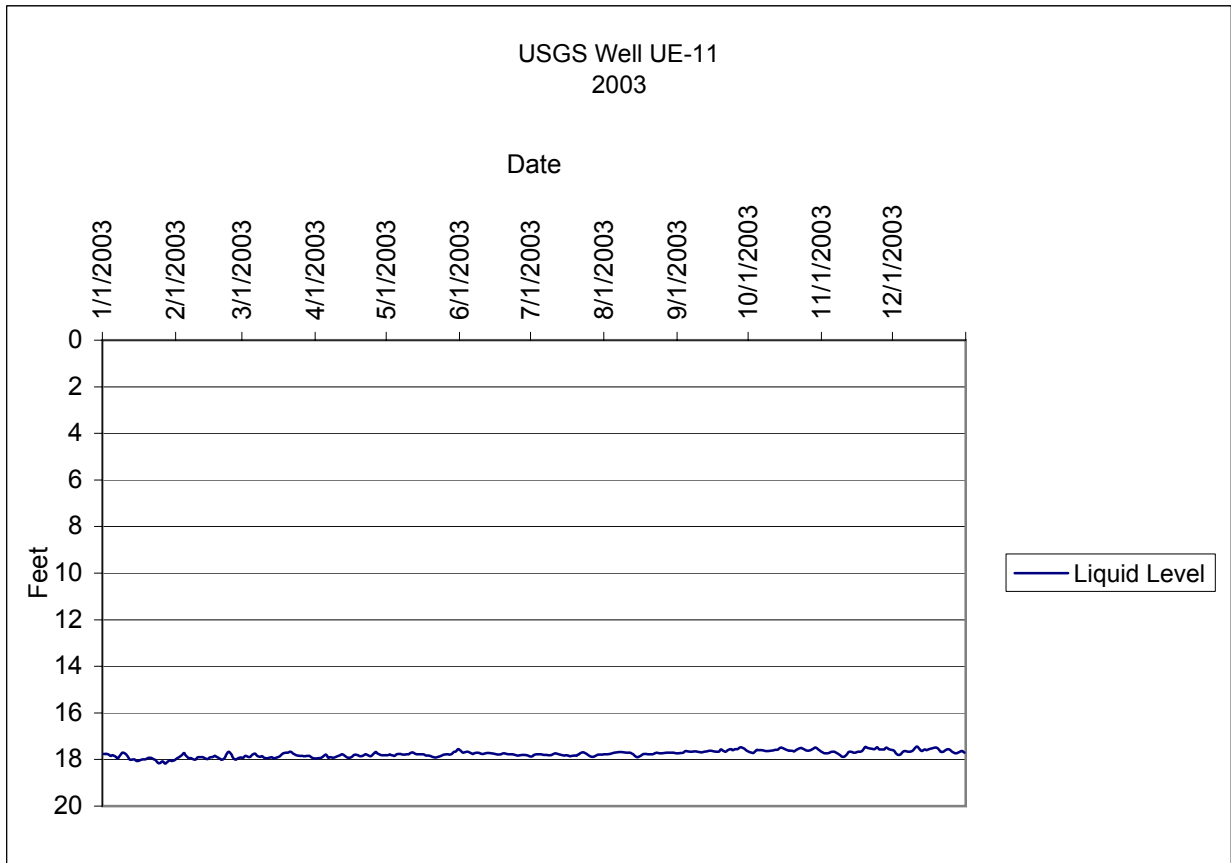




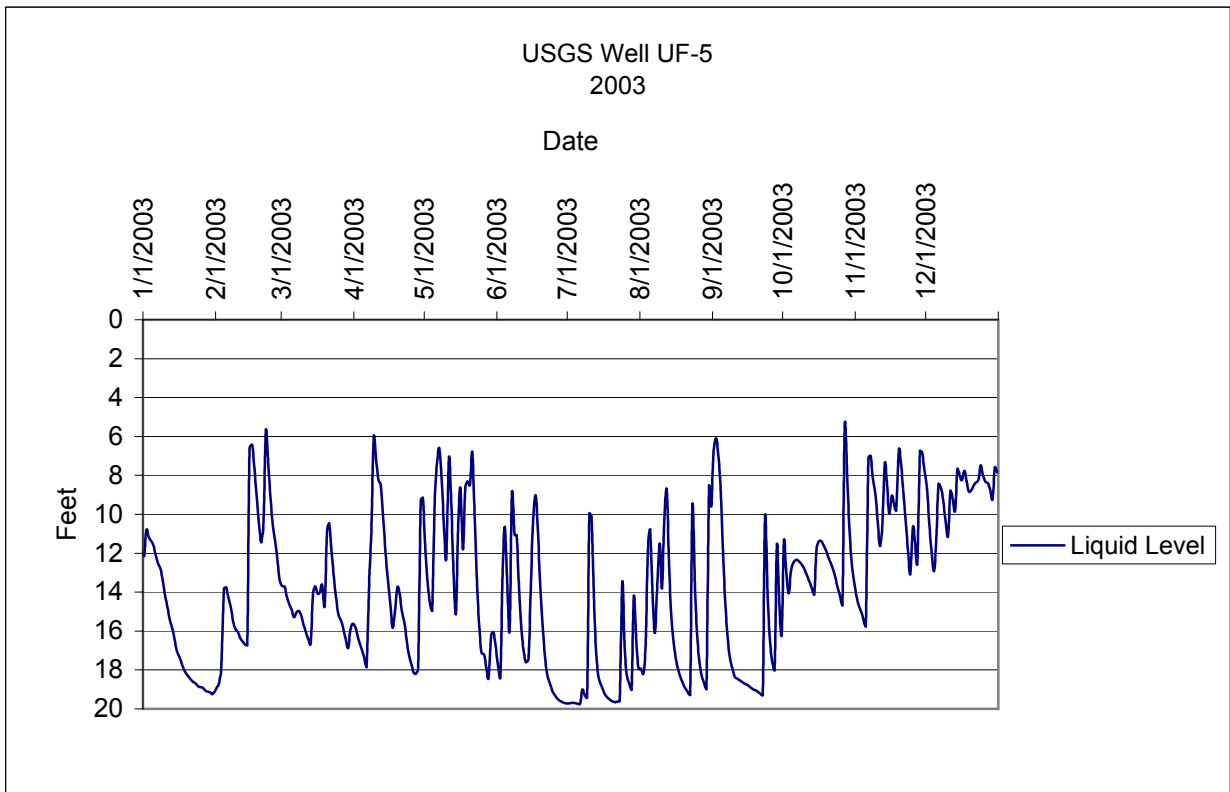
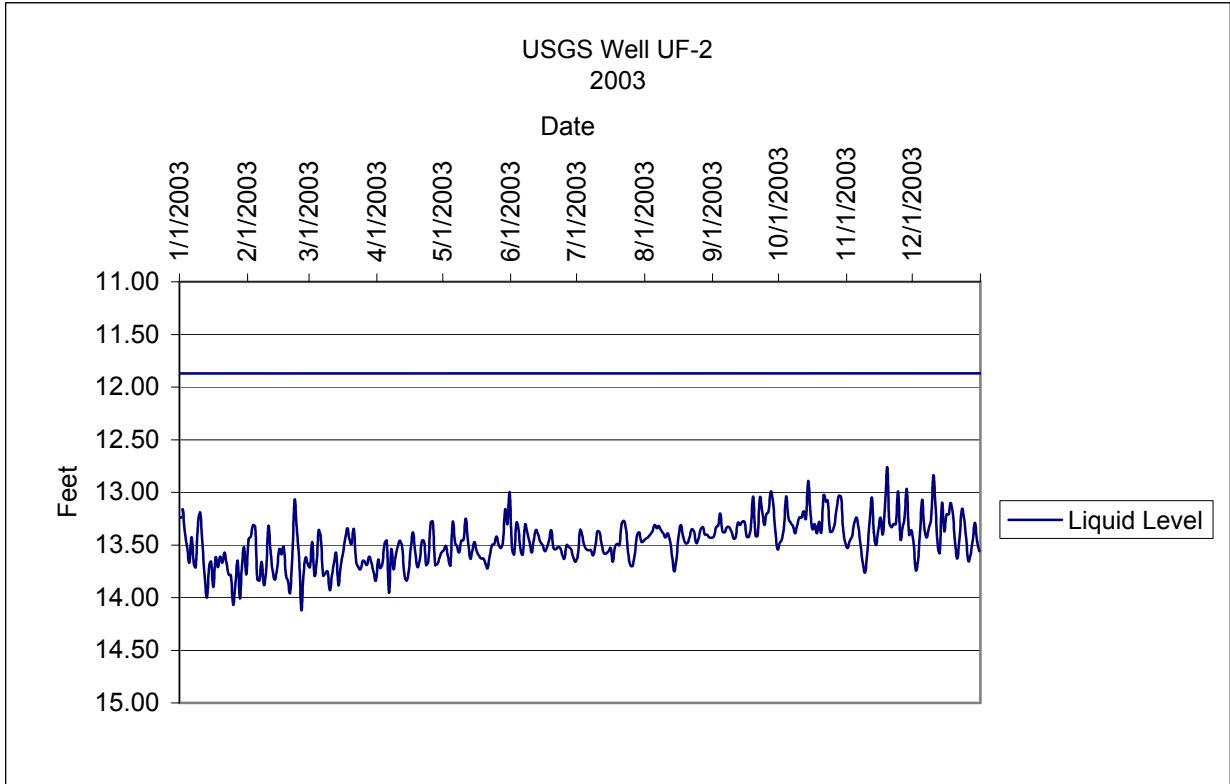
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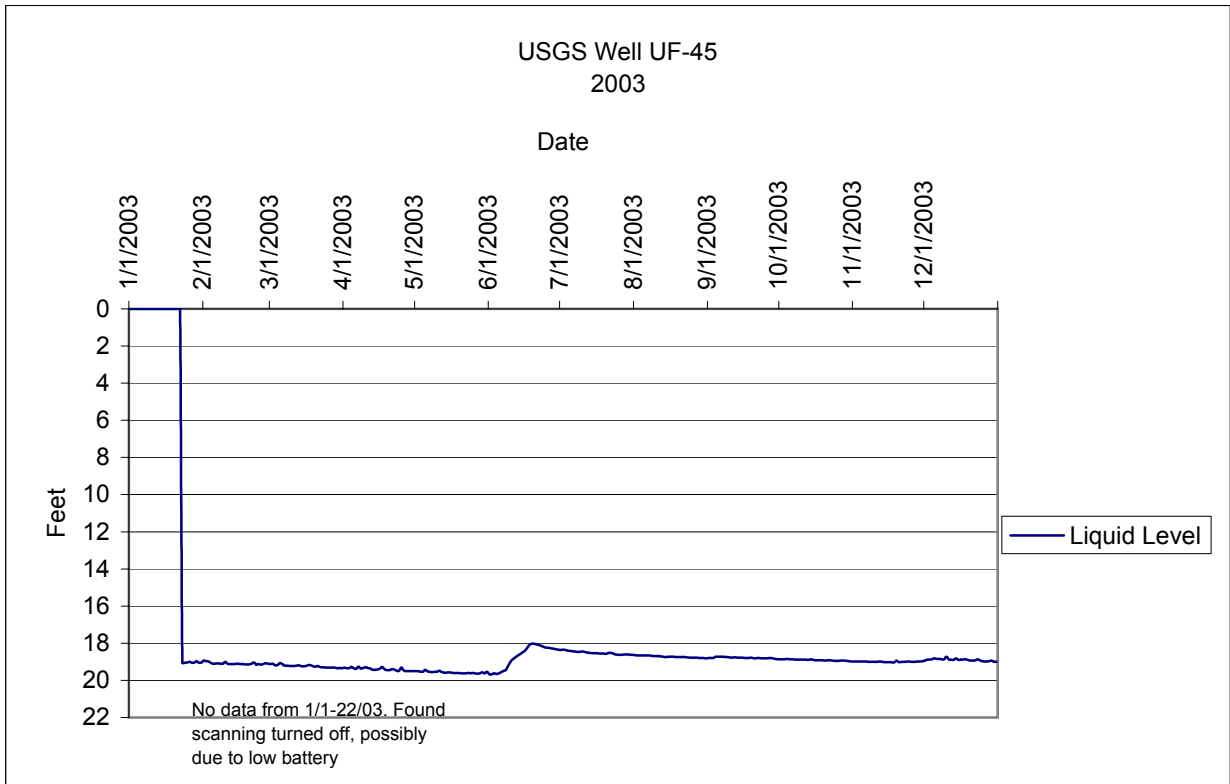
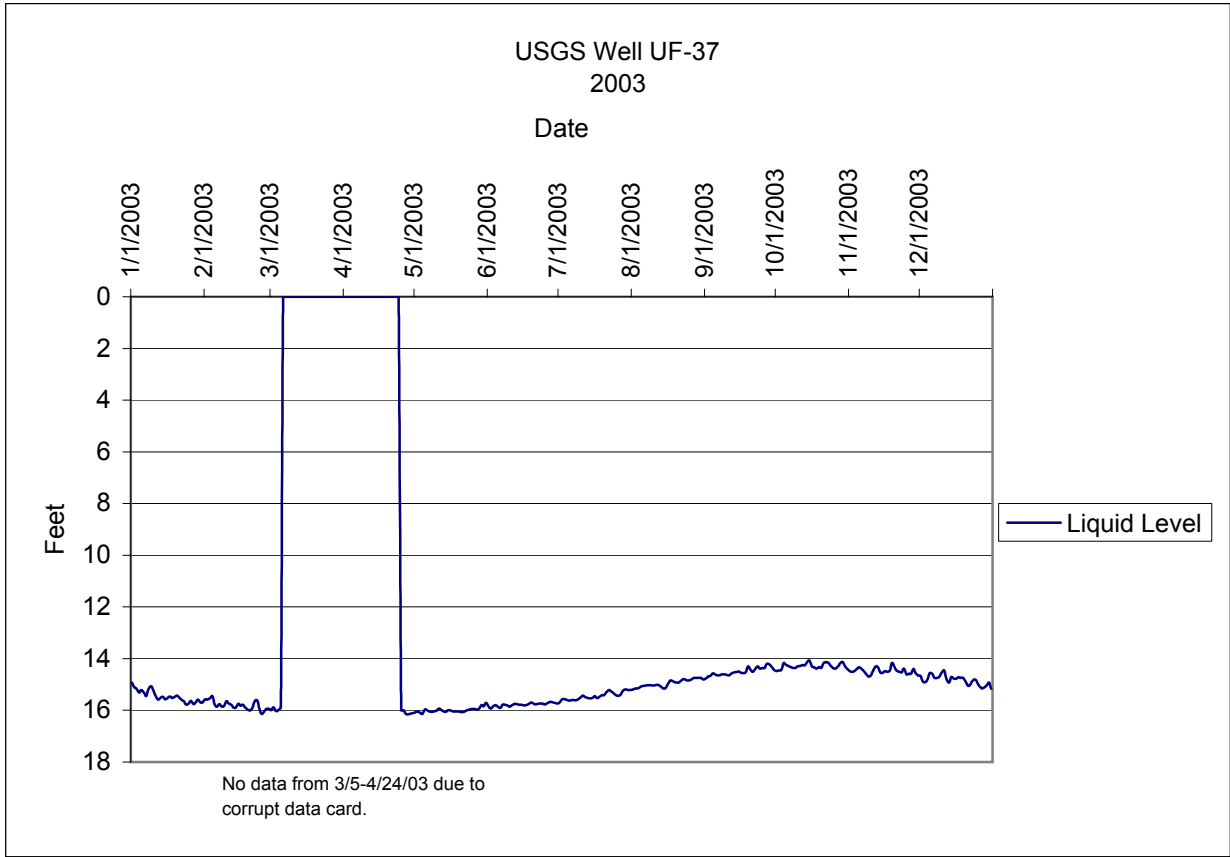
**ANNUAL REPORT**  
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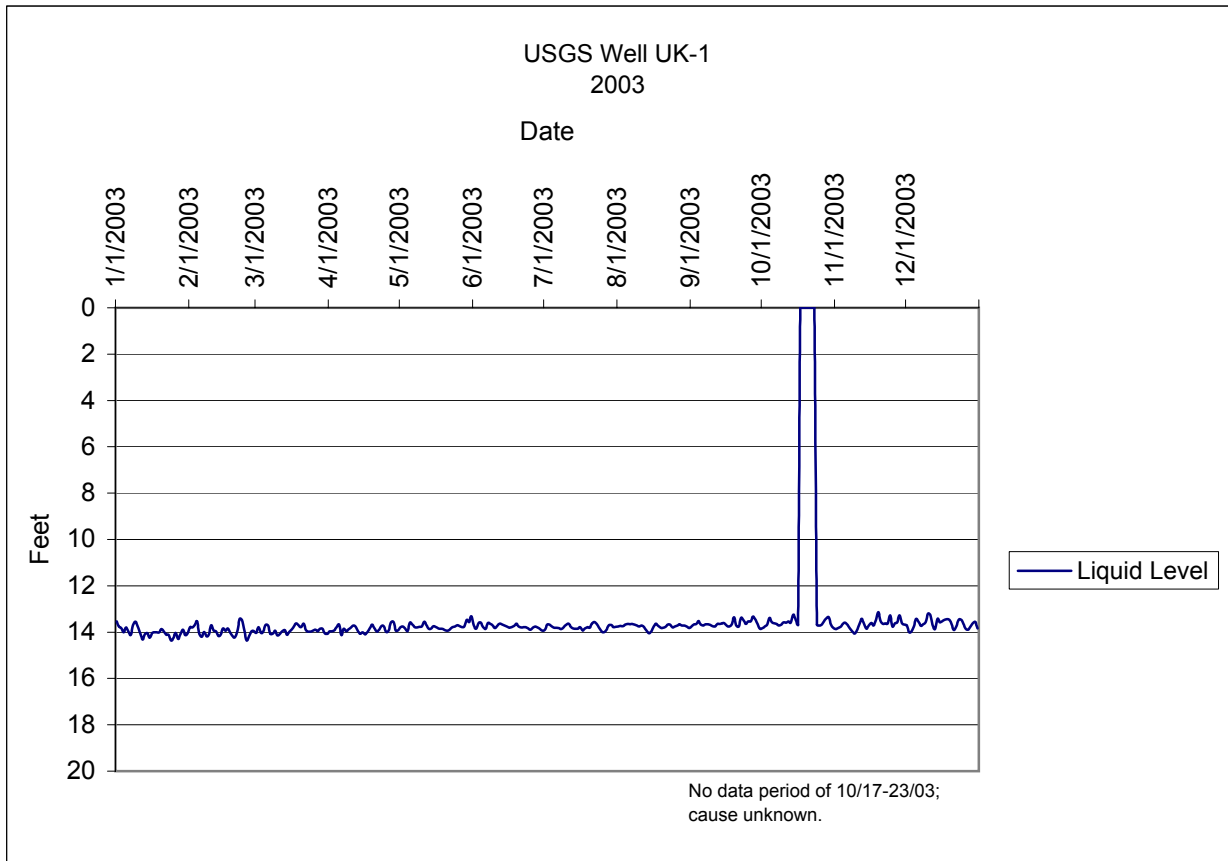
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**APPENDIX D4**

**USGS MONITORING WELLS  
LIQUID LEVEL SUMMARY  
2003**

**ANNUAL REPORT**  
 Maxey Flats Disposal Site  
 ESI - 1  
 2003

DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid
01/01/03	17.37	02/01/03	17.49	03/01/03	10.54	04/01/03	9.91	05/01/03	15.98	06/01/03	15.40
01/02/03	17.37	02/02/03	17.49	03/02/03	10.66	04/02/03	10.04	05/02/03	16.09	06/02/03	15.59
01/03/03	17.37	02/03/03	16.76	03/03/03	10.95	04/03/03	10.23	05/03/03	16.24	06/03/03	15.82
01/04/03	17.37	02/04/03	15.55	03/04/03	11.21	04/04/03	10.51	05/04/03	16.35	06/04/03	15.55
01/05/03	17.36	02/05/03	14.04	03/05/03	11.67	04/05/03	11.11	05/05/03	16.36	06/05/03	14.81
01/06/03	17.38	02/06/03	14.22	03/06/03	12.28	04/06/03	11.67	05/06/03	14.37	06/06/03	14.71
01/07/03	17.38	02/07/03	14.67	03/07/03	11.98	04/07/03	11.79	05/07/03	12.92	06/07/03	14.95
01/08/03	17.36	02/08/03	14.94	03/08/03	11.94	04/08/03	10.76	05/08/03	12.58	06/08/03	13.53
01/09/03	17.36	02/09/03	15.18	03/09/03	12.00	04/09/03	10.21	05/09/03	12.69	06/09/03	12.99
01/10/03	17.35	02/10/03	15.41	03/10/03	12.33	04/10/03	9.98	05/10/03	12.28	06/10/03	12.62
01/11/03	17.35	02/11/03	15.51	03/11/03	12.85	04/11/03	9.70	05/11/03	11.81	06/11/03	13.51
01/12/03	17.37	02/12/03	15.53	03/12/03	13.43	04/12/03	9.61	05/12/03	11.87	06/12/03	13.87
01/13/03	17.36	02/13/03	15.62	03/13/03	13.67	04/13/03	9.74	05/13/03	12.32	06/13/03	14.15
01/14/03	17.37	02/14/03	15.74	03/14/03	11.93	04/14/03	9.86	05/14/03	13.17	06/14/03	14.24
01/15/03	17.39	02/15/03	15.52	03/15/03	11.09	04/15/03	10.08	05/15/03	13.74	06/15/03	14.01
01/16/03	17.39	02/16/03	13.88	03/16/03	10.59	04/16/03	10.52	05/16/03	13.22	06/16/03	12.68
01/17/03	17.41	02/17/03	13.60	03/17/03	10.39	04/17/03	10.94	05/17/03	13.17	06/17/03	11.86
01/18/03	17.41	02/18/03	13.69	03/18/03	10.30	04/18/03	11.22	05/18/03	12.55	06/18/03	11.53
01/19/03	17.42	02/19/03	13.77	03/19/03	10.33	04/19/03	10.85	05/19/03	11.78	06/19/03	11.64
01/20/03	17.43	02/20/03	13.50	03/20/03	10.12	04/20/03	11.10	05/20/03	12.22	06/20/03	11.90
01/21/03	17.43	02/21/03	12.22	03/21/03	9.55	04/21/03	11.58	05/21/03	11.53	06/21/03	12.29
01/22/03	17.44	02/22/03	11.69	03/22/03	9.02	04/22/03	12.28	05/22/03	11.58	06/22/03	13.41
01/23/03	17.45	02/23/03	11.34	03/23/03	8.85	04/23/03	13.55	05/23/03	12.02	06/23/03	13.94
01/24/03	17.46	02/24/03	10.87	03/24/03	8.99	04/24/03	14.01	05/24/03	12.67	06/24/03	14.43
01/25/03	17.46	02/25/03	10.41	03/25/03	9.09	04/25/03	14.49	05/25/03	13.44	06/25/03	14.94
01/26/03	17.46	02/26/03	10.27	03/26/03	9.27	04/26/03	14.97	05/26/03	13.82	06/26/03	15.37
01/27/03	17.47	02/27/03	10.29	03/27/03	9.48	04/27/03	15.41	05/27/03	14.23	06/27/03	15.71
01/28/03	17.47	02/28/03	10.51	03/28/03	9.71	04/28/03	15.62	05/28/03	14.68	06/28/03	16.00
01/29/03	17.47			03/29/03	9.95	04/29/03	15.83	05/29/03	15.09	06/29/03	16.21
01/30/03	17.49			03/30/03	9.55	04/30/03	15.97	05/30/03	15.32	06/30/03	16.37
01/31/03	17.49			03/31/03	9.67			05/31/03	15.33		

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 Maxey Flats Disposal Site  
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 2003

DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid
07/01/03	16.50	08/01/03	17.23	09/01/03	17.25	10/01/03	16.84	11/01/03	16.31	12/01/03	10.49
07/02/03	16.60	08/02/03	17.23	09/02/03	16.03	10/02/03	16.74	11/02/03	16.21	12/02/03	10.63
07/03/03	16.68	08/03/03	17.23	09/03/03	12.45	10/03/03	16.35	11/03/03	16.15	12/03/03	10.78
07/04/03	16.74	08/04/03	17.24	09/04/03	11.25	10/04/03	16.15	11/04/03	16.13	12/04/03	10.94
07/05/03	16.79	08/05/03	17.23	09/05/03	11.12	10/05/03	16.09	11/05/03	16.14	12/05/03	9.94
07/06/03	16.83	08/06/03	17.23	09/06/03	11.38	10/06/03	16.14	11/06/03	14.50	12/06/03	9.54
07/07/03	16.87	08/07/03	17.22	09/07/03	11.86	10/07/03	16.20	11/07/03	12.97	12/07/03	9.72
07/08/03	16.91	08/08/03	17.22	09/08/03	12.56	10/08/03	16.26	11/08/03	12.50	12/08/03	10.24
07/09/03	16.94	08/09/03	17.22	09/09/03	13.63	10/09/03	16.33	11/09/03	12.61	12/09/03	10.49
07/10/03	16.97	08/10/03	17.22	09/10/03	14.02	10/10/03	16.40	11/10/03	12.82	12/10/03	10.53
07/11/03	16.99	08/11/03	17.22	09/11/03	14.39	10/11/03	16.46	11/11/03	13.26	12/11/03	9.83
07/12/03	17.01	08/12/03	17.23	09/12/03	14.75	10/12/03	16.52	11/12/03	13.54	12/12/03	9.85
07/13/03	17.03	08/13/03	17.24	09/13/03	15.06	10/13/03	16.57	11/13/03	11.66	12/13/03	10.32
07/14/03	17.05	08/14/03	17.25	09/14/03	15.34	10/14/03	16.60	11/14/03	11.68	12/14/03	10.27
07/15/03	17.07	08/15/03	17.25	09/15/03	15.56	10/15/03	16.63	11/15/03	11.80	12/15/03	9.33
07/16/03	17.09	08/16/03	17.25	09/16/03	15.78	10/16/03	16.67	11/16/03	10.97	12/16/03	9.35
07/17/03	17.11	08/17/03	17.26	09/17/03	15.98	10/17/03	16.71	11/17/03	10.98	12/17/03	9.44
07/18/03	17.13	08/18/03	17.26	09/18/03	16.12	10/18/03	16.74	11/18/03	11.05	12/18/03	9.81
07/19/03	17.14	08/19/03	17.26	09/19/03	16.23	10/19/03	16.78	11/19/03	10.43	12/19/03	10.01
07/20/03	17.16	08/20/03	17.26	09/20/03	16.34	10/20/03	16.81	11/20/03	10.59	12/20/03	9.79
07/21/03	17.17	08/21/03	17.26	09/21/03	16.44	10/21/03	16.83	11/21/03	10.90	12/21/03	9.31
07/22/03	17.17	08/22/03	17.26	09/22/03	16.52	10/22/03	16.85	11/22/03	11.12	12/22/03	9.25
07/23/03	17.17	08/23/03	17.26	09/23/03	16.58	10/23/03	16.86	11/23/03	11.30	12/23/03	9.34
07/24/03	17.18	08/24/03	17.26	09/24/03	16.63	10/24/03	16.88	11/24/03	11.43	12/24/03	9.24
07/25/03	17.19	08/25/03	17.26	09/25/03	16.67	10/25/03	16.90	11/25/03	10.66	12/25/03	9.50
07/26/03	17.20	08/26/03	17.26	09/26/03	16.70	10/26/03	16.92	11/26/03	10.82	12/26/03	9.78
07/27/03	17.21	08/27/03	17.25	09/27/03	16.73	10/27/03	16.93	11/27/03	11.01	12/27/03	9.66
07/28/03	17.21	08/28/03	17.25	09/28/03	16.75	10/28/03	16.94	11/28/03	10.30	12/28/03	10.17
07/29/03	17.22	08/29/03	17.25	09/29/03	16.78	10/29/03	16.92	11/29/03	9.89	12/29/03	10.35
07/30/03	17.22	08/30/03	17.25	09/30/03	16.81	10/30/03	16.72	11/30/03	10.13	12/30/03	9.95
07/31/03	17.23	08/31/03	17.25			10/31/03	16.47			12/31/03	9.32



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 Maxey Flats Disposal Site  
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 2003

DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid
01/01/03	14.80	02/01/03	15.05	03/01/03	15.28	04/01/03	15.23	05/01/03	15.10	06/01/03	15.04
01/02/03	15.01	02/02/03	15.04	03/02/03	15.05	04/02/03	15.28	05/02/03	15.06	06/02/03	15.15
01/03/03	15.12	02/03/03	14.95	03/03/03	15.31	04/03/03	15.24	05/03/03	15.16	06/03/03	14.89
01/04/03	15.28	02/04/03	14.88	03/04/03	15.23	04/04/03	15.07	05/04/03	15.25	06/04/03	14.89
01/05/03	15.06	02/05/03	15.35	03/05/03	14.95	04/05/03	15.01	05/05/03	14.88	06/05/03	15.08
01/06/03	15.27	02/06/03	15.43	03/06/03	14.98	04/06/03	15.47	05/06/03	15.02	06/06/03	15.15
01/07/03	15.36	02/07/03	15.25	03/07/03	15.34	04/07/03	15.14	05/07/03	15.08	06/07/03	14.89
01/08/03	14.94	02/08/03	15.46	03/08/03	15.34	04/08/03	15.29	05/08/03	15.11	06/08/03	14.93
01/09/03	14.82	02/09/03	15.35	03/09/03	15.26	04/09/03	15.18	05/09/03	15.04	06/09/03	15.02
01/10/03	15.08	02/10/03	14.99	03/10/03	15.44	04/10/03	15.10	05/10/03	15.03	06/10/03	15.11
01/11/03	15.39	02/11/03	15.18	03/11/03	15.34	04/11/03	15.03	05/11/03	14.83	06/11/03	15.00
01/12/03	15.61	02/12/03	15.26	03/12/03	15.24	04/12/03	15.08	05/12/03	15.02	06/12/03	14.92
01/13/03	15.35	02/13/03	15.42	03/13/03	15.17	04/13/03	15.30	05/13/03	15.16	06/13/03	14.96
01/14/03	15.29	02/14/03	15.34	03/14/03	15.42	04/14/03	15.39	05/14/03	15.13	06/14/03	15.02
01/15/03	15.51	02/15/03	15.11	03/15/03	15.26	04/15/03	15.30	05/15/03	15.03	06/15/03	15.05
01/16/03	15.30	02/16/03	15.17	03/16/03	15.15	04/16/03	15.10	05/16/03	15.11	06/16/03	15.10
01/17/03	15.31	02/17/03	15.10	03/17/03	15.01	04/17/03	14.96	05/17/03	15.15	06/17/03	15.07
01/18/03	15.26	02/18/03	15.32	03/18/03	14.91	04/18/03	15.11	05/18/03	15.17	06/18/03	15.02
01/19/03	15.28	02/19/03	15.41	03/19/03	15.01	04/19/03	15.26	05/19/03	15.18	06/19/03	14.92
01/20/03	15.17	02/20/03	15.50	03/20/03	15.06	04/20/03	15.20	05/20/03	15.22	06/20/03	15.07
01/21/03	15.25	02/21/03	15.21	03/21/03	14.92	04/21/03	15.03	05/21/03	15.25	06/21/03	15.09
01/22/03	15.38	02/22/03	14.73	03/22/03	15.21	04/22/03	15.03	05/22/03	15.16	06/22/03	15.07
01/23/03	15.38	02/23/03	14.79	03/23/03	15.27	04/23/03	15.22	05/23/03	15.07	06/23/03	15.09
01/24/03	15.64	02/24/03	15.19	03/24/03	15.28	04/24/03	15.21	05/24/03	15.05	06/24/03	15.14
01/25/03	15.49	02/25/03	15.65	03/25/03	15.21	04/25/03	14.89	05/25/03	14.99	06/25/03	15.18
01/26/03	15.29	02/26/03	15.41	03/26/03	15.22	04/26/03	14.83	05/26/03	15.05	06/26/03	15.06
01/27/03	15.58	02/27/03	15.21	03/27/03	15.26	04/27/03	15.19	05/27/03	15.09	06/27/03	15.07
01/28/03	15.34	02/28/03	15.23	03/28/03	15.17	04/28/03	15.22	05/28/03	15.04	06/28/03	15.09
01/29/03	15.14			03/29/03	15.19	04/29/03	15.17	05/29/03	14.75	06/29/03	15.15
01/30/03	15.38			03/30/03	15.31	04/30/03	15.13	05/30/03	14.86	06/30/03	15.21
01/31/03	15.30			03/31/03	15.39			05/31/03	14.60		

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DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid
07/01/03	15.15	08/01/03	15.02	09/01/03	15.01	10/01/03	15.04	11/01/03	15.12	12/01/03	15.01
07/02/03	14.93	08/02/03	15.00	09/02/03	14.93	10/02/03	15.00	11/02/03	15.07	12/02/03	15.28
07/03/03	14.95	08/03/03	14.99	09/03/03	14.90	10/03/03	14.92	11/03/03	15.03	12/03/03	15.23
07/04/03	15.05	08/04/03	14.95	09/04/03	14.79	10/04/03	14.62	11/04/03	14.90	12/04/03	15.02
07/05/03	15.09	08/05/03	14.90	09/05/03	14.95	10/05/03	14.81	11/05/03	14.85	12/05/03	14.70
07/06/03	15.10	08/06/03	14.92	09/06/03	14.97	10/06/03	14.86	11/06/03	14.93	12/06/03	14.88
07/07/03	15.10	08/07/03	14.90	09/07/03	14.92	10/07/03	14.89	11/07/03	15.10	12/07/03	15.00
07/08/03	15.14	08/08/03	14.94	09/08/03	14.92	10/08/03	14.96	11/08/03	15.23	12/08/03	14.92
07/09/03	15.05	08/09/03	14.97	09/09/03	14.96	10/09/03	14.91	11/09/03	15.35	12/09/03	14.83
07/10/03	14.94	08/10/03	15.01	09/10/03	15.01	10/10/03	14.83	11/10/03	15.18	12/10/03	14.52
07/11/03	14.92	08/11/03	14.97	09/11/03	15.01	10/11/03	14.84	11/11/03	14.91	12/11/03	14.59
07/12/03	15.04	08/12/03	15.04	09/12/03	14.88	10/12/03	14.78	11/12/03	14.70	12/12/03	15.01
07/13/03	15.12	08/13/03	15.18	09/13/03	14.89	10/13/03	14.84	11/13/03	14.91	12/13/03	15.13
07/14/03	15.14	08/14/03	15.32	09/14/03	14.85	10/14/03	14.55	11/14/03	15.10	12/14/03	14.71
07/15/03	15.12	08/15/03	15.23	09/15/03	14.81	10/15/03	14.71	11/15/03	14.98	12/15/03	14.91
07/16/03	15.07	08/16/03	15.01	09/16/03	14.98	10/16/03	14.92	11/16/03	14.86	12/16/03	14.79
07/17/03	15.20	08/17/03	14.90	09/17/03	14.99	10/17/03	14.90	11/17/03	14.98	12/17/03	14.77
07/18/03	15.10	08/18/03	15.00	09/18/03	14.88	10/18/03	14.99	11/18/03	14.76	12/18/03	14.69
07/19/03	15.05	08/19/03	15.07	09/19/03	14.60	10/19/03	14.87	11/19/03	14.41	12/19/03	14.76
07/20/03	15.07	08/20/03	15.06	09/20/03	14.96	10/20/03	14.97	11/20/03	14.80	12/20/03	14.98
07/21/03	14.89	08/21/03	15.02	09/21/03	14.98	10/21/03	14.67	11/21/03	14.91	12/21/03	15.18
07/22/03	14.84	08/22/03	14.93	09/22/03	14.65	10/22/03	14.69	11/22/03	14.89	12/22/03	15.00
07/23/03	14.92	08/23/03	14.95	09/23/03	14.74	10/23/03	14.78	11/23/03	14.89	12/23/03	14.75
07/24/03	15.10	08/24/03	15.06	09/24/03	14.86	10/24/03	14.96	11/24/03	14.59	12/24/03	14.79
07/25/03	15.23	08/25/03	15.02	09/25/03	14.75	10/25/03	14.97	11/25/03	15.02	12/25/03	14.93
07/26/03	15.27	08/26/03	14.95	09/26/03	14.70	10/26/03	14.89	11/26/03	14.90	12/26/03	15.17
07/27/03	15.16	08/27/03	14.92	09/27/03	14.54	10/27/03	14.70	11/27/03	14.84	12/27/03	15.15
07/28/03	14.99	08/28/03	14.98	09/28/03	14.63	10/28/03	14.59	11/28/03	14.59	12/28/03	15.01
07/29/03	14.96	08/29/03	14.99	09/29/03	14.87	10/29/03	14.82	11/29/03	14.92	12/29/03	14.87
07/30/03	15.04	08/30/03	15.01	09/30/03	15.06	10/30/03	14.92	11/30/03	14.94	12/30/03	14.93
07/31/03	15.02	08/31/03	15.08			10/31/03	15.06			12/31/03	15.10

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DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid
01/01/03	14.39	02/01/03	14.63	3/1/2003	14.88	04/01/03	14.98	05/01/03	14.67	06/01/03	14.62
01/02/03	14.38	02/02/03	14.65	03/02/03	14.89	04/02/03	14.86	05/02/03	14.63	06/02/03	14.73
01/03/03	14.59	02/03/03	14.53	03/03/03	14.66	04/03/03	14.82	05/03/03	14.73	06/03/03	14.49
01/04/03	14.68	02/04/03	14.42	03/04/03	14.91	04/04/03	14.67	05/04/03	14.83	06/04/03	14.46
01/05/03	14.86	02/05/03	14.95	03/05/03	14.83	04/05/03	14.57	05/05/03	14.49	06/05/03	14.65
01/06/03	14.64	02/06/03	15.04	03/06/03	14.55	04/06/03	15.06	05/06/03	14.57	06/06/03	14.73
01/07/03	14.84	02/07/03	14.84	03/07/03	14.59	04/07/03	14.74	05/07/03	14.66	06/07/03	14.48
01/08/03	14.98	02/08/03	15.06	03/08/03	14.95	04/08/03	14.87	05/08/03	14.68	06/08/03	14.51
01/09/03	14.53	02/09/03	14.94	03/09/03	14.94	04/09/03	14.76	05/09/03	14.64	06/09/03	14.58
01/10/03	14.38	02/10/03	14.61	03/10/03	14.85	04/10/03	14.69	05/10/03	14.62	06/10/03	14.69
01/11/03	14.65	02/11/03	14.78	03/11/03	15.05	04/11/03	14.60	05/11/03	14.42	06/11/03	14.58
01/12/03	14.98	02/12/03	14.84	03/12/03	14.95	04/12/03	14.64	05/12/03	14.58	06/12/03	14.50
01/13/03	15.20	02/13/03	15.02	03/13/03	14.83	04/13/03	14.88	05/13/03	14.74	06/13/03	14.54
01/14/03	14.95	02/14/03	14.95	03/14/03	14.77	04/14/03	14.98	05/14/03	14.72	06/14/03	14.59
01/15/03	14.89	02/15/03	14.70	03/15/03	15.02	04/15/03	14.89	05/15/03	14.62	06/15/03	14.63
01/16/03	15.09	02/16/03	14.79	03/16/03	14.86	04/16/03	14.69	05/16/03	14.67	06/16/03	14.68
01/17/03	14.92	02/17/03	14.68	03/17/03	14.75	04/17/03	14.55	05/17/03	14.72	06/17/03	14.66
01/18/03	14.88	02/18/03	14.91	03/18/03	14.61	04/18/03	14.68	05/18/03	14.74	06/18/03	14.60
01/19/03	14.87	02/19/03	15.01	03/19/03	14.49	04/19/03	14.84	05/19/03	14.75	06/19/03	14.50
01/20/03	14.85	02/20/03	15.09	03/20/03	14.60	04/20/03	14.78	05/20/03	14.80	06/20/03	14.63
01/21/03	14.73	02/21/03	14.82	03/21/03	14.66	04/21/03	14.62	05/21/03	14.83	06/21/03	14.67
01/22/03	14.84	02/22/03	14.36	03/22/03	14.51	04/22/03	14.60	05/22/03	14.74	06/22/03	14.65
01/23/03	14.97	02/23/03	14.37	03/23/03	14.81	04/23/03	14.81	05/23/03	14.66	06/23/03	14.65
01/24/03	14.97	02/24/03	14.82	03/24/03	14.87	04/24/03	14.80	05/24/03	14.62	06/24/03	14.71
01/25/03	15.24	02/25/03	15.26	03/25/03	14.87	04/25/03	14.48	05/25/03	14.57	06/25/03	14.75
01/26/03	15.10	02/26/03	15.02	03/26/03	14.81	04/26/03	14.39	05/26/03	14.62	06/26/03	14.65
01/27/03	14.89	02/27/03	14.81	03/27/03	14.80	04/27/03	14.77	05/27/03	14.66	06/27/03	14.63
01/28/03	15.17	02/28/03	14.81	03/28/03	14.85	04/28/03	14.80	05/28/03	14.63	06/28/03	14.67
01/29/03	14.95			03/29/03	14.75	04/29/03	14.74	05/29/03	14.34	06/29/03	14.73
01/30/03	14.74			03/30/03	14.77	04/30/03	14.70	05/30/03	14.43	06/30/03	14.80
01/31/03	14.97			03/31/03	14.93			05/31/03	14.18		

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DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid
07/01/03	14.75	08/01/03	14.62	09/01/03	14.61	10/01/03	14.69	11/01/03	14.73	12/01/03	14.60
07/02/03	14.54	08/02/03	14.60	09/02/03	14.54	10/02/03	14.63	11/02/03	14.70	12/02/03	14.89
07/03/03	14.53	08/03/03	14.60	09/03/03	14.50	10/03/03	14.57	11/03/03	14.63	12/03/03	14.86
07/04/03	14.61	08/04/03	14.55	09/04/03	14.38	10/04/03	14.26	11/04/03	14.51	12/04/03	14.64
07/05/03	14.67	08/05/03	14.50	09/05/03	14.52	10/05/03	14.42	11/05/03	14.45	12/05/03	14.31
07/06/03	14.67	08/06/03	14.51	09/06/03	14.56	10/06/03	14.48	11/06/03	14.54	12/06/03	14.43
07/07/03	14.68	08/07/03	14.50	09/07/03	14.52	10/07/03	14.50	11/07/03	14.69	12/07/03	14.58
07/08/03	14.73	08/08/03	14.53	09/08/03	14.51	10/08/03	14.57	11/08/03	14.85	12/08/03	14.52
07/09/03	14.66	08/09/03	14.56	09/09/03	14.55	10/09/03	14.53	11/09/03	14.96	12/09/03	14.42
07/10/03	14.55	08/10/03	14.61	09/10/03	14.60	10/10/03	14.44	11/10/03	14.81	12/10/03	14.14
07/11/03	14.50	08/11/03	14.58	09/11/03	14.61	10/11/03	14.44	11/11/03	14.53	12/11/03	14.13
07/12/03	14.63	08/12/03	14.63	09/12/03	14.50	10/12/03	14.39	11/12/03	14.30	12/12/03	14.58
07/13/03	14.71	08/13/03	14.78	09/13/03	14.49	10/13/03	14.44	11/13/03	14.48	12/13/03	14.72
07/14/03	14.72	08/14/03	14.92	09/14/03	14.48	10/14/03	14.18	11/14/03	14.71	12/14/03	14.35
07/15/03	14.71	08/15/03	14.84	09/15/03	14.47	10/15/03	14.32	11/15/03	14.59	12/15/03	14.47
07/16/03	14.66	08/16/03	14.62	09/16/03	14.59	10/16/03	14.54	11/16/03	14.47	12/16/03	14.39
07/17/03	14.79	08/17/03	14.49	09/17/03	14.61	10/17/03	14.52	11/17/03	14.57	12/17/03	14.33
07/18/03	14.71	08/18/03	14.59	09/18/03	14.53	10/18/03	14.60	11/18/03	14.40	12/18/03	14.30
07/19/03	14.65	08/19/03	14.66	09/19/03	14.23	10/19/03	14.49	11/19/03	14.03	12/19/03	14.32
07/20/03	14.66	08/20/03	14.66	09/20/03	14.59	10/20/03	14.57	11/20/03	14.38	12/20/03	14.54
07/21/03	14.49	08/21/03	14.62	09/21/03	14.61	10/21/03	14.30	11/21/03	14.50	12/21/03	14.76
07/22/03	14.43	08/22/03	14.53	09/22/03	14.34	10/22/03	14.28	11/22/03	14.48	12/22/03	14.59
07/23/03	14.51	08/23/03	14.53	09/23/03	14.36	10/23/03	14.30	11/23/03	14.49	12/23/03	14.36
07/24/03	14.70	08/24/03	14.65	09/24/03	14.50	10/24/03	14.52	11/24/03	14.21	12/24/03	14.33
07/25/03	14.83	08/25/03	14.62	09/25/03	14.40	10/25/03	14.58	11/25/03	14.62	12/25/03	14.50
07/26/03	14.86	08/26/03	14.57	09/26/03	14.39	10/26/03	14.56	11/26/03	14.50	12/26/03	14.73
07/27/03	14.77	08/27/03	14.52	09/27/03	14.20	10/27/03	14.41	11/27/03	14.47	12/27/03	14.74
07/28/03	14.59	08/28/03	14.56	09/28/03	14.29	10/28/03	14.27	11/28/03	14.23	12/28/03	14.61
07/29/03	14.55	08/29/03	14.58	09/29/03	14.51	10/29/03	14.22	11/29/03	14.51	12/29/03	14.46
07/30/03	14.64	08/30/03	14.60	09/30/03	14.71	10/30/03	14.52	11/30/03	14.55	12/30/03	14.46
07/31/03	14.62	08/31/03	14.69			10/31/03	14.66			12/31/03	14.68

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DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid
01/01/03	15.31	02/01/03	15.44	03/01/03	15.37	04/01/03	15.37	05/01/03	15.30	06/01/03	15.24
01/02/03	15.30	02/02/03	15.38	03/02/03	15.37	04/02/03	15.36	05/02/03	15.29	06/02/03	15.24
01/03/03	15.32	02/03/03	15.36	03/03/03	15.33	04/03/03	15.31	05/03/03	15.31	06/03/03	15.19
01/04/03	15.35	02/04/03	15.41	03/04/03	15.40	04/04/03	15.35	05/04/03	15.30	06/04/03	15.18
01/05/03	15.37	02/05/03	15.45	03/05/03	15.36	04/05/03	15.35	05/05/03	15.19	06/05/03	15.21
01/06/03	15.34	02/06/03	15.43	03/06/03	15.30	04/06/03	15.29	05/06/03	15.26	06/06/03	15.22
01/07/03	15.38	02/07/03	15.42	03/07/03	15.33	04/07/03	15.33	05/07/03	15.21	06/07/03	15.15
01/08/03	15.36	02/08/03	15.45	03/08/03	15.37	04/08/03	15.39	05/08/03	15.25	06/08/03	15.16
01/09/03	15.31	02/09/03	15.42	03/09/03	15.37	04/09/03	15.27	05/09/03	15.19	06/09/03	15.19
01/10/03	15.29	02/10/03	15.34	03/10/03	15.40	04/10/03	15.34	05/10/03	15.19	06/10/03	15.20
01/11/03	15.34	02/11/03	15.37	03/11/03	15.41	04/11/03	15.31	05/11/03	15.13	06/11/03	15.21
01/12/03	15.39	02/12/03	15.44	03/12/03	15.38	04/12/03	15.28	05/12/03	15.22	06/12/03	15.19
01/13/03	15.42	02/13/03	15.42	03/13/03	15.36	04/13/03	15.28	05/13/03	15.26	06/13/03	15.20
01/14/03	15.38	02/14/03	15.40	03/14/03	15.33	04/14/03	15.30	05/14/03	15.23	06/14/03	15.22
01/15/03	15.39	02/15/03	15.39	03/15/03	15.40	04/15/03	15.36	05/15/03	15.21	06/15/03	15.21
01/16/03	15.43	02/16/03	15.36	03/16/03	15.36	04/16/03	15.34	05/16/03	15.23	06/16/03	15.19
01/17/03	15.38	02/17/03	15.36	03/17/03	15.34	04/17/03	15.33	05/17/03	15.23	06/17/03	15.15
01/18/03	15.42	02/18/03	15.42	03/18/03	15.31	04/18/03	15.29	05/18/03	15.22	06/18/03	15.14
01/19/03	15.39	02/19/03	15.40	03/19/03	15.30	04/19/03	15.25	05/19/03	15.21	06/19/03	15.15
01/20/03	15.41	02/20/03	15.43	03/20/03	15.31	04/20/03	15.32	05/20/03	15.23	06/20/03	15.20
01/21/03	15.40	02/21/03	15.34	03/21/03	15.29	04/21/03	15.31	05/21/03	15.25	06/21/03	15.21
01/22/03	15.41	02/22/03	15.21	03/22/03	15.28	04/22/03	15.31	05/22/03	15.19	06/22/03	15.21
01/23/03	15.42	02/23/03	15.40	03/23/03	15.32	04/23/03	15.26	05/23/03	15.17	06/23/03	15.22
01/24/03	15.44	02/24/03	15.34	03/24/03	15.35	04/24/03	15.29	05/24/03	15.21	06/24/03	15.24
01/25/03	15.49	02/25/03	15.44	03/25/03	15.36	04/25/03	15.33	05/25/03	15.19	06/25/03	15.24
01/26/03	15.45	02/26/03	15.38	03/26/03	15.34	04/26/03	15.30	05/26/03	15.22	06/26/03	15.23
01/27/03	15.42	02/27/03	15.35	03/27/03	15.35	04/27/03	15.22	05/27/03	15.24	06/27/03	15.24
01/28/03	15.49	02/28/03	15.39	03/28/03	15.34	04/28/03	15.28	05/28/03	15.22	06/28/03	15.24
01/29/03	15.44			03/29/03	15.34	04/29/03	15.34	05/29/03	15.15	06/29/03	15.26
01/30/03	15.42			03/30/03	15.37	04/30/03	15.31	05/30/03	15.19	06/30/03	15.27
01/31/03	15.45			03/31/03	15.32			05/31/03	15.19		

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DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid
07/01/03	15.26	08/01/03	15.24	09/01/03	15.19	10/1/2003	15.23	11/01/03	15.27	12/01/03	15.27
07/02/03	15.23	08/02/03	15.23	09/02/03	15.15	10/02/03	15.23	11/02/03	15.28	12/02/03	15.31
07/03/03	15.23	08/03/03	15.23	09/03/03	15.13	10/03/03	15.23	11/03/03	15.28	12/03/03	15.30
07/04/03	15.25	08/04/03	15.22	09/04/03	15.12	10/04/03	15.22	11/04/03	15.26	12/04/03	15.26
07/05/03	15.25	08/05/03	15.20	09/05/03	15.15	10/05/03	15.17	11/05/03	15.25	12/05/03	15.20
07/06/03	15.26	08/06/03	15.20	09/06/03	15.16	10/06/03	15.20	11/06/03	15.25	12/06/03	15.28
07/07/03	15.26	08/07/03	15.20	09/07/03	15.17	10/07/03	15.20	11/07/03	15.28	12/07/03	15.27
07/08/03	15.27	08/08/03	15.20	09/08/03	15.17	10/08/03	15.21	11/08/03	15.31	12/08/03	15.24
07/09/03	15.26	08/09/03	15.20	09/09/03	15.18	10/09/03	15.23	11/09/03	15.33	12/09/03	15.24
07/10/03	15.23	08/10/03	15.21	09/10/03	15.19	10/10/03	15.22	11/10/03	15.31	12/10/03	15.12
07/11/03	15.22	08/11/03	15.19	09/11/03	15.20	10/11/03	15.21	11/11/03	15.27	12/11/03	15.25
07/12/03	15.24	08/12/03	15.19	09/12/03	15.18	10/12/03	15.21	11/12/03	15.23	12/12/03	15.27
07/13/03	15.25	08/13/03	15.22	09/13/03	15.19	10/13/03	15.20	11/13/03	15.26	12/13/03	15.27
07/14/03	15.25	08/14/03	15.25	09/14/03	15.19	10/14/03	15.21	11/14/03	15.28	12/14/03	15.18
07/15/03	15.26	08/15/03	15.24	09/15/03	15.19	10/15/03	15.15	11/15/03	15.26	12/15/03	15.27
07/16/03	15.25	08/16/03	15.22	09/16/03	15.21	10/16/03	15.20	11/16/03	15.23	12/16/03	15.21
07/17/03	15.28	08/17/03	15.20	09/17/03	15.21	10/17/03	15.23	11/17/03	15.26	12/17/03	15.22
07/18/03	15.26	08/18/03	15.21	09/18/03	15.20	10/18/03	15.23	11/18/03	15.23	12/18/03	15.16
07/19/03	15.26	08/19/03	15.23	09/19/03	15.17	10/19/03	15.24	11/19/03	15.14	12/19/03	15.21
07/20/03	15.25	08/20/03	15.23	09/20/03	15.21	10/20/03	15.23	11/20/03	15.22	12/20/03	15.29
07/21/03	15.23	08/21/03	15.22	09/21/03	15.22	10/21/03	15.25	11/21/03	15.23	12/21/03	15.28
07/22/03	15.22	08/22/03	15.21	09/22/03	15.17	10/22/03	15.20	11/22/03	15.23	12/22/03	15.25
07/23/03	15.22	08/23/03	15.20	09/23/03	15.18	10/23/03	15.21	11/23/03	15.23	12/23/03	15.18
07/24/03	15.25	08/24/03	15.21	09/24/03	15.19	10/24/03	15.20	11/24/03	15.19	12/24/03	15.25
07/25/03	15.27	08/25/03	15.21	09/25/03	15.18	10/25/03	15.25	11/25/03	15.24	12/25/03	15.28
07/26/03	15.28	08/26/03	15.20	09/26/03	15.18	10/26/03	15.25	11/26/03	15.24	12/26/03	15.31
07/27/03	15.27	08/27/03	15.20	09/27/03	15.14	10/27/03	15.25	11/27/03	15.23	12/27/03	15.28
07/28/03	15.24	08/28/03	15.21	09/28/03	15.15	10/28/03	15.22	11/28/03	15.18	12/28/03	15.27
07/29/03	15.23	08/29/03	15.21	09/29/03	15.19	10/29/03	15.20	11/29/03	15.25	12/29/03	15.22
07/30/03	15.24	08/30/03	15.21	09/30/03	15.23	10/30/03	15.20	11/30/03	15.22	12/30/03	15.36
07/31/03	15.24	08/31/03	15.21			10/31/03	15.24			12/31/03	15.27

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DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid
01/01/03	21.62	02/01/03	21.8	03/01/03	22.08	04/01/03	22.24	05/01/03	22.4	06/01/03	22.66
01/02/03	21.79	02/02/03	21.79	03/02/03	21.9	04/02/03	22.3	05/02/03	22.38	06/02/03	22.73
01/03/03	21.9	02/03/03	21.69	03/03/03	22.15	04/03/03	22.27	05/03/03	22.47	06/03/03	22.48
01/04/03	22.02	02/04/03	21.68	03/04/03	22.07	04/04/03	22.13	05/04/03	22.54	06/04/03	22.52
01/05/03	21.84	02/05/03	22.08	03/05/03	21.82	04/05/03	22.1	05/05/03	22.22	06/05/03	22.69
01/06/03	22.03	02/06/03	22.11	03/06/03	21.89	04/06/03	22.52	05/06/03	22.37	06/06/03	22.74
01/07/03	22.07	02/07/03	21.96	03/07/03	22.18	04/07/03	22.21	05/07/03	22.43	06/07/03	22.53
01/08/03	21.72	02/08/03	22.15	03/08/03	22.18	04/08/03	22.37	05/08/03	22.48	06/08/03	22.58
01/09/03	21.62	02/09/03	22.04	03/09/03	22.16	04/09/03	22.29	05/09/03	22.4	06/09/03	22.66
01/10/03	21.85	02/10/03	21.7	03/10/03	22.32	04/10/03	22.23	05/10/03	22.4	06/10/03	22.76
01/11/03	22.1	02/11/03	21.89	03/11/03	22.21	04/11/03	22.21	05/11/03	22.24	06/11/03	22.67
01/12/03	22.28	02/12/03	22.03	03/12/03	22.12	04/12/03	22.3	05/12/03	22.43	06/12/03	22.6
01/13/03	22.05	02/13/03	22.12	03/13/03	22.07	04/13/03	22.52	05/13/03	22.58	06/13/03	22.64
01/14/03	22.01	02/14/03	22.05	03/14/03	22.32	04/14/03	22.57	05/14/03	22.53	06/14/03	22.7
01/15/03	22.21	02/15/03	21.88	03/15/03	22.18	04/15/03	22.49	05/15/03	22.46	06/15/03	22.73
01/16/03	21.99	02/16/03	21.92	03/16/03	22.09	04/16/03	22.33	05/16/03	22.54	06/16/03	22.78
01/17/03	22.05	02/17/03	21.87	03/17/03	21.98	04/17/03	22.21	05/17/03	22.59	06/17/03	22.76
01/18/03	21.98	02/18/03	22.09	03/18/03	21.9	04/18/03	22.36	05/18/03	22.62	06/18/03	22.72
01/19/03	22.02	02/19/03	22.14	03/19/03	21.99	04/19/03	22.49	05/19/03	22.64	06/19/03	22.65
01/20/03	21.93	02/20/03	22.24	03/20/03	22.03	04/20/03	22.44	05/20/03	22.69	06/20/03	22.79
01/21/03	22.01	02/21/03	21.97	03/21/03	21.93	04/21/03	22.29	05/21/03	22.74	06/21/03	22.81
01/22/03	22.1	02/22/03	21.53	03/22/03	22.18	04/22/03	22.3	05/22/03	22.66	06/22/03	22.8
01/23/03	22.06	02/23/03	21.72	03/23/03	22.24	04/23/03	22.47	05/23/03	22.59	06/23/03	22.81
01/24/03	22.3	02/24/03	21.95	03/24/03	22.27	04/24/03	22.45	05/24/03	22.6	06/24/03	22.87
01/25/03	22.15	02/25/03	22.38	03/25/03	22.21	04/25/03	22.17	05/25/03	22.55	06/25/03	22.9
01/26/03	21.96	02/26/03	22.15	03/26/03	22.23	04/26/03	22.16	05/26/03	22.61	06/26/03	22.8
01/27/03	22.26	02/27/03	21.99	03/27/03	22.26	04/27/03	22.49	05/27/03	22.65	06/27/03	22.82
01/28/03	22.02	02/28/03	22.04	03/28/03	22.19	04/28/03	22.48	05/28/03	22.6	06/28/03	22.84
01/29/03	21.86			03/29/03	22.23	04/29/03	22.44	05/29/03	22.35	06/29/03	22.9
01/30/03	22.07			03/30/03	22.32	04/30/03	22.41	05/30/03	22.47	06/30/03	22.94
01/31/03	22.01			03/31/03	22.4			05/31/03	22.24		

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DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid
07/01/03	22.89	08/01/03	22.9	09/01/03	22.95	10/01/03	22.92	11/01/03	22.71	12/01/03	22.4
07/02/03	22.71	08/02/03	22.89	09/02/03	22.88	10/02/03	22.9	11/02/03	22.65	12/02/03	22.61
07/03/03	22.74	08/03/03	22.88	09/03/03	22.86	10/03/03	22.81	11/03/03	22.62	12/03/03	22.55
07/04/03	22.82	08/04/03	22.85	09/04/03	22.77	10/04/03	22.56	11/04/03	22.5	12/04/03	22.35
07/05/03	22.86	08/05/03	22.81	09/05/03	22.9	10/05/03	22.71	11/05/03	22.45	12/05/03	22.08
07/06/03	22.88	08/06/03	22.83	09/06/03	22.91	10/06/03	22.73	11/06/03	22.51	12/06/03	22.28
07/07/03	22.89	08/07/03	22.82	09/07/03	22.87	10/07/03	22.75	11/07/03	22.64	12/07/03	22.34
07/08/03	22.94	08/08/03	22.86	09/08/03	22.87	10/08/03	22.8	11/08/03	22.78	12/08/03	22.27
07/09/03	22.87	08/09/03	22.88	09/09/03	22.9	10/09/03	22.74	11/09/03	22.84	12/09/03	22.19
07/10/03	22.76	08/10/03	22.92	09/10/03	22.95	10/10/03	22.68	11/10/03	22.69	12/10/03	21.86
07/11/03	22.78	08/11/03	22.88	09/11/03	22.94	10/11/03	22.67	11/11/03	22.45	12/11/03	22.03
07/12/03	22.88	08/12/03	22.94	09/12/03	22.84	10/12/03	22.62	11/12/03	22.26	12/12/03	22.32
07/13/03	22.95	08/13/03	23.07	09/13/03	22.85	10/13/03	22.66	11/13/03	22.48	12/13/03	22.39
07/14/03	22.96	08/14/03	23.18	09/14/03	22.83	10/14/03	22.37	11/14/03	22.58	12/14/03	22.02
07/15/03	22.94	08/15/03	23.09	09/15/03	22.83	10/15/03	22.58	11/15/03	22.47	12/15/03	22.22
07/16/03	22.92	08/16/03	22.91	09/16/03	22.93	10/16/03	22.7	11/16/03	22.37	12/16/03	22.1
07/17/03	23.02	08/17/03	22.83	09/17/03	22.94	10/17/03	22.66	11/17/03	22.48	12/17/03	22.08
07/18/03	22.93	08/18/03	22.92	09/18/03	22.86	10/18/03	22.72	11/18/03	22.27	12/18/03	21.98
07/19/03	22.91	08/19/03	22.98	09/19/03	22.63	10/19/03	22.63	11/19/03	21.96	12/19/03	22.04
07/20/03	22.92	08/20/03	22.98	09/20/03	22.91	10/20/03	22.7	11/20/03	22.34	12/20/03	22.26
07/21/03	22.77	08/21/03	22.94	09/21/03	22.92	10/21/03	22.42	11/21/03	22.37	12/21/03	22.37
07/22/03	22.75	08/22/03	22.88	09/22/03	22.63	10/22/03	22.45	11/22/03	22.34	12/22/03	22.22
07/23/03	22.82	08/23/03	22.9	09/23/03	22.72	10/23/03	22.42	11/23/03	22.33	12/23/03	22
07/24/03	22.95	08/24/03	22.99	09/24/03	22.82	10/24/03	22.66	11/24/03	22.07	12/24/03	22.06
07/25/03	23.06	08/25/03	22.96	09/25/03	22.74	10/25/03	22.66	11/25/03	22.42	12/25/03	22.19
07/26/03	23.08	08/26/03	22.9	09/26/03	22.71	10/26/03	22.61	11/26/03	22.33	12/26/03	22.37
07/27/03	22.99	08/27/03	22.88	09/27/03	22.56	10/27/03	22.48	11/27/03	22.25	12/27/03	22.34
07/28/03	22.85	08/28/03	22.93	09/28/03	22.62	10/28/03	22.37	11/28/03	22.03	12/28/03	22.23
07/29/03	22.83	08/29/03	22.93	09/29/03	22.82	10/29/03	22.37	11/29/03	22.35	12/29/03	22.09
07/30/03	22.91	08/30/03	22.95	09/30/03	22.96	10/30/03	22.6	11/30/03	22.32	12/30/03	22.21
07/31/03	22.89	08/31/03	23.01			10/31/03	22.69			12/31/03	22.28



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DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid
01/01/03	16.35	02/01/03	16.63	03/01/03	16.84	04/01/03	16.81	05/01/03	16.73	06/01/03	16.71
01/02/03	16.56	02/02/03	16.63	03/02/03	16.64	04/02/03	16.88	05/02/03	16.70	06/02/03	16.77
01/03/03	16.69	02/03/03	16.58	03/03/03	16.92	04/03/03	16.84	05/03/03	16.80	06/03/03	16.49
01/04/03	16.83	02/04/03	16.48	03/04/03	16.81	04/04/03	16.66	05/04/03	16.85	06/04/03	16.54
01/05/03	16.61	02/05/03	16.51	03/05/03	16.53	04/05/03	16.64	05/05/03	16.47	06/05/03	16.72
01/06/03	16.85	02/06/03	16.96	03/06/03	16.60	04/06/03	17.08	05/06/03	16.66	06/06/03	16.77
01/07/03	16.86	02/07/03	16.97	03/07/03	16.92	04/07/03	16.72	05/07/03	16.69	06/07/03	16.52
01/08/03	16.48	02/08/03	16.81	03/08/03	16.91	04/08/03	16.89	05/08/03	16.75	06/08/03	16.58
01/09/03	16.37	02/09/03	17.01	03/09/03	16.90	04/09/03	16.80	05/09/03	16.64	06/09/03	16.67
01/10/03	16.65	02/10/03	16.89	03/10/03	17.06	04/10/03	16.72	05/10/03	16.63	06/10/03	16.76
01/11/03	16.94	02/11/03	16.48	03/11/03	16.93	04/11/03	16.65	05/11/03	16.45	06/11/03	16.65
01/12/03	17.13	02/12/03	16.71	03/12/03	16.83	04/12/03	16.72	05/12/03	16.66	06/12/03	16.56
01/13/03	16.87	02/13/03	16.89	03/13/03	16.74	04/13/03	16.96	05/13/03	16.81	06/13/03	16.60
01/14/03	16.83	02/14/03	16.97	03/14/03	17.02	04/14/03	17.01	05/14/03	16.74	06/14/03	16.66
01/15/03	17.05	02/15/03	16.88	03/15/03	16.86	04/15/03	16.92	05/15/03	16.66	06/15/03	16.69
01/16/03	16.79	02/16/03	16.70	03/16/03	16.75	04/16/03	16.73	05/16/03	16.75	06/16/03	16.75
01/17/03	16.88	02/17/03	16.74	03/17/03	16.61	04/17/03	16.58	05/17/03	16.79	06/17/03	16.71
01/18/03	16.78	02/18/03	16.67	03/18/03	16.52	04/18/03	16.76	05/18/03	16.82	06/18/03	16.66
01/19/03	16.83	02/19/03	16.93	03/19/03	16.62	04/19/03	16.87	05/19/03	16.83	06/19/03	16.57
01/20/03	16.74	02/20/03	16.97	03/20/03	16.65	04/20/03	16.82	05/20/03	16.86	06/20/03	16.72
01/21/03	16.84	02/21/03	17.07	03/21/03	16.53	04/21/03	16.65	05/21/03	16.91	06/21/03	16.73
01/22/03	16.93	02/22/03	16.75	03/22/03	16.80	04/22/03	16.66	05/22/03	16.79	06/22/03	16.71
01/23/03	16.94	02/23/03	16.23	03/23/03	16.87	04/23/03	16.85	05/23/03	16.70	06/23/03	16.73
01/24/03	17.20	02/24/03	16.55	03/24/03	16.90	04/24/03	16.83	05/24/03	16.70	06/24/03	16.79
01/25/03	17.03	02/25/03	16.76	03/25/03	16.82	04/25/03	16.50	05/25/03	16.62	06/25/03	16.81
01/26/03	16.82	02/26/03	17.23	03/26/03	16.84	04/26/03	16.49	05/26/03	16.70	06/26/03	16.68
01/27/03	17.14	02/27/03	16.97	03/27/03	16.86	04/27/03	16.85	05/27/03	16.72	06/27/03	16.71
01/28/03	16.88	02/28/03	16.77	03/28/03	16.77	04/28/03	16.85	05/28/03	16.66	06/28/03	16.72
01/29/03	16.70			03/29/03	16.83	04/29/03	16.81	05/29/03	16.36	06/29/03	16.79
01/30/03	16.93			03/30/03	16.90	04/30/03	16.74	05/30/03	16.50	06/30/03	16.83
01/31/03	16.86			03/31/03	16.99			05/31/03	16.21		

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DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid
07/01/03	16.77	08/01/03	16.65	09/01/03	16.64	10/01/03	16.70	11/01/03	16.75	12/01/03	16.68
07/02/03	16.56	08/02/03	16.64	09/02/03	16.56	10/02/03	16.68	11/02/03	16.68	12/02/03	16.92
07/03/03	16.59	08/03/03	16.61	09/03/03	16.54	10/03/03	16.57	11/03/03	16.65	12/03/03	16.85
07/04/03	16.68	08/04/03	16.59	09/04/03	16.44	10/04/03	16.29	11/04/03	16.53	12/04/03	16.62
07/05/03	16.72	08/05/03	16.53	09/05/03	16.60	10/05/03	16.48	11/05/03	16.48	12/05/03	16.30
07/06/03	16.73	08/06/03	16.56	09/06/03	16.60	10/06/03	16.53	11/06/03	16.55	12/06/03	16.57
07/07/03	16.73	08/07/03	16.54	09/07/03	16.56	10/07/03	16.55	11/07/03	16.72	12/07/03	16.64
07/08/03	16.78	08/08/03	16.58	09/08/03	16.55	10/08/03	16.62	11/08/03	16.89	12/08/03	16.55
07/09/03	16.69	08/09/03	16.61	09/09/03	16.60	10/09/03	16.55	11/09/03	16.96	12/09/03	16.47
07/10/03	16.57	08/10/03	16.65	09/10/03	16.66	10/10/03	16.48	11/10/03	16.79	12/10/03	16.06
07/11/03	16.58	08/11/03	16.61	09/11/03	16.65	10/11/03	16.48	11/11/03	16.50	12/11/03	16.33
07/12/03	16.69	08/12/03	16.68	09/12/03	16.52	10/12/03	16.43	11/12/03	16.29	12/12/03	16.67
07/13/03	16.76	08/13/03	16.83	09/13/03	16.55	10/13/03	16.48	11/13/03	16.61	12/13/03	16.76
07/14/03	16.77	08/14/03	16.95	09/14/03	16.52	10/14/03	16.13	11/14/03	16.71	12/14/03	16.31
07/15/03	16.76	08/15/03	16.85	09/15/03	16.52	10/15/03	16.45	11/15/03	16.58	12/15/03	16.58
07/16/03	16.72	08/16/03	16.63	09/16/03	16.64	10/16/03	16.58	11/16/03	16.47	12/16/03	16.42
07/17/03	16.84	08/17/03	16.54	09/17/03	16.65	10/17/03	16.53	11/17/03	16.62	12/17/03	16.42
07/18/03	16.72	08/18/03	16.64	09/18/03	16.56	10/18/03	16.62	11/18/03	16.37	12/18/03	16.31
07/19/03	16.70	08/19/03	16.70	09/19/03	16.30	10/19/03	16.51	11/19/03	16.01	12/19/03	16.40
07/20/03	16.70	08/20/03	16.70	09/20/03	16.64	10/20/03	16.61	11/20/03	16.50	12/20/03	16.67
07/21/03	16.51	08/21/03	16.65	09/21/03	16.64	10/21/03	16.27	11/21/03	16.55	12/21/03	16.79
07/22/03	16.50	08/22/03	16.58	09/22/03	16.29	10/22/03	16.34	11/22/03	16.52	12/22/03	16.62
07/23/03	16.57	08/23/03	16.60	09/23/03	16.42	10/23/03	16.32	11/23/03	16.51	12/23/03	16.35
07/24/03	16.77	08/24/03	16.70	09/24/03	16.54	10/24/03	16.60	11/24/03	16.22	12/24/03	16.45
07/25/03	16.87	08/25/03	16.66	09/25/03	16.45	10/25/03	16.60	11/25/03	16.64	12/25/03	16.61
07/26/03	16.88	08/26/03	16.58	09/26/03	16.42	10/26/03	16.55	11/26/03	16.54	12/26/03	16.82
07/27/03	16.78	08/27/03	16.57	09/27/03	16.24	10/27/03	16.39	11/27/03	16.45	12/27/03	16.77
07/28/03	16.62	08/28/03	16.63	09/28/03	16.33	10/28/03	16.29	11/28/03	16.20	12/28/03	16.64
07/29/03	16.59	08/29/03	16.63	09/29/03	16.59	10/29/03	16.30	11/29/03	16.62	12/29/03	16.48
07/30/03	16.67	08/30/03	16.66	09/30/03	16.75	10/30/03	16.59	11/30/03	16.57	12/30/03	16.66
07/31/03	16.64	08/31/03	16.71			10/31/03	16.70			12/31/03	16.72

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DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid
1/1/2003	11.92	2/1/2003	11.94	3/1/2003	11.93	4/1/2003	11.93	5/1/2003	11.94	6/1/2003	11.93
1/2/2003	11.92	2/2/2003	11.94	3/2/2003	11.93	4/2/2003	11.95	5/2/2003	11.94	6/2/2003	11.93
1/3/2003	11.93	2/3/2003	11.93	3/3/2003	11.93	4/3/2003	11.94	5/3/2003	11.94	6/3/2003	11.94
1/4/2003	11.93	2/4/2003	12.01	3/4/2003	11.93	4/4/2003	11.93	5/4/2003	11.94	6/4/2003	11.97
1/5/2003	11.93	2/5/2003	11.94	3/5/2003	11.93	4/5/2003	11.93	5/5/2003	11.94	6/5/2003	11.94
1/6/2003	11.93	2/6/2003	11.93	3/6/2003	11.93	4/6/2003	11.93	5/6/2003	11.94	6/6/2003	11.94
1/7/2003	11.93	2/7/2003	11.94	3/7/2003	11.93	4/7/2003	11.93	5/7/2003	11.94	6/7/2003	11.94
1/8/2003	11.93	2/8/2003	11.93	3/8/2003	11.93	4/8/2003	11.93	5/8/2003	11.94	6/8/2003	11.94
1/9/2003	11.93	2/9/2003	11.94	3/9/2003	11.93	4/9/2003	11.93	5/9/2003	11.94	6/9/2003	11.93
1/10/2003	11.95	2/10/2003	11.94	3/10/2003	11.93	4/10/2003	11.93	5/10/2003	11.94	6/10/2003	11.94
1/11/2003	11.93	2/11/2003	11.94	3/11/2003	11.93	4/11/2003	11.93	5/11/2003	11.93	6/11/2003	11.93
1/12/2003	11.93	2/12/2003	11.94	3/12/2003	11.94	4/12/2003	11.93	5/12/2003	11.94	6/12/2003	11.94
1/13/2003	11.93	2/13/2003	11.94	3/13/2003	11.94	4/13/2003	11.99	5/13/2003	11.94	6/13/2003	11.94
1/14/2003	11.93	2/14/2003	11.94	3/14/2003	11.94	4/14/2003	11.98	5/14/2003	11.94	6/14/2003	11.93
1/15/2003	11.93	2/15/2003	11.94	3/15/2003	11.94	4/15/2003	11.98	5/15/2003	11.94	6/15/2003	11.93
1/16/2003	11.93	2/16/2003	11.94	3/16/2003	11.94	4/16/2003	11.97	5/16/2003	11.94	6/16/2003	11.93
1/17/2003	11.93	2/17/2003	11.94	3/17/2003	11.94	4/17/2003	11.92	5/17/2003	11.94	6/17/2003	11.93
1/18/2003	11.93	2/18/2003	11.94	3/18/2003	11.94	4/18/2003	11.99	5/18/2003	11.94	6/18/2003	11.93
1/19/2003	11.93	2/19/2003	11.94	3/19/2003	11.94	4/19/2003	11.99	5/19/2003	11.94	6/19/2003	11.93
1/20/2003	11.93	2/20/2003	11.94	3/20/2003	11.94	4/20/2003	11.98	5/20/2003	11.94	6/20/2003	11.93
1/21/2003	11.93	2/21/2003	11.94	3/21/2003	11.94	4/21/2003	11.97	5/21/2003	11.93	6/21/2003	11.93
1/22/2003	11.93	2/22/2003	11.79	3/22/2003	11.94	4/22/2003	11.98	5/22/2003	11.93	6/22/2003	11.93
1/23/2003	11.93	2/23/2003	12.00	3/23/2003	11.94	4/23/2003	11.94	5/23/2003	11.93	6/23/2003	11.93
1/24/2003	11.93	2/24/2003	11.94	3/24/2003	11.94	4/24/2003	11.94	5/24/2003	11.94	6/24/2003	11.93
1/25/2003	11.93	2/25/2003	11.94	3/25/2003	11.94	4/25/2003	11.94	5/25/2003	11.94	6/25/2003	11.93
1/26/2003	11.93	2/26/2003	11.93	3/26/2003	11.94	4/26/2003	11.99	5/26/2003	11.94	6/26/2003	11.93
1/27/2003	11.93	2/27/2003	11.93	3/27/2003	11.94	4/27/2003	11.94	5/27/2003	11.93	6/27/2003	11.93
1/28/2003	11.93	2/28/2003	11.93	3/28/2003	11.94	4/28/2003	11.94	5/28/2003	11.94	6/28/2003	11.93
1/29/2003	11.93			3/29/2003	11.94	4/29/2003	11.94	5/29/2003	11.85	6/29/2003	11.93
1/30/2003	11.93			3/30/2003	11.94	4/30/2003	11.94	5/30/2003	11.98	6/30/2003	11.93
1/31/2003	11.93			3/31/2003	11.93			5/31/2003	11.87		

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DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid
7/1/2003	11.93	8/1/2003	11.93	9/1/2003	11.93	10/1/2003	11.93	11/1/2003	12.00	12/1/2003	12.00
7/2/2003	11.93	8/2/2003	11.93	9/2/2003	11.93	10/2/2003	11.93	11/2/2003	12.00	12/2/2003	12.00
7/3/2003	11.93	8/3/2003	11.93	9/3/2003	11.93	10/3/2003	11.93	11/3/2003	12.00	12/3/2003	12.00
7/4/2003	11.93	8/4/2003	11.93	9/4/2003	11.91	10/4/2003	11.75	11/4/2003	12.00	12/4/2003	12.00
7/5/2003	11.93	8/5/2003	11.93	9/5/2003	11.93	10/5/2003	11.95	11/5/2003	12.02	12/5/2003	11.85
7/6/2003	11.93	8/6/2003	11.93	9/6/2003	11.93	10/6/2003	12.01	11/6/2003	12.00	12/6/2003	12.07
7/7/2003	11.93	8/7/2003	11.93	9/7/2003	11.93	10/7/2003	12.01	11/7/2003	12.00	12/7/2003	12.00
7/8/2003	11.93	8/8/2003	11.93	9/8/2003	11.93	10/8/2003	11.93	11/8/2003	12.00	12/8/2003	12.00
7/9/2003	11.93	8/9/2003	11.93	9/9/2003	11.93	10/9/2003	11.93	11/9/2003	12.00	12/9/2003	12.02
7/10/2003	11.93	8/10/2003	11.93	9/10/2003	11.93	10/10/2003	11.94	11/10/2003	12.00	12/10/2003	11.63
7/11/2003	11.93	8/11/2003	11.93	9/11/2003	11.93	10/11/2003	11.96	11/11/2003	12.00	12/11/2003	11.89
7/12/2003	11.93	8/12/2003	11.93	9/12/2003	11.93	10/12/2003	11.89	11/12/2003	11.80	12/12/2003	12.00
7/13/2003	11.93	8/13/2003	11.93	9/13/2003	11.93	10/13/2003	11.97	11/13/2003	12.00	12/13/2003	12.00
7/14/2003	11.93	8/14/2003	11.93	9/14/2003	11.93	10/14/2003	11.60	11/14/2003	12.00	12/14/2003	11.87
7/15/2003	11.93	8/15/2003	11.93	9/15/2003	11.93	10/15/2003	11.89	11/15/2003	12.00	12/15/2003	12.00
7/16/2003	11.93	8/16/2003	11.93	9/16/2003	11.93	10/16/2003	11.93	11/16/2003	11.99	12/16/2003	11.96
7/17/2003	11.93	8/17/2003	11.93	9/17/2003	11.93	10/17/2003	11.93	11/17/2003	12.00	12/17/2003	11.98
7/18/2003	11.93	8/18/2003	11.93	9/18/2003	11.93	10/18/2003	11.93	11/18/2003	11.87	12/18/2003	11.87
7/19/2003	11.93	8/19/2003	11.93	9/19/2003	11.77	10/19/2003	11.95	11/19/2003	11.46	12/19/2003	11.98
7/20/2003	11.93	8/20/2003	11.93	9/20/2003	11.93	10/20/2003	11.93	11/20/2003	12.03	12/20/2003	12.00
7/21/2003	11.93	8/21/2003	11.93	9/21/2003	11.93	10/21/2003	11.69	11/21/2003	12.00	12/21/2003	12.00
7/22/2003	11.99	8/22/2003	11.93	9/22/2003	11.71	10/22/2003	11.76	11/22/2003	12.06	12/22/2003	12.00
7/23/2003	11.99	8/23/2003	11.93	9/23/2003	11.84	10/23/2003	11.80	11/23/2003	12.00	12/23/2003	11.90
7/24/2003	11.93	8/24/2003	11.93	9/24/2003	12.00	10/24/2003	12.00	11/24/2003	11.73	12/24/2003	12.00
7/25/2003	11.93	8/25/2003	11.93	9/25/2003	11.86	10/25/2003	12.00	11/25/2003	12.00	12/25/2003	12.00
7/26/2003	11.93	8/26/2003	11.93	9/26/2003	11.88	10/26/2003	12.00	11/26/2003	12.00	12/26/2003	12.00
7/27/2003	11.93	8/27/2003	11.93	9/27/2003	11.66	10/27/2003	11.88	11/27/2003	12.00	12/27/2003	12.00
7/28/2003	11.93	8/28/2003	11.93	9/28/2003	11.75	10/28/2003	11.77	11/28/2003	11.70	12/28/2003	12.00
7/29/2003	11.93	8/29/2003	11.93	9/29/2003	11.93	10/29/2003	11.78	11/29/2003	12.00	12/29/2003	0.00
7/30/2003	11.93	8/30/2003	11.93	9/30/2003	0.00	10/30/2003	12.00	11/30/2003	0.00	12/30/2003	0.00
7/31/2003	11.93	8/31/2003	11.93			10/31/2003	0.00			12/31/2003	0.00

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Date	TOC to Liquid	Date	TOC to Liquid	Date	TOC to Liquid	Date	TOC to Liquid	Date	TOC to Liquid	Date	TOC to Liquid
01/01/03	16.96	02/01/03	17.23	03/01/03	17.43	04/01/03	17.38	05/01/03	17.29	06/01/03	17.25
01/02/03	17.15	02/02/03	17.18	03/02/03	17.21	04/02/03	17.46	05/02/03	17.25	06/02/03	17.32
01/03/03	17.29	02/03/03	17.08	03/03/03	17.5	04/03/03	17.42	05/03/03	17.35	06/03/03	17.03
01/04/03	17.42	02/04/03	17.11	03/04/03	17.38	04/04/03	17.24	05/04/03	17.41	06/04/03	17.08
01/05/03	17.21	02/05/03	17.56	03/05/03	17.1	04/05/03	17.22	05/05/03	17.03	06/05/03	17.27
01/06/03	17.44	02/06/03	17.57	03/06/03	17.18	04/06/03	17.66	05/06/03	17.22	06/06/03	17.32
01/07/03	17.46	02/07/03	17.41	03/07/03	17.5	04/07/03	17.28	05/07/03	17.25	06/07/03	17.06
01/08/03	17.08	02/08/03	17.61	03/08/03	17.48	04/08/03	17.46	05/08/03	17.31	06/08/03	17.12
01/09/03	16.98	02/09/03	17.49	03/09/03	17.48	04/09/03	17.36	05/09/03	17.2	06/09/03	17.21
01/10/03	17.25	02/10/03	17.08	03/10/03	17.64	04/10/03	17.27	05/10/03	17.19	06/10/03	17.3
01/11/03	17.53	02/11/03	17.3	03/11/03	17.5	04/11/03	17.21	05/11/03	16.99	06/11/03	17.2
01/12/03	17.73	02/12/03	17.49	03/12/03	17.4	04/12/03	17.27	05/12/03	17.21	06/12/03	17.11
01/13/03	17.46	02/13/03	17.56	03/13/03	17.3	04/13/03	17.51	05/13/03	17.36	06/13/03	17.14
01/14/03	17.42	02/14/03	17.47	03/14/03	17.59	04/14/03	17.57	05/14/03	17.29	06/14/03	17.21
01/15/03	17.64	02/15/03	17.29	03/15/03	17.42	04/15/03	17.48	05/15/03	17.21	06/15/03	17.24
01/16/03	17.38	02/16/03	17.33	03/16/03	17.32	04/16/03	17.28	05/16/03	17.3	06/16/03	17.29
01/17/03	17.47	02/17/03	17.26	03/17/03	17.17	04/17/03	17.13	05/17/03	17.34	06/17/03	17.25
01/18/03	17.37	02/18/03	17.52	03/18/03	17.09	04/18/03	17.31	05/18/03	17.37	06/18/03	17.2
01/19/03	17.43	02/19/03	17.56	03/19/03	17.18	04/19/03	17.44	05/19/03	17.38	06/19/03	17.11
01/20/03	17.34	02/20/03	17.66	03/20/03	17.22	04/20/03	17.38	05/20/03	17.42	06/20/03	17.26
01/21/03	17.43	02/21/03	17.33	03/21/03	17.1	04/21/03	17.2	05/21/03	17.46	06/21/03	17.27
01/22/03	17.52	02/22/03	16.82	03/22/03	17.37	04/22/03	17.22	05/22/03	17.35	06/22/03	17.26
01/23/03	17.54	02/23/03	17.15	03/23/03	17.43	04/23/03	17.42	05/23/03	17.25	06/23/03	17.26
01/24/03	17.8	02/24/03	17.34	03/24/03	17.46	04/24/03	17.38	05/24/03	17.24	06/24/03	17.33
01/25/03	17.62	02/25/03	17.81	03/25/03	17.38	04/25/03	17.04	05/25/03	17.17	06/25/03	17.35
01/26/03	17.42	02/26/03	17.54	03/26/03	17.4	04/26/03	17.06	05/26/03	17.25	06/26/03	17.22
01/27/03	17.74	02/27/03	17.35	03/27/03	17.42	04/27/03	17.42	05/27/03	17.28	06/27/03	17.25
01/28/03	17.47	02/28/03	17.41	03/28/03	17.35	04/28/03	17.4	05/28/03	17.21	06/28/03	17.26
01/29/03	17.29			03/29/03	17.42	04/29/03	17.36	05/29/03	16.92	06/29/03	17.33
01/30/03	17.53			03/30/03	17.48	04/30/03	17.31	05/30/03	17.05	06/30/03	17.38
01/31/03	17.45			03/31/03	17.57			05/31/03	16.76		

**ANNUAL REPORT**  
 Maxey Flats Disposal Site  
 UE-2  
 2003

Date	TOC to Liquid	Date	TOC to Liquid	Date	TOC to Liquid	Date	TOC to Liquid	Date	TOC to Liquid	Date	TOC to Liquid
07/01/03	17.32	08/01/03	17.19	09/01/03	17.18	10/01/03	17.23	11/01/03	17.25	12/01/03	17.21
07/02/03	17.1	08/02/03	17.18	09/02/03	17.1	10/02/03	17.21	11/02/03	17.21	12/02/03	17.45
07/03/03	17.13	08/03/03	17.15	09/03/03	17.07	10/03/03	17.1	11/03/03	17.18	12/03/03	17.38
07/04/03	17.22	08/04/03	17.13	09/04/03	16.97	10/04/03	16.82	11/04/03	17.05	12/04/03	17.14
07/05/03	17.26	08/05/03	17.07	09/05/03	17.13	10/05/03	17.01	11/05/03	17.01	12/05/03	16.83
07/06/03	17.27	08/06/03	17.1	09/06/03	17.13	10/06/03	17.05	11/06/03	17.08	12/06/03	17.1
07/07/03	17.27	08/07/03	17.08	09/07/03	17.09	10/07/03	17.08	11/07/03	17.25	12/07/03	17.16
07/08/03	17.31	08/08/03	17.12	09/08/03	17.09	10/08/03	17.15	11/08/03	17.42	12/08/03	17.07
07/09/03	17.22	08/09/03	17.15	09/09/03	17.13	10/09/03	17.08	11/09/03	17.49	12/09/03	16.99
07/10/03	17.1	08/10/03	17.19	09/10/03	17.19	10/10/03	17.01	11/10/03	17.31	12/10/03	16.59
07/11/03	17.12	08/11/03	17.15	09/11/03	17.18	10/11/03	17.01	11/11/03	17.04	12/11/03	16.86
07/12/03	17.22	08/12/03	17.22	09/12/03	17.06	10/12/03	16.96	11/12/03	16.82	12/12/03	17.2
07/13/03	17.3	08/13/03	17.37	09/13/03	17.08	10/13/03	17.01	11/13/03	17.14	12/13/03	17.28
07/14/03	17.3	08/14/03	17.49	09/14/03	17.05	10/14/03	16.66	11/14/03	17.23	12/14/03	16.84
07/15/03	17.29	08/15/03	17.39	09/15/03	17.05	10/15/03	16.97	11/15/03	17.1	12/15/03	17.11
07/16/03	17.26	08/16/03	17.17	09/16/03	17.18	10/16/03	17.11	11/16/03	16.99	12/16/03	16.94
07/17/03	17.38	08/17/03	17.08	09/17/03	17.18	10/17/03	0	11/17/03	17.15	12/17/03	16.95
07/18/03	17.25	08/18/03	17.17	09/18/03	17.1	10/18/03	0	11/18/03	16.89	12/18/03	16.83
07/19/03	17.23	08/19/03	17.24	09/19/03	16.83	10/19/03	0	11/19/03	16.53	12/19/03	16.93
07/20/03	17.23	08/20/03	17.23	09/20/03	17.17	10/20/03	0	11/20/03	17.03	12/20/03	17.2
07/21/03	17.05	08/21/03	17.19	09/21/03	17.17	10/21/03	0	11/21/03	17.07	12/21/03	17.32
07/22/03	17.03	08/22/03	17.11	09/22/03	16.82	10/22/03	0	11/22/03	17.04	12/22/03	17.15
07/23/03	17.1	08/23/03	17.14	09/23/03	16.95	10/23/03	0	11/23/03	17.04	12/23/03	16.88
07/24/03	17.28	08/24/03	17.23	09/24/03	17.07	10/24/03	17.13	11/24/03	16.75	12/24/03	16.98
07/25/03	17.42	08/25/03	17.2	09/25/03	16.98	10/25/03	17.13	11/25/03	17.17	12/25/03	17.13
07/26/03	17.43	08/26/03	17.12	09/26/03	16.95	10/26/03	17.07	11/26/03	17.07	12/26/03	17.35
07/27/03	17.33	08/27/03	17.1	09/27/03	16.77	10/27/03	16.92	11/27/03	16.98	12/27/03	17.3
07/28/03	17.17	08/28/03	17.16	09/28/03	16.86	10/28/03	16.81	11/28/03	16.73	12/28/03	17.17
07/29/03	17.13	08/29/03	17.16	09/29/03	17.12	10/29/03	16.83	11/29/03	17.15	12/29/03	17
07/30/03	17.22	08/30/03	17.19	09/30/03	17.28	10/30/03	17.12	11/30/03	17.1	12/30/03	17.19
07/31/03	17.18	08/31/03	17.24			10/31/03	17.23			12/31/03	17.25

**ANNUAL REPORT**  
 Maxey Flats Disposal Site  
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 2003

Date	TOC to Liquid	Date	TOC to Liquid	Date	TOC to Liquid	Date	TOC to Liquid	Date	TOC to Liquid	Date	TOC to Liquid
01/01/03	17.76	02/01/03	18.03	03/01/03	17.92	04/01/03	17.95	05/01/03	17.81	06/01/03	17.63
01/02/03	17.76	02/01/03	17.95	03/02/03	17.85	04/02/03	17.94	05/02/03	17.79	06/02/03	17.71
01/03/03	17.76	02/02/03	17.90	03/03/03	17.88	04/03/03	17.92	05/03/03	17.81	06/03/03	17.68
01/04/03	17.78	02/03/03	17.82	03/04/03	17.88	04/04/03	17.86	05/04/03	17.85	06/04/03	17.66
01/05/03	17.85	02/04/03	17.72	03/05/03	17.79	04/05/03	17.79	05/05/03	17.77	06/05/03	17.71
01/06/03	17.81	02/05/03	17.84	03/06/03	17.75	04/06/03	17.93	05/06/03	17.76	06/06/03	17.76
01/07/03	17.87	02/06/03	17.94	03/07/03	17.85	04/07/03	17.90	05/07/03	17.77	06/07/03	17.72
01/08/03	17.95	02/07/03	17.94	03/08/03	17.88	04/08/03	17.92	05/08/03	17.79	06/08/03	17.70
01/09/03	17.83	02/08/03	18.00	03/09/03	17.86	04/09/03	17.90	05/09/03	17.78	06/09/03	17.72
01/10/03	17.71	02/09/03	18.00	03/10/03	17.93	04/10/03	17.86	05/10/03	17.77	06/10/03	17.76
01/11/03	17.73	02/10/03	17.90	03/11/03	17.95	04/11/03	17.81	05/11/03	17.70	06/11/03	17.75
01/12/03	17.85	02/11/03	17.90	03/12/03	17.93	04/12/03	17.78	05/12/03	17.71	06/12/03	17.72
01/13/03	18.00	02/12/03	17.90	03/13/03	17.90	04/13/03	17.84	05/13/03	17.76	06/13/03	17.72
01/14/03	18.01	02/13/03	17.96	03/14/03	17.95	04/14/03	17.91	05/14/03	17.78	06/14/03	17.73
01/15/03	18.00	02/14/03	17.98	03/15/03	17.93	04/15/03	17.93	05/15/03	17.77	06/15/03	17.75
01/16/03	18.07	02/15/03	17.91	03/16/03	17.89	04/16/03	17.88	05/16/03	17.78	06/16/03	17.78
01/17/03	18.05	02/16/03	17.90	03/17/03	17.82	04/17/03	17.80	05/17/03	17.81	06/17/03	17.79
01/18/03	18.01	02/17/03	17.85	03/18/03	17.73	04/18/03	17.80	05/18/03	17.83	06/18/03	17.78
01/19/03	18.00	02/18/03	17.90	03/19/03	17.71	04/19/03	17.85	05/19/03	17.85	06/19/03	17.74
01/20/03	17.98	02/19/03	17.95	03/20/03	17.71	04/20/03	17.86	05/20/03	17.88	06/20/03	17.75
01/21/03	17.92	02/20/03	18.01	03/21/03	17.66	04/21/03	17.81	05/21/03	17.91	06/21/03	17.77
01/22/03	17.92	02/21/03	17.96	03/22/03	17.73	04/22/03	17.78	05/22/03	17.90	06/22/03	17.78
01/23/03	17.98	02/22/03	17.78	03/23/03	17.79	04/23/03	17.83	05/23/03	17.87	06/23/03	17.78
01/24/03	18.02	02/23/03	17.67	03/24/03	17.83	04/24/03	17.86	05/24/03	17.83	06/24/03	17.80
01/25/03	18.14	02/24/03	17.77	03/25/03	17.84	04/25/03	17.77	05/25/03	17.79	06/25/03	17.83
01/26/03	18.14	02/25/03	17.96	03/26/03	17.84	04/26/03	17.68	05/26/03	17.78	06/26/03	17.82
01/27/03	18.08	02/26/03	17.99	03/27/03	17.86	04/27/03	17.75	05/27/03	17.79	06/27/03	17.80
01/28/03	18.17	02/27/03	17.94	03/28/03	17.84	04/28/03	17.80	05/28/03	17.78	06/28/03	17.80
01/29/03	18.10	02/28/03	17.91	03/29/03	17.84	04/29/03	17.82	05/29/03	17.68	06/29/03	17.82
01/30/03	18.04			03/30/03	17.91	04/30/03	17.82	05/30/03	17.65	06/30/03	17.86
01/31/03	18.07			03/31/03	17.96			05/31/03	17.56		

**ANNUAL REPORT**  
 Maxey Flats Disposal Site  
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 2003

Date	TOC to Liquid	Date	TOC to Liquid	Date	TOC to Liquid	Date	TOC to Liquid	Date	TOC to Liquid	Date	TOC to Liquid
07/01/03	17.87	08/01/03	17.78	09/01/03	17.74	10/01/03	17.68	11/01/03	17.69	12/01/03	17.61
07/02/03	17.80	08/02/03	17.77	09/02/03	17.72	10/02/03	17.70	11/02/03	17.73	12/02/03	17.74
07/03/03	17.77	08/03/03	17.76	09/03/03	17.70	10/03/03	17.70	11/03/03	17.73	12/03/03	17.80
07/04/03	17.77	08/04/03	17.74	09/04/03	17.64	10/04/03	17.60	11/04/03	17.70	12/04/03	17.78
07/05/03	17.78	08/05/03	17.71	09/05/03	17.65	10/05/03	17.59	11/05/03	17.66	12/05/03	17.66
07/06/03	17.80	08/06/03	17.69	09/06/03	17.66	10/06/03	17.60	11/06/03	17.67	12/06/03	17.64
07/07/03	17.80	08/07/03	17.68	09/07/03	17.66	10/07/03	17.61	11/07/03	17.72	12/07/03	17.67
07/08/03	17.82	08/08/03	17.68	09/08/03	17.65	10/08/03	17.64	11/08/03	17.79	12/08/03	17.66
07/09/03	17.82	08/09/03	17.69	09/09/03	17.66	10/09/03	17.64	11/09/03	17.87	12/09/03	17.62
07/10/03	17.78	08/10/03	17.70	09/10/03	17.68	10/10/03	17.62	11/10/03	17.88	12/10/03	17.51
07/11/03	17.74	08/11/03	17.70	09/11/03	17.69	10/11/03	17.61	11/11/03	17.80	12/11/03	17.45
07/12/03	17.76	08/12/03	17.72	09/12/03	17.66	10/12/03	17.58	11/12/03	17.68	12/12/03	17.55
07/13/03	17.79	08/13/03	17.78	09/13/03	17.65	10/13/03	17.58	11/13/03	17.66	12/13/03	17.64
07/14/03	17.82	08/14/03	17.87	09/14/03	17.63	10/14/03	17.50	11/14/03	17.71	12/14/03	17.57
07/15/03	17.83	08/15/03	17.90	09/15/03	17.62	10/15/03	17.50	11/15/03	17.70	12/15/03	17.59
07/16/03	17.82	08/16/03	17.85	09/16/03	17.65	10/16/03	17.56	11/16/03	17.66	12/16/03	17.56
07/17/03	17.86	08/17/03	17.77	09/17/03	17.67	10/17/03	17.59	11/17/03	17.67	12/17/03	17.53
07/18/03	17.85	08/18/03	17.76	09/18/03	17.66	10/18/03	17.63	11/18/03	17.61	12/18/03	17.50
07/19/03	17.83	08/19/03	17.77	09/19/03	17.57	10/19/03	17.62	11/19/03	17.46	12/19/03	17.48
07/20/03	17.83	08/20/03	17.78	09/20/03	17.63	10/20/03	17.65	11/20/03	17.50	12/20/03	17.55
07/21/03	17.77	08/21/03	17.77	09/21/03	17.66	10/21/03	17.58	11/21/03	17.53	12/21/03	17.66
07/22/03	17.71	08/22/03	17.74	09/22/03	17.59	10/22/03	17.53	11/22/03	17.54	12/22/03	17.66
07/23/03	17.69	08/23/03	17.71	09/23/03	17.56	10/23/03	17.50	11/23/03	17.55	12/23/03	17.60
07/24/03	17.75	08/24/03	17.74	09/24/03	17.59	10/24/03	17.56	11/24/03	17.47	12/24/03	17.56
07/25/03	17.82	08/25/03	17.74	09/25/03	17.56	10/25/03	17.61	11/25/03	17.57	12/25/03	17.59
07/26/03	17.87	08/26/03	17.72	09/26/03	17.56	10/26/03	17.63	11/26/03	17.57	12/26/03	17.68
07/27/03	17.88	08/27/03	17.70	09/27/03	17.48	10/27/03	17.60	11/27/03	17.57	12/27/03	17.73
07/28/03	17.84	08/28/03	17.70	09/28/03	17.48	10/28/03	17.54	11/28/03	17.49	12/28/03	17.72
07/29/03	17.79	08/29/03	17.70	09/29/03	17.54	10/29/03	17.49	11/29/03	17.55	12/29/03	17.67
07/30/03	17.79	08/30/03	17.71	09/30/03	17.63	10/30/03	17.55	11/30/03	17.58	12/30/03	17.64
07/31/03	17.79	08/31/03	17.74			10/31/03	17.62			12/31/03	17.70



**ANNUAL REPORT**  
 Maxey Flats Disposal Site  
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 2003

DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid
01/01/03	17.94	02/01/03	18.10	03/01/03	18.05	04/01/03	18.12	05/01/03	17.92	06/01/03	17.67
01/02/03	17.92	02/02/03	18.05	03/02/03	17.97	04/02/03	18.06	05/02/03	17.88	06/02/03	17.81
01/03/03	17.92	02/03/03	17.98	03/03/03	17.98	04/03/03	18.04	05/03/03	17.90	06/03/03	17.79
01/04/03	17.99	02/04/03	17.85	03/04/03	18.01	04/04/03	17.97	05/04/03	17.98	06/04/03	17.71
01/05/03	17.98	02/05/03	17.96	03/05/03	17.91	04/05/03	17.86	05/05/03	17.89	06/05/03	17.76
01/06/03	18.02	02/06/03	18.12	03/06/03	17.85	04/06/03	18.06	05/06/03	17.80	06/06/03	17.84
01/07/03	18.14	02/07/03	18.13	03/07/03	17.99	04/07/03	18.08	05/07/03	17.84	06/07/03	17.78
01/08/03	18.03	02/08/03	18.18	03/08/03	18.05	04/08/03	18.06	05/08/03	17.84	06/08/03	17.73
01/09/03	17.88	02/09/03	18.19	03/09/03	17.99	04/09/03	18.02	05/09/03	17.84	06/09/03	17.73
01/10/03	17.87	02/10/03	18.10	03/10/03	18.09	04/10/03	17.96	05/10/03	17.79	06/10/03	17.79
01/11/03	18.01	02/11/03	18.03	03/11/03	18.14	04/11/03	17.88	05/11/03	17.68	06/11/03	17.78
01/12/03	18.18	02/12/03	18.00	03/12/03	18.09	04/12/03	17.84	05/12/03	17.65	06/12/03	17.75
01/13/03	18.22	02/13/03	18.11	03/13/03	18.05	04/13/03	17.93	05/13/03	17.74	06/13/03	17.73
01/14/03	18.20	02/14/03	18.14	03/14/03	18.10	04/14/03	18.06	05/14/03	17.82	06/14/03	17.75
01/15/03	18.25	02/15/03	18.05	03/15/03	18.09	04/15/03	18.09	05/15/03	17.82	06/15/03	17.78
01/16/03	18.25	02/16/03	18.02	03/16/03	18.02	04/16/03	18.00	05/16/03	17.84	06/16/03	17.82
01/17/03	18.19	02/17/03	17.95	03/17/03	17.91	04/17/03	17.88	05/17/03	17.88	06/17/03	17.83
01/18/03	18.19	02/18/03	17.98	03/18/03	17.79	04/18/03	17.85	05/18/03	17.91	06/18/03	17.79
01/19/03	18.16	02/19/03	18.09	03/19/03	17.78	04/19/03	17.94	05/19/03	17.91	06/19/03	17.72
01/20/03	18.10	02/20/03	18.16	03/20/03	17.82	04/20/03	17.94	05/20/03	17.91	06/20/03	17.74
01/21/03	18.10	02/21/03	18.13	03/21/03	17.77	04/21/03	17.84	05/21/03	17.93	06/21/03	17.80
01/22/03	18.13	02/22/03	17.90	03/22/03	17.86	04/22/03	17.76	05/22/03	17.87	06/22/03	17.82
01/23/03	18.16	02/23/03	17.62	03/23/03	17.96	04/23/03	17.84	05/23/03	17.79	06/23/03	17.82
01/24/03	18.28	02/24/03	17.84	03/24/03	18.00	04/24/03	17.92	05/24/03	17.73	06/24/03	17.86
01/25/03	18.33	02/25/03	18.12	03/25/03	18.01	04/25/03	17.84	05/25/03	17.71	06/25/03	17.91
01/26/03	18.29	02/26/03	18.19	03/26/03	17.98	04/26/03	17.69	05/26/03	17.75	06/26/03	17.90
01/27/03	18.31	02/27/03	18.11	03/27/03	18.02	04/27/03	17.80	05/27/03	17.81	06/27/03	17.85
01/28/03	18.31	02/28/03	18.03	03/28/03	17.98	04/28/03	17.93	05/28/03	17.84	06/28/03	17.86
01/29/03	18.21			03/29/03	17.95	04/29/03	17.95	05/29/03	17.73	06/29/03	17.89
01/30/03	18.21			03/30/03	18.07	04/30/03	17.94	05/30/03	17.69	06/30/03	17.95
01/31/03	18.21			03/31/03	18.13			05/31/03	17.60		

**ANNUAL REPORT**  
 Maxey Flats Disposal Site  
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 2003

DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid
07/01/03	17.96	08/01/03	17.83	09/01/03	17.84	10/01/03	17.84	11/01/03	17.85	12/01/03	17.55
07/02/03	17.88	08/02/03	17.82	09/02/03	17.79	10/02/03	17.84	11/02/03	17.89	12/02/03	17.67
07/03/03	17.80	08/03/03	17.81	09/03/03	17.76	10/03/03	17.83	11/03/03	17.88	12/03/03	17.69
07/04/03	17.79	08/04/03	17.78	09/04/03	17.67	10/04/03	17.67	11/04/03	17.82	12/04/03	17.60
07/05/03	17.83	08/05/03	17.75	09/05/03	17.67	10/05/03	17.63	11/05/03	17.75	12/05/03	17.42
07/06/03	17.85	08/06/03	17.73	09/06/03	17.71	10/06/03	17.65	11/06/03	17.76	12/06/03	17.34
07/07/03	17.86	08/07/03	17.72	09/07/03	17.71	10/07/03	17.68	11/07/03	17.82	12/07/03	17.38
07/08/03	17.90	08/08/03	17.72	09/08/03	17.70	10/08/03	17.72	11/08/03	17.93	12/08/03	17.35
07/09/03	17.89	08/09/03	17.74	09/09/03	17.71	10/09/03	17.74	11/09/03	18.04	12/09/03	17.28
07/10/03	17.85	08/10/03	17.77	09/10/03	17.74	10/10/03	17.70	11/10/03	18.04	12/10/03	17.19
07/11/03	17.77	08/11/03	17.78	09/11/03	17.77	10/11/03	17.68	11/11/03	17.92	12/11/03	17.09
07/12/03	17.80	08/12/03	17.79	09/12/03	17.74	10/12/03	17.65	11/12/03	17.74	12/12/03	17.32
07/13/03	17.85	08/13/03	17.87	09/13/03	17.71	10/13/03	17.65	11/13/03	17.65	12/13/03	17.47
07/14/03	17.89	08/14/03	17.98	09/14/03	17.69	10/14/03	17.57	11/14/03	17.79	12/14/03	17.37
07/15/03	17.91	08/15/03	18.03	09/15/03	17.68	10/15/03	17.49	11/15/03	17.81	12/15/03	17.35
07/16/03	17.88	08/16/03	17.95	09/16/03	17.73	10/16/03	17.63	11/16/03	17.75	12/16/03	17.32
07/17/03	17.93	08/17/03	17.81	09/17/03	17.77	10/17/03	17.69	11/17/03	17.74	12/17/03	17.25
07/18/03	17.93	08/18/03	17.78	09/18/03	17.76	10/18/03	17.76	11/18/03	17.70	12/18/03	17.24
07/19/03	17.89	08/19/03	17.81	09/19/03	17.63	10/19/03	17.75	11/19/03	17.49	12/19/03	17.23
07/20/03	17.88	08/20/03	17.84	09/20/03	17.67	10/20/03	17.76	11/20/03	17.50	12/20/03	17.34
07/21/03	17.81	08/21/03	17.83	09/21/03	17.75	10/21/03	17.68	11/21/03	17.60	12/21/03	17.51
07/22/03	17.72	08/22/03	17.79	09/22/03	17.70	10/22/03	17.59	11/22/03	17.64	12/22/03	17.47
07/23/03	17.70	08/23/03	17.75	09/23/03	17.60	10/23/03	17.56	11/23/03	17.66	12/23/03	17.37
07/24/03	17.79	08/24/03	17.79	09/24/03	17.65	10/24/03	17.62	11/24/03	17.57	12/24/03	17.27
07/25/03	17.90	08/25/03	17.81	09/25/03	17.64	10/25/03	17.73	11/25/03	17.69	12/25/03	17.33
07/26/03	17.99	08/26/03	17.80	09/26/03	17.64	10/26/03	17.77	11/26/03	17.70	12/26/03	17.48
07/27/03	18.00	08/27/03	17.75	09/27/03	17.54	10/27/03	17.73	11/27/03	17.70	12/27/03	17.54
07/28/03	17.92	08/28/03	17.74	09/28/03	17.53	10/28/03	17.63	11/28/03	17.60	12/28/03	17.48
07/29/03	17.84	08/29/03	17.76	09/29/03	17.61	10/29/03	17.54	11/29/03	17.61	12/29/03	17.41
07/30/03	17.83	08/30/03	17.77	09/30/03	17.77	10/30/03	17.62	11/30/03	17.62	12/30/03	17.35
07/31/03	17.84	08/31/03	17.83			10/31/03	17.75			12/31/03	17.49

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 Maxey Flats Disposal Site  
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DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid
01/01/03	13.24	02/01/03	13.45	03/01/03	13.71	04/01/03	13.64	05/01/03	13.55	06/01/03	13.52
01/02/03	13.16	02/02/03	13.42	03/02/03	13.47	04/02/03	13.72	05/02/03	13.51	06/02/03	13.59
01/03/03	13.38	02/03/03	13.31	03/03/03	13.79	04/03/03	13.68	05/03/03	13.62	06/03/03	13.29
01/04/03	13.52	02/04/03	13.33	03/04/03	13.66	04/04/03	13.49	05/04/03	13.69	06/04/03	13.34
01/05/03	13.67	02/05/03	13.82	03/05/03	13.36	04/05/03	13.46	05/05/03	13.28	06/05/03	13.54
01/06/03	13.43	02/06/03	13.84	03/06/03	13.44	04/06/03	13.95	05/06/03	13.47	06/06/03	13.59
01/07/03	13.68	02/07/03	13.66	03/07/03	13.79	04/07/03	13.54	05/07/03	13.51	06/07/03	13.31
01/08/03	13.71	02/08/03	13.88	03/08/03	13.77	04/08/03	13.73	05/08/03	13.57	06/08/03	13.38
01/09/03	13.30	02/09/03	13.75	03/09/03	13.75	04/09/03	13.62	05/09/03	13.46	06/09/03	13.47
01/10/03	13.19	02/10/03	13.32	03/10/03	13.93	04/10/03	13.52	05/10/03	13.45	06/10/03	13.57
01/11/03	13.49	02/11/03	13.57	03/11/03	13.78	04/11/03	13.46	05/11/03	13.25	06/11/03	13.46
01/12/03	13.80	02/12/03	13.74	03/12/03	13.67	04/12/03	13.52	05/12/03	13.47	06/12/03	13.36
01/13/03	14.00	02/13/03	13.83	03/13/03	13.58	04/13/03	13.78	05/13/03	13.63	06/13/03	13.40
01/14/03	13.70	02/14/03	13.73	03/14/03	13.88	04/14/03	13.84	05/14/03	13.56	06/14/03	13.47
01/15/03	13.66	02/15/03	13.54	03/15/03	13.70	04/15/03	13.74	05/15/03	13.47	06/15/03	13.50
01/16/03	13.90	02/16/03	13.59	03/16/03	13.58	04/16/03	13.53	05/16/03	13.56	06/16/03	13.56
01/17/03	13.62	02/17/03	13.52	03/17/03	13.44	04/17/03	13.38	05/17/03	13.60	06/17/03	13.52
01/18/03	13.71	02/18/03	13.79	03/18/03	13.34	04/18/03	13.57	05/18/03	13.63	06/18/03	13.46
01/19/03	13.61	02/19/03	13.84	03/19/03	13.44	04/19/03	13.71	05/19/03	13.63	06/19/03	13.36
01/20/03	13.67	02/20/03	13.95	03/20/03	13.49	04/20/03	13.64	05/20/03	13.68	06/20/03	13.53
01/21/03	13.57	02/21/03	13.60	03/21/03	13.35	04/21/03	13.46	05/21/03	13.72	06/21/03	13.54
01/22/03	13.67	02/22/03	13.07	03/22/03	13.65	04/22/03	13.47	05/22/03	13.60	06/22/03	13.52
01/23/03	13.78	02/23/03	13.36	03/23/03	13.71	04/23/03	13.69	05/23/03	13.50	06/23/03	13.53
01/24/03	13.79	02/24/03	13.62	03/24/03	13.73	04/24/03	13.65	05/24/03	13.49	06/24/03	13.60
01/25/03	14.07	02/25/03	14.12	03/25/03	13.65	04/25/03	13.29	05/25/03	13.42	06/25/03	13.63
01/26/03	13.87	02/26/03	13.81	03/26/03	13.66	04/26/03	13.28	05/26/03	13.50	06/26/03	13.50
01/27/03	13.65	02/27/03	13.62	03/27/03	13.69	04/27/03	13.69	05/27/03	13.53	06/27/03	13.52
01/28/03	14.01	02/28/03	13.68	03/28/03	13.61	04/28/03	13.68	05/28/03	13.47	06/28/03	13.54
01/29/03	13.71			03/29/03	13.67	04/29/03	13.62	05/29/03	13.16	06/29/03	13.62
01/30/03	13.52			03/30/03	13.76	04/30/03	13.57	05/30/03	13.30	06/30/03	13.66
01/31/03	13.78			03/31/03	13.84			05/31/03	13.00		

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DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid
07/01/03	13.60	08/01/01	13.43	09/01/03	13.42	10/01/03	13.48	11/01/03	13.53	12/01/03	13.47
07/02/03	13.36	08/02/01	13.44	09/02/03	13.33	10/02/03	13.45	11/02/03	13.46	12/02/03	13.74
07/03/03	13.40	08/03/01	13.43	09/03/03	13.31	10/03/03	13.34	11/03/03	13.42	12/03/03	13.65
07/04/03	13.50	08/04/01	13.40	09/04/03	13.20	10/04/03	13.04	11/04/03	13.29	12/04/03	13.40
07/05/03	13.54	08/05/01	13.37	09/05/03	13.37	10/05/03	13.24	11/05/03	13.24	12/05/03	13.07
07/06/03	13.55	08/06/01	13.31	09/06/03	13.38	10/06/03	13.29	11/06/03	13.33	12/06/03	13.35
07/07/03	13.55	08/07/01	13.34	09/07/03	13.33	10/07/03	13.32	11/07/03	13.51	12/07/03	13.43
07/08/03	13.60	08/08/01	13.32	09/08/03	13.33	10/08/03	13.39	11/08/03	13.68	12/08/03	13.34
07/09/03	13.50	08/09/01	13.36	09/09/03	13.37	10/09/03	13.32	11/09/03	13.76	12/09/03	13.25
07/10/03	13.37	08/10/01	13.39	09/10/03	13.44	10/10/03	13.24	11/10/03	13.56	12/10/03	12.84
07/11/03	13.38	08/11/01	13.43	09/11/03	13.43	10/11/03	13.24	11/11/03	13.27	12/11/03	13.09
07/12/03	13.50	08/12/01	13.39	09/12/03	13.29	10/12/03	13.18	11/12/03	13.05	12/12/03	13.48
07/13/03	13.58	08/13/01	13.46	09/13/03	13.31	10/13/03	13.25	11/13/03	13.38	12/13/03	13.57
07/14/03	13.58	08/14/01	13.62	09/14/03	13.28	10/14/03	12.89	11/14/03	13.50	12/14/03	13.10
07/15/03	13.56	08/15/01	13.75	09/15/03	13.28	10/15/03	13.20	11/15/03	13.36	12/15/03	13.37
07/16/03	13.53	08/16/01	13.64	09/16/03	13.42	10/16/03	13.35	11/16/03	13.24	12/16/03	13.21
07/17/03	13.66	08/17/01	13.41	09/17/03	13.42	10/17/03	13.30	11/17/03	13.40	12/17/03	13.21
07/18/03	13.52	08/18/01	13.31	09/18/03	13.32	10/18/03	13.39	11/18/03	13.13	12/18/03	13.10
07/19/03	13.49	08/19/01	13.42	09/19/03	13.04	10/19/03	13.28	11/19/03	12.76	12/19/03	13.20
07/20/03	13.50	08/20/01	13.48	09/20/03	13.41	10/20/03	13.38	11/20/03	13.28	12/20/03	13.48
07/21/03	13.30	08/21/01	13.48	09/21/03	13.41	10/21/03	13.03	11/21/03	13.33	12/21/03	13.63
07/22/03	13.27	08/22/01	13.43	09/22/03	13.05	10/22/03	13.09	11/22/03	13.30	12/22/03	13.43
07/23/03	13.36	08/23/01	13.35	09/23/03	13.18	10/23/03	13.08	11/23/03	13.30	12/23/03	13.16
07/24/03	13.57	08/24/01	13.37	09/24/03	13.31	10/24/03	13.37	11/24/03	12.99	12/24/03	13.25
07/25/03	13.69	08/25/01	13.48	09/25/03	13.21	10/25/03	13.37	11/25/03	13.44	12/25/03	13.42
07/26/03	13.70	08/26/01	13.44	09/26/03	13.18	10/26/03	13.31	11/26/03	13.33	12/26/03	13.65
07/27/03	13.59	08/27/01	13.35	09/27/03	12.99	10/27/03	13.15	11/27/03	13.24	12/27/03	13.60
07/28/03	13.41	08/28/01	13.33	09/28/03	13.09	10/28/03	13.03	11/28/03	12.97	12/28/03	13.46
07/29/03	13.38	08/29/01	13.40	09/29/03	13.36	10/29/03	13.05	11/29/03	13.40	12/29/03	13.29
07/30/03	13.47	08/30/01	13.40	09/30/03	13.54	10/30/03	13.35	11/30/03	13.36	12/30/03	13.47
07/31/03	13.47	08/31/01	13.43			10/31/03	13.48			12/31/03	13.56

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DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid
01/01/03	12.15	02/01/03	18.89	03/01/03	13.70	04/01/03	15.77	05/01/03	11.68	06/01/03	17.71
01/02/03	10.81	02/02/03	18.66	03/02/03	13.72	04/02/03	16.18	05/02/03	13.61	06/02/03	18.37
01/03/03	11.16	02/03/03	17.83	03/03/03	14.26	04/03/03	16.62	05/03/03	14.57	06/03/03	12.84
01/04/03	11.38	02/04/03	13.83	03/04/03	14.65	04/04/03	17.01	05/04/03	14.94	06/04/03	10.65
01/05/03	11.62	02/05/03	13.75	03/05/03	14.92	04/05/03	17.40	05/05/03	9.09	06/05/03	13.87
01/06/03	12.10	02/06/03	14.27	03/06/03	15.28	04/06/03	17.81	05/06/03	7.37	06/06/03	15.89
01/07/03	12.56	02/07/03	14.82	03/07/03	15.03	04/07/03	13.44	05/07/03	6.62	06/07/03	8.94
01/08/03	12.81	02/08/03	15.52	03/08/03	14.96	04/08/03	10.74	05/08/03	8.36	06/08/03	11.06
01/09/03	13.42	02/09/03	15.89	03/09/03	15.16	04/09/03	6.07	05/09/03	10.73	06/09/03	11.09
01/10/03	14.26	02/10/03	16.07	03/10/03	15.69	04/10/03	7.31	05/10/03	12.22	06/10/03	13.74
01/11/03	14.80	02/11/03	16.37	03/11/03	16.04	04/11/03	8.22	05/11/03	7.12	06/11/03	15.96
01/12/03	15.43	02/12/03	16.53	03/12/03	16.39	04/12/03	8.50	05/12/03	9.17	06/12/03	17.06
01/13/03	15.88	02/13/03	16.70	03/13/03	16.67	04/13/03	10.26	05/13/03	12.72	06/13/03	17.62
01/14/03	16.45	02/14/03	16.72	03/14/03	14.16	04/14/03	11.95	05/14/03	15.10	06/14/03	17.41
01/15/03	17.03	02/15/03	6.61	03/15/03	13.70	04/15/03	13.29	05/15/03	10.56	06/15/03	13.77
01/16/03	17.34	02/16/03	6.42	03/16/03	14.08	04/16/03	14.60	05/16/03	8.63	06/16/03	10.35
01/17/03	17.66	02/17/03	7.56	03/17/03	14.01	04/17/03	15.82	05/17/03	11.79	06/17/03	9.02
01/18/03	17.96	02/18/03	8.99	03/18/03	13.62	04/18/03	15.09	05/18/03	8.69	06/18/03	10.77
01/19/03	18.19	02/19/03	10.58	03/19/03	14.68	04/19/03	13.75	05/19/03	8.30	06/19/03	13.50
01/20/03	18.35	02/20/03	11.45	03/20/03	10.94	04/20/03	14.07	05/20/03	8.51	06/20/03	15.73
01/21/03	18.51	02/21/03	10.35	03/21/03	10.46	04/21/03	14.96	05/21/03	6.79	06/21/03	17.25
01/22/03	18.62	02/22/03	5.71	03/22/03	12.05	04/22/03	15.58	05/22/03	9.81	06/22/03	18.21
01/23/03	18.70	02/23/03	7.59	03/23/03	13.28	04/23/03	16.44	05/23/03	13.58	06/23/03	18.67
01/24/03	18.83	02/24/03	9.23	03/24/03	14.34	04/24/03	17.21	05/24/03	15.75	06/24/03	19.02
01/25/03	18.88	02/25/03	10.57	03/25/03	15.17	04/25/03	17.71	05/25/03	17.12	06/25/03	19.25
01/26/03	18.92	02/26/03	11.49	03/26/03	15.46	04/26/03	18.14	05/26/03	17.20	06/26/03	19.44
01/27/03	19.04	02/27/03	12.48	03/27/03	15.87	04/27/03	18.19	05/27/03	17.89	06/27/03	19.55
01/28/03	19.11	02/28/03	13.44	03/28/03	16.37	04/28/03	17.95	05/28/03	18.41	06/28/03	19.62
01/29/03	19.15			03/29/03	16.88	04/29/03	9.31	05/29/03	16.23	06/29/03	19.68
01/30/03	19.24			03/30/03	15.96	04/30/03	9.14	05/30/03	16.05	06/30/03	19.72
01/31/03	19.14			03/31/03	15.62			05/31/03	16.72		

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DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid
07/01/03	19.72	08/01/03	17.92	09/01/03	6.76	10/01/03	11.39	11/01/03	14.23	12/01/03	8.66
07/02/03	19.70	08/02/03	18.19	09/02/03	6.08	10/02/03	12.91	11/02/03	14.68	12/02/03	10.43
07/03/03	19.69	08/03/03	16.70	09/03/03	6.98	10/03/03	14.07	11/03/03	15.03	12/03/03	11.83
07/04/03	19.71	08/04/03	11.81	09/04/03	8.55	10/04/03	12.90	11/04/03	15.42	12/04/03	12.93
07/05/03	19.73	08/05/03	10.81	09/05/03	12.11	10/05/03	12.51	11/05/03	15.74	12/05/03	11.37
07/06/03	19.74	08/06/03	14.34	09/06/03	14.61	10/06/03	12.35	11/06/03	7.10	12/06/03	8.45
07/07/03	19.01	08/07/03	16.10	09/07/03	16.29	10/07/03	12.37	11/07/03	6.99	12/07/03	8.66
07/08/03	19.27	08/08/03	13.72	09/08/03	17.35	10/08/03	12.49	11/08/03	8.16	12/08/03	9.31
07/09/03	19.42	08/09/03	11.52	09/09/03	17.93	10/09/03	12.67	11/09/03	8.99	12/09/03	10.32
07/10/03	9.96	08/10/03	13.79	09/10/03	18.34	10/10/03	12.90	11/10/03	10.36	12/10/03	11.12
07/11/03	10.14	08/11/03	10.32	09/11/03	18.43	10/11/03	13.18	11/11/03	11.63	12/11/03	8.82
07/12/03	14.74	08/12/03	8.73	09/12/03	18.52	10/12/03	13.47	11/12/03	10.83	12/12/03	9.16
07/13/03	17.29	08/13/03	12.56	09/13/03	18.60	10/13/03	13.83	11/13/03	7.41	12/13/03	9.82
07/14/03	18.39	08/14/03	15.19	09/14/03	18.69	10/14/03	14.12	11/14/03	8.41	12/14/03	7.68
07/15/03	18.78	08/15/03	16.67	09/15/03	18.75	10/15/03	11.73	11/15/03	9.96	12/15/03	8.00
07/16/03	19.08	08/16/03	17.48	09/16/03	18.82	10/16/03	11.38	11/16/03	9.04	12/16/03	8.25
07/17/03	19.31	08/17/03	18.01	09/17/03	18.92	10/17/03	11.38	11/17/03	9.45	12/17/03	7.77
07/18/03	19.46	08/18/03	18.43	09/18/03	19.02	10/18/03	11.60	11/18/03	9.79	12/18/03	8.30
07/19/03	19.55	08/19/03	18.72	09/19/03	19.05	10/19/03	11.87	11/19/03	6.71	12/19/03	8.84
07/20/03	19.62	08/20/03	18.95	09/20/03	19.13	10/20/03	12.22	11/20/03	7.40	12/20/03	8.75
07/21/03	19.66	08/21/03	19.14	09/21/03	19.23	10/21/03	12.48	11/21/03	8.82	12/21/03	8.52
07/22/03	19.62	08/22/03	19.27	09/22/03	19.29	10/22/03	12.86	11/22/03	10.45	12/22/03	8.37
07/23/03	19.59	08/23/03	9.57	09/23/03	10.13	10/23/03	13.28	11/23/03	11.93	12/23/03	8.22
07/24/03	13.48	08/24/03	13.80	09/24/03	14.15	10/24/03	13.77	11/24/03	13.06	12/24/03	7.49
07/25/03	16.77	08/25/03	16.23	09/25/03	16.40	10/25/03	14.22	11/25/03	10.66	12/25/03	8.00
07/26/03	18.27	08/26/03	17.59	09/26/03	17.51	10/26/03	14.63	11/26/03	11.45	12/26/03	8.34
07/27/03	18.70	08/27/03	18.37	09/27/03	17.97	10/27/03	5.48	11/27/03	12.48	12/27/03	8.38
07/28/03	18.99	08/28/03	18.69	09/28/03	11.60	10/28/03	8.25	11/28/03	6.75	12/28/03	8.70
07/29/03	14.23	08/29/03	18.96	09/29/03	14.36	10/29/03	10.80	11/29/03	6.83	12/29/03	9.23
07/30/03	16.67	08/30/03	8.60	09/30/03	16.16	10/30/03	12.52	11/30/03	7.72	12/30/03	7.60
07/31/03	17.95	08/31/03	9.60			10/31/03	13.54			12/31/03	7.84

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DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid
01/01/03	14.93	02/01/03	15.57	03/01/03	16.00	04/01/03	0.00	05/01/03	16.08	06/01/03	15.85
01/02/03	15.10	02/02/03	15.59	03/02/03	15.88	04/02/03	0.00	05/02/03	16.05	06/02/03	15.93
01/03/03	15.17	02/03/03	15.54	03/03/03	16.03	04/03/03	0.00	05/03/03	16.09	06/03/03	15.83
01/04/03	15.31	02/04/03	15.45	03/04/03	16.00	04/04/03	0.00	05/04/03	16.14	06/04/03	15.80
01/05/03	15.22	02/05/03	15.77	03/05/03	15.86	04/05/03	0.00	05/05/03	15.97	06/05/03	15.86
01/06/03	15.31	02/06/03	15.86	03/06/03	0.00	04/06/03	0.00	05/06/03	16.00	06/06/03	15.91
01/07/03	15.45	02/07/03	15.76	03/07/03	0.00	04/07/03	0.00	05/07/03	16.05	06/07/03	15.78
01/08/03	15.19	02/08/03	15.86	03/08/03	0.00	04/08/03	0.00	05/08/03	16.06	06/08/03	15.79
01/09/03	15.07	02/09/03	15.83	03/09/03	0.00	04/09/03	0.00	05/09/03	16.04	06/09/03	15.81
01/10/03	15.22	02/10/03	15.65	03/10/03	0.00	04/10/03	0.00	05/10/03	16.02	06/10/03	15.86
01/11/03	15.42	02/11/03	15.74	03/11/03	0.00	04/11/03	0.00	05/11/03	15.93	06/11/03	15.80
01/12/03	15.58	02/12/03	15.78	03/12/03	0.00	04/12/03	0.00	05/12/03	15.98	06/12/03	15.75
01/13/03	15.52	02/13/03	15.90	03/13/03	0.00	04/13/03	0.00	05/13/03	16.05	06/13/03	15.76
01/14/03	15.48	02/14/03	15.89	03/14/03	0.00	04/14/03	0.00	05/14/03	16.06	06/14/03	15.78
01/15/03	15.57	02/15/03	15.75	03/15/03	0.00	04/15/03	0.00	05/15/03	16.00	06/15/03	15.79
01/16/03	15.54	02/16/03	15.82	03/16/03	0.00	04/16/03	0.00	05/16/03	16.01	06/16/03	15.81
01/17/03	15.46	02/17/03	15.78	03/17/03	0.00	04/17/03	0.00	05/17/03	16.04	06/17/03	15.80
01/18/03	15.52	02/18/03	15.89	03/18/03	0.00	04/18/03	0.00	05/18/03	16.04	06/18/03	15.76
01/19/03	15.49	02/19/03	15.97	03/19/03	0.00	04/19/03	0.00	05/19/03	16.04	06/19/03	15.70
01/20/03	15.42	02/20/03	16.01	03/20/03	0.00	04/20/03	0.00	05/20/03	16.06	06/20/03	15.74
01/21/03	15.50	02/21/03	15.91	03/21/03	0.00	04/21/03	0.00	05/21/03	16.07	06/21/03	15.77
01/22/03	15.60	02/22/03	15.66	03/22/03	0.00	04/22/03	0.00	05/22/03	16.04	06/22/03	15.75
01/23/03	15.65	02/23/03	15.61	03/23/03	0.00	04/23/03	0.00	05/23/03	15.99	06/23/03	15.74
01/24/03	15.78	02/24/03	15.94	03/24/03	0.00	04/24/03	0.00	05/24/03	15.97	06/24/03	15.75
01/25/03	15.74	02/25/03	16.14	03/25/03	0.00	04/25/03	16.00	05/25/03	15.94	06/25/03	15.77
01/26/03	15.63	02/26/03	16.04	03/26/03	0.00	04/26/03	16.00	05/26/03	15.95	06/26/03	15.72
01/27/03	15.76	02/27/03	15.94	03/27/03	0.00	04/27/03	16.14	05/27/03	15.97	06/27/03	15.67
01/28/03	15.68	02/28/03	15.95	03/28/03	0.00	04/28/03	16.15	05/28/03	15.95	06/28/03	15.69
01/29/03	15.59			03/29/03	0.00	04/29/03	16.13	05/29/03	15.80	06/29/03	15.71
01/30/03	15.70			03/30/03	0.00	04/30/03	16.11	05/30/03	15.84	06/30/03	15.74
01/31/03	15.69			03/31/03	0.00			05/31/03	15.71		

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DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid
07/01/03	15.71	08/01/03	15.20	09/01/03	14.77	10/01/03	14.49	11/01/03	14.48	12/01/03	14.67
07/02/03	15.58	08/02/03	15.17	09/02/03	14.70	10/02/03	14.46	11/02/03	14.51	12/02/03	14.88
07/03/03	15.56	08/03/03	15.15	09/03/03	14.67	10/03/03	14.44	11/03/03	14.48	12/03/03	14.91
07/04/03	15.59	08/04/03	15.11	09/04/03	14.57	10/04/03	14.18	11/04/03	14.40	12/04/03	14.79
07/05/03	15.62	08/05/03	15.07	09/05/03	14.61	10/05/03	14.24	11/05/03	14.34	12/05/03	14.56
07/06/03	15.61	08/06/03	15.05	09/06/03	14.65	10/06/03	14.29	11/06/03	14.40	12/06/03	14.60
07/07/03	15.60	08/07/03	15.03	09/07/03	14.64	10/07/03	14.32	11/07/03	14.48	12/07/03	14.74
07/08/03	15.61	08/08/03	15.03	09/08/03	14.61	10/08/03	14.36	11/08/03	14.59	12/08/03	14.75
07/09/03	15.57	08/09/03	15.03	09/09/03	14.61	10/09/03	14.36	11/09/03	14.69	12/09/03	14.70
07/10/03	15.50	08/10/03	15.04	09/10/03	14.63	10/10/03	14.30	11/10/03	14.65	12/10/03	14.54
07/11/03	15.43	08/11/03	15.02	09/11/03	14.64	10/11/03	14.28	11/11/03	14.46	12/11/03	14.46
07/12/03	15.49	08/12/03	15.02	09/12/03	14.57	10/12/03	14.25	11/12/03	14.30	12/12/03	14.78
07/13/03	15.52	08/13/03	15.08	09/13/03	14.53	10/13/03	14.26	11/13/03	14.33	12/13/03	14.93
07/14/03	15.54	08/14/03	15.15	09/14/03	14.52	10/14/03	14.12	11/14/03	14.54	12/14/03	14.71
07/15/03	15.52	08/15/03	15.14	09/15/03	14.50	10/15/03	14.07	11/15/03	14.55	12/15/03	14.77
07/16/03	15.45	08/16/03	14.97	09/16/03	14.54	10/16/03	14.31	11/16/03	14.48	12/16/03	14.78
07/17/03	15.52	08/17/03	14.84	09/17/03	14.56	10/17/03	14.34	11/17/03	14.51	12/17/03	14.72
07/18/03	15.48	08/18/03	14.87	09/18/03	14.52	10/18/03	14.39	11/18/03	14.46	12/18/03	14.75
07/19/03	15.41	08/19/03	14.92	09/19/03	14.30	10/19/03	14.32	11/19/03	14.16	12/19/03	14.75
07/20/03	15.41	08/20/03	14.93	09/20/03	14.43	10/20/03	14.36	11/20/03	14.34	12/20/03	14.87
07/21/03	15.29	08/21/03	14.90	09/21/03	14.51	10/21/03	14.18	11/21/03	14.47	12/21/03	15.05
07/22/03	15.22	08/22/03	14.82	09/22/03	14.38	10/22/03	14.14	11/22/03	14.51	12/22/03	15.01
07/23/03	15.26	08/23/03	14.79	09/23/03	14.30	10/23/03	14.16	11/23/03	14.53	12/23/03	14.87
07/24/03	15.34	08/24/03	14.84	09/24/03	14.39	10/24/03	14.28	11/24/03	14.38	12/24/03	14.81
07/25/03	15.41	08/25/03	14.84	09/25/03	14.36	10/25/03	14.37	11/25/03	14.61	12/25/03	14.92
07/26/03	15.44	08/26/03	14.81	09/26/03	14.36	10/26/03	14.39	11/26/03	14.58	12/26/03	15.07
07/27/03	15.39	08/27/03	14.74	09/27/03	14.20	10/27/03	14.30	11/27/03	14.58	12/27/03	15.15
07/28/03	15.24	08/28/03	14.74	09/28/03	14.23	10/28/03	14.18	11/28/03	14.40	12/28/03	15.11
07/29/03	15.19	08/29/03	14.75	09/29/03	14.32	10/29/03	14.12	11/29/03	14.57	12/29/03	15.03
07/30/03	15.22	08/30/03	14.75	09/30/03	14.45	10/30/03	14.28	11/30/03	14.66	12/30/03	14.93
07/31/03	15.22	08/31/03	14.80			10/31/03	14.40			12/31/03	15.17



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DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid
01/01/03	0.00	02/01/03	18.94	03/01/03	19.13	04/01/03	19.31	05/01/03	19.51	06/01/03	19.68
01/02/03	0.00	02/02/03	18.96	03/02/03	19.10	04/02/03	19.34	05/02/03	19.51	06/02/03	19.68
01/03/03	0.00	02/03/03	18.98	03/03/03	19.19	04/03/03	19.34	05/03/03	19.53	06/03/03	19.63
01/04/03	0.00	02/04/03	19.07	03/04/03	19.18	04/04/03	19.28	05/04/03	19.53	06/04/03	19.65
01/05/03	0.00	02/05/03	19.10	03/05/03	19.07	04/05/03	19.34	05/05/03	19.43	06/05/03	19.63
01/06/03	0.00	02/06/03	19.09	03/06/03	19.13	04/06/03	19.38	05/06/03	19.52	06/06/03	19.55
01/07/03	0.00	02/07/03	19.09	03/07/03	19.21	04/07/03	19.26	05/07/03	19.53	06/07/03	19.49
01/08/03	0.00	02/08/03	19.11	03/08/03	19.21	04/08/03	19.36	05/08/03	19.55	06/08/03	19.41
01/09/03	0.00	02/09/03	19.10	03/09/03	19.22	04/09/03	19.33	05/09/03	19.53	06/09/03	19.19
01/10/03	0.00	02/10/03	19.01	03/10/03	19.23	04/10/03	19.30	05/10/03	19.54	06/10/03	18.97
01/11/03	0.00	02/11/03	19.10	03/11/03	19.22	04/11/03	19.34	05/11/03	19.48	06/11/03	18.84
01/12/03	0.00	02/12/03	19.12	03/12/03	19.21	04/12/03	19.37	05/12/03	19.56	06/12/03	18.74
01/13/03	0.00	02/13/03	19.13	03/13/03	19.20	04/13/03	19.43	05/13/03	19.58	06/13/03	18.66
01/14/03	0.00	02/14/03	19.13	03/14/03	19.25	04/14/03	19.43	05/14/03	19.58	06/14/03	18.57
01/15/03	0.00	02/15/03	19.11	03/15/03	19.24	04/15/03	19.42	05/15/03	19.57	06/15/03	18.48
01/16/03	0.00	02/16/03	19.13	03/16/03	19.23	04/16/03	19.36	05/16/03	19.59	06/16/03	18.40
01/17/03	0.00	02/17/03	19.12	03/17/03	19.18	04/17/03	19.28	05/17/03	19.60	06/17/03	18.22
01/18/03	0.00	02/18/03	19.14	03/18/03	19.20	04/18/03	19.41	05/18/03	19.61	06/18/03	18.08
01/19/03	0.00	02/19/03	19.14	03/19/03	19.25	04/19/03	19.45	05/19/03	19.61	06/19/03	18.02
01/20/03	0.00	02/20/03	19.14	03/20/03	19.26	04/20/03	19.45	05/20/03	19.62	06/20/03	18.04
01/21/03	0.00	02/21/03	19.11	03/21/03	19.23	04/21/03	19.40	05/21/03	19.63	06/21/03	18.07
01/22/03	0.00	02/22/03	19.03	03/22/03	19.29	04/22/03	19.42	05/22/03	19.62	06/22/03	18.11
01/23/03	19.04	02/23/03	19.16	03/23/03	19.30	04/23/03	19.48	05/23/03	19.61	06/23/03	18.16
01/24/03	19.05	02/24/03	19.13	03/24/03	19.31	04/24/03	19.48	05/24/03	19.62	06/24/03	18.21
01/25/03	19.03	02/25/03	19.15	03/25/03	19.31	04/25/03	19.32	05/25/03	19.60	06/25/03	18.24
01/26/03	19.01	02/26/03	19.13	03/26/03	19.32	04/26/03	19.47	05/26/03	19.63	06/26/03	18.25
01/27/03	19.06	02/27/03	19.07	03/27/03	19.32	04/27/03	19.51	05/27/03	19.64	06/27/03	18.28
01/28/03	19.03	02/28/03	19.10	03/28/03	19.32	04/28/03	19.50	05/28/03	19.63	06/28/03	18.30
01/29/03	18.97			03/29/03	19.34	04/29/03	19.51	05/29/03	19.57	06/29/03	18.33
01/30/03	19.06			03/30/03	19.33	04/30/03	19.51	05/30/03	19.63	06/30/03	18.35
01/31/03	19.04			03/31/03	19.34			05/31/03	19.53		

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DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid
07/01/03	18.36	08/01/03	18.64	09/01/03	18.80	10/01/03	18.86	11/01/03	18.99	12/01/03	18.93
07/02/03	18.34	08/02/03	18.65	09/02/03	18.80	10/02/03	18.87	11/02/03	18.99	12/02/03	18.89
07/03/03	18.36	08/03/03	18.65	09/03/03	18.80	10/03/03	18.86	11/03/03	18.99	12/03/03	18.88
07/04/03	18.40	08/04/03	18.65	09/04/03	18.72	10/04/03	18.85	11/04/03	18.99	12/04/03	18.86
07/05/03	18.42	08/05/03	18.65	09/05/03	18.73	10/05/03	18.86	11/05/03	18.99	12/05/03	18.81
07/06/03	18.44	08/06/03	18.66	09/06/03	18.73	10/06/03	18.87	11/06/03	18.99	12/06/03	18.85
07/07/03	18.45	08/07/03	18.66	09/07/03	18.73	10/07/03	18.88	11/07/03	19.00	12/07/03	18.85
07/08/03	18.46	08/08/03	18.68	09/08/03	18.74	10/08/03	18.89	11/08/03	19.01	12/08/03	18.86
07/09/03	18.46	08/09/03	18.69	09/09/03	18.75	10/09/03	18.89	11/09/03	19.01	12/09/03	18.86
07/10/03	18.44	08/10/03	18.70	09/10/03	18.76	10/10/03	18.89	11/10/03	19.00	12/10/03	18.73
07/11/03	18.46	08/11/03	18.70	09/11/03	18.77	10/11/03	18.89	11/11/03	19.00	12/11/03	18.88
07/12/03	18.50	08/12/03	18.71	09/12/03	18.76	10/12/03	18.89	11/12/03	18.99	12/12/03	18.89
07/13/03	18.52	08/13/03	18.73	09/13/03	18.77	10/13/03	18.90	11/13/03	19.01	12/13/03	18.90
07/14/03	18.53	08/14/03	18.74	09/14/03	18.77	10/14/03	18.86	11/14/03	19.02	12/14/03	18.82
07/15/03	18.53	08/15/03	18.73	09/15/03	18.78	10/15/03	18.90	11/15/03	19.02	12/15/03	18.90
07/16/03	18.54	08/16/03	18.73	09/16/03	18.80	10/16/03	18.92	11/16/03	19.02	12/16/03	18.88
07/17/03	18.56	08/17/03	18.72	09/17/03	18.80	10/17/03	18.92	11/17/03	19.03	12/17/03	18.89
07/18/03	18.55	08/18/03	18.74	09/18/03	18.80	10/18/03	18.92	11/18/03	19.03	12/18/03	18.86
07/19/03	18.55	08/19/03	18.75	09/19/03	18.78	10/19/03	18.92	11/19/03	18.93	12/19/03	18.90
07/20/03	18.57	08/20/03	18.75	09/20/03	18.81	10/20/03	18.93	11/20/03	19.02	12/20/03	18.94
07/21/03	18.52	08/21/03	18.75	09/21/03	18.82	10/21/03	18.91	11/21/03	19.01	12/21/03	18.94
07/22/03	18.52	08/22/03	18.75	09/22/03	18.79	10/22/03	18.92	11/22/03	19.00	12/22/03	18.93
07/23/03	18.55	08/23/03	18.76	09/23/03	18.81	10/23/03	18.93	11/23/03	19.00	12/23/03	18.86
07/24/03	18.60	08/24/03	18.77	09/24/03	18.82	10/24/03	18.95	11/24/03	18.98	12/24/03	18.91
07/25/03	18.62	08/25/03	18.77	09/25/03	18.82	10/25/03	18.95	11/25/03	19.01	12/25/03	18.96
07/26/03	18.62	08/26/03	18.77	09/26/03	18.82	10/26/03	18.95	11/26/03	19.00	12/26/03	18.98
07/27/03	18.62	08/27/03	18.78	09/27/03	18.80	10/27/03	18.94	11/27/03	19.00	12/27/03	18.98
07/28/03	18.61	08/28/03	18.79	09/28/03	18.82	10/28/03	18.94	11/28/03	18.99	12/28/03	18.97
07/29/03	18.61	08/29/03	18.79	09/29/03	18.85	10/29/03	18.95	11/29/03	18.99	12/29/03	18.94
07/30/03	18.63	08/30/03	18.80	09/30/03	18.86	10/30/03	18.97	11/30/03	18.96	12/30/03	19.00
07/31/03	18.63	08/31/03	18.81			10/31/03	18.98			12/31/03	19.00

**ANNUAL REPORT**  
 Maxey Flats Disposal Site  
 UK-1  
 2003

DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid
01/01/03	13.54	02/01/03	13.79	03/01/03	14.03	04/01/03	13.96	05/01/03	13.79	06/01/03	13.72
01/02/03	13.76	02/02/03	13.80	03/02/03	13.79	04/02/03	13.96	05/02/03	13.75	06/02/03	13.86
01/03/03	13.83	02/03/03	13.69	03/03/03	14.03	04/03/03	13.92	05/03/03	13.84	06/03/03	13.61
01/04/03	14.00	02/04/03	13.53	03/04/03	13.97	04/04/03	13.79	05/04/03	13.95	06/04/03	13.59
01/05/03	13.80	02/05/03	14.08	03/05/03	13.69	04/05/03	13.67	05/05/03	13.59	06/05/03	13.78
01/06/03	13.99	02/06/03	14.20	03/06/03	13.72	04/06/03	14.13	05/06/03	13.68	06/06/03	13.86
01/07/03	14.11	02/07/03	13.99	03/07/03	14.07	04/07/03	13.86	05/07/03	13.79	06/07/03	13.60
01/08/03	13.69	02/08/03	14.19	03/08/03	14.06	04/08/03	13.97	05/08/03	13.80	06/08/03	13.65
01/09/03	13.55	02/09/03	14.10	03/09/03	13.93	04/09/03	13.88	05/09/03	13.77	06/09/03	13.71
01/10/03	13.77	02/10/03	13.70	03/10/03	14.14	04/10/03	13.81	05/10/03	13.75	06/10/03	13.82
01/11/03	14.08	02/11/03	13.94	03/11/03	14.07	04/11/03	13.72	05/11/03	13.55	06/11/03	13.71
01/12/03	14.33	02/12/03	13.97	03/12/03	13.97	04/12/03	13.75	05/12/03	13.70	06/12/03	13.63
01/13/03	14.09	02/13/03	14.17	03/13/03	13.91	04/13/03	13.96	05/13/03	13.85	06/13/03	13.68
01/14/03	14.05	02/14/03	14.10	03/14/03	14.11	04/14/03	14.07	05/14/03	13.84	06/14/03	13.72
01/15/03	14.24	02/15/03	13.84	03/15/03	13.99	04/15/03	14.01	05/15/03	13.74	06/15/03	13.76
01/16/03	14.03	02/16/03	13.93	03/16/03	13.88	04/16/03	14.09	05/16/03	13.79	06/16/03	13.81
01/17/03	14.01	02/17/03	13.84	03/17/03	13.74	04/17/03	14.01	05/17/03	13.84	06/17/03	13.79
01/18/03	14.01	02/18/03	14.03	03/18/03	13.62	04/18/03	13.82	05/18/03	13.85	06/18/03	13.73
01/19/03	14.00	02/19/03	14.17	03/19/03	13.72	04/19/03	13.67	05/19/03	13.87	06/19/03	13.63
01/20/03	13.87	02/20/03	14.23	03/20/03	13.79	04/20/03	13.83	05/20/03	13.92	06/20/03	13.75
01/21/03	13.99	02/21/03	13.95	03/21/03	13.63	04/21/03	13.98	05/21/03	13.94	06/21/03	13.80
01/22/03	14.11	02/22/03	13.43	03/22/03	13.91	04/22/03	13.90	05/22/03	13.87	06/22/03	13.78
01/23/03	14.12	02/23/03	13.46	03/23/03	13.98	04/23/03	13.73	05/23/03	13.79	06/23/03	13.78
01/24/03	14.36	02/24/03	13.93	03/24/03	13.98	04/24/03	13.75	05/24/03	13.75	06/24/03	13.84
01/25/03	14.25	02/25/03	14.36	03/25/03	13.93	04/25/03	13.99	05/25/03	13.70	06/25/03	13.89
01/26/03	14.03	02/26/03	14.16	03/26/03	13.90	04/26/03	13.92	05/26/03	13.74	06/26/03	13.80
01/27/03	14.29	02/27/03	13.96	03/27/03	13.96	04/27/03	13.58	05/27/03	13.79	06/27/03	13.76
01/28/03	14.09	02/28/03	13.95	03/28/03	13.86	04/28/03	13.57	05/28/03	13.76	06/28/03	13.80
01/29/03	13.89			03/29/03	13.85	04/29/03	13.93	05/29/03	13.47	06/29/03	13.87
01/30/03	14.13			03/30/03	14.05	04/30/03	13.92	05/30/03	13.57	06/30/03	13.94
01/31/03	14.06			03/31/03	14.08			05/31/03	13.31		

**ANNUAL REPORT**  
 Maxey Flats Disposal Site  
 UK-1  
 2003

DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid	DATE	TOC to Liquid
07/01/03	13.89	08/01/03	13.76	09/01/03	13.75	10/01/03	13.83	11/01/03	13.87	12/01/03	13.71
07/02/03	13.67	08/02/03	13.73	09/02/03	13.68	10/02/03	13.76	11/02/03	13.82	12/02/03	14.01
07/03/03	13.67	08/03/03	13.74	09/03/03	13.65	10/03/03	13.69	11/03/03	13.77	12/03/03	13.98
07/04/03	13.75	08/04/03	13.68	09/04/03	13.52	10/04/03	13.39	11/04/03	13.64	12/04/03	13.75
07/05/03	13.81	08/05/03	13.64	09/05/03	13.67	10/05/03	13.56	11/05/03	13.59	12/05/03	13.42
07/06/03	13.81	08/06/03	13.66	09/06/03	13.71	10/06/03	13.62	11/06/03	13.69	12/06/03	13.56
07/07/03	13.82	08/07/03	13.65	09/07/03	13.66	10/07/03	13.65	11/07/03	13.84	12/07/03	13.73
07/08/03	13.87	08/08/03	13.68	09/08/03	13.66	10/08/03	13.71	11/08/03	13.98	12/08/03	13.66
07/09/03	13.79	08/09/03	13.71	09/09/03	13.69	10/09/03	13.67	11/09/03	14.06	12/09/03	13.57
07/10/03	13.69	08/10/03	13.76	09/10/03	13.74	10/10/03	13.58	11/10/03	13.92	12/10/03	13.20
07/11/03	13.63	08/11/03	13.72	09/11/03	13.76	10/11/03	13.59	11/11/03	13.64	12/11/03	13.25
07/12/03	13.77	08/12/03	13.79	09/12/03	13.64	10/12/03	13.53	11/12/03	13.42	12/12/03	13.71
07/13/03	13.84	08/13/03	13.92	09/13/03	13.64	10/13/03	13.59	11/13/03	13.63	12/13/03	13.87
07/14/03	13.86	08/14/03	14.05	09/14/03	13.62	10/14/03	13.25	11/14/03	13.86	12/14/03	13.43
07/15/03	13.85	08/15/03	13.98	09/15/03	13.62	10/15/03	13.43	11/15/03	13.72	12/15/03	13.58
07/16/03	13.78	08/16/03	13.75	09/16/03	13.73	10/16/03	13.68	11/16/03	13.61	12/16/03	13.53
07/17/03	13.92	08/17/03	13.63	09/17/03	13.75	10/17/03	0.00	11/17/03	13.71	12/17/03	13.46
07/18/03	13.84	08/18/03	13.73	09/18/03	13.66	10/18/03	0.00	11/18/03	13.49	12/18/03	13.44
07/19/03	13.79	08/19/03	13.81	09/19/03	13.35	10/19/03	0.00	11/19/03	13.13	12/19/03	13.46
07/20/03	13.81	08/20/03	13.81	09/20/03	13.71	10/20/03	0.00	11/20/03	13.52	12/20/03	13.66
07/21/03	13.63	08/21/03	13.77	09/21/03	13.75	10/21/03	0.00	11/21/03	13.64	12/21/03	13.91
07/22/03	13.57	08/22/03	13.67	09/22/03	13.39	10/22/03	0.00	11/22/03	13.62	12/22/03	13.74
07/23/03	13.64	08/23/03	13.68	09/23/03	13.49	10/23/03	0.00	11/23/03	13.63	12/23/03	13.47
07/24/03	13.83	08/24/03	13.80	09/24/03	13.64	10/24/03	13.68	11/24/03	13.28	12/24/03	13.46
07/25/03	13.96	08/25/03	13.76	09/25/03	13.54	10/25/03	13.72	11/25/03	13.76	12/25/03	13.64
07/26/03	14.00	08/26/03	13.71	09/26/03	13.53	10/26/03	13.69	11/26/03	13.62	12/26/03	13.86
07/27/03	13.91	08/27/03	13.66	09/27/03	13.33	10/27/03	13.53	11/27/03	13.58	12/27/03	13.90
07/28/03	13.72	08/28/03	13.71	09/28/03	13.44	10/28/03	13.41	11/28/03	13.28	12/28/03	13.75
07/29/03	13.69	08/29/03	13.72	09/29/03	13.66	10/29/03	13.36	11/29/03	13.62	12/29/03	13.61
07/30/03	13.78	08/30/03	13.75	09/30/03	13.86	10/30/03	13.67	11/30/03	13.68	12/30/03	13.56
07/31/03	13.77	08/31/03	13.83			10/31/03	13.81			12/31/03	13.84

ANNUAL REPORT  
Maxey Flats Disposal Site  
2003

**APPENDIX D5**

**USGS MONITORING WELLS  
SAMPLING DATA  
2003**

**ANNUAL REPORT**  
**Maxey Flats Disposal Site**  
**2003**

DATE	1/22/2003		4/22/2003			7/24/2003		7/24/2003		
	Ground Level to bottom (ft)	Ground Level to liquid (ft)	Ground Level to bottom (ft)	Ground Level to liquid (ft)	Tritium Activity (pCi/ml)	Ground Level to bottom (ft)	Ground Level to liquid (ft)	Ground Level to bottom (ft)	Ground Level to liquid (ft)	Tritium Activity (pCi/ml)
ESI-1	24.10	17.44	24.10	12.71		24.10	17.18	24.10	16.87	
ESI-2	17.50	15.35	17.50	15.12		17.50	14.99	17.50	14.71	
ESI-4	26.30	14.96	26.30	14.67		26.30	14.58	26.30	14.32	
ESI-5	24.50	15.41	24.50	15.29		24.50	15.23	24.50	15.21	
ESI-12	41.30	22.07	41.30	22.36		41.30	22.87	41.30	22.45	
ESI-19	21.65	16.88	21.65	16.75		21.65	16.78	21.65	16.37	
ESI-20						112.14	106.65			
ESI-23						113.10	105.90			
N2B <sup>1</sup>	12.40	11.94	12.40	11.99	No Sample	12.40	11.94	12.40	11.76	368,095 +/- 38
UE-2 <sup>1</sup>	18.50	17.48	18.50	17.30	592,893 +/- 50	18.50	17.16	18.50	16.87	663,065 +/- 51
UF 10a								32.65	30.00	28,749 +/- 11
UE-11	20.15	17.98	20.15	17.79		20.15	17.71	20.15	17.51	
UF-1	21.50	18.14	21.50	17.77		21.50	17.72	21.50	17.59	
UF-2 <sup>1</sup>	17.30	13.73	17.30	13.54	248,884 +/- 32	17.30	13.41	17.30	13.10	294,066 +/- 34
UF-5	21.30	18.63	21.30	15.82		21.30	9.87	21.30	12.97	
UF-37	22.80	15.61	22.80	16.13		22.80	15.36	22.80	14.17	
UF-45	21.90	19.03	21.90	19.46		21.90	18.61	21.90	18.93	
UK-1 <sup>1</sup>	15.70	14.11	15.70	13.79	262,085 +/- 33	15.70	13.71	15.70	13.46	618,276 +/- 50

<sup>1</sup> Wells sampled semi-annually

ANNUAL REPORT  
Maxey Flats Disposal Site  
2003

**APPENDIX E**

**MAXEY FLATS DISPOSAL SITE  
RAINFALL DATA  
2003**

ANNUAL REPORT  
Maxey Flats Disposal Site  
2003

**RAIN FALL DATA 2003**

Date	Inches	Date	Inches	Date	Inches	Date	Inches
01/01/03	0.17	02/13/03	0.01	03/23/03	0.00	04/30/03	0.53
01/02/03	0.81	02/14/03	0.00	03/24/03	0.00	05/01/03	0.00
01/03/03	0.03	02/15/03	0.46	03/25/03	0.00	05/02/03	0.15
01/04/03	0.09	02/16/03	1.36	03/26/03	0.00	05/03/03	0.12
01/05/03	0.02	02/17/03	0.91	03/27/03	0.11	05/04/03	0.00
01/06/03	0.00	02/18/03	0.03	03/28/03	0.00	05/05/03	0.05
01/07/03	0.00	02/19/03	0.00	03/29/03	0.00	05/06/03	2.21
01/08/03	0.01	02/20/03	0.09	03/30/03	0.50	05/07/03	0.00
01/09/03	0.00	02/21/03	0.06	03/31/03	0.00	05/08/03	0.77
01/10/03	0.00	02/22/03	0.07	04/01/03	0.00	05/09/03	0.11
01/11/03	0.00	02/23/03	0.87	04/02/03	0.00	05/10/03	0.08
01/12/03	0.00	02/24/03	0.00	04/03/03	0.00	05/11/03	0.96
01/13/03	0.00	02/25/03	0.07	04/04/03	0.00	05/12/03	0.27
01/14/03	0.00	02/26/03	0.00	04/05/03	0.00	05/13/03	0.00
01/15/03	0.00	02/27/03	0.00	04/06/03	0.30	05/14/03	0.00
01/21/03	0.00	02/28/03	0.13	04/07/03	0.25	05/15/03	0.00
01/22/03	0.00	03/01/03	0.02	04/08/03	0.49	05/16/03	1.36
01/23/03	0.00	03/02/03	0.00	04/09/03	0.32	05/17/03	0.01
01/24/03	0.00	03/03/03	0.00	04/10/03	0.68	05/18/03	0.82
01/25/03	0.00	03/04/03	0.01	04/11/03	0.12	05/19/03	0.46
01/26/03	0.00	03/05/03	0.00	04/12/03	0.12	05/20/03	0.00
01/27/03	0.00	03/06/03	0.02	04/13/03	0.00	05/21/03	1.92
01/28/03	0.00	03/07/03	0.20	04/14/03	0.00	05/22/03	0.08
01/29/03	0.08	03/08/03	0.00	04/15/03	0.00	05/23/03	0.00
01/30/03	0.30	03/09/03	0.00	04/16/03	0.00	05/24/03	0.00
01/31/03	0.00	03/10/03	0.00	04/17/03	0.00	05/25/03	0.00
02/01/03	0.01	03/11/03	0.00	04/18/03	0.45	05/26/03	0.04
02/02/03	0.11	03/12/03	0.00	04/19/03	0.00	05/27/03	0.00
02/03/03	0.00	03/13/03	0.09	04/20/03	0.00	05/28/03	0.00
02/04/03	0.28	03/14/03	0.47	04/21/03	0.04	05/29/03	0.34
02/05/03	0.21	03/15/03	0.00	04/22/03	0.05	05/30/03	0.20
02/06/03	0.00	03/16/03	0.00	04/23/03	0.00	05/31/03	0.00
02/07/03	0.00	03/17/03	0.00	04/24/03	0.00	06/01/03	0.02
02/08/03	0.00	03/18/03	0.00	04/25/03	0.00	06/02/03	0.00
02/09/03	0.00	03/19/03	0.00	04/26/03	0.07	06/03/03	0.00
02/10/03	0.15	03/20/03	0.82	04/27/03	0.29	06/04/03	1.13
02/11/03	0.00	03/21/03	0.21	04/28/03	0.00	06/05/03	0.02
02/12/03	0.00	03/22/03	0.01	04/29/03	0.00	06/06/03	0.00



ANNUAL REPORT  
Maxey Flats Disposal Site  
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**RAIN FALL DATA 2003**

<b>Date</b>	<b>Inches</b>	<b>Date</b>	<b>Inches</b>	<b>Date</b>	<b>Inches</b>	<b>Date</b>	<b>Inches</b>
06/07/03	0.28	07/14/03	0.00	08/19/03	0.00	09/25/03	0.00
06/08/03	1.36	07/15/03	0.00	08/20/03	0.00	09/26/03	0.00
06/09/03	0.36	07/16/03	0.09	08/21/03	0.00	09/27/03	0.00
06/10/03	0.00	07/17/03	0.05	08/22/03	0.00	09/28/03	0.55
06/11/03	0.00	07/18/03	0.00	08/23/03	1.67	09/29/03	0.12
06/12/03	0.19	07/19/03	0.00	08/24/03	0.00	09/30/03	0.00
06/13/03	0.10	07/20/03	0.00	08/25/03	0.00	10/01/03	0.18
06/14/03	0.10	07/21/03	0.00	08/26/03	0.00	10/02/03	0.20
06/15/03	0.39	07/22/03	0.01	08/27/03	0.00	10/03/03	0.00
06/16/03	0.47	07/23/03	0.27	08/28/03	0.00	10/04/03	0.00
06/17/03	0.67	07/24/03	0.53	08/29/03	0.00	10/05/03	0.07
06/18/03	0.15	07/25/03	0.00	08/30/03	0.66	10/06/03	0.00
06/19/03	0.00	07/26/03	0.00	08/31/03	0.90	10/07/03	0.00
06/20/03	0.00	07/27/03	0.00	09/01/03	0.31	10/08/03	0.00
06/21/03	0.00	07/28/03	0.00	09/02/03	0.96	10/09/03	0.00
06/22/03	0.00	07/29/03	0.63	09/03/03	0.47	10/10/03	0.00
06/23/03	0.00	07/30/03	0.00	09/04/03	0.24	10/11/03	0.00
06/24/03	0.00	07/31/03	0.00	09/05/03	0.00	10/12/03	0.00
06/25/03	0.00	08/01/03	0.24	09/06/03	0.00	10/13/03	0.00
06/26/03	0.00	08/02/03	0.00	09/07/03	0.00	10/14/03	0.00
06/27/03	0.00	08/03/03	0.02	09/08/03	0.00	10/15/03	0.42
06/28/03	0.01	08/04/03	0.75	09/09/03	0.00	10/16/03	0.00
06/29/03	0.00	08/05/03	0.38	09/10/03	0.00	10/17/03	0.00
06/30/03	0.00	08/06/03	0.00	09/11/03	0.00	10/18/03	0.05
07/01/03	0.00	08/07/03	0.17	09/12/03	0.00	10/19/03	0.01
07/02/03	0.00	08/08/03	0.15	09/13/03	0.00	10/20/03	0.00
07/03/03	0.00	08/09/03	0.37	09/14/03	0.00	10/21/03	0.00
07/04/03	0.00	08/10/03	0.22	09/15/03	0.01	10/22/03	0.00
07/05/03	0.00	08/11/03	1.18	09/16/03	0.01	10/23/03	0.00
07/06/03	0.00	08/12/03	0.53	09/17/03	0.00	10/24/03	0.00
07/07/03	0.38	08/13/03	0.00	09/18/03	0.00	10/25/03	0.00
07/08/03	0.24	08/13/03	0.00	09/19/03	0.00	10/26/03	0.00
07/09/03	0.01	08/14/03	0.00	09/20/03	0.00	10/27/03	0.72
07/10/03	0.46	08/15/03	0.00	09/21/03	0.00	10/28/03	0.53
07/11/03	1.00	08/16/03	0.00	09/22/03	0.00	10/29/03	0.10
07/12/03	0.00	08/17/03	0.04	09/23/03	1.09	10/30/03	0.01
07/13/03	0.04	08/18/03	0.00	09/24/03	0.00	10/31/03	0.00

ANNUAL REPORT  
Maxey Flats Disposal Site  
2003

**RAIN FALL DATA 2003**

<b>Date</b>	<b>Inches</b>	<b>Date</b>	<b>Inches</b>	<b>Date</b>	<b>Inches</b>
11/01/03	0.00	12/01/03	0.00		
11/02/03	0.00	12/02/03	0.00		
11/03/03	0.00	12/03/03	0.00		
11/04/03	0.00	12/04/03	0.00		
11/05/03	0.00	12/05/03	0.28		
11/06/03	1.47	12/06/03	0.31		
11/07/03	0.14	12/07/03	0.02		
11/08/03	0.01	12/08/03	0.00		
11/09/03	0.00	12/09/03	0.00		
11/10/03	0.00	12/10/03	0.00		
11/11/03	0.00	12/11/03	0.43		
11/12/03	0.09	12/12/03	0.00		
11/13/03	1.53	12/13/03	0.00		
11/14/03	0.00	12/14/03	0.00		
11/15/03	0.00	12/15/03	0.23		
11/16/03	0.25	12/16/03	0.16		
11/17/03	0.02	12/17/03	0.41		
11/18/03	0.00	12/18/03	0.00		
11/19/03	0.73	12/19/03	0.00		
11/20/03	0.23	12/20/03	0.00		
11/21/03	0.00	12/21/03	0.00		
11/22/03	0.00	12/22/03	0.24		
11/23/03	0.00	12/23/03	0.04		
11/24/03	0.00	12/24/03	0.45		
11/25/03	0.31	12/25/03	0.00		
11/26/03	0.00	12/26/03	0.00		
11/27/03	0.00	12/27/03	0.15		
11/28/03	0.16	12/28/03	0.00		
11/29/03	1.21	12/29/03	0.00		
11/30/03	0.00	12/30/03	0.32		
		12/31/03	0.24		

Note: Rainfall data taken from the rain gage located at the East Detention Basin

ANNUAL REPORT  
Maxey Flats Disposal Site  
2003

**APPENDIX F**

**MAXEY FLATS DISPOSAL SITE  
INTERIM REMEDIAL PHASE CAP MAINTENANCE  
LINER REPAIRS  
2003**

# Geo-membrane Liner Repair Form

Date / Time: 5/13/03 1300

Weather Conditions: PCloudy 70°

## Repair Section

Technician: A.D.D. W. Stenger  
 Description of Defect:  
 Assigned Defect ID: 5-13-03-1  
 Panel #: 4-203 P168  
 Location: SW Anchor ditch NEAR Pond  
 Size: Cut 20'-24" long  
 Roll Stock Number: 12472

Check List:	Yes/No
Area cleaned prior to welding	<u>yes</u>
Necessary Material Obtained:	<u>yes</u>
Equipment Operational:	<u>yes</u>

Type of welding: Extrusion? Wedge ?

### Checks To Be Made Prior To Testing:

	Yes/No
Is test seams made at the beginning of seaming period?	<u>yes</u>
Is test seam made of identical material?	<u>yes</u>
Is test seam appropriate length and width?	<u>yes</u>
Was welder cleaned after completion?	<u>yes</u>

### Checks To Be Upon Completion of repair:

Welder cleaned after use?	<u>yes</u>
Area cleaned of all material scraps and equipment?	<u>yes</u>

Seaming Apparatus ID: Leister Extrusion 62R S/N 456149  
 Seaming Personnel: A.D.D. W. Stenger  
 Assigned Defect ID: 5-13-03-1

## QC Section

Check List:	Yes/No
Area cleaned prior to repairs:	<u>YES</u>
Equipment Check:	<u>YES</u>
Area cleaned upon completion:	<u>YES</u>

### Checks To Be Made Prior To Testing:

	Yes/No
Have the specimens been tested for shear and peel?	<u>YES</u>
Have the results of test seam samples been obtained and verified?	<u>YES</u>

### Retest

If specimens failed, have the deficiencies of the seamer and seaming apparatus been corrected and retested?	<u>N/A</u>
After repairing the deficiencies, have new test seams been successfully tested.	<u>N/A</u>

QC Technician: Roger Brown

Note: Answers of "no" must be explained \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Photo attached

**GEOMEMBRANE SEAM FIELD TESTING (VACUUM BOX TEST)**

Date: 5/13/03

Weather Conditions Partly Cloudy 70°

Project Name: Maxey Flats

QC Inspector: Roger Brown Roger Brown  
Printed Name/Signature

Field Testing Apparatus ID: MODEL 3332.5 A

**Checks To Be Made Prior To Testing**

Is the liner surface clean? Yes/No  
YES

Is the soap solution rich enough to create bubbles?  
YES

Is the vacuum box surface clear and clean?  
YES

Is the vacuum box equipped with a vacuum gauge?  
YES

**Checks To Be Made During Testing**

Does the vacuum box completely seal the area? Yes/No  
YES

Does the vacuum box pressure range from 3 to 5 psi?  
YES

Have all the defects detected been marked on the panel and recorded on the following table?  
YES

**Retest**

After repair, have all the defects been successfully retested? Yes/No  
N/A

Has the QC Inspector recorded all defects on the following table?  
N/A

**Summary**

Is the seam 100% tested? Yes/No  
YES

Have all defects been repaired?  
YES

Panel #	Assigned Defect ID	Type of Repair/Date	Pass/Fail	Additional Repairs Required	Retest/Date	Retest Pass/Fail	Comments
<del>205</del> 168	5/13/03-1	EXTRUSION 5/13/03	PASS				

Answers of 'no' must be explained.

Note: \_\_\_\_\_



Defective Area

5/13/03



Repaired Area

5/13/03

# Geomembrane Liner Repair Form

Date / Time: 7/1/03 1400

Weather Conditions: 80°F Sunny

## Repair Section

Technician: Roger Brown  
Description of Defect:  
Assigned Defect ID: 070103-1  
Panel #: LP-125  
Location: 19-6  
Size: 3 inches  
Roll Stock Number: 12472

Seaming Apparatus ID: 456149  
Seaming Personnel: Roger Brown  
Assigned Defect ID: 070103-1

Check List:	Yes/No
Area cleaned prior to welding	<u>yes</u>
Necessary Material Obtained:	<u>yes</u>
Equipment Operational:	<u>yes</u>

Type of welding: Extrusion? Wedge?

### Checks To Be Made Prior To Repair:

Is test seams made at the beginning of seaming period?	<u>yes</u>
Is test seam made of identical material?	<u>yes</u>
Is test seam appropriate length and width?	<u>yes</u>

### Checks To Be Upon Completion of repair:

Welder cleaned after use?	<u>yes</u>
Area cleaned of all scrap material and equipment?	<u>yes</u>
Vehicle used for transporting material / equipment?	<u>yes</u>
Follow-up liner inspection of vehicle's path?	<u>yes</u>

## QC Section

Check List:	Yes/No
Area cleaned prior to repairs:	<u>yes</u>
Equipment Check:	<u>yes</u>
Area cleaned upon completion:	<u>yes</u>

### Checks To Be Made Prior To Testing:

Have the specimens been tested for shear and peel?	<u>yes</u>
Have the results of test seam samples been obtained and verified?	<u>yes</u>

### Retest

If specimens failed, have the deficiencies of the seamer and seaming apparatus been corrected and retested?	<u>NA</u>
After repairing the deficiencies, have new test seams been successfully tested.	<u>NA</u>

QC Technician: Tom Stewart

Note: Answers of "no" must be explained \_\_\_\_\_

photo attached

# Geo-membrane Liner QA Form

Date / Time: 7/1/03 1415 Weather Conditions: 80°F Sunny QC Technician: Tom Stewart

## Defective area Information:

Patch ID: 070103-1  
Size: 5'x7'  
Type: Extrusion / Leister  
Panel Number: LP-125  
Area of panel: Boat @ 19-6

Type of welding: Extrusion  Wedge   
Type of testing: Vacuum Box  Air Lance

## QC Information

Inspection of material used:  
(Verified from Liner Repair Form)  
Sub-grade check required:  
(If required fill out Attachment 02270-2)

Yes/No  
Yes  
No

Locate defect on large scale map: Yes  
Is the liner surface clean? Yes  
Is the soap solution rich enough to create bubbles? Yes  
Is the vacuum box surface clear and clean? Yes  
Is the vacuum box equipped with a vacuum gauge? Yes

Does the vacuum box completely seal the area? Yes  
Vacuum box pressure ranges from 3 to 5 psi?  
(For vacuum box testing) Yes  
Air Lance pressure set at 15 psi?  
(For wedge welding of seams) N/A  
Was the repaired section 100% tested? Yes

Photo of defective area yes - patched  
Site ID for photo: #19

Additional Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



## VACUUM BOX TESTING OF EXTRUSION WELDED SEAM REPAIRS

Date: 7/1/03

Weather Conditions On Repair Date 80° F Sunny

Project Name: Maxey Flats

Technician: Tom Stewart

QC Personnel: Tom Stewart

Field Testing Apparatus ID: V-Box 3332.5A

### Checks To Be Made Prior To Testing

Is the liner surface clean?	Yes/No <u>yes</u>
Is the soap solution rich enough to create bubbles?	<u>yes</u>
Is the vacuum box surface clear and clean?	<u>yes</u>
Is the vacuum box equipped with a vacuum gauge?	<u>yes</u>

### Checks To Be Made During Testing

Does the vacuum box completely seal the area?	Yes/No <u>yes</u>
Does the vacuum box pressure range from 3 to 5 psi?	<u>yes</u>
Have any defects been detected during testing of the repairs?	<u>No</u>

Enter information concerning any defects on the following table.

### Retest

Have all defects been recorded in the following table? Yes/No  
NA

### Summary

Have all defects been repaired and successfully re-tested? Yes/No  
yes

Panel #	Type of Defect	Type of Repair <small>(Patch, Bead, etc.)</small>	Repair Initial	QC Type	QC Initial	Comments

July 1, 2003

Repairs to Area near Trench 19-6

Defect ID: **070103-1**

Repaired by: Roger Brown

QC Technician: Tom Stewart



## Geo-membrane Liner Repair Form

Date / Time: 9/8/03 1135

Weather Conditions Partly Cloudy 75°

### Repair Section

Technician: Roger Brown

Description of Defect: (blank)

Assigned Defect ID: 090803-1

Panel Number: 180W

Location: SW of Bunker Near Sump 36-3

Size: 4'x16"

Roll Stock Number: 12472

### Check List:

Area cleaned prior to welding

Necessary material obtained

Equipment operational

Type of welding:  Extrusion     Wedge

Yes / No

YES  
YES  
YES

### Checks to be made Prior to Repair:

Is test seams made at the beginning of seaming period?

Is test seams made of identical material?

Is test seams appropriate length and width?

YES  
YES  
YES

### Checks to be made upon Completion of repair:

Is welder cleaned after use?

Is area cleaned of all scrap material and equipment?

Was vehicle used for transporting material/equipment?

Follow-up inspection of liner for vehicle's path of travel?

YES  
YES  
YES  
YES

Note: Answer of "no" must be explained: \_\_\_\_\_

Seaming Apparatus ID: 456149

Seaming Personnel: R. Brown

### QC Section

#### Check List:

Area cleaned prior to repairs:

Equipment check:

Area cleaned upon completion of repair:

Yes / No

YES  
YES  
YES

#### Checks to be made Prior to Testing:

Have the specimens been tested for shear and peel?

Have the results of test seam samples been obtained and verified?

YES  
YES

#### Retest:

If specimens failed, have the deficiencies of the seamer and seaming apparatus been corrected and retested?

After repairing the deficiencies, have new test seams been successfully tested?

NA  
NA

QC Technician: Tom Stewart

## Geo-membrane Liner QA Form

Date / Time: 9/8/03 1135

Weather Conditions Partly Cloudy 75°

QC Technician: Tom Stewart

**Defective area Information:**

Patch ID 090803-1  
 Size: 4'x6"  
 Type: Hole  
 Panel Number 180W  
 Area of Panel: NE of Bunker near Trench 36 (Sump 36-3) SW

Type of welding: Extrusion  Wedge   
 Type of testing: Vacuum Box  Air Lance

Yes / No

Locate defect on large scale map:  
 Is the liner surface clean? yes  
 Is the soap solution rich enough to create bubbles? yes  
 Is the vacuum box surface clear and clean? yes  
 Is the vacuum box equipped with a vacuum gauge? yes

Phot od defective area: yes  
 Site ID for photo: Disk#1 : #20/21

**QC Information**

Inspection of material used: yes  
(Verified from Liner Repair Form)  
 Sub-grade check required: yes<sup>IS</sup> No  
if required fill out

Yes / No

Does the vacuum box completely seal the area? yes  
 Vacuum box pressure ranges from 3 to 15 psi?  
(For Vacuum box testing) yes  
 Air Lance pressure set at 15 psi?  
(For wedge welding of seams) NA  
 Was the repaired section 100% tested? yes

**Water Mattress** NA

Was a sample collected? \_\_\_\_\_

Estimated amount of liquid \_\_\_\_\_

Released  Contained

Note: Leave all section blank if not a water mattress

Additional Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## Geo-membrane Liner Repair Form

Date / Time: 9/8/03 13<sup>00</sup>

Weather Conditions Partly Cloudy 75°

### Repair Section

Technician: Roger Brown

#### Description of Defect:

Assigned Defect ID: 090803-2  
 Panel Number: 347  
 Location: Interior Anchor Ditch #11 <sup>TS</sup> East end of Berm #6  
 Size: 5' x 7"  
 Roll Stock Number: 12472

#### Check List:

	Yes / No
Area cleaned prior to welding	<u>YES</u>
Necessary material obtained	<u>YES</u>
Equipment operational	<u>YES</u>
Type of welding: <input checked="" type="checkbox"/> Extrusion <input type="checkbox"/> Wedge	

#### Checks to be made Prior to Repair:

Is test seams made at the beginning of seaming period?	<u>YES</u>
Is test seams made of identical material?	<u>YES</u>
Is test seams appropriate length and width?	<u>YES</u>

#### Checks to be made upon Completion of repair:

Is welder cleaned after use?	<u>YES</u>
Is area cleaned of all scrap material and equipment?	<u>YES</u>
Was vehicle used for transporting material/equipment?	<u>YES</u>
Follow-up inspection of liner for vehicle's path of travel?	<u>YES</u>

Note: Answer of "no" must be explained: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Seaming Apparatus ID: 456149  
 Seaming Personnel: R. BROWN

### QC Section

#### Check List:

	Yes / No
Area cleaned prior to repairs:	<u>yes</u>
Equipment check:	<u>yes</u>
Area cleaned upon completion of repair:	<u>yes</u>

#### Checks to be made Prior to Testing:

Have the specimens been tested for shear and peel?	<u>yes</u>
Have the results of test seam samples been obtained and verified?	<u>yes</u>

#### Retest:

If specimens failed, have the deficiencies of the seamer and seaming apparatus been corrected and retested?	<u>NA</u>
After repairing the deficiencies, have new test seams been successfully tested?	<u>NA</u>

QC Technician: Tom Stewart

# Geo-membrane Liner QA Form

Date / Time: 9/8/03 13<sup>00</sup>

Weather Conditions Partly Cloudy 75°

QC Technician: T. Stewart

## Defective area Information:

Patch ID 090803-2  
Size: 5'x7'  
Type: Hole  
Panel Number 347  
Area of Panel: East end of Berm #6

Type of welding: Extrusion  Wedge   
Type of testing: Vacuum Box  Air Lance

Yes / No

Locate defect on large scale map:

Is the liner surface clean? yes  
Is the soap solution rich enough to create bubbles? yes  
Is the vacuum box surface clear and clean? yes  
Is the vacuum box equipped with a vacuum gauge? yes

Phot of defective area: yes  
Site ID for photo: Disk #1 : #22

## QC Information

Inspection of material used: yes  
(Verified from Liner Repair Form)  
Sub-grade check required: No  
if required fill out

Yes / No

Does the vacuum box completely seal the area? yes  
Vacuum box pressure ranges from 3 to 15 psi?  
(For Vacuum box testing) yes  
Air Lance pressure set at 15 psi?  
(For wedge welding of seams) NA  
Was the repaired section 100% tested? yes

## Water Mattress

Was a sample collected? yes  
Estimated amount of liquid 5gal yes  
Released  Contained   
Note: Leave all section blank if not a water mattress

Additional Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Geo-membrane Liner Repair Form

Date / Time: 9/8/03 1335

Weather Conditions Partly Cloudy 75°

### Repair Section

Technician: Roger Brown

### Description of Defect:

Assigned Defect ID: 090803-3

Panel Number: 176 Ex.

Location: Direction Beam # 12<sup>th</sup> North end of Anchor Trench #11

Size: 8'x10'

Roll Stock Number: 12472

### Check List:

- Area cleaned prior to welding
- Necessary material obtained
- Equipment operational

Yes / No  
YES  
YES  
YES

Type of welding:  Extrusion     Wedge

### Checks to be made Prior to Repair:

- Is test seams made at the beginning of seaming period?
- Is test seams made of identical material?
- Is test seams appropriate length and width?

YES  
YES  
YES

### Checks to be made upon Completion of repair:

- Is welder cleaned after use?
- Is area cleaned of all scrap material and equipment?
- Was vehicle used for transporting material/equipment?
- Follow-up inspection of liner for vehicle's path of travel?

YES  
YES  
YES  
YES

Note: Answer of "no" must be explained: \_\_\_\_\_

Seaming Apparatus ID: 456149  
 Seaming Personnel: R. Brown

### QC Section

#### Check List:

- Area cleaned prior to repairs:
- Equipment check:
- Area cleaned upon completion of repair:

Yes / No  
YES  
YES  
YES

#### Checks to be made Prior to Testing:

- Have the specimens been tested for shear and peel?
- Have the results of test seam samples been obtained and verified?

YES  
YES

#### Retest:

- If specimens failed, have the deficiencies of the seamer and seaming apparatus been corrected and retested?
- After repairing the deficiencies, have new test seams been successfully tested?

NA  
NA

QC Technician: Tom Stewart

# Geo-membrane Liner QA Form

Date / Time: 9/8/03 1335

Weather Conditions Partly Cloudy 75°

QC Technician: Tom Stewart

### Defective area Information:

Patch ID 090803-3  
Size: 8'x10"  
Type: Hole  
Panel Number 176 EX  
Area of Panel: South end of Anchor Trench #11  
North

Type of welding: Extrusion  Wedge   
Type of testing: Vacuum Box  Air Lance

Yes / No

Locate defect on large scale map:

Is the liner surface clean? yes  
Is the soap solution rich enough to create bubbles? yes  
Is the vacuum box surface clear and clean? yes  
Is the vacuum box equipped with a vacuum gauge? yes

Phot od defective area: Yes  
Site ID for photo: Disk #1 : 23/24

### QC Information

Inspection of material used: yes  
(Verified from Liner Repair Form)  
Sub-grade check required: No  
if required fill out

Yes / No

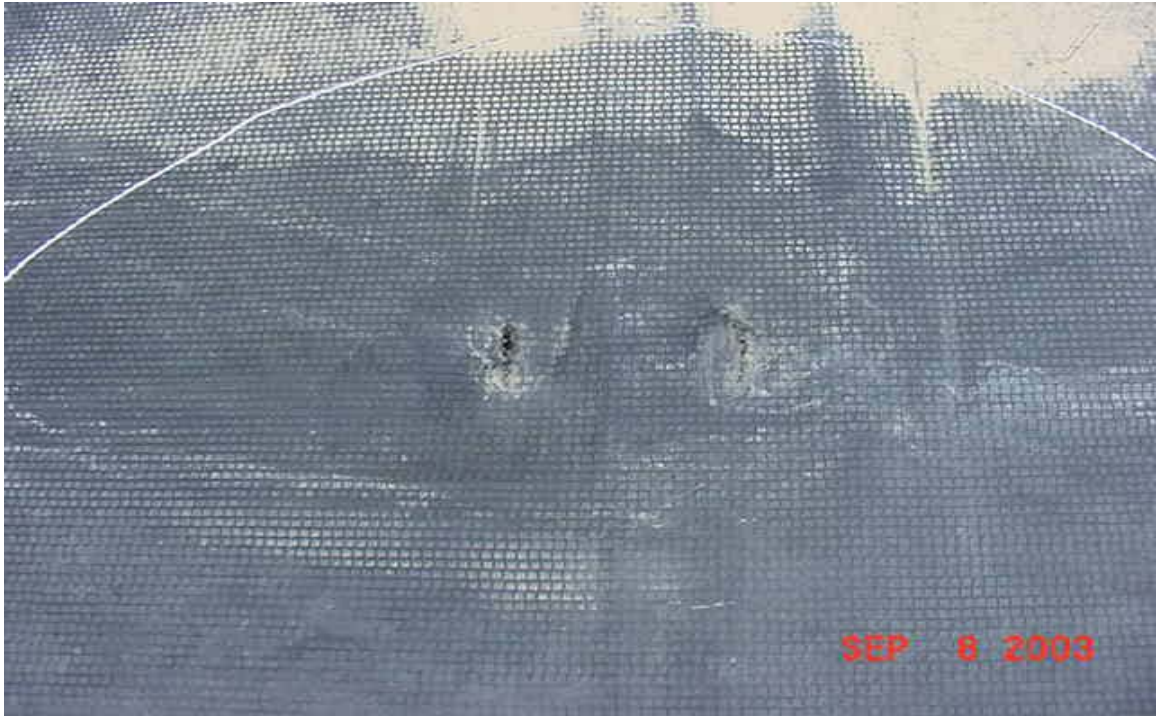
Does the vacuum box completely seal the area? No  
Vacuum box pressure ranges from 3 to 15 psi?  
(For Vacuum box testing) yes  
Air Lance pressure set at 15 psi?  
(For wedge welding of seams) NA  
Was the repaired section 100% tested? yes

### Water Mattress

Was a sample collected? yes  
Estimated amount of liquid 1 gal yes  
Released  Contained   
Note: Leave all section blank if not a water mattress

Additional Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_





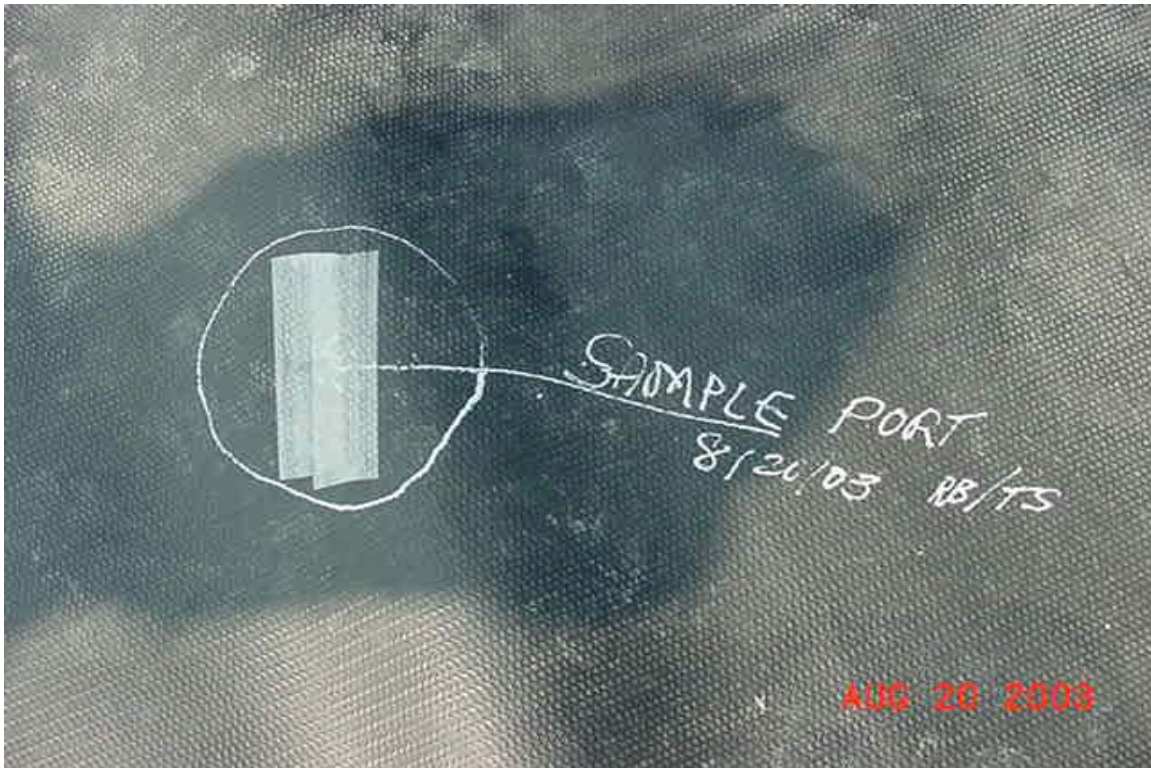
Defective Area

9/8/03



Repaired Area

9/8/03



Defective Area

8/20/03



Repaired Area

9/8/03



Defective Area

9/8/03



Repaired Area

9/8/03

## Geo-membrane Liner Repair Form

Date / Time: 9/24/03 1340

Weather Conditions Fair 70°

### Repair Section

Technician: Roger Brown

### Description of Defect:

Assigned Defect ID: 092403-1

Panel Number: 243

Location: SE Area of Bunker

Size: 4x8" patch

Roll Stock Number: 12472

### Check List:

Area cleaned prior to welding

Yes / No

yes

Necessary material obtained

yes

Equipment operational

yes

Type of welding:  Extrusion  Wedge

### Checks to be made Prior to Repair:

Is test seams made at the beginning of seaming period?

yes

Is test seams made of identical material?

yes

Is test seams appropriate length and width?

yes

### Checks to be made upon Completion of repair:

Is welder cleaned after use?

yes

Is area cleaned of all scrap material and equipment?

yes

Was vehicle used for transporting material/equipment?

yes

Follow-up inspection of liner for vehicle's path of travel?

yes

Note: Answer of "no" must be explained:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Seaming Apparatus ID: Leister CH 6056 / Extusion 456149

Seaming Personnel: R. Brown

### QC Section

#### Check List:

Area cleaned prior to repairs:

Yes / No

yes

Equipment check:

yes

Area cleaned upon completion of repair:

yes

#### Checks to be made Prior to Testing:

Have the specimens been tested for shear and peel?

yes

Have the results of test seam samples been obtained and verified?

yes

#### Retest:

If specimens failed, have the deficiencies of the seamer and seaming apparatus been corrected and retested?

NA

After repairing the deficiencies, have new test seams been successfully tested?

NA

QC Technician: Tom Stewart

## Geo-membrane Liner QA Form

Date / Time: 9/24/03 1340

Weather Conditions Fair 70°

QC Technician: Tom Stewart

**Defective area Information:**

Patch ID: 092403-1  
 Size: 4" slice  
 Type: patch  
 Panel Number: 243  
 Area of Panel: SE Area of Bunker

Type of welding: Extrusion  Wedge   
 Type of testing: Vacuum Box  Air Lance

Yes / No

Locate defect on large scale map:

Is the liner surface clean? yes  
 Is the soap solution rich enough to create bubbles? yes  
 Is the vacuum box surface clear and clean? yes  
 Is the vacuum box equipped with a vacuum gauge? yes

Photo of defective area:  
 Site ID for photo: D2-16, D2-17 yes  
1 SEP 2003

Additional Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**QC Information**

Inspection of material used: yes  
(Verified from Liner Repair Form)  
 Sub-grade check required: NA  
if required fill out

Yes / No

Does the vacuum box completely seal the area? yes  
 Vacuum box pressure ranges from 3 to 15 psi?  
(For Vacuum box testing) yes  
 Air Lance pressure set at 15 psi?  
(For wedge welding of seams) NA  
 Was the repaired section 100% tested? yes

**Water Mattress**

Was a sample collected? NA  
 Estimated amount of liquid \_\_\_\_\_  
 Released  Contained   
Note: Leave all section blank if not a water mattress



Defective Area

9/24/03



Repaired Area

9/24/03

## Geo-membrane Liner Repair Form

Date / Time: 11/3/03 1320

Weather Conditions Clear 75°

### Repair Section

Technician: Roger Brown

### Description of Defect:

Assigned Defect ID: 110303-1

Panel Number: 176

Location: End of Diversion Berm #6

Size: 7x7" patch

Roll Stock Number: 12472

### Check List:

Area cleaned prior to welding	Yes / No
Necessary material obtained	<u>yes</u>
Equipment operational	<u>yes</u>
Type of welding: <input checked="" type="checkbox"/> Extrusion <input type="checkbox"/> Wedge	<u>yes</u>

### Checks to be made Prior to Repair:

Is test seams made at the beginning of seaming period?	<u>yes</u>
Is test seams made of identical material?	<u>yes</u>
Is test seams appropriate length and width?	<u>yes</u>

### Checks to be made upon Completion of repair:

Is welder cleaned after use?	<u>yes</u>
Is area cleaned of all scrap material and equipment?	<u>yes</u>
Was vehicle used for transporting material/equipment?	<u>yes</u>
Follow-up inspection of liner for vehicle's path of travel?	<u>yes</u>

Note: Answer of "no" must be explained:

	<u>Welder</u>	<u>Extrusion</u>
Seaming Apparatus ID:	<u>CH 6056</u>	<u>456149</u>
Seaming Personnel:	<u>Roger Brown</u>	

### QC Section

#### Check List:

Area cleaned prior to repairs:	Yes / No
Equipment check:	<u>yes</u>
Area cleaned upon completion of repair:	<u>yes</u>

#### Checks to be made Prior to Testing:

Have the specimens been tested for shear and peel?	<u>yes</u>
Have the results of test seam samples been obtained and verified?	<u>yes</u>

#### Retest:

If specimens failed, have the deficiencies of the seamer and seaming apparatus been corrected and retested?	<u>NA</u>
After repairing the deficiencies, have new test seams been successfully tested?	<u>NA</u>

QC Technician: Tom Stewart

# Geo-membrane Liner QA Form

Date / Time: 11/3/03 13<sup>20</sup>

Weather Conditions Clear 75°

QC Technician: Tom Stewart

### Defective area information:

Patch ID 110303-1  
Size: 12.7" patch  
Type: patch  
Panel Number 176  
Area of Panel: End of Diversion Basin #6

Type of welding: Extrusion  Wedge  
Type of testing: Vacuum Box  Air Lance

Yes / No

Locate defect on large scale map: yes  
Is the liner surface clean? yes  
Is the soap solution rich enough to create bubbles? yes  
Is the vacuum box surface clear and clean? yes  
Is the vacuum box equipped with a vacuum gauge? yes

Photo of defective area: yes  
Site ID for photo: Disk 2 pic #1, 2

### QC Information

Inspection of material used: yes  
(Verified from Liner Repair Form)  
Sub-grade check required: NA  
If required fill out

Yes / No

Does the vacuum box completely seal the area? yes  
Vacuum box pressure ranges from 3 to 15 psi?  
(For Vacuum box testing) yes  
Air Lance pressure set at 15 psi?  
(For wedge welding of seams) NA  
Was the repaired section 100% tested? yes

### Water Mattress

Was a sample collected? NA  
Estimated amount of liquid  
Released Contained 1  
Note: Leave all section blank if not a water mattress

Additional Comments: \_\_\_\_\_





Defective Area

11/03/03



Repaired Area

11/03/03

ANNUAL REPORT  
Maxey Flats Disposal Site  
2003

**APPENDIX G**

**MAXEY FLATS DISPOSAL SITE  
INTERIM REMEDIAL PHASE CAP MAINTENANCE  
INSPECTION FORMS  
2003**

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
2/3/03 0900	R. Brown	Cold & Cloudy
2/4/03 1045	R. Brown	Cold with morning flurries
2/5/03 0830	R. Brown - D. Pollitt	Cold
2/6/03 0830	D. Pollitt	Cold with snow
2/7/03 0850	D. Pollitt	Cold

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs trepassers	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised.

\* See back for additional information

See Note 1 -> NEAR FRONT - DAMAGE by Contractors by gravel pile.  
 -> Main Entry Gate not installed @ present time  
 -> Fence N.E. of EDB NOT installed @ present time.  
 -> Fence on N. END, between office and Tank building not install @ present time  
 -> Gates need readjusted @ N. Corner & SW Corner.  
 Note 2 -> NE Behind IT trailer fence was damaged by installers.

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
2/10/03 0900	R. Brown	Snowing
2/11/03 0800	R. Brown	Snowing
2/12/03 0720	D. Allitt	Clear and Cold
2/13/03 1045	R. Brown - T. Stewart	Clear, Sunny and Cold
2/14/03 0900	R. Brown -	Cloudy and Cold

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs trepassers	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition. FROM WEEK 2(3-7)03 Things to be completed by Contractor

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised.

\* See back for additional information

NOTE 1 - NORTH EAST damage by contractors @ gravel pile & supplies

NOTE 2 - DAMAGE by installers behind IT trailers. → repaired 2/13/03 by installers  
Main Gate, Gate @ EDB, and main gate on North and east side NOT installed  
Fencing on E. Side — completed 2/14/03 except for gates.  
Subcontractor still not addressed

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
2/17/03 0830	R. Brown	Cold, Cloudy Fence covered with ICE
2/18/03 08:20	D. Pollitt / T. Stewart	" " " " " "
2-19-03 0800	Pollitt	" " " " " "
2/20/03 0900	R. Brown / T. Stewart	Partly Sunny Cold but warming
2/21/03 0930	R. Brown / D. Pollitt	Rain - Light

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs trespassers	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition. 2/20/03 TREE ACROSS FENCE SWEET CORNER - Removed without damage to fence

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised.

\* See back for additional information FROM WK. 2(10-14)03 Note 1 Damage by Contractors @ gravel pile. ~~Repaired~~  
MAIN gate, Gate @ EDB, Main gates on EAST Side, Fence and gates on north end between Tank building and Office building with gates. To be done by contractor

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
2/24/03 0900	R. Brown - D. Pollitt	Cloudy & Windy
2/25/03 0930	R. Brown - D. Pollitt	Cold with snow
2/26/03 0830	R. Brown - D. Pollitt	Cold
2/27/03 0830	R. Brown - D. Pollitt	Cold
2/28/03 0900	R. Brown	Cloudy

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs treapassers	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised.

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
3/3/03 0930	R. Brown / D. Pollitt	COLD & SUNNY
3/4/03 0900	R. Brown	CLEAR & SUNNY
3-5-03 0840	D. Pollitt	Cloudy & Warm 40°
3/6/03 1120	R. Brown / D. Pollitt	Cloudy & Cold 34°
3/7/03 0700	R. Brown	Cloudy & Cold 27°

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs treapassers	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised.

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
3/10/03 0830	T. STEWART / M. KORNMAN	Clear 20°
3/11/03 0900	R. BROWN	MOSTLY CLOUDY 36°
3/12/03 0900	R. BROWN	RAIN 48°
3/13/03 0900	R. BROWN	MOSTLY CLOUDY 50°
3/14/03 0900	R. BROWN	CLOUDY 34°

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs treapassers	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised.

\* See back for additional information



# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
3/17/03 0700	R. Brown	Partly Cloudy 55°
3/18/03 0900	R. Brown	Cloudy 58°
3/19/03 0900	J. Stamps	Partly Cloudy 60°
3/20/03 07:00	D. Powell	Cloudy 53°
3/21/03 0830	J. Stamps	Cloudy & Rain 57°

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs trepassers	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised.

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
3/24/03 0930	R. Brown / D. Pollitt	SUNNY 48°
3/25/03 06:55	D. Pollitt	SUN 49°
3/26/03 1130	R. Brown	Partly Sunny 54°
3/27/03 0930	R. Brown	Mostly Sunny 66°
3/28/03 0900	R. Brown	Partly Sunny 56°

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs trespassers	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised.

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION			
3/31/03 0900	R. BROWN	Partly Sunny	34°		
4/1/03 0900	R. BROWN	Cloudy & Cold	33°		
4/2/03 05:55	R. POWITT	Windy & Warm	55°		
4/3/03 0700	R. BROWN	Warm & Clear	58°		
4/4/03 0830	R. BROWN	CLOUDY	62°		

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs trespassers	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised.

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
4-7-03 0850	<i>Stamp</i>	Cloudy & rain 48°
4/8/03 0900	<i>R. Brown</i>	cloudy 54°
4/9/03 0730	<i>Stamp</i>	Rain 37°
4/16/03 07:15	<i>Stamp</i>	cloudy 40°
4/11/03 0730	<i>R. Brown</i>	Raining 45°

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs trepassers	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised.

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
4/14/03 0900	R. Brown / D. Pollitt	Sunny 46°
4/15/03 0900	R. Brown	MOS-CLY Sunny 54°
4-16-03 09:15	D. Pollitt	P. Sunny 65°
4/17/03 0930	R. Brown / D. Pollitt	Cloudy 60°
4/18/03 07:15	D. Pollitt	Cloudy 55°

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs treapassers	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised.

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME		INSPECTED BY	WEATHER CONDITION	
4/21/03	0900	R. BROWN / T. Stewart	Cloudy	58°
4/22/03	06:45	J. Peltch	Cloudy	49°
4/23/03	0650	J. Stampert	Clear	35°
4/24/03	0830	J. Stampert	Partly Cloudy	45°
4/25/03	0650	R. Brown	Cloudy	53°

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs treapassers	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised.

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER	CONDITION
4/28/03 0715	R. Brown	Clear	40°
4/29/03 0720	J. Stanger	Cloudy	55°
4/30/03 01:630	D. Pickett	Cloudy	60°
5/01/03 0900	R. Brown	Sunny	65°
5/02/03 0900	R. Brown / D. Pollitt	Cloudy	56°

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs treapassers	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised.

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION			
5/5/03 0900	R. Brown	Cloudy + stormy	55°		
5/6/03 0845	R. Brown	Mostly Cloudy	60°		
5/7/03 0800	J. Stamps	Cloudy	60°		
5/8/03 0830	R. Brown / D. Pollitt	Mostly Sunny	67°		
5/9/03 0845	R. Brown	Partly Sunny	73°		

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs treapassers	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised.

\* See back for additional information



# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
5/12/03 0900	R. Brown	Partly Cloudy - Windy 54°
5/13/03 0830	R. Brown	Sunny & Fair 52°
5/14/03 0830	R. BROWN	Cloudy & cool 47°
5/15/03 0845	R. BROWN	Lite Rain 60°
5/16/03 0900	R. BROWN	Foggy - Partly Sunny 52°

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs trepassers	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
5/19/03 0750	O. Heath	Fair 60°
5/20/03 07:30	D. Garcia	Rain 65°
5/21/03 08:30	J. Lopez	Lt Rain 55°
5/22/03 0830	A. Brown	Mostly Cloudy 52°
5/23/03 0830	R. Brown	Partly Cloudy 57°

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs treapassers	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
5/26/03	N/A	HOLIDAY
5/27/03 0830	R. Brown	PARTLY CLOUDY 55°
5/28/03 08:30	D. Biquitt	Sunny 55°
5/29/03 0900	R. Brown	Light RAIN 55°
5/30/03 0900	R. Brown	Fair & Foggy 54°

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	N/A	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	N/A	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	N/A	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	N/A	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	N/A	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	N/A	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	N/A	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	N/A	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	N/A	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	N/A	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	N/A	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	N/A	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs trepassers	N/A	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT comprois

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER	CONDITION
6/2/03 0900	R. Brown	Clear	49°
6/3/03 0930	R. Brown	RAINY	57°
6/4/03 08:20	R. Brown	Cloudy	58°
6/5/03 0830	R. Brown	SUNNY	59°
6/6/03 0830	R. Brown	Sunny	58°

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs trepassers	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION			
6/9/03 0845	R. Brown	Sunny	59°		
6/10/03 0845	R. Brown / D. Pollard	Sunny	61°		
6/11/03 0830	R. Brown	Cloudy	69°		
6/12/03 0845	R. Brown	Rainy-Partly Sunny	68°		
6/13/03 0830	R. Brown	Light RAIN	66°		

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs trepassers	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT comprois

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION	
6/16/03	0845 R. BROWN	Fog & Cloudy	67°
6/17/03	0830 R. BROWN	Cloudy & Raining	68°
6/18/03	0830 R. BROWN	Foggy	67°
6/19/03	0830 R. BROWN	Cloudy	62°
6/20/03	0830 R. BROWN / D. Pollett	Partly, Cloudy	55°

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs trepassers	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION			
6/23/03	0845 R. Brown / D. Pollitt	Fair	62°		
6/24/03	0830 R. BROWN	Clear	68°		
6/25/03	1445 J. Stumper / O. Heate	Clear	88°		
6/26/03	0845 R. Brown / D. Pollitt	Partly Cloudy	71°		
6/27/03	0900 J. Stumper	Cloudy	65°		

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs treapassers	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION		
6/30/03 0845	R. Brown	Fair	69°	
7/1/03 0915	R. Brown	Cloudy	69°	
7/2/03 0845	R. Brown	Partly Cloudy	63°	
7/3/03 0845	R. Brown	Fair	66°	
Holiday	NA			

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	NA											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	NA											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S												
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S												
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S												
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S												
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S												
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S												
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S												
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S												
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S												
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S												
12	IRP Cap Perimeter Fence	Fence fabric is free of signs treapassers	S	S	S	S	↓											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised

\* See back for additional information



# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
7/7/03 0900	JS	Cloudy Drizzle 68°
7/8/03 0800	JS	P Cloudy 70°
7/9/03 0830	JS	P Cloudy 72°
7/10/03 0815	JS	Cloudy 70°
7/11/03 0810	JS	P Cloudy 65°

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs treapassers	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
7/14/03 1215	JF	Partly Cloudy 85°
7/15/03 1430	R. Brown	Partly Cloudy 88°
7/16/03 1430	R. Brown / D. Pollitt	Partly Cloudy 82°
7/17/03 1450	R. Brown / D. Pollitt	Mostly Sunny 80°
7/18/03 0845	R. Brown	Cloudy 68°

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs trepassers	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION			
7/21/03 0830	R. Brown	Fair	71°		
7/22/03 1250	R. Brown	Cloudy	76°		
7/23/03 0945	R. Brown	Rain	64°		
7/24/03 1500	R. Brown	P. Cloudy	76°		
7/25/03 08:10	D. Powell	Sun	70		

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial	
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F		
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S													

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial	
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F		
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S												
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S												
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S												
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S												
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S												
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S												
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S												
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S												
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S												
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S												
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S												
12	IRP Cap Perimeter Fence	Fence fabric is free of signs trepassers	S	S	S	S	S												

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
7/28/03 0845	R. Brown	Rain 73°
7/29/03 0805	D. Parrott	Sun 72°
7/30/03 0900	D. Parrott	Sun 67°
7/31/03 0915	R. Brown	Cloudy 72°
8/1/03 0840	R. Brown	Fog 69°

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs trepassers	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
8/4/03 0845	R. Brown	STORMY with Light Rain 63°
8/5/03 0845	R. Brown/D. Pollard	Partly Cloudy 64°
8/6/03 0830	R. Brown	Mostly Cloudy 65°
8/7/03 0845	R. Brown	Cloudy 67°
8/8/03 0845	R. Brown	Foggy 65°

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs treapassers	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT comprois

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION	
8/11/03 0900	R. Brown	Foggy	64°
8/12/03 0830	R. Brown	Clear	61°
8/13/03 0845	R. Brown	Cloudy	70°
8/14/03 0830	R. Brown	Partly Cloudy	72°
8/15/03 1030	R. Brown	Mostly Sunny	86°

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs treapassers	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION	
8/18/03 0850	R. Brown	Mostly Sunny	69°
8/19/03 0830	R. Brown	Clear	62°
8/20/03 0850	R. Brown	Partly Cloudy	68°
8/21/03 0845	R. Brown	Mostly Cloudy	69°
8/22/03 0840	R. Brown	Cloudy	73°

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs treapassers	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
8/25/03 0840	R. Brown	Clear 66°
8/26/03 0840	R. Brown	Mostly Sunny 72°
8/27/03 0850	R. Brown	Partly Cloudy 73°
8/28/03 0840	R. Brown	Partly Cloudy 73°
8/29/03 0840	R. Brown	Fair 72°

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs treapassers	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfatfory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compreis

\* See back for additional information



# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
9/1/03	N/A	HOLIDAY
9/2/03 0850	R. Brown	Partly Cloudy 70°
9/3/03 0845	R. Brown	Rain 70°
9/4/03 0900	R. Brown / D. Pollitt	Foggy 70°
9/5/03 0900	R. Brown / D. Pollitt	Fair 57°

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	N/A	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	N/A	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure		S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded		S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)		S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals		S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers		S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches		S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure		S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded		S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)		S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals		S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs treapassers		S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
9/8/03 0845	R. Brown	Fog 62°
9/9/03 0820	J. Stamper	Fog 64°
9/10/03 0850	R. Brown	Fair 60°
9/11/03 0835	R. Brown	Hazy 61°
9/12/03 0830	R. Brown	Fair 58°

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs treapassers	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
9/15/03 0900	R. Brown	cloudy 64°
9/16/03 0900	R. Brown	Fair 53°
9/17/03 0845	R. Brown	Fair 57°
9/18/03 0845	R. Brown	Fair 56°
9/19/03 0840	J. Stomper	partly cloudy 54°

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs treapassers	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
9/22/03 0840	R. Brown	Light Rain 64°
9/23/03 0830	R. Brown	Fog 55°
9/24/03 0840	R. Brown	Fair 50°
9/25/03 0850	T. Stewart / J. Stampler	Cloudy 60°
9/26/03 0840	J. Stampler	Cloudy 58°

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs treapassers	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
9/29/03 0845	R. Brown	Fair 43°
9/30/03 0830	R. Brown	Clear 37°
10/1/03 0900	R. Brown	Cloudy 46°
10/2/03 0845	R. Brown	Cloudy 38°
10/3/03 0900	R. Brown	Fair 35°

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs treapassers	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
10/6/03	0845 R. Brown	Fair 51°
10/7/03	0840 R. Brown	Fair 53°
10/8/03	0850 R. Brown	Fair 54°
10/9/03	0840 R. Brown	Cloudy 58°
10/10/03	0830 R. Brown	Cloudy 60°

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs treapassers	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
10/13/03 0845	R. Brown	Partly Cloudy 57°
10/14/03 0845	R. Brown	Cloudy 62°
10/15/03 0845	R. Brown	Fair 45°
10/16/03 0845	R. Brown	Fair 47°
10/17/03 0845	R. Brown	Cloudy 52°

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs treapassers	S	S	S	S	S											
13	Traffic Control Gates at the EDB Emergency Spillway	Gates locked pursuant to Commonwealth security HS procedures	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
10/20/03	0845 R. Brown	Fair 49°
10/21/03	0840 R. Brown	Cloudy 63°
10/22/03	0845 R. Brown	Mostly Cloudy 48°
10/23/03	0835 R. Brown	Cloudy 42°
10/24/03	0830 J. Slings	Clear 32°

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs treapassers	S	S	S	S	S											
13	Traffic Control Gates at the EDB Emergency Spillway	Gates locked pursuant to Commonwealth security HS procedures	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised

\* See back for additional information



# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
10/27/03 0900	R. Brown / D Pollitt	Light Rain 45°
10/28/03 0840	R. Brown	Fair 41°
10/29/03 0840	R. Brown	Fog 46°
10/30/03 0850	R. Brown	Fair 54°
10/31/03 09:00	D Pollitt	Fair 63°

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs treapassers	S	S	S	S	S											
13	Traffic Control Gates at the EDB Emergency Spillway	Gates locked pursuant to Commonwealth security HS procedures	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
11/3/03 0900	R. Brown	Fair 39°
11/4/03 0840	R. Brown	Fair 61°
11/5/03 0910	R. Brown	Rain 64°
11/6/03 0840	R. Brown	Fog 63°
11/7/03 0820	J. Stampel	Clear 40°

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs treapassers	S	S	S	S	S											
13	Traffic Control Gates at the EDB Emergency Spillway	Gates locked pursuant to Commonwealth security HS procedures	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
11/10/03 0900	R. BROWN	Cloudy 42°
11/11/03	Holiday	
11/12/03 0845	R. BROWN	Rain 66°
11/13/03 0835	R. BROWN	Cold + Windy 35°
11/14/03 0835	R. BROWN	Fair 28°

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	N/A	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	N/A	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S		S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S		S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S		S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S		S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S		S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S		S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S		S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S		S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S		S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S		S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs treapassers	S		S	S	S											
13	Traffic Control Gates at the EDB Emergency Spillway	Gates locked pursuant to Commonwealth security HS procedures	S		S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
11/17/03 0850	R. Brown	Cloudy & Foggy 52°
11/18/03 0830	R. Brown	Fair 58°
11/19/03 0850	R. BROWN	Cloudy & Rainy 58°
11/20/03 0830	R. BROWN	Fair 41°
11/21/03 0845	A. Brown	Fair 50°

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs treapassers	S	S	S	S	S											
13	Traffic COnTrol Gates at the EDB Emergency SPillway	Gates locked pursuant to Commonwealth security HS procedures	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfatfory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compreis

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
11/24/03 0900	J. Stamps	Rain/Sleet mix 38°
11/25/03 0840	R. Brown	Fair 25°
11/26/03 0840	R. Brown	Fair 38°
HOLIDAY		

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial	
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F		
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	N/A													

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial	
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F		
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	N/A													
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S														
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S														
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S														
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S														
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S														
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S														
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S														
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S														
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S														
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S														
12	IRP Cap Perimeter Fence	Fence fabric is free of signs treapassers	S	S	S														
13	Traffic COnTrol Gates at the EDB Emergency SPillway	Gates locked pursuant to Commonwealth security HS procedures	S	S	S														

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfatfory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compreis

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
12/1/03 0840	R. Brown	Fair 41°
12/2/03 0830	R. Brown	Fair 27°
12/3/03 0835	R. Brown	Cloudy 33°
12/4/03 0830	R. Brown	Light Rain 38°
12/5/03 0824	T. Stewart	Rainy 42°

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs treapassers	S	S	S	S	S											
13	Traffic Control Gates at the EDB Emergency Spillway	Gates locked pursuant to Commonwealth security HS procedures	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
12/8/03 0910	R. Brown	Fair 29°
12/9/03 (N/A)	N/A	N/A
12/10/03 0915	J. Stammer	Cloudy 48°
12/11/03 0900	T. Stewart	Rain/Sleet Mix 31°
12/12/03	J. Stammer T. Stewart	Sunny 28°

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	N/A	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	N/A	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S		S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S		S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S		S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S		S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S		S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S		S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S		S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S		S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S		S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S		S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs treapassers	S		S	S	S											
13	Traffic Control Gates at the EDB Emergency Spillway	Gates locked pursuant to Commonwealth security HS procedures	S		S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
12/15/03 0845	R. Brown	Cloudy 30°
12/16/03 0840	R. Brown	Cloudy 44°
12/17/03 0900	J. Stamp	Cloudy 27°
12/18/03 0835	R. Brown	Light Snow 29°
12/19/03 0835	R. Brown	Light Snow 26°

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	S	S											

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F	
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	S	S											
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S	S	S											
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S	S	S											
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S	S	S											
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S	S	S											
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S	S	S											
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S	S	S											
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S	S	S											
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S	S	S											
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S	S	S											
12	IRP Cap Perimeter Fence	Fence fabric is free of signs treapassers	S	S	S	S	S											
13	Traffic Control Gates at the EDB Emergency Spillway	Gates locked pursuant to Commonwealth security HS procedures	S	S	S	S	S											

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised

\* See back for additional information



# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
12/22/03 0840	R. Brown	Cloudy 42°
12/23/03 0900	J. Stamps	Cloudy 40°
12/24/03 0840	R. Brown	Cloudy 30°
CHRISTMAS HOLIDAYS		

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial		
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F			
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S															

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial		
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F			
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	N/A														
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S															
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S															
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S															
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S															
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S															
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S															
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S															
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S															
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S															
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S															
12	IRP Cap Perimeter Fence	Fence fabric is free of signs treapassers	S	S	S															

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised

\* See back for additional information

# MFDS SECURITY

Weekly Report

DATE/TIME	INSPECTED BY	WEATHER CONDITION
12/29/03 0845	J. Stamps	Cloudy 45°
12/30/03 0840	J. Stamps	Sunny 35°
12/31/03 0840	R. Brown	Fair 30°
NEW YEAR HOLIDAYS		

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency.

## 4.1.3 Ultra Sonic Flow Recorder and Rain Gauge

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial	
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F		
1	Rain Gauge	Free of plug (accumulated dust clogging the gauge)	S	S	S	N/A													

## 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory					Unsatisfactory					Required Action					Action Completed Date/Initial	
			M	T	W	T	F	M	T	W	T	F	M	T	W	T	F		
1	North Perimeter Fence at Site Access	Proper operation of gates and latches	S	S	S	N/A													
2	North Perimeter Fence at Site Access	Fence fabric/Tension wire strung and secure	S	S	S														
3	North Perimeter Fence at Site Access	Fencing is grounded	S	S	S														
4	North Perimeter Fence at Site Access	Any indication of rust (Note 3)	S	S	S														
5	North Perimeter Fence at Site Access	Fencing fabric is free of signs of burrowing animals	S	S	S														
6	North Perimeter Fence at Site Access	Fencing fabric is free of signs of trespassers	S	S	S														
7	IRP Cap Perimeter Fence	Proper operation of gates and latches	S	S	S														
8	IRP Cap Perimeter Fence	Fence fabric/Tension wire strung and secure	S	S	S														
9	IRP Cap Perimeter Fence	Fencing is grounded	S	S	S														
10	IRP Cap Perimeter Fence	Any indication of rust (Note 3)	S	S	S														
11	IRP Cap Perimeter Fence	Fence fabric is free of signs of burrowing animals	S	S	S														
12	IRP Cap Perimeter Fence	Fence fabric is free of signs treapassers	S	S	S														

Note: 1. Mark "S" for satisfactory condition or "U" for unsatisfactory condition.

2. Mark "N/A" if the MFDS is closed; i.e., not a workday

3. Mark "S" for satisfactory condition if 1) there is no indication of rust or if 2) there is no indication of rust but the integrity of the perimeter fence is NOT compromised

\* See back for additional information

## TWICE-A-MONTH

Date/Time: 2/13/03 0800 — 0930

Weather Conditions:

SUNNY & COLD

Inspector(s): R. Brown, O. Heath, D. Pollitt, J. Stamper and T. Stewart

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

### 3.2 Headwalls

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall "A" in NW Corner	Invert free of debris, obstructions, and sediment.	S			
2	Headwall "A" in NW Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
3	Headwall "A" in NW Corner Batten Bar	Free of tears, punctures, or thin spots.	S			
4	Headwall "A" Sump in NW Corner	Secure attachment of sump lid cap at liquid collection sump.	S			
5	Headwall "A" Sump in NW Corner	Free of tears, punctures, or thin spots in transition of liner to liner connection.	S			
6	Headwall "B" in NW Corner	Invert free of debris, obstructions, and sediment.	S			
7	Headwall "B" in NW Corner	Free of tears, punctures, or thin spots.	S			
8	Headwall "B" in NW Corner Batten Bar	Secure attachment of sump lid cap at liquid collection sump.	S			
9	Upstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment.		S	Removed Debris	2/13/03 - RB
10	Upstream Headwall in NE Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
11	Upstream Headwall in NE Corner Batten Bar	Free of tears, punctures, or thin spots.	S			
12	Upstream Headwall Sump in NE Corner	Free of tears, punctures, or thin spots in transition of liner to liner connection.	S			
13	Downstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment.	S			
14	Downstream Headwall in NE Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
15	Downstream Headwall NE Corner Batten Bar	Free of tears, punctures, or thin spots.	S			

**Note** 1. For repairs, see Appendix C-1 for the 45-mil reinforced polypropylene repair procedure. 2. Indicate sump extension identification in Required Action.

## TWICE-A-MONTH

Date/Time: 2/13/03 0800 — 0930 Weather Conditions: SUNNY & COLD

Inspector(s): R. BROWN, O. HEATH, D. POLLITT, J. STAMPER and T. STEWART

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

### 3.4.1 Drainage Channels and 3.4.2 Diversion Berms

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
2	Interior Drainage Channels	Geotextile fabric free of damages, if exposed	S			
3	Interior Drainage Channels	Channel free of leaves or debris	S			
4	North Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
5	North Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed	S			
6	North Perimeter Drainage Channels	Channel free of leaves or debris	S			
7	East Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
8	East Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed	S			
9	East Perimeter Drainage Channels	Channel free of leaves or debris	S			
10	South Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
11	South Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed	S			
12	South Perimeter Drainage Channels	Channel free of leaves or debris	S			
13	West Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
14	West Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed	S			
15	West Perimeter Drainage Channels	Channel free of leaves or debris	S			
16	Interior Diversion Berms	Free of tears, punctures, or thin spots in liner	S			
17	Interior Diversion Berms	Geotextile fabric free of damages, if exposed	S			

### 3.5 Articulating Concrete Blocks (AB) System

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior "Y" Channel Dead-man	Free of balloning liner at battens	S			
2	Interior "Y" Channel Dead-man	Liner free of tears, punctures, or thin spots	S			
3	Upstream SE Perimeter Channel Dead-man	Free of balloning at battens	S			
4	Upstream SE Perimeter Channel Dead-man	Liner free of tears, punctures, or thin spots	S			
5	East Perimeter Channel Dead-man	Free of balloning at battens	S			
6	East Perimeter Channel Dead-man	Liner free of tears, punctures, or thin spots	S			

## TWICE-A-MONTH

Date/Time: 2/13/03 0800 - 0930 Weather Conditions: SUNNY & COLD

Inspector(s): R. BROWN, D. HEATH, D. POLI, H. J. STAMPER AND T. STUART

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

### 4.1.1 Principal Spillway

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riser Pipe	Free of debris and obstructions	S			
2	H-Flume	Free of debris and obstructions	S			
3	H-Flume	Base is free of silt or sediment	S			

### 4.2 Emergency Spillway

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Concrete Pad	Free of debris and obstructions	S			

### 4.3 Embankment

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Embankment	Side-slopes free of debris	S			
2	Embankment	Side-slopes free of erosion gullies	S			
3	Embankment	Free of eroded areas	S			

### 5.2 South Drainage Channel

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall	Opening or invert free of obstructions	S			

**TWICE-A-MONTH**

Date/Time: 2/24/03 1240 - 1550 Weather Conditions: Cloudy & Cold 31°

Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**3.2 Headwalls**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall "A" in NW Corner	Invert free of debris, obstructions, and sediment.	S			
2	Headwall "A" in NW Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
3	Headwall "A" in NW Corner Batten Bar	Free of tears, punctures, or thin spots.	S			
4	Headwall "A" Sump in NW Corner	Secure attachment of sump lid cap at liquid collection sump.	S			
5	Headwall "A" Sump in NW Corner	Free of tears, punctures, or thin spots in transition of liner to liner connection.	S			
6	Headwall "B" in NW Corner	Invert free of debris, obstructions, and sediment.	S			
7	Headwall "B" in NW Corner	Free of tears, punctures, or thin spots.	S			
8	Headwall "B" in NW Corner Batten Bar	Secure attachment of sump lid cap at liquid collection sump.	S			
9	Upstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment.	S			
10	Upstream Headwall in NE Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
11	Upstream Headwall in NE Corner Batten Bar	Free of tears, punctures, or thin spots.	S			
12	Upstream Headwall Sump in NE Corner	Free of tears, punctures, or thin spots in transition of liner to liner connection.	S			
13	Downstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment.	S			
14	Downstream Headwall in NE Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
15	Downstream Headwall NE Corner Batten Bar	Free of tears, punctures, or thin spots.	S			

Note 1. For repairs, see Appendix C-1 for the 45-mil reinforced polypropylene repair procedure. 2. Indicate sump extension identification in Required Action.

**TWICE-A-MONTH**

Date/Time: 2/24/03 1240-1550

Weather Conditions: Cloudy + Cold 31°

Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**3.4.1 Drainage Channels and 3.4.2 Diversion Berms**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
2	Interior Drainage Channels	Geotextile fabric free of damages, if exposed	S			
3	Interior Drainage Channels	Channel free of leaves or debris	S			
4	North Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
5	North Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed	S			
6	North Perimeter Drainage Channels	Channel free of leaves or debris	S			
7	East Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
8	East Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed	S			
9	East Perimeter Drainage Channels	Channel free of leaves or debris	S			
10	South Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
11	South Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed	S			
12	South Perimeter Drainage Channels	Channel free of leaves or debris	S			
13	West Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
14	West Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed	S			
15	West Perimeter Drainage Channels	Channel free of leaves or debris	S			
16	Interior Diversion Berms	Free of tears, punctures, or thin spots in liner	S			
17	Interior Diversion Berms	Geotextile fabric free of damages, if exposed	S			

**3.5 Articulating Concrete Blocks (AB) System**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior "Y" Channel Dead-man	Free of ballooning liner at battens	S			
2	Interior "Y" Channel Dead-man	Liner free of tears, punctures, or thin spots	S			
3	Upstream SE Perimeter Channel Dead-man	Free of ballooning at battens	S			
4	Upstream SE Perimeter Channel Dead-man	Liner free of tears, punctures, or thin spots	S			
5	East Perimeter Channel Dead-man	Free of ballooning at battens	S			
6	East Perimeter Channel Dead-man	Liner free of tears, punctures, or thin spots	S			

**TWICE-A-MONTH**

Date/Time: 2/24/03 1240 - 1550 Weather Conditions: Cloudy + Cold 31°

Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**4.1.1 Principal Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riser Pipe	Free of debris and obstructions	S			
2	H-Flume	Free of debris and obstructions	S			
3	H-Flume	Base is free of silt or sediment	S			

**4.2 Emergency Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Concrete Pad	Free of debris and obstructions	S			

**4.3 Embankment**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Embankment	Side-slopes free of debris	S			
2	Embankment	Side-slopes free of erosion gullies	S			
3	Embankment	Free of eroded areas	S			

**5.2 South Drainage Channel**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall	Opening or invert free of obstructions	S			



## TWICE-A-MONTH

Date/Time: 3/4/03 1420 - 1550 Weather Conditions: Sunny & Warm 58°

Inspector(s): R. Brown - D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

### 3.2 Headwalls

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall "A" in NW Corner	Invert free of debris, obstructions, and sediment.	S			
2	Headwall "A" in NW Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
3	Headwall "A" in NW Corner Batten Bar	Free of tears, punctures, or thin spots.	S			
4	Headwall "A" Sump in NW Corner	Secure attachment of sump lid cap at liquid collection sump.	S			
5	Headwall "A" Sump in NW Corner	Free of tears, punctures, or thin spots in transition of liner to liner connection.	S			
6	Headwall "B" in NW Corner	Invert free of debris, obstructions, and sediment.	S			
7	Headwall "B" in NW Corner	Free of tears, punctures, or thin spots.	S			
8	Headwall "B" in NW Corner Batten Bar	Secure attachment of sump lid cap at liquid collection sump.	S			
9	Upstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment.	S			
10	Upstream Headwall in NE Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
11	Upstream Headwall in NE Corner Batten Bar	Free of tears, punctures, or thin spots.	S			
12	Upstream Headwall Sump in NE Corner	Free of tears, punctures, or thin spots in transition of liner to liner connection.	S			
13	Downstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment.	S			
14	Downstream Headwall in NE Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
15	Downstream Headwall NE Corner Batten Bar	Free of tears, punctures, or thin spots.	S			

**Note** 1. For repairs, see Appendix C-1 for the 45-mil reinforced polypropylene repair procedure. 2. Indicate sump extension identification in Required Action.

**TWICE-A-MONTH**

Date/Time: 3/4/03 1420-1550 Weather Conditions: Sunny + Warm 58°

Inspector(s): R. Brown - D. Pocius

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**3.4.1 Drainage Channels and 3.4.2 Diversion Berms**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
2	Interior Drainage Channels	Geotextile fabric free of damages, if exposed				
3	Interior Drainage Channels	Channel free of leaves or debris				
4	North Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner				
5	North Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed				
6	North Perimeter Drainage Channels	Channel free of leaves or debris				
7	East Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner				
8	East Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed				
9	East Perimeter Drainage Channels	Channel free of leaves or debris				
10	South Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner				
11	South Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed				
12	South Perimeter Drainage Channels	Channel free of leaves or debris				
13	West Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner				
14	West Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed				
15	West Perimeter Drainage Channels	Channel free of leaves or debris				
16	Interior Diversion Berms	Free of tears, punctures, or thin spots in liner				
17	Interior Diversion Berms	Geotextile fabric free of damages, if exposed				

**3.5 Articulating Concrete Blocks (AB) System**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior "Y" Channel Dead-man	Free of ballooning liner at battens	S			
2	Interior "Y" Channel Dead-man	Liner free of tears, punctures, or thin spots	S			
3	Upstream SE Perimeter Channel Dead-man	Free of ballooning at battens	S			
4	Upstream SE Perimeter Channel Dead-man	Liner free of tears, punctures, or thin spots	S			
5	East Perimeter Channel Dead-man	Free of ballooning at battens	S			
6	East Perimeter Channel Dead-man	Liner free of tears, punctures, or thin spots	S			

**TWICE-A-MONTH**

Date/Time: 3/6/03 12:40 — 1550 Weather Conditions: Cloudy & Cold 34°

Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**4.1.1 Principal Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riser Pipe	Free of debris and obstructions	S			
2	H-Flume	Free of debris and obstructions	S			
3	H-Flume	Base is free of silt or sediment	S			

**4.2 Emergency Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Concrete Pad	Free of debris and obstructions	S			

**4.3 Embankment**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Embankment	Side-slopes free of debris	S			
2	Embankment	Side-slopes free of erosion gullies	S			
3	Embankment	Free of eroded areas	S			

**5.2 South Drainage Channel**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall	Opening or invert free of obstructions	S			

**TWICE-A-MONTH**

Date/Time: 3/17/03 0830 - 1545 Weather Conditions: Partly Sunny 60°  
 Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**3.2 Headwalls**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall "A" in NW Corner	Invert free of debris, obstructions, and sediment.	S			
2	Headwall "A" in NW Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
3	Headwall "A" in NW Corner Batten Bar	Free of tears, punctures, or thin spots.	S			
4	Headwall "A" Sump in NW Corner	Secure attachment of sump lid cap at liquid collection sump.	S			
5	Headwall "A" Sump in NW Corner	Free of tears, punctures, or thin spots in transition of liner to liner connection.	S			
6	Headwall "B" in NW Corner	Invert free of debris, obstructions, and sediment.	S			
7	Headwall "B" in NW Corner	Free of tears, punctures, or thin spots.	S			
8	Headwall "B" in NW Corner Batten Bar	Secure attachment of sump lid cap at liquid collection sump.	S			
9	Upstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment.	S			
10	Upstream Headwall in NE Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
11	Upstream Headwall in NE Corner Batten Bar	Free of tears, punctures, or thin spots.	S			
12	Upstream Headwall Sump in NE Corner	Free of tears, punctures, or thin spots in transition of liner to liner connection.	S			
13	Downstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment.	S			
14	Downstream Headwall in NE Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
15	Downstream Headwall NE Corner Batten Bar	Free of tears, punctures, or thin spots.	S			

**Note** 1. For repairs, see Appendix C-1 for the 45-mil reinforced polypropylene repair procedure. 2. Indicate sump extension identification in Required Action.

**TWICE-A-MONTH**

Date/Time: 3/17/03 0830-1545 Weather Conditions: SUNNY 65°

Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**3.4.1 Drainage Channels and 3.4.2 Diversion Berms**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
2	Interior Drainage Channels	Geotextile fabric free of damages, if exposed	S			
3	Interior Drainage Channels	Channel free of leaves or debris	S			
4	North Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
5	North Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed	S			
6	North Perimeter Drainage Channels	Channel free of leaves or debris	S			
7	East Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
8	East Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed	S			
9	East Perimeter Drainage Channels	Channel free of leaves or debris	S			
10	South Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
11	South Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed	S			
12	South Perimeter Drainage Channels	Channel free of leaves or debris	S			
13	West Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
14	West Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed	S			
15	West Perimeter Drainage Channels	Channel free of leaves or debris	S			
16	Interior Diversion Berms	Free of tears, punctures, or thin spots in liner	S			
17	Interior Diversion Berms	Geotextile fabric free of damages, if exposed	S			

**3.5 Articulating Concrete Blocks (AB) System**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior "Y" Channel Dead-man	Free of balloning liner at battens	S			
2	Interior "Y" Channel Dead-man	Liner free of tears, punctures, or thin spots	S			
3	Upstream SE Perimeter Channel Dead-man	Free of balloning at battens	S			
4	Upstream SE Perimeter Channel Dead-man	Liner free of tears, punctures, or thin spots	S			
5	East Perimeter Channel Dead-man	Free of balloning at battens	S			
6	East Perimeter Channel Dead-man	Liner free of tears, punctures, or thin spots	S			

**TWICE-A-MONTH**

Date/Time: 3/17/03 0830 - 1545

Weather Conditions: SUNNY 65°

Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**4.1.1 Principal Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riser Pipe	Free of debris and obstructions	S			
2	H-Flume	Free of debris and obstructions	S			
3	H-Flume	Base is free of silt or sediment	S			

**4.2 Emergency Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Concrete Pad	Free of debris and obstructions	S			

**4.3 Embankment**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Embankment	Side-slopes free of debris	S			
2	Embankment	Side-slopes free of erosion gullies	S			
3	Embankment	Free of eroded areas	S			

**5.2 South Drainage Channel**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall	Opening or invert free of obstructions	S			

**TWICE-A-MONTH**

Date/Time: 4/14/03 0900-1530 Weather Conditions: Sunny 76°

Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**3.2 Headwalls**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall "A" in NW Corner	Invert free of debris, obstructions, and sediment.	S			
2	Headwall "A" in NW Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
3	Headwall "A" in NW Corner Batten Bar	Free of tears, punctures, or thin spots.	S			
4	Headwall "A" Sump in NW Corner	Secure attachment of sump lid cap at liquid collection sump.	S			
5	Headwall "A" Sump in NW Corner	Free of tears, punctures, or thin spots in transition of liner to liner connection.	S			
6	Headwall "B" in NW Corner	Invert free of debris, obstructions, and sediment.	S			
7	Headwall "B" in NW Corner	Free of tears, punctures, or thin spots.	S			
8	Headwall "B" in NW Corner Batten Bar	Secure attachment of sump lid cap at liquid collection sump.	S			
9	Upstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment.	<del>S</del> SP	US	Removed trash	4/14/03 SP
10	Upstream Headwall in NE Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
11	Upstream Headwall in NE Corner Batten Bar	Free of tears, punctures, or thin spots.	S			
12	Upstream Headwall Sump in NE Corner	Free of tears, punctures, or thin spots in transition of liner to liner connection.	S			
13	Downstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment.	S			
14	Downstream Headwall in NE Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
15	Downstream Headwall NE Corner Batten Bar	Free of tears, punctures, or thin spots.	S			

Note 1. For repairs, see Appendix C-1 for the 45-mil reinforced polypropylene repair procedure. 2. Indicate sump extension identification in Required Action.

**TWICE-A-MONTH**

Date/Time: 4/14/03 0900-1530 Weather Conditions: Sunny 76°  
 Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**3.4.1 Drainage Channels and 3.4.2 Diversion Berms**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
2	Interior Drainage Channels	Geotextile fabric free of damages, if exposed	S			
3	Interior Drainage Channels	Channel free of leaves or debris	S			
4	North Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
5	North Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed	S			
6	North Perimeter Drainage Channels	Channel free of leaves or debris	S			
7	East Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
8	East Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed	S			
9	East Perimeter Drainage Channels	Channel free of leaves or debris	S			
10	South Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
11	South Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed	S			
12	South Perimeter Drainage Channels	Channel free of leaves or debris	S			
13	West Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
14	West Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed	S			
15	West Perimeter Drainage Channels	Channel free of leaves or debris	S			
16	Interior Diversion Berms	Free of tears, punctures, or thin spots in liner	S			
17	Interior Diversion Berms	Geotextile fabric free of damages, if exposed	S			

**3.5 Articulating Concrete Blocks (AB) System**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior "Y" Channel Dead-man	Free of balloning liner at battens	S			
2	Interior "Y" Channel Dead-man	Liner free of tears, punctures, or thin spots	S			
3	Upstream SE Perimeter Channel Dead-man	Free of balloning at battens	S			
4	Upstream SE Perimeter Channel Dead-man	Liner free of tears, punctures, or thin spots	S			
5	East Perimeter Channel Dead-man	Free of balloning at battens	S			
6	East Perimeter Channel Dead-man	Liner free of tears, punctures, or thin spots	S			



**TWICE-A-MONTH**

Date/Time: 4/15/03 1240-1400 Weather Conditions: Sunny 79°

Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**4.1.1 Principal Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riser Pipe	Free of debris and obstructions	S			
2	H-Flume	Free of debris and obstructions	S			
3	H-Flume	Base is free of silt or sediment	S			

**4.2 Emergency Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Concrete Pad	Free of debris and obstructions	S			

**4.3 Embankment**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Embankment	Side-slopes free of debris	S			
2	Embankment	Side-slopes free of erosion gullies	S			
3	Embankment	Free of eroded areas	S			

**5.2 South Drainage Channel**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall	Opening or invert free of obstructions	S			

## TWICE-A-MONTH

Date/Time: 4/25/03 0830 - 1130

Weather Conditions: Cloudy 46°

Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

### 3.2 Headwalls

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall "A" in NW Corner	Invert free of debris, obstructions, and sediment.	S			
2	Headwall "A" in NW Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
3	Headwall "A" in NW Corner Batten Bar	Free of tears, punctures, or thin spots.	S			
4	Headwall "A" Sump in NW Corner	Secure attachment of sump lid cap at liquid collection sump.	S			
5	Headwall "A" Sump in NW Corner	Free of tears, punctures, or thin spots in transition of liner to liner connection.	S			
6	Headwall "B" in NW Corner	Invert free of debris, obstructions, and sediment.	S			
7	Headwall "B" in NW Corner	Free of tears, punctures, or thin spots.	S			
8	Headwall "B" in NW Corner Batten Bar	Secure attachment of sump lid cap at liquid collection sump.	S			
9	Upstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment.		U	Leaf Removal	4/25/03 - RB/DP
10	Upstream Headwall in NE Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
11	Upstream Headwall in NE Corner Batten Bar	Free of tears, punctures, or thin spots.	S			
12	Upstream Headwall Sump in NE Corner	Free of tears, punctures, or thin spots in transition of liner to liner connection.	S			
13	Downstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment.	S			
14	Downstream Headwall in NE Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
15	Downstream Headwall NE Corner Batten Bar	Free of tears, punctures, or thin spots.	S			

**Note** 1. For repairs, see Appendix C-1 for the 45-mil reinforced polypropylene repair procedure. 2. Indicate sump extension identification in Required Action.

**TWICE-A-MONTH**

Date/Time: 4/25/03 0830-1130

Weather Conditions: Cloudy 46°

Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**3.4.1 Drainage Channels and 3.4.2 Diversion Berms**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
2	Interior Drainage Channels	Geotextile fabric free of damages, if exposed	S			
3	Interior Drainage Channels	Channel free of leaves or debris	S			
4	North Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
5	North Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed	S			
6	North Perimeter Drainage Channels	Channel free of leaves or debris	S			
7	East Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
8	East Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed	S			
9	East Perimeter Drainage Channels	Channel free of leaves or debris	S			
10	South Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
11	South Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed	S			
12	South Perimeter Drainage Channels	Channel free of leaves or debris	S			
13	West Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
14	West Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed	S			
15	West Perimeter Drainage Channels	Channel free of leaves or debris	S			
16	Interior Diversion Berms	Free of tears, punctures, or thin spots in liner	S			
17	Interior Diversion Berms	Geotextile fabric free of damages, if exposed	S			

**3.5 Articulating Concrete Blocks (AB) System**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior "Y" Channel Dead-man	Free of balloning liner at battens	S			
2	Interior "Y" Channel Dead-man	Liner free of tears, punctures, or thin spots	S			
3	Upstream SE Perimeter Channel Dead-man	Free of balloning at battens	S			
4	Upstream SE Perimeter Channel Dead-man	Liner free of tears, punctures, or thin spots	S			
5	East Perimeter Channel Dead-man	Free of balloning at battens	S			
6	East Perimeter Channel Dead-man	Liner free of tears, punctures, or thin spots	S			

**TWICE-A-MONTH**

Date/Time: 4/25/03 1230-1330 Weather Conditions: Cloudy 49°

Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**4.1.1 Principal Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riser Pipe	Free of debris and obstructions	S			
2	H-Flume	Free of debris and obstructions	S			
3	H-Flume	Base is free of silt or sediment	S			

**4.2 Emergency Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Concrete Pad	Free of debris and obstructions	S			

**4.3 Embankment**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Embankment	Side-slopes free of debris	S			
2	Embankment	Side-slopes free of erosion gullies	S			
3	Embankment	Free of eroded areas	S			

**5.2 South Drainage Channel**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall	Opening or invert free of obstructions	S			

**TWICE-A-MONTH**

Date/Time: 5/6/03 1100 - 1530 Weather Conditions: Mostly Cloudy 69°

Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**3.2 Headwalls**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall "A" in NW Corner	Invert free of debris, obstructions, and sediment.	S			
2	Headwall "A" in NW Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
3	Headwall "A" in NW Corner Batten Bar	Free of tears, punctures, or thin spots.	S			
4	Headwall "A" Sump in NW Corner	Secure attachment of sump lid cap at liquid collection sump.	S			
5	Headwall "A" Sump in NW Corner	Free of tears, punctures, or thin spots in transition of liner to liner connection.	S			
6	Headwall "B" in NW Corner	Invert free of debris, obstructions, and sediment.	S			
7	Headwall "B" in NW Corner	Free of tears, punctures, or thin spots.	S			
8	Headwall "B" in NW Corner Batten Bar	Secure attachment of sump lid cap at liquid collection sump.	S			
9	Upstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment.	S			
10	Upstream Headwall in NE Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
11	Upstream Headwall in NE Corner Batten Bar	Free of tears, punctures, or thin spots.	S			
12	Upstream Headwall Sump in NE Corner	Free of tears, punctures, or thin spots in transition of liner to liner connection.	S			
13	Downstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment.	S			
14	Downstream Headwall in NE Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
15	Downstream Headwall NE Corner Batten Bar	Free of tears, punctures, or thin spots.	S			

**Note** 1. For repairs, see Appendix C-1 for the 45-mil reinforced polypropylene repair procedure. 2. Indicate sump extension identification in Required Action.

**TWICE-A-MONTH**

Date/Time: 5/6/03 1100 - 1530

Weather Conditions: Mostly Cloudy 69°

Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**3.4.1 Drainage Channels and 3.4.2 Diversion Berms**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
2	Interior Drainage Channels	Geotextile fabric free of damages, if exposed				
3	Interior Drainage Channels	Channel free of leaves or debris				
4	North Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner				
5	North Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed				
6	North Perimeter Drainage Channels	Channel free of leaves or debris				
7	East Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner				
8	East Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed				
9	East Perimeter Drainage Channels	Channel free of leaves or debris				
10	South Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner				
11	South Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed				
12	South Perimeter Drainage Channels	Channel free of leaves or debris				
13	West Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner				
14	West Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed				
15	West Perimeter Drainage Channels	Channel free of leaves or debris				
16	Interior Diversion Berms	Free of tears, punctures, or thin spots in liner				
17	Interior Diversion Berms	Geotextile fabric free of damages, if exposed				

**3.5 Articulating Concrete Blocks (AB) System**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior "Y" Channel Dead-man	Free of balloning liner at battens	S			
2	Interior "Y" Channel Dead-man	Liner free of tears, punctures, or thin spots				
3	Upstream SE Perimeter Channel Dead-man	Free of balloning at battens				
4	Upstream SE Perimeter Channel Dead-man	Liner free of tears, punctures, or thin spots				
5	East Perimeter Channel Dead-man	Free of balloning at battens				
6	East Perimeter Channel Dead-man	Liner free of tears, punctures, or thin spots				

**TWICE-A-MONTH**

Date/Time: 5/07/03 1230 - 1345 Weather Conditions: Cloudy 63°

Inspector(s): R Brown / D Pollett

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**4.1.1 Principal Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riser Pipe	Free of debris and obstructions	S			
2	H-Flume	Free of debris and obstructions	S			
3	H-Flume	Base is free of silt or sediment	S			

**4.2 Emergency Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Concrete Pad	Free of debris and obstructions	S			

**4.3 Embankment**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Embankment	Side-slopes free of debris	S			
2	Embankment	Side-slopes free of erosion gullies	S			
3	Embankment	Free of eroded areas	S			

**5.2 South Drainage Channel**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall	Opening or invert free of obstructions	S			

**TWICE-A-MONTH**

Date/Time: 5/22/03 0900 — 1400 Weather Conditions: Mostly Cloudy 52°  
 Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**3.2 Headwalls**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall "A" in NW Corner	Invert free of debris, obstructions, and sediment.	S			
2	Headwall "A" in NW Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
3	Headwall "A" in NW Corner Batten Bar	Free of tears, punctures, or thin spots.	S			
4	Headwall "A" Sump in NW Corner	Secure attachment of sump lid cap at liquid collection sump.	S			
5	Headwall "A" Sump in NW Corner	Free of tears, punctures, or thin spots in transition of liner to liner connection.	S			
6	Headwall "B" in NW Corner	Invert free of debris, obstructions, and sediment.	S			
7	Headwall "B" in NW Corner	Free of tears, punctures, or thin spots.	S			
8	Headwall "B" in NW Corner Batten Bar	Secure attachment of sump lid cap at liquid collection sump.	S			
9	Upstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment.	S			
10	Upstream Headwall in NE Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
11	Upstream Headwall in NE Corner Batten Bar	Free of tears, punctures, or thin spots.	S			
12	Upstream Headwall Sump in NE Corner	Free of tears, punctures, or thin spots in transition of liner to liner connection.	S			
13	Downstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment.	S			
14	Downstream Headwall in NE Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
15	Downstream Headwall NE Corner Batten Bar	Free of tears, punctures, or thin spots.	S			

Note 1. For repairs, see Appendix C-1 for the 45-mil reinforced polypropylene repair procedure. 2. Indicate sump extension identification in Required Action.



**TWICE-A-MONTH**

Date/Time: 5/22/03 0900 - 1500 Weather Conditions: Mostly Cloudy 51°

Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**3.4.1 Drainage Channels and 3.4.2 Diversion Berms**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial	
1	Interior Drainage Channels	Free of tears, punctures, or thin spots in liner	S				
2	Interior Drainage Channels	Geotextile fabric free of damages, if exposed					
3	Interior Drainage Channels	Channel free of leaves or debris					
4	North Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner					
5	North Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed					
6	North Perimeter Drainage Channels	Channel free of leaves or debris					
7	East Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner					
8	East Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed					
9	East Perimeter Drainage Channels	Channel free of leaves or debris					
10	South Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner					
11	South Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed					
12	South Perimeter Drainage Channels	Channel free of leaves or debris					
13	West Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner					
14	West Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed					
15	West Perimeter Drainage Channels	Channel free of leaves or debris					
16	Interior Diversion Berms	Free of tears, punctures, or thin spots in liner					
17	Interior Diversion Berms	Geotextile fabric free of damages, if exposed					

**3.5 Articulating Concrete Blocks (AB) System**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial	
1	Interior "Y" Channel Dead-man	Free of balloning liner at battens	S				
2	Interior "Y" Channel Dead-man	Liner free of tears, punctures, or thin spots					
3	Upstream SE Perimeter Channel Dead-man	Free of balloning at battens					
4	Upstream SE Perimeter Channel Dead-man	Liner free of tears, punctures, or thin spots					
5	East Perimeter Channel Dead-man	Free of balloning at battens					
6	East Perimeter Channel Dead-man	Liner free of tears, punctures, or thin spots					

**TWICE-A-MONTH**

Date/Time: 5/22/03 1400 - 1530 Weather Conditions: Partly Sunny 68°  
 Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**4.1.1 Principal Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riser Pipe	Free of debris and obstructions	S			
2	H-Flume	Free of debris and obstructions	S			
3	H-Flume	Base is free of silt or sediment	S			

**4.2 Emergency Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Concrete Pad	Free of debris and obstructions	S			

**4.3 Embankment**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Embankment	Side-slopes free of debris	S			
2	Embankment	Side-slopes free of erosion gullies	S			
3	Embankment	Free of eroded areas	S			

**5.2 South Drainage Channel**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall	Opening or invert free of obstructions	S			

**TWICE-A-MONTH**

Date/Time: 6/10/03 0900-1200 Weather Conditions: SUNNY 65°

Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**3.2 Headwalls**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall "A" in NW Corner	Invert free of debris, obstructions, and sediment.	S			
2	Headwall "A" in NW Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
3	Headwall "A" in NW Corner Batten Bar	Free of tears, punctures, or thin spots.	S			
4	Headwall "A" Sump in NW Corner	Secure attachment of sump lid cap at liquid collection sump.	S			
5	Headwall "A" Sump in NW Corner	Free of tears, punctures, or thin spots in transition of liner to liner connection.	S			
6	Headwall "B" in NW Corner	Invert free of debris, obstructions, and sediment.	S			
7	Headwall "B" in NW Corner	Free of tears, punctures, or thin spots.	S			
8	Headwall "B" in NW Corner Batten Bar	Secure attachment of sump lid cap at liquid collection sump.	S			
9	Upstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment.	S			
10	Upstream Headwall in NE Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
11	Upstream Headwall in NE Corner Batten Bar	Free of tears, punctures, or thin spots.	S			
12	Upstream Headwall Sump in NE Corner	Free of tears, punctures, or thin spots in transition of liner to liner connection.	S			
13	Downstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment.	S			
14	Downstream Headwall in NE Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
15	Downstream Headwall NE Corner Batten Bar	Free of tears, punctures, or thin spots.	S			

Note 1. For repairs, see Appendix C-1 for the 45-mil reinforced polypropylene repair procedure. 2. Indicate sump extension identification in Required Action.

**TWICE-A-MONTH**

Date/Time: 6/10/03 1000 - 1400 Weather Conditions: SUNNY 75°

Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**3.4.1 Drainage Channels and 3.4.2 Diversion Berms**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
2	Interior Drainage Channels	Geotextile fabric free of damages, if exposed	S			
3	Interior Drainage Channels	Channel free of leaves or debris	S			
4	North Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
5	North Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed	S			
6	North Perimeter Drainage Channels	Channel free of leaves or debris	S			
7	East Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
8	East Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed	S			
9	East Perimeter Drainage Channels	Channel free of leaves or debris	S			
10	South Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
11	South Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed	S			
12	South Perimeter Drainage Channels	Channel free of leaves or debris	S			
13	West Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
14	West Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed	S			
15	West Perimeter Drainage Channels	Channel free of leaves or debris	S			
16	Interior Diversion Berms	Free of tears, punctures, or thin spots in liner	S			
17	Interior Diversion Berms	Geotextile fabric free of damages, if exposed	S			

**3.5 Articulating Concrete Blocks (AB) System**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior "Y" Channel Dead-man	Free of ballooning liner at battens	S			
2	Interior "Y" Channel Dead-man	Liner free of tears, punctures, or thin spots	S			
3	Upstream SE Perimeter Channel Dead-man	Free of ballooning at battens	S			
4	Upstream SE Perimeter Channel Dead-man	Liner free of tears, punctures, or thin spots	S			
5	East Perimeter Channel Dead-man	Free of ballooning at battens	S			
6	East Perimeter Channel Dead-man	Liner free of tears, punctures, or thin spots	S			

**TWICE-A-MONTH**

Date/Time: 6/10/03 1000 - 1530 Weather Conditions: Partly Sunny 79°

Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**4.1.1 Principal Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riser Pipe	Free of debris and obstructions	S			
2	H-Flume	Free of debris and obstructions	S			
3	H-Flume	Base is free of silt or sediment	S			

**4.2 Emergency Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Concrete Pad	Free of debris and obstructions	S			

**4.3 Embankment**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Embankment	Side-slopes free of debris	S			
2	Embankment	Side-slopes free of erosion gullies	S			
3	Embankment	Free of eroded areas	S			

**5.2 South Drainage Channel**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall	Opening or invert free of obstructions	S			

**TWICE-A-MONTH**

Date/Time: 6/20/03 0930 - 1545 Weather Conditions: Sunny 65°

Inspector(s): R. Brown / D. Pollitt @

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency

**3.2 Headwalls**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall "A" in NW Corner	Invert free of debris, obstructions, and sediment.	S			
2	Headwall "A" in NW Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
3	Headwall "A" in NW Corner Batten Bar	Free of tears, punctures, or thin spots.	S			
4	Headwall "A" Sump in NW Corner	Secure attachment of sump lid cap at liquid collection sump.	S			
5	Headwall "A" Sump in NW Corner	Free of tears, punctures, or thin spots in transition of liner to liner connection.	S			
6	Headwall "B" in NW Corner	Invert free of debris, obstructions, and sediment.	S			
7	Headwall "B" in NW Corner	Free of tears, punctures, or thin spots.	S			
8	Headwall "B" in NW Corner Batten Bar	Secure attachment of sump lid cap at liquid collection sump.	S			
9	Upstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment.	S			
10	Upstream Headwall in NE Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
11	Upstream Headwall in NE Corner Batten Bar	Free of tears, punctures, or thin spots.	S			
12	Upstream Headwall Sump in NE Corner	Free of tears, punctures, or thin spots in transition of liner to liner connection.	S			
13	Downstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment.	S			
14	Downstream Headwall in NE Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
15	Downstream Headwall NE Corner Batten Bar	Free of tears, punctures, or thin spots.	S			

Note 1. For repairs, see Appendix C-1 for the 45-mil reinforced polypropylene repair procedure. 2. Indicate sump extension identification in Required Action.

**TWICE-A-MONTH**

Date/Time: 6/20/03 0930 - 1545 Weather Conditions: Sunny 75°

Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**3.4.1 Drainage Channels and 3.4.2 Diversion Berms**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
2	Interior Drainage Channels	Geotextile fabric free of damages, if exposed				
3	Interior Drainage Channels	Channel free of leaves or debris				
4	North Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner				
5	North Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed				
6	North Perimeter Drainage Channels	Channel free of leaves or debris				
7	East Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner				
8	East Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed				
9	East Perimeter Drainage Channels	Channel free of leaves or debris				
10	South Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner				
11	South Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed				
12	South Perimeter Drainage Channels	Channel free of leaves or debris				
13	West Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner				
14	West Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed				
15	West Perimeter Drainage Channels	Channel free of leaves or debris				
16	Interior Diversion Berms	Free of tears, punctures, or thin spots in liner				
17	Interior Diversion Berms	Geotextile fabric free of damages, if exposed				

**3.5 Articulating Concrete Blocks (AB) System**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior "Y" Channel Dead-man	Free of ballooning liner at battens	S			
2	Interior "Y" Channel Dead-man	Liner free of tears, punctures, or thin spots				
3	Upstream SE Perimeter Channel Dead-man	Free of ballooning at battens				
4	Upstream SE Perimeter Channel Dead-man	Liner free of tears, punctures, or thin spots				
5	East Perimeter Channel Dead-man	Free of ballooning at battens				
6	East Perimeter Channel Dead-man	Liner free of tears, punctures, or thin spots				

**TWICE-A-MONTH**

Date/Time: 6/23/03 0900 - 1400 Weather Conditions: Fair 62°

Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**4.1.1 Principal Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riser Pipe	Free of debris and obstructions	S			
2	H-Flume	Free of debris and obstructions	S			
3	H-Flume	Base is free of silt or sediment	S			

**4.2 Emergency Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Concrete Pad	Free of debris and obstructions	S			

**4.3 Embankment**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Embankment	Side-slopes free of debris	S			
2	Embankment	Side-slopes free of erosion gullies	S			
3	Embankment	Free of eroded areas	S			

**5.2 South Drainage Channel**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall	Opening or invert free of obstructions	S			



**TWICE-A-MONTH**

Date/Time: 7-9-03 1300

Weather Conditions: Partly Cloudy 88°

Inspector(s): J. Stampfer T. Stewart

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**3.2 Headwalls**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall "A" in NW Corner	Invert free of debris, obstructions, and sediment.	✓			
2	Headwall "A" in NW Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	✓			
3	Headwall "A" in NW Corner Batten Bar	Free of tears, punctures, or thin spots.	✓			
4	Headwall "A" Sump in NW Corner	Secure attachment of sump lid cap at liquid collection sump.	✓			
5	Headwall "A" Sump in NW Corner	Free of tears, punctures, or thin spots in transition of liner to liner connection.	✓			
6	Headwall "B" in NW Corner	Invert free of debris, obstructions, and sediment.	✓			
7	Headwall "B" in NW Corner	Free of tears, punctures, or thin spots.	✓			
8	Headwall "B" in NW Corner Batten Bar	Secure attachment of sump lid cap at liquid collection sump.	✓			
9	Upstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment.	✓			
10	Upstream Headwall in NE Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	✓			
11	Upstream Headwall in NE Corner Batten Bar	Free of tears, punctures, or thin spots.	✓			
12	Upstream Headwall Sump in NE Corner	Free of tears, punctures, or thin spots in transition of liner to liner connection.	✓			
13	Downstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment.	✓			
14	Downstream Headwall in NE Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	✓			
15	Downstream Headwall NE Corner Batten Bar	Free of tears, punctures, or thin spots.	✓			

Note 1. For repairs, see Appendix C-1 for the 45-mil reinforced polypropylene repair procedure. 2. Indicate sump extension identification in Required Action.

**TWICE-A-MONTH**

Date/Time: 7/9/03 1340

Weather Conditions: P Cloudy 89°

Inspector(s): J. Stamps T. Stewart

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**3.4.1 Drainage Channels and 3.4.2 Diversion Berms**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior Drainage Channels	Free of tears, punctures, or thin spots in liner	✓			
2	Interior Drainage Channels	Geotextile fabric free of damages, if exposed	✓			
3	Interior Drainage Channels	Channel free of leaves or debris	✓			
4	North Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner	✓			
5	North Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed	✓			
6	North Perimeter Drainage Channels	Channel free of leaves or debris	✓			
7	East Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner	✓			
8	East Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed	✓			
9	East Perimeter Drainage Channels	Channel free of leaves or debris	✓			
10	South Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner	✓			
11	South Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed	✓			
12	South Perimeter Drainage Channels	Channel free of leaves or debris	✓			
13	West Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner	✓			
14	West Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed	✓			
15	West Perimeter Drainage Channels	Channel free of leaves or debris	✓			
16	Interior Diversion Berms	Free of tears, punctures, or thin spots in liner	✓			
17	Interior Diversion Berms	Geotextile fabric free of damages, if exposed	✓			

**3.5 Articulating Concrete Blocks (AB) System**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior "Y" Channel Dead-man	Free of balloning liner at battens	✓			
2	Interior "Y" Channel Dead-man	Liner free of tears, punctures, or thin spots	✓			
3	Upstream SE Perimeter Channel Dead-man	Free of balloning at battens	✓			
4	Upstream SE Perimeter Channel Dead-man	Liner free of tears, punctures, or thin spots	✓			
5	East Perimeter Channel Dead-man	Free of balloning at battens	✓			
6	East Perimeter Channel Dead-man	Liner free of tears, punctures, or thin spots	✓			

**TWICE-A-MONTH**

Date/Time: 7/19/03 1400

Weather Conditions: PCloudy 850

Inspector(s): J Stanger

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**4.1.1 Principal Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riser Pipe	Free of debris and obstructions	✓			
2	H-Flume	Free of debris and obstructions	✓			
3	H-Flume	Base is free of silt or sediment	✓			

**4.2 Emergency Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Concrete Pad	Free of debris and obstructions	✓			

**4.3 Embankment**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Embankment	Side-slopes free of debris	✓			
2	Embankment	Side-slopes free of erosion gullies	✓			
3	Embankment	Free of eroded areas	✓			

**5.2 South Drainage Channel**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall	Opening or invert free of obstructions	✓			

**TWICE-A-MONTH**

Date/Time: <sup>RB</sup> 7131103 ~~8/1/03~~ 1030 — 1100 Weather Conditions: Sunny 78°  
 Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**3.2 Headwalls**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall "A" in NW Corner	Invert free of debris, obstructions, and sediment.	S			
2	Headwall "A" in NW Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
3	Headwall "A" in NW Corner Batten Bar	Free of tears, punctures, or thin spots.	S			
4	Headwall "A" Sump in NW Corner	Secure attachment of sump lid cap at liquid collection sump.	S			
5	Headwall "A" Sump in NW Corner	Free of tears, punctures, or thin spots in transition of liner to liner connection.	S			
6	Headwall "B" in NW Corner	Invert free of debris, obstructions, and sediment.	S			
7	Headwall "B" in NW Corner	Free of tears, punctures, or thin spots.	S			
8	Headwall "B" in NW Corner Batten Bar	Secure attachment of sump lid cap at liquid collection sump.	S			
9	Upstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment.	S			
10	Upstream Headwall in NE Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
11	Upstream Headwall in NE Corner Batten Bar	Free of tears, punctures, or thin spots.	S			
12	Upstream Headwall Sump in NE Corner	Free of tears, punctures, or thin spots in transition of liner to liner connection.	S			
13	Downstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment.	S			
14	Downstream Headwall in NE Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
15	Downstream Headwall NE Corner Batten Bar	Free of tears, punctures, or thin spots.	S			

Note 1. For repairs, see Appendix C-1 for the 45-mil reinforced polypropylene repair procedure. 2. Indicate sump extension identification in Required Action.

7131103<sup>RB</sup>

TWICE-A-MONTH

Date/Time: 8/1/03 1100 - 1350 Weather Conditions: Sunny 80'

Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**3.4.1 Drainage Channels and 3.4.2 Diversion Berms**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
2	Interior Drainage Channels	Geotextile fabric free of damages, if exposed				
3	Interior Drainage Channels	Channel free of leaves or debris				
4	North Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner				
5	North Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed				
6	North Perimeter Drainage Channels	Channel free of leaves or debris				
7	East Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner				
8	East Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed				
9	East Perimeter Drainage Channels	Channel free of leaves or debris				
10	South Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner				
11	South Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed				
12	South Perimeter Drainage Channels	Channel free of leaves or debris				
13	West Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner				
14	West Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed				
15	West Perimeter Drainage Channels	Channel free of leaves or debris				
16	Interior Diversion Berms	Free of tears, punctures, or thin spots in liner				
17	Interior Diversion Berms	Geotextile fabric free of damages, if exposed				

**3.5 Articulating Concrete Blocks (AB) System**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior "Y" Channel Dead-man	Free of balloning liner at battens	S			
2	Interior "Y" Channel Dead-man	Liner free of tears, punctures, or thin spots				
3	Upstream SE Perimeter Channel Dead-man	Free of balloning at battens				
4	Upstream SE Perimeter Channel Dead-man	Liner free of tears, punctures, or thin spots				
5	East Perimeter Channel Dead-man	Free of balloning at battens				
6	East Perimeter Channel Dead-man	Liner free of tears, punctures, or thin spots				

TWICE-A-MONTH

Date/Time: 7/31/03<sup>RB</sup> 8/1/03 1100-1350 Weather Conditions: Sunny 84°  
 Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

4.1.1 Principal Spillway

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riser Pipe	Free of debris and obstructions	S			
2	H-Flume	Free of debris and obstructions	S			
3	H-Flume	Base is free of silt or sediment	S			

4.2 Emergency Spillway

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Concrete Pad	Free of debris and obstructions	S			

4.3 Embankment

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Embankment	Side-slopes free of debris	S			
2	Embankment	Side-slopes free of erosion gullies	S			
3	Embankment	Free of eroded areas	S			

5.2 South Drainage Channel

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall	Opening or invert free of obstructions	S			

**TWICE-A-MONTH**

Date/Time: 8/7/03 0900 - 1000 Weather Conditions: Mostly Cloudy 76°

Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**3.2 Headwalls**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall "A" in NW Corner	Invert free of debris, obstructions, and sediment.	S			
2	Headwall "A" in NW Corner	Free of balloning liner at batten bar (indicating accumulated liquids)	S			
3	Headwall "A" in NW Corner Batten Bar	Free of tears, punctures, or thin spots.	S			
4	Headwall "A" Sump in NW Corner	Secure attachment of sump lid cap at liquid collection sump.	S			
5	Headwall "A" Sump in NW Corner	Free of tears, punctures, or thin spots in transition of liner to liner connection.	S			
6	Headwall "B" in NW Corner	Invert free of debris, obstructions, and sediment.	S			
7	Headwall "B" in NW Corner	Free of tears, punctures, or thin spots.	S			
8	Headwall "B" in NW Corner Batten Bar	Secure attachment of sump lid cap at liquid collection sump.	S			
9	Upstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment.	S			
10	Upstream Headwall in NE Corner	Free of balloning liner at batten bar (indicating accumulated liquids)	S			
11	Upstream Headwall in NE Corner Batten Bar	Free of tears, punctures, or thin spots.	S			
12	Upstream Headwall Sump in NE Corner	Free of tears, punctures, or thin spots in transition of liner to liner connection.	S			
13	Downstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment.	S			
14	Downstream Headwall in NE Corner	Free of balloning liner at batten bar (indicating accumulated liquids)	S			
15	Downstream Headwall NE Corner Batten Bar	Free of tears, punctures, or thin spots.	S			

Note 1. For repairs, see Appendix C-1 for the 45-mil reinforced polypropylene repair procedure. 2. Indicate sump extension identification in Required Action.

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**TWICE-A-MONTH**

Date/Time: 8/7/03 0900-1400 Weather Conditions: Mostly Cloudy 76°  
 Inspector(s): R. Brown / D. Pollett

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**3.4.1 Drainage Channels and 3.4.2 Diversion Berms**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial	
1	Interior Drainage Channels	Free of tears, punctures, or thin spots in liner	S				
2	Interior Drainage Channels	Geotextile fabric free of damages, if exposed					
3	Interior Drainage Channels	Channel free of leaves or debris					
4	North Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner					
5	North Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed					
6	North Perimeter Drainage Channels	Channel free of leaves or debris					
7	East Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner					
8	East Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed					
9	East Perimeter Drainage Channels	Channel free of leaves or debris					
10	South Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner					
11	South Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed					
12	South Perimeter Drainage Channels	Channel free of leaves or debris					
13	West Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner					
14	West Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed					
15	West Perimeter Drainage Channels	Channel free of leaves or debris					
16	Interior Diversion Berms	Free of tears, punctures, or thin spots in liner					
17	Interior Diversion Berms	Geotextile fabric free of damages, if exposed					

**3.5 Articulating Concrete Blocks (AB) System**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior "Y" Channel Dead-man	Free of balloning liner at battens	S			
2	Interior "Y" Channel Dead-man	Liner free of tears, punctures, or thin spots	S			
3	Upstream SE Perimeter Channel Dead-man	Free of balloning at battens	S			
4	Upstream SE Perimeter Channel Dead-man	Liner free of tears, punctures, or thin spots	S			
5	East Perimeter Channel Dead-man	Free of balloning at battens	S			
6	East Perimeter Channel Dead-man	Liner free of tears, punctures, or thin spots	S			



**TWICE-A-MONTH**

Date/Time: 8/7/03 0900 - 1400

Weather Conditions: Mostly Cloudy 78°

Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**4.1.1 Principal Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riser Pipe	Free of debris and obstructions	S			
2	H-Flume	Free of debris and obstructions	S			
3	H-Flume	Base is free of silt or sediment	S			

**4.2 Emergency Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Concrete Pad	Free of debris and obstructions	S			

**4.3 Embankment**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Embankment	Side-slopes free of debris	S			
2	Embankment	Side-slopes free of erosion gullies	S			
3	Embankment	Free of eroded areas	S			

**5.2 South Drainage Channel**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall	Opening or invert free of obstructions	S			

**TWICE-A-MONTH**

Date/Time: 8/25/03 0850 - 1200 Weather Conditions: Clear 75°

Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**3.2 Headwalls**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall "A" in NW Corner	Invert free of debris, obstructions, and sediment.	S			
2	Headwall "A" in NW Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
3	Headwall "A" in NW Corner Batten Bar	Free of tears, punctures, or thin spots.	S			
4	Headwall "A" Sump in NW Corner	Secure attachment of sump lid cap at liquid collection sump.	S			
5	Headwall "A" Sump in NW Corner	Free of tears, punctures, or thin spots in transition of liner to liner connection.	S			
6	Headwall "B" in NW Corner	Invert free of debris, obstructions, and sediment.	S			
7	Headwall "B" in NW Corner	Free of tears, punctures, or thin spots.	S			
8	Headwall "B" in NW Corner Batten Bar	Secure attachment of sump lid cap at liquid collection sump.	S			
9	Upstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment.	S			
10	Upstream Headwall in NE Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
11	Upstream Headwall in NE Corner Batten Bar	Free of tears, punctures, or thin spots.	S			
12	Upstream Headwall Sump in NE Corner	Free of tears, punctures, or thin spots in transition of liner to liner connection.	S			
13	Downstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment.	S			
14	Downstream Headwall in NE Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
15	Downstream Headwall NE Corner Batten Bar	Free of tears, punctures, or thin spots.	S			

Note 1. For repairs, see Appendix C-1 for the 45-mil reinforced polypropylene repair procedure. 2. Indicate sump extension identification in Required Action.

**TWICE-A-MONTH**

Date/Time: 8/25/03 1000 - 1350 Weather Conditions: Clear 88°

Inspector(s): R. Brown / D. Pollett

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**3.4.1 Drainage Channels and 3.4.2 Diversion Berms**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
2	Interior Drainage Channels	Geotextile fabric free of damages, if exposed				
3	Interior Drainage Channels	Channel free of leaves or debris				
4	North Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner				
5	North Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed				
6	North Perimeter Drainage Channels	Channel free of leaves or debris				
7	East Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner				
8	East Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed				
9	East Perimeter Drainage Channels	Channel free of leaves or debris				
10	South Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner				
11	South Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed				
12	South Perimeter Drainage Channels	Channel free of leaves or debris				
13	West Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner				
14	West Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed				
15	West Perimeter Drainage Channels	Channel free of leaves or debris				
16	Interior Diversion Berms	Free of tears, punctures, or thin spots in liner				
17	Interior Diversion Berms	Geotextile fabric free of damages, if exposed				

**3.5 Articulating Concrete Blocks (AB) System**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior "Y" Channel Dead-man	Free of balloning liner at battens	S			
2	Interior "Y" Channel Dead-man	Liner free of tears, punctures, or thin spots				
3	Upstream SE Perimeter Channel Dead-man	Free of balloning at battens				
4	Upstream SE Perimeter Channel Dead-man	Liner free of tears, punctures, or thin spots				
5	East Perimeter Channel Dead-man	Free of balloning at battens				
6	East Perimeter Channel Dead-man	Liner free of tears, punctures, or thin spots				

**TWICE-A-MONTH**

Date/Time: 8/25/03 1000 - 1530 Weather Conditions: Clear 75°

Inspector(s): R. Brown/D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**4.1.1 Principal Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riser Pipe	Free of debris and obstructions	S			
2	H-Flume	Free of debris and obstructions	S			
3	H-Flume	Base is free of silt or sediment	S			

**4.2 Emergency Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Concrete Pad	Free of debris and obstructions	S			

**4.3 Embankment**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Embankment	Side-slopes free of debris	S			
2	Embankment	Side-slopes free of erosion gullies	S			
3	Embankment	Free of eroded areas	S			

**5.2 South Drainage Channel**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall	Opening or invert free of obstructions	S			

**TWICE-A-MONTH**

Date/Time: 9/4/03 0910-1200 Weather Conditions: Sunny 73°

Inspector(s): R. Brown / D. Pollitt

Type of Inspection: Routine  Severe Weather

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**3.2 Headwalls**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall "A" in NW Corner	Invert free of debris, obstructions, and sediment.	S			
2	Headwall "A" in NW Corner	Free of balloning liner at batten bar (indicating accumulated liquids)	S			
3	Headwall "A" in NW Corner Batten Bar	Free of tears, punctures, or thin spots.	S			
4	Headwall "A" Sump in NW Corner	Secure attachment of sump lid cap at liquid collection sump.	S			
5	Headwall "A" Sump in NW Corner	Free of tears, punctures, or thin spots in transition of liner to liner connection.	S			
6	Headwall "B" in NW Corner	Invert free of debris, obstructions, and sediment.	S			
7	Headwall "B" in NW Corner	Free of tears, punctures, or thin spots.	S			
8	Headwall "B" in NW Corner Batten Bar	Secure attachment of sump lid cap at liquid collection sump.	S			
9	Upstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment.	S			
10	Upstream Headwall in NE Corner	Free of balloning liner at batten bar (indicating accumulated liquids)	S			
11	Upstream Headwall in NE Corner Batten Bar	Free of tears, punctures, or thin spots.	S			
12	Upstream Headwall Sump in NE Corner	Free of tears, punctures, or thin spots in transition of liner to liner connection.	S			
13	Downstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment.	S			
14	Downstream Headwall in NE Corner	Free of balloning liner at batten bar (indicating accumulated liquids)	S			
15	Downstream Headwall NE Corner Batten Bar	Free of tears, punctures, or thin spots.	S			

Note 1. For repairs, see Appendix C-1 for the 45-mil reinforced polypropylene repair procedure. 2. Indicate sump extension identification in Required Action.

**TWICE-A-MONTH**

Date/Time: 9/14/03 1055-1400 Weather Conditions: Sunny 73°  
 Inspector(s): R. Brown / D. Pollitt Type of Inspection: Routine  Severe Weather   
 See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**3.4.1 Drainage Channels and 3.4.2 Diversion Berms**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial	
1	Interior Drainage Channels	Free of tears, punctures, or thin spots in liner	S				
2	Interior Drainage Channels	Geotextile fabric free of damages, if exposed					
3	Interior Drainage Channels	Channel free of leaves or debris					
4	North Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner					
5	North Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed					
6	North Perimeter Drainage Channels	Channel free of leaves or debris					
7	East Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner					
8	East Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed					
9	East Perimeter Drainage Channels	Channel free of leaves or debris					
10	South Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner					
11	South Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed					
12	South Perimeter Drainage Channels	Channel free of leaves or debris					
13	West Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner					
14	West Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed					
15	West Perimeter Drainage Channels	Channel free of leaves or debris					
16	Interior Diversion Berms	Free of tears, punctures, or thin spots in liner					
17	Interior Diversion Berms	Geotextile fabric free of damages, if exposed					

**3.5 Articulating Concrete Blocks (AB) System**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial	
1	Interior "Y" Channel Dead-man	Free of balloning liner at battens	S				
2	Interior "Y" Channel Dead-man	Liner free of tears, punctures, or thin spots					
3	Upstream SE Perimeter Channel Dead-man	Free of balloning at battens					
4	Upstream SE Perimeter Channel Dead-man	Liner free of tears, punctures, or thin spots					
5	East Perimeter Channel Dead-man	Free of balloning at battens					
6	East Perimeter Channel Dead-man	Liner free of tears, punctures, or thin spots					

**TWICE-A-MONTH**

Date/Time: 9/4/03 1200-1530 Weather Conditions: Sunny 76°

Inspector(s): R. Brown / D. Pollitt Type of Inspection: Routine  Severe Weather

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**4.1.1 Principal Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riser Pipe	Free of debris and obstructions	S			
2	H-Flume	Free of debris and obstructions	S			
3	H-Flume	Base is free of silt or sediment	S			

**4.2 Emergency Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Concrete Pad	Free of debris and obstructions	S			

**4.3 Embankment**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Embankment	Side-slopes free of debris	S			
2	Embankment	Side-slopes free of erosion gullies	S			
3	Embankment	Free of eroded areas	S			

**5.2 South Drainage Channel**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall	Opening or invert free of obstructions	S			

**TWICE-A-MONTH**

Date/Time: 9/30/03 1040 - 1450 Weather Conditions: Fair 46°  
 Inspector(s): R. Brown / T. Stewart Type of Inspection: Routine  Severe Weather   
 See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**3.4.1 Drainage Channels and 3.4.2 Diversion Berms**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior Drainage Channels	Free of tears, punctures, or thin spots in liner	S			
2	Interior Drainage Channels	Geotextile fabric free of damages, if exposed				
3	Interior Drainage Channels	Channel free of leaves or debris				
4	North Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner				
5	North Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed				
6	North Perimeter Drainage Channels	Channel free of leaves or debris				
7	East Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner				
8	East Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed				
9	East Perimeter Drainage Channels	Channel free of leaves or debris				
10	South Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner				
11	South Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed				
12	South Perimeter Drainage Channels	Channel free of leaves or debris				
13	West Perimeter Drainage Channels	Free of tears, punctures, or thin spots in liner				
14	West Perimeter Drainage Channels	Geotextile fabric free of damages, if exposed				
15	West Perimeter Drainage Channels	Channel free of leaves or debris				
16	Interior Diversion Berms	Free of tears, punctures, or thin spots in liner				
17	Interior Diversion Berms	Geotextile fabric free of damages, if exposed				

**3.5 Articulating Concrete Blocks (AB) System**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior "Y" Channel Dead-man	Free of balloning liner at battens	S			
2	Interior "Y" Channel Dead-man	Liner free of tears, punctures, or thin spots				
3	Upstream SE Perimeter Channel Dead-man	Free of balloning at battens				
4	Upstream SE Perimeter Channel Dead-man	Liner free of tears, punctures, or thin spots				
5	East Perimeter Channel Dead-man	Free of balloning at battens				
6	East Perimeter Channel Dead-man	Liner free of tears, punctures, or thin spots				



TWICE-A-MONTH

Date/Time: 9/30/03 1240 - 1500

Weather Conditions: Sunny 64°

Inspector(s): R. Brown / T. Stewart

Type of Inspection: Routine  Severe Weather

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

4.1.1 Principal Spillway

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riser Pipe	Free of debris and obstructions	S			
2	H-Flume	Free of debris and obstructions	S			
3	H-Flume	Base is free of silt or sediment	S			

4.2 Emergency Spillway

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Concrete Pad	Free of debris and obstructions	S			

4.3 Embankment

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Embankment	Side-slopes free of debris	S			
2	Embankment	Side-slopes free of erosion gullies	S			
3	Embankment	Free of eroded areas	S			

5.2 South Drainage Channel

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall	Opening or invert free of obstructions	S			

**TWICE-A-MONTH**

Date/Time: 9/29/03 1445-1530 Weather Conditions: Fair 62°

Inspector(s): R. Brown / Tom Stewart

Type of Inspection: Routine  Severe Weather

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**3.2 Headwalls**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall "A" in NW Corner	Invert free of debris, obstructions, and sediment.	S			
2	Headwall "A" in NW Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
3	Headwall "A" in NW Corner Batten Bar	Free of tears, punctures, or thin spots.	S			
4	Headwall "A" Sump in NW Corner	Secure attachment of sump lid cap at liquid collection sump.	S			
5	Headwall "A" Sump in NW Corner	Free of tears, punctures, or thin spots in transition of liner to liner connection.	S			
6	Headwall "B" in NW Corner	Invert free of debris, obstructions, and sediment.	S			
7	Headwall "B" in NW Corner	Free of tears, punctures, or thin spots.	S			
8	Headwall "B" in NW Corner Batten Bar	Secure attachment of sump lid cap at liquid collection sump.	S			
9	Upstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment.	S			
10	Upstream Headwall in NE Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
11	Upstream Headwall in NE Corner Batten Bar	Free of tears, punctures, or thin spots.	S			
12	Upstream Headwall Sump in NE Corner	Free of tears, punctures, or thin spots in transition of liner to liner connection.	S			
13	Downstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment.	S			
14	Downstream Headwall in NE Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
15	Downstream Headwall NE Corner Batten Bar	Free of tears, punctures, or thin spots.	S			

Note 1. For repairs, see Appendix C-1 for the 45-mil reinforced polypropylene repair procedure. 2. Indicate sump extension identification in Required Action.

## TWICE-A-MONTH

Date/Time: 10/15/03 1030

Weather Conditions: Sunny 50°

Inspector(s): R. Brown / T. Stewart

Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2. "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

### 3.2 Headwalls

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall "A" in NW Corner	Invert free of debris, obstructions, and sediment/silt.	S			
2	Headwall "A" in NW Corner	Free of balloning liner at batten bar (indicating accumulated liquids)	S			
3	Headwall "A" in NW Corner Batten Bar	Free of tears, penetrations, or thin spots.	S			
4	Headwall "A" Sump in NW Corner	Secure attachment of sump lid cap at liquid collection sump.	S			
5	Headwall "A" Sump in NW Corner	Free of tears, penetrations, or thin spots in transition of liner to liner connection.	S			
6	Headwall "B" in NW Corner	Invert free of debris, obstructions, and sediment/silt.	S			
7	Headwall "B" in NW Corner	Free of balloning liner at batten bar (indicating accumulated liquids)	S			
8	Headwall "B" in NW Corner	Free of tears, penetrations, or thin spots.	S			
9	Headwall "B" in NW Corner Batten Bar	Secure attachment of sump lid cap at liquid collection sump.	S			
10	Upstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment/silt.	S			
11	Upstream Headwall in NE Corner	Free of balloning liner at batten bar (indicating accumulated liquids)	S			
12	Upstream Headwall in NE Corner Batten Bar	Free of tears, penetrations, or thin spots.	S			
13	Upstream Headwall Sump in NE Corner	Free of tears, penetrations, or thin spots in transition of liner to liner connection.	S			
14	Downstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment/silt.	S			
15	Downstream Headwall in NE Corner	Free of balloning liner at batten bar (indicating accumulated liquids)	S			
16	Downstream Headwall NE Corner Batten Bar	Free of tears, penetrations, or thin spots.	S			

## B-2 Twice-a-Month Inspections

Date/Time: 10/15/03 1030-1530  
 Inspector(s): R. Brown / T. Stewart

Weather Conditions: Sunny 50°  
 Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2, "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 O&M Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but are not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4-inch diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An O&M inspection performed following a severe weather event will count as an inspection for the specified period.

### 3.4.1 Drainage Channels and 3.4.2 Diversion Berms

Number	O&M Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior Y-Channel	Free of tears, penetrations, or thin spots in liner	S			
2	Interior Y-Channel	Geotextile fabric free of damages, if exposed	S			
3	Interior Y-Channel	Channel free of leaves or debris impeding flow	S			
4	Interior Y-Channel	Free of soft spots or wet areas	S			
5	North Perimeter Drainage Channel	Free of tears, penetrations, or thin spots in liner	S			
6	North Perimeter Drainage Channel	Geotextile fabric free of damages, if exposed	S			
7	North Perimeter Drainage Channel	Channel free of leaves or debris impeding flow	S			
8	North Perimeter Drainage Channel	Free of soft spots or wet areas	S			
9	North Channel Emergency Spillway	Free of tears, penetrations, or thin spots in liner	S			
10	North Channel Emergency Spillway	Geotextile fabric free of damages, if exposed	S			
11	North Channel Emergency Spillway	Channel free of leaves or debris impeding flow	S			
12	North Channel Emergency Spillway	Free of soft spots or wet areas	S			
13	East Perimeter Drainage Channel	Free of tears, penetrations, or thin spots in liner	S			
14	East Perimeter Drainage Channel	Geotextile fabric free of damages, if exposed	S			
15	East Perimeter Drainage Channel	Channel free of leaves or debris impeding flow	S			
16	East Perimeter Drainage Channel	Free of soft spots or wet areas	S			
17	South Perimeter Drainage Channel	Free of tears, penetrations, or thin spots in liner	S			
18	South Perimeter Drainage Channel	Geotextile fabric free of damages, if exposed	S			
19	South Perimeter Drainage Channel	Channel free of leaves or debris impeding flow	S			
20	South Perimeter Drainage Channel	Free of soft spots or wet areas	S			
21	West Perimeter Drainage Channel	Free of tears, penetrations, or thin spots in liner	S			
22	West Perimeter Drainage Channel	Geotextile fabric free of damages, if exposed	S			
23	West Perimeter Drainage Channel	Channel free of leaves or debris impeding flow	S			
24	West Perimeter Drainage Channel	Free of soft spots or wet areas	S			
25	Interior Diversion Berms <sup>1</sup>	Free of tears, penetrations, or thin spots in liner	S			
26	Interior Diversion Berms <sup>1</sup>	Geotextile fabric free of damages, if exposed	S			
27	Interior Diversion Berms <sup>1</sup>	Free of soft spots or wet areas	S			

Note: 1. Indicate which interior diversion berm in the Required Action.

Date: 10/15/03 - 1030-1530  
 Inspector: R. Brown / T. Stewart

B-2 Twice a Month inspections

Weather Conditions: Sunny 50°  
 Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2, "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice a Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1, O&M Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-5, "Repair Response Matrix", for response time.
3. Severe weather conditions include, but are not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4-inch diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An O&M inspection performed following a severe weather event will count as an inspection for the specified period.

### 3.5 Articulating Concrete Block (AB) System

Number	O&M Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Geomembrane Liner Flap - South Y-Channel Inlet <sup>1</sup>	Free of tears, penetrations, or thin spots in liner	S			
2	Geomembrane Liner Flap - South Y-Channel Inlet <sup>1</sup>	Free of ballooning liner / accumulated liquid	S			
3	Geomembrane Liner Flap - South Y-Channel Inlet <sup>1</sup>	Flap is tied-in into the AB mat blocks	S			
4	Geomembrane Liner Flap - North Y-Channel Inlet <sup>1</sup>	Free of tears, penetrations, or thin spots in liner	S			
5	Geomembrane Liner Flap - North Y-Channel Inlet <sup>1</sup>	Free of ballooning liner / accumulated liquid	S			
6	Geomembrane Liner Flap - North Y-Channel Inlet <sup>1</sup>	Flap is tied-in into the AB mat blocks	S			
7	Geomembrane Liner Flap - Along Y-Channel at Diversion Berm 6	Free of tears, penetrations, or thin spots in liner	S			
8	Geomembrane Liner Flap - Along Y-Channel at Diversion Berm 6	Free of ballooning liner / accumulated liquid	S			
9	Geomembrane Liner Flap - Along Y-Channel at Diversion Berm 6	Flap is tied-in into the AB mat blocks	S			
10	Upstream SE Perimeter Channel Dead-man	Liner free of tears, penetrations, or thin spots	S			

Note: 1. The dead-man structures at the South & North inlet of the interior Y-channel are covered with geomembrane liner flaps. Upon identification of tears/penetrations/thin spots, the Geomembrane Liner Flap shall be opened to inspect the dead-man structures at the South & North inlets. Remove any accumulated liquids (note in the Required Action) & proceed with inspection items 11 through 22 on the next page.

## B-2 Twice-a-Month Inspections

Date/Time: 10/15/03  
 Inspector(s): A. Brown / T. Stewart

Weather Conditions: \_\_\_\_\_

Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2, "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 O&M Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but are not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4-inch diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An O&M inspection performed following a severe weather event will count as an inspection for the specified period.

### 3.5 Articulating Concrete Block (AB) System

Continued

Number	O&M Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
11	Southern Dead-man at Y-Channel Inlet <sup>2</sup>	IRP Cap liner is free of tears, penetrations, or thin spots	N/A			
12	Southern Dead-man at Y-Channel Inlet <sup>2</sup>	Liner & gasket material are securely attached to the dead-man structure at the batten bar (no seepage points)				
13	Southern Dead-man at Y-Channel Inlet <sup>2</sup>	Concrete free of cracking >1/16" wide				
14	Southern Dead-man at Y-Channel Inlet <sup>2</sup>	Construction joints maintained				
15	Southern Dead-man at Y-Channel Inlet <sup>2</sup>	Free of surface spalling damaging integrity				
16	Southern Dead-man at Y-Channel Inlet <sup>2</sup>	Cementitious fill material free of spalling or void spaces allowing water to pool or erosion of adjacent fill material				
17	Northern Dead-man at Y-Channel Inlet <sup>2</sup>	IRP Cap liner is free of tears, penetrations, or thin spots				
18	Northern Dead-man at Y-Channel Inlet <sup>2</sup>	Liner & gasket material are securely attached to the dead-man structure at the batten bar (no seepage points)				
19	Northern Dead-man at Y-Channel Inlet <sup>2</sup>	Concrete free of cracking >1/16" wide				
20	Northern Dead-man at Y-Channel Inlet <sup>2</sup>	Construction joints maintained				
21	Northern Dead-man at Y-Channel Inlet <sup>2</sup>	Free of surface spalling damaging integrity				
22	Northern Dead-man at Y-Channel Inlet <sup>2</sup>	Cementitious fill material free of spalling or void spaces allowing water to pool or erosion of adjacent fill material				

- Note: 1. The dead-man structures at the South & North inlet of the interior Y-channel are covered with geomembrane liner flaps. Upon identification of tears/penetrations/thin spots, the Geomembrane Liner Flap shall be opened to inspect the dead-man structures at the South & North inlets. Remove any accumulated liquids (note in the Required Action) & proceed with inspection items 11 through 22.
2. Upon repair, reinstall the Geomembrane Liner Flap pursuant to Section 3.5.3.1.

## B-2 Twice-a-Month Inspections

Date/Time: 10/15/03 1030-1530  
 Inspector(s) R. Brown / T. Stewart

Weather Conditions: Sunny 50°

Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2, "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/ Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 O&M Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but are not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4-inch diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An O&M inspection performed following a severe weather event will count as an inspection for the specified period.

### 4.1.1 Principal Spillway

Number	O&M Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riser Pipe	Free of debris and obstructions	S			
2	H-Flume	Free of debris and obstructions	S			
3	H-Flume	Base is free of silt or sediment	S			

### 4.2 Emergency Spillway

Number	O&M Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Concrete Pad	Free of debris and obstructions	S			

### 4.4.3 Y-Channel Outfall

Number	O&M Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Outfall Structure	Concrete channel free of debris & obstructions	S			
2	Outfall Structure	Stilling basin free of debris & obstructions	S			
3	Outfall Structure	1" dia. weep holes free of debris & obstructions	S			
4	Geomembrane Liner Flap at inlet of the Outfall Structure	Free of tears, penetrations, or thin spots in liner	S			
5	Geomembrane Liner Flap at inlet of the Outfall Structure	Free of ballooning liner / accumulated liquid	S			
6	Geomembrane Liner Flap at inlet of the Outfall Structure	Flap is battened to the concrete channel	S			
7	Batten at inlet of the Outfall Structure	Free of tears, penetrations, or thin spots	S			

### 5.2 South Drain Inlet Area

Number	O&M Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Upstream Headwall	Invert free of debris & obstructions	S			
2	Downstream Headwall	Invert free of debris & obstructions	S			

**TWICE-A-MONTH**

Date/Time: 10/27/03 0930 - 1150 Weather Conditions: Partly Cloudy 48°  
 Inspector(s): R. BROWN / D. POLLIT Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2. "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

**3.2 Headwalls**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall "A" in NW Corner	Invert free of debris, obstructions, and sediment/silt.	S			
2	Headwall "A" in NW Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
3	Headwall "A" in NW Corner Batten Bar	Free of tears, penetrations, or thin spots.	S			
4	Headwall "A" Sump in NW Corner	Secure attachment of sump lid cap at liquid collection sump.	S			
5	Headwall "A" Sump in NW Corner	Free of tears, penetrations, or thin spots in transition of liner to liner connection.	S			
6	Headwall "B" in NW Corner	Invert free of debris, obstructions, and sediment/silt.	S			
7	Headwall "B" in NW Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
8	Headwall "B" in NW Corner	Free of tears, penetrations, or thin spots.	S			
9	Headwall "B" in NW Corner Batten Bar	Secure attachment of sump lid cap at liquid collection sump.	S			
10	Upstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment/silt.	S			
11	Upstream Headwall in NE Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
12	Upstream Headwall in NE Corner Batten Bar	Free of tears, penetrations, or thin spots.	S			
13	Upstream Headwall Sump in NE Corner	Free of tears, penetrations, or thin spots in transition of liner to liner connection.	S			
14	Downstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment/silt.	S			
15	Downstream Headwall in NE Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
16	Downstream Headwall NE Corner Batten Bar	Free of tears, penetrations, or thin spots.	S			



**TWICE-A-MONTH**

Date/Time: 10/27/03 1020 - 1500 Weather Conditions: Partly Cloudy 48°  
 Inspector(s): R. Brown / D. Pollitt Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2. "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

**3.4.1 Drainage Channels and 3.4.2 Diversion Berms**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior Y-Channel	Free of tears, penetrations, or thin spots in liner	S			
2	Interior Y-Channel	Geotextile fabric free of damages, if exposed	S			
3	Interior Y-Channel	Channel free of leaves or debris	S			
4	Interior Y-Channel	Free of soft spots or wet areas	S			
5	North Perimeter Drainage Channel	Free of tears, penetrations, or thin spots in liner	S			
6	North Perimeter Drainage Channel	Geotextile fabric free of damages, if exposed	S			
7	North Perimeter Drainage Channel	Channel free of leaves or debris	S			
8	North Perimeter Drainage Channel	Free of soft spots or wet areas	S			
9	North Channel Emergency Spillway	Free of tears, penetrations, or thin spots in liner	S			
10	North Channel Emergency Spillway	Geotextile fabric free of damages, if exposed	S			
11	North Channel Emergency Spillway	Channel free of leaves or debris impeding flow	S			
12	North Channel Emergency Spillway	Free of soft spots or wet areas	S			
13	East Perimeter Drainage Channel	Free of tears, penetrations, or thin spots in liner	S			
14	East Perimeter Drainage Channel	Geotextile fabric free of damages, if exposed	S			
16	East Perimeter Drainage Channel	Channel free of leaves or debris impeding flow	S			
16	East Perimeter Drainage Channel	Free of soft spots or wet areas	S			
17	South Perimeter Drainage Channel	Free of tears, penetrations, or thin spots in liner	S			
18	South Perimeter Drainage Channel	Geotextile fabric free of damages, if exposed	S			
19	South Perimeter Drainage Channel	Channel free of leaves or debris impeding flow	S			
20	South Perimeter Drainage Channel	Free of soft spots or wet areas	S			
21	West Perimeter Drainage Channel	Free of tears, penetrations, or thin spots in liner	S			
22	West Perimeter Drainage Channel	Geotextile fabric free of damages, if exposed	S			
23	West Perimeter Drainage Channel	Channel free of leaves or debris impeding flow	S			
24	West Perimeter Drainage Channel	Free of soft spots or wet areas	S			
25	Interior Diversion Berms	Free of tears, penetrations, or thin spots in liner	S			
26	Interior Diversion Berms	Geotextile fabric free of damages, if exposed	S			
27	Interior Diversion Berms	Free of soft spots or wet areas	S			

Note: 1. Indicate which interior diversion berm in the Required Action

**TWICE-A-MONTH**

Date/Time: 10/27/03 1020 - 1500

Weather Conditions:

Partly Cloudy 48°

Inspector(s): R. Brown / D. Pollitt

Type of Inspection (Circle One):

General Inspection or  Following Severe Weather

1. See Appendix A-2, "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

**3.5 Articulating Concrete Blocks (AB) System**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Geomembrane Liner Flap - South Y-Channel Inlet 1	Free of tears, penetrations, or thin spots in liner	S			
2	Geomembrane Liner Flap - South Y-Channel Inlet 1	Free of ballooning liner / accumulated liquid	S			
3	Geomembrane Liner Flap - South Y-Channel Inlet 1	Flap is tied-in into AB mat blocks	S			
4	Geomembrane Liner Flap - North Y-Channel Inlet 1	Free of tears, penetrations, or thin spots in liner	S			
5	Geomembrane Liner Flap - North Y-Channel Inlet 1	Free of ballooning liner / accumulated liquid	S			
6	Geomembrane Liner Flap - North Y-Channel Inlet 1	Flap is tied-in into AB mat blocks	S			
7	Geomembrane Liner Flap - Along YChannel at Diversion Berm 6	Free of tears, penetrations, or thin spots in liner	S			
8	Geomembrane Liner Flap - Along YChannel at Diversion Berm 6	Free of ballooning liner / accumulated liquid	S			
9	Geomembrane Liner Flap - Along YChannel at Diversion Berm 6	Flap is tied-in into AB mat blocks	S			
10	Upstream SE Perimeter Channel Dead-Man	Liner free of tears, penetrations, or thin spots	S			

NOTE: 1. The deadman structures at the South North inlet of the interior Y-channel are covered with geomembrane liner flaps. Upon identification of tears/penetrations/thin spots, the Geomembrane Liner Flap shall be opened to inspect the dead-man structures at the South North inlets. Remove any accumulated liquids (note in the Required Action) proceed with items 11 through 22.

**TWICE-A-MONTH**

Date/Time: 10/27/03

Weather Conditions: Partly Cloudy 48°

Inspector(s): R. Brown / D. Pollitt

Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2, "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

**3.5 Articulating Concrete Blocks (AB) System  
(continued)**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
11	Southern Dead-man at Y-Channel Inlet 2	IRP Cap liner is free of tears, penetrations, or thin spots	N/A			
12	Southern Dead-man at Y-Channel Inlet 2	Liner gasket material are securely attached to the dead-man structure at the batten bar (no seepage points)				
13	Southern Dead-man at Y-Channel Inlet 2	Concrete free of cracking >1/16" wide				
14	Southern Dead-man at Y-Channel Inlet 2	Construction joints maintained				
15	Southern Dead-man at Y-Channel Inlet 2	Free of surface spalling damaging integrity				
16	Southern Dead-man at Y-Channel Inlet 2	Cementitious fill material free of spalling or void spaces allowing water to pool or erosion of adjacent fill material				
17	Northern Dead-man at Y-Channel Inlet 2	IRP Cap liner is free of tears, penetrations, or thin spots				
18	Northern Dead-man at Y-Channel Inlet 2	Liner gasket material are securely attached to the dead-man structure at the batten bar (no seepage points)				
19	Northern Dead-man at Y-Channel Inlet 2	Concrete free of cracking >1/16" wide				
20	Northern Dead-man at Y-Channel Inlet 2	Construction joints maintained				
21	Northern Dead-man at Y-Channel Inlet 2	Free of surface spalling damaging integrity				
22	Northern Dead-man at Y-Channel Inlet 2	Cementitious fill material free of spalling or void spaces allowing water to pool or erosion of adjacent fill material				

Note: 1. The dead-man structures at the South North inlet of the Y-channel are covered with geomembrane liner flaps. Upon identification of tears/pentrations/thin spots, the Geomembrane Liner Flap shall be opened to inspect the dead-man structures at the South North inlets. Remove any accumulated liquids (note in the Required Action) proceed with inspection items 11 through 22.

Note: 2. Upon repair, reinstall the Geomembrane Liner FLap pursuant to Section 3.5.3.1.

## TWICE-A-MONTH

Date/Time: 10/27/03 1020 — 1150 Weather Conditions: Partly Cloudy 48°  
 Inspector(s): R. Braun / D. Polist Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2, "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

### 4.1.1 Principal Spillway

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riser Pipe	Free of debris and obstructions	S			
2	H-Flume	Free of debris and obstructions	S			
3	H-Flume	Base is free of silt or sediment	S			

### 4.2 Emergency Spillway

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Concrete Pad	Free of debris and obstructions	S			

### 4.4.3 Y-Channel Outfall

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Outfall Structure	Concrete channel free of debris obstructions	S			
2	Outfall Structure	Stilling basin free of debris obstructions	S			
3	Outfall Structure	1' dia. weep holes free of debris obstructions	S			
4	Geomembrane Liner Flap at inlet of the Outfall Structure	Free of tears, penetrations, or thin spots in liner	S			
5	Geomembrane Liner Flap at inlet of the Outfall Structure	Free of ballooning liner / accumulated liquid	S			
6	Geomembrane Liner Flap at inlet of the Outfall Structure	Flap is battened to the concrete channel	S			
7	Batten at inlet of the Outfall Structure	Free of tears, penetrations, or thin spots	S			

### 5.2 South Drain Inlet Area

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Upstream Headwall	invert free of debris obstructions	S			
1	Downstream Headwall	invert free of debris obstructions	S			

## TWICE-A-MONTH

Date/Time: 11/13/03 1020 - 1200 Weather Conditions: Cold + Windy 35°  
 Inspector(s): R. Brown / T. Stewart Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2. "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

### 3.2 Headwalls

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall "A" in NW Corner	Invert free of debris, obstructions, and sediment/silt.	S			
2	Headwall "A" in NW Corner	Free of balloning liner at batten bar (indicating accumulated liquids)	S			
3	Headwall "A" in NW Corner Batten Bar	Free of tears, penetrations, or thin spots.	S			
4	Headwall "A" Sump in NW Corner	Secure attachment of sump lid cap at liquid collection sump.	S			
5	Headwall "A" Sump in NW Corner	Free of tears, penetrations, or thin spots in transition of liner to liner connection.	S			
6	Headwall "B" in NW Corner	Invert free of debris, obstructions, and sediment/silt.	S			
7	Headwall "B" in NW Corner	Free of balloning liner at batten bar (indicating accumulated liquids)	S			
8	Headwall "B" in NW Corner	Free of tears, penetrations, or thin spots.	S			
9	Headwall "B" in NW Corner Batten Bar	Secure attachment of sump lid cap at liquid collection sump.	S			
10	Upstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment/silt.	S			
11	Upstream Headwall in NE Corner	Free of balloning liner at batten bar (indicating accumulated liquids)	S			
12	Upstream Headwall in NE Corner Batten Bar	Free of tears, penetrations, or thin spots.	S			
13	Upstream Headwall Sump in NE Corner	Free of tears, penetrations, or thin spots in transition of liner to liner connection.	S			
14	Downstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment/silt.	S			
15	Downstream Headwall in NE Corner	Free of balloning liner at batten bar (indicating accumulated liquids)	S			
16	Downstream Headwall NE Corner Batten Bar	Free of tears, penetrations, or thin spots.	S			

**TWICE-A-MONTH**

Date/Time: 11/13/03 0915-1330 Weather Conditions: Clear & Cold 35°  
 Inspector(s): R. Brown / T. Stewart Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2. "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

**3.4.1 Drainage Channels and 3.4.2 Diversion Berms**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior Y-Channel	Free of tears, penetrations, or thin spots in liner	S			
2	Interior Y-Channel	Geotextile fabric free of damages, if exposed	S			
3	Interior Y-Channel	Channel free of leaves or debris	S			
4	Interior Y-Channel	Free of soft spots or wet areas	S			
5	North Perimeter Drainage Channel	Free of tears, penetrations, or thin spots in liner	S			
6	North Perimeter Drainage Channel	Geotextile fabric free of damages, if exposed	S			
7	North Perimeter Drainage Channel	Channel free of leaves or debris	S			
8	North Perimeter Drainage Channel	Free of soft spots or wet areas	S			
9	North Channel Emergency Spillway	Free of tears, penetrations, or thin spots in liner	S			
10	North Channel Emergency Spillway	Geotextile fabric free of damages, if exposed	S			
11	North Channel Emergency Spillway	Channel free of leaves or debris impeding flow	S			
12	North Channel Emergency Spillway	Free of soft spots or wet areas	S			
13	East Perimeter Drainage Channel	Free of tears, penetrations, or thin spots in liner	S			
14	East Perimeter Drainage Channel	Geotextile fabric free of damages, if exposed	S			
16	East Perimeter Drainage Channel	Channel free of leaves or debris impeding flow	S			
16	East Perimeter Drainage Channel	Free of soft spots or wet areas	S			
17	South Perimeter Drainage Channel	Free of tears, penetrations, or thin spots in liner	S			
18	South Perimeter Drainage Channel	Geotextile fabric free of damages, if exposed	S			
19	South Perimeter Drainage Channel	Channel free of leaves or debris impeding flow	S			
20	South Perimeter Drainage Channel	Free of soft spots or wet areas	S			
21	West Perimeter Drainage Channel	Free of tears, penetrations, or thin spots in liner	S			
22	West Perimeter Drainage Channel	Geotextile fabric free of damages, if exposed	S			
23	West Perimeter Drainage Channel	Channel free of leaves or debris impeding flow	S			
24	West Perimeter Drainage Channel	Free of soft spots or wet areas	S			
25	Interior Diversion Berms	Free of tears, penetrations, or thin spots in liner	S			
26	Interior Diversion Berms	Geotextile fabric free of damages, if exposed	S			
27	Interior Diversion Berms	Free of soft spots or wet areas	S			

Note: 1. Indicate which interior diversion berm in the Required Action

**TWICE-A-MONTH**

Date/Time: 11/13/03 1020-1345 Weather Conditions: Cold & Windy 36°  
 Inspector(s): R. Brown / T. Stewart Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2. "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

**3.5 Articulating Concrete Blocks (AB) System**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Geomembrane Liner Flap - South Y-Channel Inlet 1	Free of tears, penetrations, or thin spots in liner	S			
2	Geomembrane Liner Flap - South Y-Channel Inlet 1	Free of ballooning liner / accumulated liquid	S			
3	Geomembrane Liner Flap - South Y-Channel Inlet 1	Flap is tied-in into AB mat blocks	S			
4	Geomembrane Liner Flap - North Y-Channel Inlet 1	Free of tears, penetrations, or thin spots in liner	S			
5	Geomembrane Liner Flap - North Y-Channel Inlet 1	Free of ballooning liner / accumulated liquid	S			
6	Geomembrane Liner Flap - North Y-Channel Inlet 1	Flap is tied-in into AB mat blocks	S			
7	Geomembrane Liner Flap - Along YChannel at Diversion Berm 6	Free of tears, penetrations, or thin spots in liner	S			
8	Geomembrane Liner Flap - Along YChannel at Diversion Berm 6	Free of ballooning liner / accumulated liquid	S			
9	Geomembrane Liner Flap - Along YChannel at Diversion Berm 6	Flap is tied-in into AB mat blocks	S			
10	Upstream SE Perimeter Channel Dead-Man	Liner free of tears, penetrations, or thin spots	S			

NOTE: 1. The deadman structures at the South North inlet of the interior Y-channel are covered with geomembrane liner flaps. Upon identification of tears/penetrations/thin spots, the Geomembrane Liner Flap shall be opened to inspect the dead-man structures at the South North inlets. Remove any accumulated liquids (note in the Required Action) proceed with items 11 through 22.

**TWICE-A-MONTH**

Date/Time: 11/13/03

Weather Conditions: Windy 36°

Inspector(s): R. Brown / T. Stewart

Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2, "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

**3.5 Articulating Concrete Blocks (AB) System  
(continued)**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
11	Southern Dead-man at Y-Channel Inlet 2	IRP Cap liner is free of tears, penetrations, or thin spots	<i>NA</i>			
12	Southern Dead-man at Y-Channel Inlet 2	Liner gasket material are securely attached to the dead-man structure at the batten bar (no seepage points)				
13	Southern Dead-man at Y-Channel Inlet 2	Concrete free of cracking >1/16" wide				
14	Southern Dead-man at Y-Channel Inlet 2	Construction joints maintained				
15	Southern Dead-man at Y-Channel Inlet 2	Free of surface spalling damaging integrity				
16	Southern Dead-man at Y-Channel Inlet 2	Cementitious fill material free of spalling or void spaces allowing water to pool or erosion of adjacent fill material				
17	Northern Dead-man at Y-Channel Inlet 2	IRP Cap liner is free of tears, penetrations, or thin spots				
18	Northern Dead-man at Y-Channel Inlet 2	Liner gasket material are securely attached to the dead-man structure at the batten bar (no seepage points)				
19	Northern Dead-man at Y-Channel Inlet 2	Concrete free of cracking >1/16" wide				
20	Northern Dead-man at Y-Channel Inlet 2	Construction joints maintained				
21	Northern Dead-man at Y-Channel Inlet 2	Free of surface spalling damaging integrity				
22	Northern Dead-man at Y-Channel Inlet 2	Cementitious fill material free of spalling or void spaces allowing water to pool or erosion of adjacent fill material				

Note: 1. The dead-man structures at the South North inlet of the Y-channel are covered with geomembrane liner flaps. Upon identification of tears/penetrations/thin spots, the Geomembrane Liner Flap shall be opened to inspect the dead-man structures at the South North inlets. Remove any accumulated liquids (note in the Required Action) proceed with inspection items 11 through 22.

Note: 2. Upon repair, reinstall the Geomembrane Liner FLap pursuant to Section 3.5.3.1.



**TWICE-A-MONTH**

Date/Time: 11/13/03 1020-1500 Weather Conditions: Clear 36°  
 Inspector(s): R. Brown / T. Stewart Type of Inspection (Circle One): General Inspection or Following Severe Weather

- See Appendix A-2. "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
- See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
- Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
- An OM inspection performed following a severe weather event will count as an inspection for the specified period.

**4.1.1 Principal Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riser Pipe	Free of debris and obstructions	S			
2	H-Flume	Free of debris and obstructions	S			
3	H-Flume	Base is free of silt or sediment	S			

**4.2 Emergency Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Concrete Pad	Free of debris and obstructions	S			

**4.4.3 Y-Channel Outfall**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Outfall Structure	Concrete channel free of debris obstructions	S			
2	Outfall Structure	Stilling basin free of debris obstructions	S			
3	Outfall Structure	1' dia. weep holes free of debris obstructions	S			
4	Geomembrane Liner Flap at inlet of the Outfall Structure	Free of tears, penetrations, or thin spots in liner	S			
5	Geomembrane Liner Flap at inlet of the Outfall Structure	Free of ballooning liner / accumulated liquid	S			
6	Geomembrane Liner Flap at inlet of the Outfall Structure	Flap is battened to the concrete channel	S			
7	Batten at inlet of the Outfall Structure	Free of tears, penetrations, or thin spots	S			

**5.2 South Drain Inlet Area**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Upstream Headwall	invert free of debris obstructions	S			
1	Downstream Headwall	invert free of debris obstructions	S			

## TWICE-A-MONTH

Date/Time: 11/26/03 1000 - 1200 Weather Conditions: Fair 40°  
 Inspector(s): R. Brown / T. Stewart Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2. "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

### 3.2 Headwalls

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall "A" in NW Corner	Invert free of debris, obstructions, and sediment/silt.	S			
2	Headwall "A" in NW Corner	Free of balloning liner at batten bar (indicating accumulated liquids)	S			
3	Headwall "A" in NW Corner Batten Bar	Free of tears, penetrations, or thin spots.	S			
4	Headwall "A" Sump in NW Corner	Secure attachment of sump lid cap at liquid collection sump.	S			
5	Headwall "A" Sump in NW Corner	Free of tears, penetrations, or thin spots in transition of liner to liner connection.	S			
6	Headwall "B" in NW Corner	Invert free of debris, obstructions, and sediment/silt.	S			
7	Headwall "B" in NW Corner	Free of balloning liner at batten bar (indicating accumulated liquids)	S			
8	Headwall "B" in NW Corner	Free of tears, penetrations, or thin spots.	S			
9	Headwall "B" in NW Corner Batten Bar	Secure attachment of sump lid cap at liquid collection sump.	S			
10	Upstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment/silt.	S			
11	Upstream Headwall in NE Corner	Free of balloning liner at batten bar (indicating accumulated liquids)	S			
12	Upstream Headwall in NE Corner Batten Bar	Free of tears, penetrations, or thin spots.	S			
13	Upstream Headwall Sump in NE Corner	Free of tears, penetrations, or thin spots in transition of liner to liner connection.	S			
14	Downstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment/silt.	S			
15	Downstream Headwall in NE Corner	Free of balloning liner at batten bar (indicating accumulated liquids)	S			
16	Downstream Headwall NE Corner Batten Bar	Free of tears, penetrations, or thin spots.	S			

**TWICE-A-MONTH**

Date/Time: 11/25/03 0900-1400 Weather Conditions: Fair 30°  
 Inspector(s): R. Brown Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2. "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following sever weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repai Response Matrix", for response time.
3. Sever Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a sever weather event will count as an inspection for the specified period.

**3.4.1 Drainage Channels and 3.4.2 Diversion Berms**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior Y-Channel	Free of tears, penetrations, or thin spots in liner	S			
2	Interior Y-Channel	Geotextile fabric free of damages, if exposed	S			
3	Interior Y-Channel	Channel free of leaves or debris	S			
4	Interior Y-Channel	Free of soft spots or wet areas	S			
5	North Perimeter Drainage Channel	Free of tears, penetrations, or thin spots in liner	S			
6	North Perimeter Drainage Channel	Geotextile fabric free of damages, if exposed	S			
7	North Perimeter Drainage Channel	Channel free of leaves or debris	S			
8	North Perimeter Drainage Channel	Free of soft spots or wet areas	S			
9	North Channel Emergency Spillway	Free of tears, penetrations, or thin spots in liner	S			
10	North Channel Emergency Spillway	Geotextile fabric free of damages, if exposed	S			
11	North Channel Emergency Spillway	Channel free of leaves or debris impeding flow	S			
12	North Channel Emergency Spillway	Free of soft spots or wet areas	S			
13	East Perimeter Drainage Channel	Free of tears, penetrations, or thin spots in liner	S			
14	East Perimeter Drainage Channel	Geotextile fabric free of damages, if exposed	S			
16	East Perimeter Drainage Channel	Channel free of leaves or debris impeding flow	S			
16	East Perimeter Drainage Channel	Free of soft spots or wet areas	S			
17	South Perimeter Drainage Channel	Free of tears, penetrations, or thin spots in liner	S			
18	South Perimeter Drainage Channel	Geotextile fabric free of damages, if exposed	S			
19	South Perimeter Drainage Channel	Channel free of leaves or debris impeding flow	S			
20	South Perimeter Drainage Channel	Free of soft spots or wet areas	S			
21	West Perimeter Drainage Channel	Free of tears, penetrations, or thin spots in liner	S			
22	West Perimeter Drainage Channel	Geotextile fabric free of damages, if exposed	S			
23	West Perimeter Drainage Channel	Channel free of leaves or debris impeding flow	S			
24	West Perimeter Drainage Channel	Free of soft spots or wet areas	S			
25	Interior Diversion Berms	Free of tears, penetrations, or thin spots in liner	S			
26	Interior Diversion Berms	Geotextile fabric free of damages, if exposed	S			
27	Interior Diversion Berms	Free of soft spots or wet areas	S			

Note: 1. Indicate which interior diversion berm in the Required Action

## TWICE-A-MONTH

Date/Time: 11/25/03 1020-1530 Weather Conditions: Fair 30°  
 Inspector(s): R. Brown Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2. "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

### 3.5 Articulating Concrete Blocks (AB) System

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Geomembrane Liner Flap - South Y-Channel Inlet 1	Free of tears, penetrations, or thin spots in liner	S			
2	Geomembrane Liner Flap - South Y-Channel Inlet 1	Free of ballooning liner / accumulated liquid	S			
3	Geomembrane Liner Flap - South Y-Channel Inlet 1	Flap is tied-in into AB mat blocks	S			
4	Geomembrane Liner Flap - North Y-Channel Inlet 1	Free of tears, penetrations, or thin spots in liner	S			
5	Geomembrane Liner Flap - North Y-Channel Inlet 1	Free of ballooning liner / accumulated liquid	S			
6	Geomembrane Liner Flap - North Y-Channel Inlet 1	Flap is tied-in into AB mat blocks	S			
7	Geomembrane Liner Flap - Along YChannel at Diversion Berm 6	Free of tears, penetrations, or thin spots in liner	S			
8	Geomembrane Liner Flap - Along YChannel at Diversion Berm 6	Free of ballooning liner / accumulated liquid	S			
9	Geomembrane Liner Flap - Along YChannel at Diversion Berm 6	Flap is tied-in into AB mat blocks	S			
10	Upstream SE Perimeter Channel Dead-Man	Liner free of tears, penetrations, or thin spots	S			

NOTE: 1. The deadman structures at the South North inlet of the interior Y-channel are covered with geomembrane liner flaps. Upon identification of tears/penetrations/thin spots, the Geomembrane Liner Flap shall be opened to inspect the dead-man structures at the South North inlets. Remove any accumulated liquids (note in the Required Action) proceed with items 11 through 22.

## TWICE-A-MONTH

Date/Time: 11/25/03

Weather Conditions: Fair 30°

Inspector(s): R. Brown

Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2, "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

### 3.5 Articulating Concrete Blocks (AB) System (continued)

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
11	Southern Dead-man at Y-Channel Inlet 2	IRP Cap liner is free of tears, penetrations, or thin spots	V/A			
12	Southern Dead-man at Y-Channel Inlet 2	Liner gasket material are securely attached to the dead-man structure at the batten bar (no seepage points)				
13	Southern Dead-man at Y-Channel Inlet 2	Concrete free of cracking >1/16" wide				
14	Southern Dead-man at Y-Channel Inlet 2	Construction joints maintained				
15	Southern Dead-man at Y-Channel Inlet 2	Free of surface spalling damaging integrity				
16	Southern Dead-man at Y-Channel Inlet 2	Cementitious fill material free of spalling or void spaces allowing water to pool or erosion of adjacent fill material				
17	Northern Dead-man at Y-Channel Inlet 2	IRP Cap liner is free of tears, penetrations, or thin spots				
18	Northern Dead-man at Y-Channel Inlet 2	Liner gasket material are securely attached to the dead-man structure at the batten bar (no seepage points)				
19	Northern Dead-man at Y-Channel Inlet 2	Concrete free of cracking >1/16" wide				
20	Northern Dead-man at Y-Channel Inlet 2	Construction joints maintained				
21	Northern Dead-man at Y-Channel Inlet 2	Free of surface spalling damaging integrity				
22	Northern Dead-man at Y-Channel Inlet 2	Cementitious fill material free of spalling or void spaces allowing water to pool or erosion of adjacent fill material				

Note: 1. The dead-man structures at the South North inlet of the Y-channel are covered with geomembrane liner flaps. Upon identification of tears/penetrations/thin spots, the Geomembrane Liner Flap shall be opened to inspect the dead-man structures at the South North inlets. Remove any accumulated liquids (note in the Required Action) proceed with inspection items 11 through 22.

Note: 2. Upon repair, reinstall the Geomembrane Liner FLap pursuant to Section 3.5.3.1.

**TWICE-A-MONTH**

Date/Time: 11/25/03 0900 - 1530 Weather Conditions: Fair 30°  
 Inspector(s): R. Brown Type of Inspection (Circle One): General Inspection or Following Severe Weather

- See Appendix A-2. "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
- See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
- Sever Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
- An OM inspection performed following a severe weather event will count as an inspection for the specified period.

**4.1.1 Principal Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riser Pipe	Free of debris and obstructions	S			
2	H-Flume	Free of debris and obstructions	S			
3	H-Flume	Base is free of silt or sediment	S			

**4.2 Emergency Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Concrete Pad	Free of debris and obstructions	S			

**4.4.3 Y-Channel Outfall**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Outfall Structure	Concrete channel free of debris obstructions	S			
2	Outfall Structure	Stilling basin free of debris obstructions	S			
3	Outfall Structure	1' dia. weep holes free of debris obstructions	S			
4	Geomembrane Liner Flap at inlet of the Outfall Structure	Free of tears, penetrations, or thin spots in liner	S			
5	Geomembrane Liner Flap at inlet of the Outfall Structure	Free of ballooning liner / accumulated liquid	S			
6	Geomembrane Liner Flap at inlet of the Outfall Structure	Flap is battened to the concrete channel	S			
7	Batten at inlet of the Outfall Structure	Free of tears, penetrations, or thin spots	S			

**5.2 South Drain Inlet Area**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Upstream Headwall	invert free of debris obstructions	S			
1	Downstream Headwall	invert free of debris obstructions	S			

**TWICE-A-MONTH**

Date/Time: 12/15/23 0900-1000 Weather Conditions: Cloudy 31°  
 Inspector(s): R. Brown / T. Stewart Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2. "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following sever weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repai Response Matrix", for response time.
3. Sever Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a sever weather event will count as an inspection for the specified period.

**3.2 Headwalls**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall "A" in NW Corner	Invert free of debris, obstructions, and sediment/silt.	S			
2	Headwall "A" in NW Corner	Free of balloning liner at batten bar (indicating accumulated liquids)	S			
3	Headwall "A" in NW Corner Batten Bar	Free of tears, penetrations, or thin spots.	S			
4	Headwall "A" Sump in NW Corner	Secure attachment of sump lid cap at liquid collection sump.	S			
5	Headwall "A" Sump in NW Corner	Free of tears, penetrations, or thin spots in transition of liner to liner connection.	S			
6	Headwall "B" in NW Corner	Invert free of debris, obstructions, and sediment/silt.	S			
7	Headwall "B" in NW Corner	Free of balloning liner at batten bar (indicating accumulated liquids)	S			
8	Headwall "B" in NW Corner	Free of tears, penetrations, or thin spots.	S			
9	Headwall "B" in NW Corner Batten Bar	Secure attachment of sump lid cap at liquid collection sump.	S			
10	Upstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment/silt.	S			
11	Upstream Headwall in NE Corner	Free of balloning liner at batten bar (indicating accumulated liquids)	S			
12	Upstream Headwall in NE Corner Batten Bar	Free of tears, penetrations, or thin spots.	S			
13	Upstream Headwall Sump in NE Corner	Free of tears, penetrations, or thin spots in transition of liner to liner connection.	S			
14	Downstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment/silt.	S			
15	Downstream Headwall in NE Corner	Free of balloning liner at batten bar (indicating accumulated liquids)	S			
16	Downstream Headwall NE Corner Batten Bar	Free of tears, penetrations, or thin spots.	S			

**TWICE-A-MONTH**

Date/Time: 12/15/03 0900-1200 Weather Conditions: Cloudy 31°  
 Inspector(s): R. Brown / T. Stewart Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2. "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following sever weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repai Response Matrix", for response time.
3. Sever Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a sever weather event will count as an inspection for the specified period.

**3.4.1 Drainage Channels and 3.4.2 Diversion Berms**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior Y-Channel	Free of tears, penetrations, or thin spots in liner	S			
2	Interior Y-Channel	Geotextile fabric free of damages, if exposed				
3	Interior Y-Channel	Channel free of leaves or debris				
4	Interior Y-Channel	Free of soft spots or wet areas				
5	North Perimeter Drainage Channel	Free of tears, penetrations, or thin spots in liner				
6	North Perimeter Drainage Channel	Geotextile fabric free of damages, if exposed				
7	North Perimeter Drainage Channel	Channel free of leaves or debris				
8	North Perimeter Drainage Channel	Free of soft spots or wet areas				
9	North Channel Emergency Spillway	Free of tears, penetrations, or thin spots in liner				
10	North Channel Emergency Spillway	Geotextile fabric free of damages, if exposed				
11	North Channel Emergency Spillway	Channel free of leaves or debris impeding flow				
12	North Channel Emergency Spillway	Free of soft spots or wet areas				
13	East Perimeter Drainage Channel	Free of tears, penetrations, or thin spots in liner				
14	East Perimeter Drainage Channel	Geotextile fabric free of damages, if exposed				
16	East Perimeter Drainage Channel	Channel free of leaves or debris impeding flow				
16	East Perimeter Drainage Channel	Free of soft spots or wet areas				
17	South Perimeter Drainage Channel	Free of tears, penetrations, or thin spots in liner				
18	South Perimeter Drainage Channel	Geotextile fabric free of damages, if exposed				
19	South Perimeter Drainage Channel	Channel free of leaves or debris impeding flow				
20	South Perimeter Drainage Channel	Free of soft spots or wet areas				
21	West Perimeter Drainage Channel	Free of tears, penetrations, or thin spots in liner				
22	West Perimeter Drainage Channel	Geotextile fabric free of damages, if exposed				
23	West Perimeter Drainage Channel	Channel free of leaves or debris impeding flow				
24	West Perimeter Drainage Channel	Free of soft spots or wet areas				
25	Interior Diversion Berms	Free of tears, penetrations, or thin spots in liner				
26	Interior Diversion Berms	Geotextile fabric free of damages, if exposed				
27	Interior Diversion Berms	Free of soft spots or wet areas				

Note: 1. Indicate which interior diversion berm in the Required Action



**TWICE-A-MONTH**

Date/Time: 12/15/03 0900-1200 Weather Conditions: Cloudy 31°  
 Inspector(s): R. Brown / T. Stewart Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2, "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

**3.5 Articulating Concrete Blocks (AB) System**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Geomembrane Liner Flap - South Y-Channel Inlet 1	Free of tears, penetrations, or thin spots in liner	S			
2	Geomembrane Liner Flap - South Y-Channel Inlet 1	Free of ballooning liner / accumulated liquid	S			
3	Geomembrane Liner Flap - South Y-Channel Inlet 1	Flap is tied-in into AB mat blocks	S			
4	Geomembrane Liner Flap - North Y-Channel Inlet 1	Free of tears, penetrations, or thin spots in liner	S			
5	Geomembrane Liner Flap - North Y-Channel Inlet 1	Free of ballooning liner / accumulated liquid	S			
6	Geomembrane Liner Flap - North Y-Channel Inlet 1	Flap is tied-in into AB mat blocks	S			
7	Geomembrane Liner Flap - Along YChannel at Diversion Berm 6	Free of tears, penetrations, or thin spots in liner	S			
8	Geomembrane Liner Flap - Along YChannel at Diversion Berm 6	Free of ballooning liner / accumulated liquid	S			
9	Geomembrane Liner Flap - Along YChannel at Diversion Berm 6	Flap is tied-in into AB mat blocks	S			
10	Upstream SE Perimeter Channel Dead-Man	Liner free of tears, penetrations, or thin spots	S			

NOTE: 1. The deadman structures at the South North inlet of the interior Y-channel are covered with geomembrane liner flaps. Upon identification of tears/penetrations/thin spots, the Geomembrane Liner Flap shall be opened to inspect the dead-man structures at the South North inlets. Remove any accumulated liquids (note in the Required Action) proceed with items 11 through 22.

**TWICE-A-MONTH**

Date/Time: 12/15/03 0900 Weather Conditions: Cloudy 31°  
 Inspector(s): R. Brown / T. Stewart Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2, "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

**3.5 Articulating Concrete Blocks (AB) System  
(continued)**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
11	Southern Dead-man at Y-Channel Inlet 2	IRP Cap liner is free of tears, penetrations, or thin spots				
12	Southern Dead-man at Y-Channel Inlet 2	Liner gasket material are securely attached to the dead-man structure at the batten bar (no seepage points)				
13	Southern Dead-man at Y-Channel Inlet 2	Concrete free of cracking >1/16" wide				
14	Southern Dead-man at Y-Channel Inlet 2	Construction joints maintained				
15	Southern Dead-man at Y-Channel Inlet 2	Free of surface spalling damaging integrity				
16	Southern Dead-man at Y-Channel Inlet 2	Cementitious fill material free of spalling or void spaces allowing water to pool or erosion of adjacent fill material				
17	Northern Dead-man at Y-Channel Inlet 2	IRP Cap liner is free of tears, penetrations, or thin spots				
18	Northern Dead-man at Y-Channel Inlet 2	Liner gasket material are securely attached to the dead-man structure at the batten bar (no seepage points)				
19	Northern Dead-man at Y-Channel Inlet 2	Concrete free of cracking >1/16" wide				
20	Northern Dead-man at Y-Channel Inlet 2	Construction joints maintained				
21	Northern Dead-man at Y-Channel Inlet 2	Free of surface spalling damaging integrity				
22	Northern Dead-man at Y-Channel Inlet 2	Cementitious fill material free of spalling or void spaces allowing water to pool or erosion of adjacent fill material				

Note: 1. The dead-man structures at the South North inlet of the Y-channel are covered with geomembrane liner flaps. Upon identification of tears/penetrations/thin spots, the Geomembrane Liner Flap shall be opened to inspect the dead-man structures at the South North inlets. Remove any accumulated liquids (note in the Required Action) proceed with inspection items 11 through 22.

Note: 2. Upon repair, reinstall the Geomembrane Liner FLap pursuant to Section 3.5.3.1.

**TWICE-A-MONTH**

Date/Time: 12/15/03 1000-1200 Weather Conditions: Cloudy 31°  
 Inspector(s): R. Brown / T. Stewart Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2, "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

**4.1.1 Principal Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riser Pipe	Free of debris and obstructions	S			
2	H-Flume	Free of debris and obstructions	S			
3	H-Flume	Base is free of silt or sediment	S			

**4.2 Emergency Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Concrete Pad	Free of debris and obstructions	S			

**4.4.3 Y-Channel Outfall**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Outfall Structure	Concrete channel free of debris obstructions	S			
2	Outfall Structure	Stilling basin free of debris obstructions	S			
3	Outfall Structure	1' dia. weep holes free of debris obstructions	S			
4	Geomembrane Liner Flap at inlet of the Outfall Structure	Free of tears, penetrations, or thin spots in liner	S			
5	Geomembrane Liner Flap at inlet of the Outfall Structure	Free of ballooning liner / accumulated liquid	S			
6	Geomembrane Liner Flap at inlet of the Outfall Structure	Flap is battened to the concrete channel	S			
7	Batten at inlet of the Outfall Structure	Free of tears, penetrations, or thin spots	S			

**5.2 South Drain Inlet Area**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Upstream Headwall	invert free of debris obstructions	S			
1	Downstream Headwall	invert free of debris obstructions	S			

**TWICE-A-MONTH**

Date/Time: 12/22/23 0900 - 1000 Weather Conditions: Cloudy 43°  
 Inspector(s): R. Brown / T. Stewart Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2. "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

**3.2 Headwalls**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall "A" in NW Corner	Invert free of debris, obstructions, and sediment/silt.	S			
2	Headwall "A" in NW Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
3	Headwall "A" in NW Corner Batten Bar	Free of tears, penetrations, or thin spots.	S			
4	Headwall "A" Sump in NW Corner	Secure attachment of sump lid cap at liquid collection sump.	S			
5	Headwall "A" Sump in NW Corner	Free of tears, penetrations, or thin spots in transition of liner to liner connection.	S			
6	Headwall "B" in NW Corner	Invert free of debris, obstructions, and sediment/silt.	S			
7	Headwall "B" in NW Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
8	Headwall "B" in NW Corner	Free of tears, penetrations, or thin spots.	S			
9	Headwall "B" in NW Corner Batten Bar	Secure attachment of sump lid cap at liquid collection sump.	S			
10	Upstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment/silt.	S			
11	Upstream Headwall in NE Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
12	Upstream Headwall in NE Corner Batten Bar	Free of tears, penetrations, or thin spots.	S			
13	Upstream Headwall Sump in NE Corner	Free of tears, penetrations, or thin spots in transition of liner to liner connection.	S			
14	Downstream Headwall in NE Corner	Invert free of debris, obstructions, and sediment/silt.	S			
15	Downstream Headwall in NE Corner	Free of ballooning liner at batten bar (indicating accumulated liquids)	S			
16	Downstream Headwall NE Corner Batten Bar	Free of tears, penetrations, or thin spots.	S			

**TWICE-A-MONTH**

Date/Time: 12/22/03 1000 - 1150 Weather Conditions: Cloudy 36°  
 Inspector(s): R. Brown / T. Stewart Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2, "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

**3.4.1 Drainage Channels and 3.4.2 Diversion Berms**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior Y-Channel	Free of tears, penetrations, or thin spots in liner	S			
2	Interior Y-Channel	Geotextile fabric free of damages, if exposed	S			
3	Interior Y-Channel	Channel free of leaves or debris	S			
4	Interior Y-Channel	Free of soft spots or wet areas	S			
5	North Perimeter Drainage Channel	Free of tears, penetrations, or thin spots in liner	S			
6	North Perimeter Drainage Channel	Geotextile fabric free of damages, if exposed	S			
7	North Perimeter Drainage Channel	Channel free of leaves or debris	S			
8	North Perimeter Drainage Channel	Free of soft spots or wet areas	S			
9	North Channel Emergency Spillway	Free of tears, penetrations, or thin spots in liner	S			
10	North Channel Emergency Spillway	Geotextile fabric free of damages, if exposed	S			
11	North Channel Emergency Spillway	Channel free of leaves or debris impeding flow	S			
12	North Channel Emergency Spillway	Free of soft spots or wet areas	S			
13	East Perimeter Drainage Channel	Free of tears, penetrations, or thin spots in liner	S			
14	East Perimeter Drainage Channel	Geotextile fabric free of damages, if exposed	S			
16	East Perimeter Drainage Channel	Channel free of leaves or debris impeding flow	S			
16	East Perimeter Drainage Channel	Free of soft spots or wet areas	S			
17	South Perimeter Drainage Channel	Free of tears, penetrations, or thin spots in liner	S			
18	South Perimeter Drainage Channel	Geotextile fabric free of damages, if exposed	S			
19	South Perimeter Drainage Channel	Channel free of leaves or debris impeding flow	S			
20	South Perimeter Drainage Channel	Free of soft spots or wet areas	S			
21	West Perimeter Drainage Channel	Free of tears, penetrations, or thin spots in liner	S			
22	West Perimeter Drainage Channel	Geotextile fabric free of damages, if exposed	S			
23	West Perimeter Drainage Channel	Channel free of leaves or debris impeding flow	S			
24	West Perimeter Drainage Channel	Free of soft spots or wet areas	S			
25	Interior Diversion Berms	Free of tears, penetrations, or thin spots in liner	S			
26	Interior Diversion Berms	Geotextile fabric free of damages, if exposed	S			
27	Interior Diversion Berms	Free of soft spots or wet areas	S			

Note: 1. Indicate which interior diversion berm in the Required Action

**TWICE-A-MONTH**

Date/Time: 12/22/03 1000 - 1150 Weather Conditions: Cloudy 36°  
 Inspector(s): R. Brown / T. Stewart Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2. "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following sever weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Sever Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a sever weather event will count as an inspection for the specified period.

**3.5 Articulating Concrete Blocks (AB) System**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Geomembrane Liner Flap - South Y-Channel Inlet 1	Free of tears, penetrations, or thin spots in liner	S			
2	Geomembrane Liner Flap - South Y-Channel Inlet 1	Free of ballooning liner / accumulated liquid	S			
3	Geomembrane Liner Flap - South Y-Channel Inlet 1	Flap is tied-in into AB mat blocks	S			
4	Geomembrane Liner Flap - North Y-Channel Inlet 1	Free of tears, penetrations, or thin spots in liner	S			
5	Geomembrane Liner Flap - North Y-Channel Inlet 1	Free of ballooning liner / accumulated liquid	S			
6	Geomembrane Liner Flap - North Y-Channel Inlet 1	Flap is tied-in into AB mat blocks	S			
7	Geomembrane Liner Flap - Along YChannel at Diversion Berm 6	Free of tears, penetrations, or thin spots in liner	S			
8	Geomembrane Liner Flap - Along YChannel at Diversion Berm 6	Free of ballooning liner / accumulated liquid	S			
9	Geomembrane Liner Flap - Along YChannel at Diversion Berm 6	Flap is tied-in into AB mat blocks	S			
10	Upstream SE Perimeter Channel Dead-Man	Liner free of tears, penetrations, or thin spots	S			

NOTE: 1. The deadman structures at the South North inlet of the interior Y-channel are covered with geomembrane liner flaps. Upon identification of tears/penetrations/thin spots, the Geomembrane Liner Flap shall be opened to inspect the dead-man structures at the South North inlets. Remove any accumulated liquids (note in the Required Action) proceed with items 11 through 22.

**TWICE-A-MONTH**

Date/Time: 12/22/03 1000 - 1200 Weather Conditions: Cloudy 36°  
 Inspector(s): R. Brown / T. Stewart Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2. "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

**3.5 Articulating Concrete Blocks (AB) System  
(continued)**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
11	Southern Dead-man at Y-Channel Inlet 2	IRP Cap liner is free of tears, penetrations, or thin spots	N/A			
12	Southern Dead-man at Y-Channel Inlet 2	Liner gasket material are securely attached to the dead-man structure at the batten bar (no seepage points)				
13	Southern Dead-man at Y-Channel Inlet 2	Concrete free of cracking >1/16" wide				
14	Southern Dead-man at Y-Channel Inlet 2	Construction joints maintained				
15	Southern Dead-man at Y-Channel Inlet 2	Free of surface spalling damaging integrity				
16	Southern Dead-man at Y-Channel Inlet 2	Cementitious fill material free of spalling or void spaces allowing water to pool or erosion of adjacent fill material				
17	Northern Dead-man at Y-Channel Inlet 2	IRP Cap liner is free of tears, penetrations, or thin spots				
18	Northern Dead-man at Y-Channel Inlet 2	Liner gasket material are securely attached to the dead-man structure at the batten bar (no seepage points)				
19	Northern Dead-man at Y-Channel Inlet 2	Concrete free of cracking >1/16" wide				
20	Northern Dead-man at Y-Channel Inlet 2	Construction joints maintained				
21	Northern Dead-man at Y-Channel Inlet 2	Free of surface spalling damaging integrity				
22	Northern Dead-man at Y-Channel Inlet 2	Cementitious fill material free of spalling or void spaces allowing water to pool or erosion of adjacent fill material				

Note: 1. The dead-man structures at the South North inlet of the Y-channel are covered with geomembrane liner flaps. Upon identification of tears/penetrations/thin spots, the Geomembrane Liner Flap shall be opened to inspect the dead-man structures at the South North inlets. Remove any accumulated liquids (note in the Required Action) proceed with inspection items 11 through 22.

Note: 2. Upon repair, reinstall the Geomembrane Liner FLap pursuant to Section 3.5.3.1.

**TWICE-A-MONTH**

Date/Time: 12/22/03 1230 - 1400 Weather Conditions: Cloudy 40°  
 Inspector(s): R. Brown / T. Stewart Type of Inspection (Circle One): General Inspection or Following Severe Weather

- See Appendix A-2, "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
- See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
- Sever Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
- An OM inspection performed following a severe weather event will count as an inspection for the specified period.

**4.1.1 Principal Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riser Pipe	Free of debris and obstructions	S			
2	H-Flume	Free of debris and obstructions	S			
3	H-Flume	Base is free of silt or sediment	S			

**4.2 Emergency Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Concrete Pad	Free of debris and obstructions	S			

**4.4.3 Y-Channel Outfall**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Outfall Structure	Concrete channel free of debris obstructions	S			
2	Outfall Structure	Stilling basin free of debris obstructions	S			
3	Outfall Structure	1' dia. weep holes free of debris obstructions	S			
4	Geomembrane Liner Flap at inlet of the Outfall Structure	Free of tears, penetrations, or thin spots in liner	S			
5	Geomembrane Liner Flap at inlet of the Outfall Structure	Free of ballooning liner / accumulated liquid	S			
6	Geomembrane Liner Flap at inlet of the Outfall Structure	Flap is battened to the concrete channel	S			
7	Batten at inlet of the Outfall Structure	Free of tears, penetrations, or thin spots	S			

**5.2 South Drain Inlet Area**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Upstream Headwall	invert free of debris obstructions	S			
1	Downstream Headwall	invert free of debris obstructions	S			



## MONTHLY INSPECTION

Date/Time: 2/25/03 1100 — 1500

Weather Conditions: Cold

Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

### 3.1 Geomembrane Liner

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	IRP Cap1	Free of tears, punctures, or thin spots in 45-mil reinforced polypropylene (liner).	S			
2	IRP Cap2	Sealed factory seams via visual site walk.	S			
3	Geomembrane Liner Boots 2 (83)	Free of tears, punctures, or thin spots in 45-mil reinforced polypropylene (liner).	S			
4	Sump Extension2 (83)	Free of tears, punctures, or thin spots in 45-mil reinforced polypropylene (liner).	S			
5	Sump Extension2 (83)	Integrity of sump lid	S			
6	Sump Extension2 (83)	Free of tears, punctures, or thin spots in 45-mil reinforced polypropylene (liner).	S			
7	Data Loggers	Integrity of data logger system	S			

Note 1. For repairs, see Appendix C-1 for the 45-mil reinforced polypropylene repair procedure. 2. Indicate sump extension identification in Required Action.

### 3.3 Subsidence

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Subsidence Monitoring	Free of storm water ponding over IRP Cap	S			

### 3.4 Anchorage Trenches

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior Anchor Trenches	Free of pull out liner	S			
2	Interior Anchor Trenches	Free of tears, punctures, or thin spots in liner				
3	Interior Anchor Trenches	Geotextile fabric free of damages, if exposed				
4	North Perimeter Anchor Trench	Free of pull out liner				
5	North Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner				
6	North Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed				
7	East Perimeter Anchor Trench	Free of pull out liner				
8	East Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner				
9	East Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed				
10	South Perimeter Anchor Trench	Free of pull out liner				
11	South Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner				
12	South Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed				
13	West Perimeter Anchor Trench	Free of pull out liner				
14	West Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner				
15	West Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed				

## MONTHLY INSPECTION

Date/Time: 2/25/03 1100 - 1500 Weather Conditions: Cold

Inspector(s): R. Brown / A. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

### 3.5 Articulating Concrete Blocks (AB) System

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	North Perimeter Channel	Integrity of mat system / concrete blocks	S			
2	North Perimeter Channel	Liner free of tears, punctures, or thin spots	S			
3	North Perimeter Channel	Free of vegetative growth which decreases channel capacity	S			
4	East Perimeter Channel	Integrity of mat system / concrete blocks	S			
5	East Perimeter Channel	Liner free of tears, punctures, or thin spots	S			
6	East Perimeter Channel	Free of vegetative growth which decreases channel capacity	S			
7	SE Perimeter Channel	Integrity of mat system / concrete blocks	S			
8	SE Perimeter Channel	Liner free of tears, punctures, or thin spots	S			
9	SE Perimeter Channel	Free of vegetative growth which decreases channel capacity	S			
10	Interior "Y" Channel	Integrity of mat system / concrete blocks	S			
11	Interior "Y" Channel	Liner free of tears, punctures, or thin spots	S			
12	Interior "Y" Channel	Free of vegetative growth which decreases channel capacity	S			

### 3.6 Emergency Spillway and Northeast Corner Piping

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Emergency Spillway along NE Corner of MFDS	Free of debris	S			
2	Manhole # 1	Manhole lid secure attached and flush with ground surface	S			
3	Manhole # 2	Manhole lid secure attached and flush with ground surface	S			
4	Upstream Headwall	Headwall invert / culvert free of debris	S			
5	Downstream Headwall	Headwall invert / culvert free of debris	S			

### 4.1 Principal Spillway

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Ultrasonic Flow Recorder	Calibrated reading measurement compares with staff gauge measurement.	S			
1	Riprap	No riprap washout comprising side-slopes	S			
1	Riprap	Free of debris and silt/sediment	S			

### 4.2 Emergency Spillway

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Gabion Basket System	Free of debris	S			

## MONTHLY INSPECTION

Date/Time: 2/25/03 1100 - 1500 Weather Conditions: Cold

Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

### 4.4 Basin Area

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riprap	Free of debris, silt or sediment	S			
2	Riprap	No riprap washout comprising side-slopes	S			
3	Gabion Basin System	Free of debris	S			

### 5.2 South Drainage Channel

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riprap	Free of debris, silt or sediment	S			
2	Riprap	No riprap washout comprising side-slopes	S			
3	Gabion Basin System	Free of debris	S			

### 6.1 SE Cap Geomembrane Liner

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Geomembrane Liner	Free of exposed liner in turf	S			

### 6.2 SE Cap Turf

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Turf	Free of eroded areas	S			
2	Turf	Free of signs of borrowing animals	S			

### 6.3 SE Cap Riprap Outlet

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riprap Outlet	No riprap washout comprising side-slopes	S			
2	Riprap Outlet	Free of debris	S			
3	Liner	Geomembrane liner not exposed and free of damage	S			

### 6.4 SE Cap Tie-in

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	IRP Cap Tie-in	Transition of the IRP Cap with SE Cap intact; free of pull-out	S			

## MONTHLY INSPECTION

Date/Time: 2/27/03 1300-1600 Weather Conditions: COLD & RAINY

Inspector(s): R. Brown / D. Loeitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

### 7.1 MFDS Roadways

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Site Access Roadway	Free of ruts and pot holes			<i>UNDER CONSTRUCTION</i>	
2	Site Access Roadway	No aggregate wash-out				
3	North Perimeter Roadway	Free of ruts and pot holes				
4	North Perimeter Roadway	No aggregate wash-out				
5	East Perimeter Roadway	Free of ruts and pot holes				
6	East Perimeter Roadway	No aggregate wash-out				
7	South Perimeter Roadway	Free of ruts and pot holes				
8	South Perimeter Roadway	No aggregate wash-out				
9	West Perimeter Roadway	Free of ruts and pot holes				
10	West Perimeter Roadway	No aggregate wash-out				

### 7.2 MFDS Security

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	North Perimeter Fence Site Access	Oil hinges	S			
2	IRP Cap Perimeter Fence	Free of signs of borrowing animals	S			

### 7.5 Samplers

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Sampler 1	ISCO portable samplers free of damage	S			
2	Sampler 1	Locations according to Figures 7-2 and 7-3	S			

1. Indicate sampler identification in Required Action

### 7.7 Liquids

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall Sumps 1	Free of accumulated liquids	S			
2	Subsided Areas (if any) 2	Free of accumulated liquids	S			
3	Around MFDS 3	Free of accumulated liquids	S			

1. Indicate headwall sump, identification in Required Action
2. Indicate liner panel location or area of IRP Cap in Required Action
3. Indicate location in Required Action

## MONTHLY INSPECTION

Date/Time: 3/18/03 1245-1545

Weather Conditions: Partly Sunny 64°

Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

### 3.1 Geomembrane Liner

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	IRP Cap1	Free of tears, punctures, or thin spots in 45-mil reinforced polypropylene (liner).	S			
2	IRP Cap2	Sealed factory seams via visual site walk.	S			
3	Geomembrane Liner Boots 2 (83)	Free of tears, punctures, or thin spots in 45-mil reinforced polypropylene (liner).	S			
4	Sump Extension2 (83)	Free of tears, punctures, or thin spots in 45-mil reinforced polypropylene (liner).	S			
5	Sump Extension2 (83)	Integrity of sump lid	S			
6	Sump Extension2 (83)	Free of tears, punctures, or thin spots in 45-mil reinforced polypropylene (liner).	S			
7	Data Loggers	Integrity of data logger system	S			

Note 1. For repairs, see Appendix C-1 for the 45-mil reinforced polypropylene repair procedure. 2. Indicate sump extension identification in Required Action.

### 3.3 Subsidence

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	IRP Cap1	Free of tears, punctures, or thin spots in 45-mil reinforced polypropylene (liner).	S			

### 3.4 Anchorage Trenches

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior Anchor Trenches	Free of pull out liner	S			
2	Interior Anchor Trenches	Free of tears, punctures, or thin spots in liner	S			
3	Interior Anchor Trenches	Geotextile fabric free of damages, if exposed	S			
4	North Perimeter Anchor Trench	Free of pull out liner	S			
5	North Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner	S			
6	North Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed	S			
7	East Perimeter Anchor Trench	Free of pull out liner	S			
8	East Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner	S			
9	East Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed	S			
10	South Perimeter Anchor Trench	Free of pull out liner	S			
11	South Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner	S			
12	South Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed	S			
13	West Perimeter Anchor Trench	Free of pull out liner	S			
14	West Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner	S			
15	West Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed	S			

## MONTHLY INSPECTION

Date/Time: 3/18/03 12:45 - 1:45 Weather Conditions: Partly Sunny 64'

Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency.

### 3.5 Articulating Concrete Blocks (AB) System

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	North Perimeter Channel	Integrity of mat system / concrete blocks	S S S S S S S S S S S S			
2	North Perimeter Channel	Liner free of tears, punctures, or thin spots				
3	North Perimeter Channel	Free of vegetative growth which decreases channel capacity				
4	East Perimeter Channel	Integrity of mat system / concrete blocks				
5	East Perimeter Channel	Liner free of tears, punctures, or thin spots				
6	East Perimeter Channel	Free of vegetative growth which decreases channel capacity				
7	SE Perimeter Channel	Integrity of mat system / concrete blocks				
8	SE Perimeter Channel	Liner free of tears, punctures, or thin spots				
9	SE Perimeter Channel	Free of vegetative growth which decreases channel capacity				
10	Interior "Y" Channel	Integrity of mat system / concrete blocks				
11	Interior "Y" Channel	Liner free of tears, punctures, or thin spots				
12	Interior "Y" Channel	Free of vegetative growth which decreases channel capacity				

### 3.6 Emergency Spillway and Northeast Corner Piping

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Emergency Spillway along NE Corner of MFDS	Free of debris	S			
2	Manhole # 1	Lid secure attached and flush with ground surface	S			
3	Manhole # 2	Lid secure attached and flush with ground surface	S			
4	Upstream Headwall	Headwall invert / culvert free of debris	S			
5	Downstream Headwall	Headwall invert / culvert free of debris	S			

### 4.1 Principal Spillway

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Ultrasonic Flow Recorder	Calibrated reading measurement compares with staff gauge measurement.	S			
1	Riprap	No riprap washout comprising side-slopes	S			
1	Riprap	Free of debris and silt/sediment	S			

### 4.2 Emergency Spillway

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Gabion Basket System	Free of debris	S			

**MONTHLY INSPECTION**

Date/Time: 3/18/03 1245-1545 Weather Conditions: Partly Sunny 64°  
 Inspector(s): R. Brown / Donnie Adlitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**4.4 Basin Area**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riprap	Free of debris, silt or sediment	S			
2	Riprap	No riprap washout composing side-slopes	S			
3	Gabion Basin System	Free of debris	S			

**5.2 South Drainage Channel**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riprap	Free of debris, silt or sediment	S			
2	Riprap	No riprap washout composing side-slopes	S			
3	Gabion Basin System	Free of debris	S			

**6.1 SE Cap Geomembrane Liner**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Geomembrane Liner	Free of exposed liner in turf	S			

**6.2 SE Cap Turf**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Turf	Free of eroded areas	S			
2	Turf	Free of signs of borrowing animals	S			

**6.3 SE Cap Riprap Outlet**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riprap Outlet	No riprap washout composing side-slopes	S			
2	Riprap Outlet	Free of debris	S			
3	Liner	Geomembrane liner not exposed and free of damage	S			

**6.4 SE Cap Tie-in**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	IRP Cap Tie-in	Transition of the IRP Cap with SE Cap intact; free of pull-out	S			

## MONTHLY INSPECTION

Date/Time: 3/20/03 1240 - 1400

Weather Conditions: Partly Sunny 65°

Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

### 7.1 MFDS Roadways

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Site Access Roadway	Free of ruts and pot holes			<i>UNDER CONSTRUCTION</i>	
2	Site Access Roadway	No aggregate wash-out				
3	North Perimeter Roadway	Free of ruts and pot holes				
4	North Perimeter Roadway	No aggregate wash-out				
5	East Perimeter Roadway	Free of ruts and pot holes				
6	East Perimeter Roadway	No aggregate wash-out				
7	South Perimeter Roadway	Free of ruts and pot holes				
8	South Perimeter Roadway	No aggregate wash-out				
9	West Perimeter Roadway	Free of ruts and pot holes				
10	West Perimeter Roadway	No aggregate wash-out				

### 7.2 MFDS Security

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	North Perimeter Fence Site Access	Oil hinges	S			
2	IRP Cap Perimeter Fence	Free of signs of borrowing animals	S			

### 7.5 Samplers

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Sampler 1	ISCO portable samplers free of damage	S			
2	Sampler 1	Locations according to Figures 7-2 and 7-3	S			

1. Indicate sampler identification in Required Action

### 7.7 Liquids

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall Sumps 1	Free of accumulated liquids	S			
2	Subsided Areas (if any) 2	Free of accumulated liquids	S			
3	Around MFDS 3	Free of accumulated liquids	S			

1. Indicate headwall sump, identification in Required Action

2. Indicate liner panel location or area of IRP Cap in Required Action

3. Indicate location in Required Action



## MONTHLY INSPECTION

Date/Time: 4/28/03 0800-1400 Weather Conditions: Sunny 60°

Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

### 3.1 Geomembrane Liner

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	IRP Cap1	Free of tears, punctures, or thin spots in 45-mil reinforced polypropylene (liner).	S			
2	IRP Cap2	Sealed factory seams via visual site walk.	S			
3	Geomembrane Liner Boots 2 (83)	Free of tears, punctures, or thin spots in 45-mil reinforced polypropylene (liner).	S			
4	Sump Extension2 (83)	Free of tears, punctures, or thin spots in 45-mil reinforced polypropylene (liner).	S			
5	Sump Extension2 (83)	Integrity of sump lid	S			
6	Sump Extension2 (83)	Free of tears, punctures, or thin spots in 45-mil reinforced polypropylene (liner).	S			
7	Data Loggers	Integrity of data logger system	S			

**Note** 1. For repairs, see Appendix C-1 for the 45-mil reinforced polypropylene repair procedure. 2. Indicate sump extension identification in Required Action.

### 3.3 Subsidence

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Subsidence Monitoring	Free of storm water ponding over IRP Cap	S			

### 3.4 Anchorage Trenches

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior Anchor Trenches	Free of pull out liner	S			
2	Interior Anchor Trenches	Free of tears, punctures, or thin spots in liner				
3	Interior Anchor Trenches	Geotextile fabric free of damages, if exposed				
4	North Perimeter Anchor Trench	Free of pull out liner				
5	North Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner				
6	North Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed				
7	East Perimeter Anchor Trench	Free of pull out liner				
8	East Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner				
9	East Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed				
10	South Perimeter Anchor Trench	Free of pull out liner				
11	South Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner				
12	South Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed				
13	West Perimeter Anchor Trench	Free of pull out liner				
14	West Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner				
15	West Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed				

## MONTHLY INSPECTION

Date/Time: 4/25/03 0830 - 1130 Weather Conditions: Cloudy 52°  
 Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

### 3.5 Articulating Concrete Blocks (AB) System

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	North Perimeter Channel	Integrity of mat system / concrete blocks	S			
2	North Perimeter Channel	Liner free of tears, punctures, or thin spots				
3	North Perimeter Channel	Free of vegetative growth which decreases channel capacity				
4	East Perimeter Channel	Integrity of mat system / concrete blocks				
5	East Perimeter Channel	Liner free of tears, punctures, or thin spots				
6	East Perimeter Channel	Free of vegetative growth which decreases channel capacity				
7	SE Perimeter Channel	Integrity of mat system / concrete blocks				
8	SE Perimeter Channel	Liner free of tears, punctures, or thin spots				
9	SE Perimeter Channel	Free of vegetative growth which decreases channel capacity				
10	Interior "Y" Channel	Integrity of mat system / concrete blocks				
11	Interior "Y" Channel	Liner free of tears, punctures, or thin spots				
12	Interior "Y" Channel	Free of vegetative growth which decreases channel capacity				

### 3.6 Emergency Spillway and Northeast Corner Piping

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Emergency Spillway along NE Corner of MFDS	Free of debris	S			
2	Manhole # 1	Manhole lid secure attached and flush with ground surface				
3	Manhole # 2	Manhole lid secure attached and flush with ground surface				
4	Upstream Headwall	Headwall invert / culvert free of debris				
5	Downstream Headwall	Headwall invert / culvert free of debris				

### 4.1 Principal Spillway

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Ultrasonic Flow Recorder	Calibrated reading measurement compares with staff gauge measurement.	S			
1	Riprap	No riprap washout composing side-slopes				
1	Riprap	Free of debris and silt/sediment				

### 4.2 Emergency Spillway

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Gabion Basket System	Free of debris	S			

## MONTHLY INSPECTION

Date/Time: 4/28/03 0800 - 1400 Weather Conditions: Sunny 65°

Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

### 4.4 Basin Area

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riprap	Free of debris, silt or sediment	S			
2	Riprap	No riprap washout comprising side-slopes	S			
3	Gabion Basin System	Free of debris	S			

### 5.2 South Drainage Channel

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riprap	Free of debris, silt or sediment	S			
2	Riprap	No riprap washout comprising side-slopes	S			
3	Gabion Basin System	Free of debris	S			

### 6.1 SE Cap Geomembrane Liner

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Geomembrane Liner	Free of exposed liner in turf	S			

### 6.2 SE Cap Turf

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Turf	Free of eroded areas	S			
2	Turf	Free of signs of borrowing animals	S			

### 6.3 SE Cap Riprap Outlet

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riprap Outlet	No riprap washout comprising side-slopes	S			
2	Riprap Outlet	Free of debris	S			
3	Liner	Geomembrane liner not exposed and free of damage	S			

### 6.4 SE Cap Tie-in

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	IRP Cap Tie-in	Transition of the IRP Cap with SE Cap intact; free of pull-out	S			

## MONTHLY INSPECTION

Date/Time: 4/28/03 0800-1400 Weather Conditions: Sunny 65°

Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

### 7.1 MFDS Roadways

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Site Access Roadway	Free of ruts and pot holes	S S S S S S S S S S			
2	Site Access Roadway	No aggregate wash-out				
3	North Perimeter Roadway	Free of ruts and pot holes				
4	North Perimeter Roadway	No aggregate wash-out				
5	East Perimeter Roadway	Free of ruts and pot holes				
6	East Perimeter Roadway	No aggregate wash-out				
7	South Perimeter Roadway	Free of ruts and pot holes				
8	South Perimeter Roadway	No aggregate wash-out				
9	West Perimeter Roadway	Free of ruts and pot holes				
10	West Perimeter Roadway	No aggregate wash-out				

### 7.2 MFDS Security

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	North Perimeter Fence Site Access	Oil hinges	S			
2	IRP Cap Perimeter Fence	Free of signs of borrowing animals	S			

### 7.5 Samplers

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Sampler 1	ISCO portable samplers free of damage	S			
2	Sampler 1	Locations according to Figures 7-2 and 7-3	S			

1. Indicate sampler identification in Required Action

### 7.7 Liquids

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall Sumps 1	Free of accumulated liquids	S S S			
2	Subsided Areas (if any) 2	Free of accumulated liquids				
3	Around MFDS 3	Free of accumulated liquids				

1. Indicate headwall sump, identification in Required Action
2. Indicate liner panel location or area of IRP Cap in Required Action
3. Indicate location in Required Action

### MONTHLY INSPECTION

Date/Time: 5/7/03 1230-1530 Weather Conditions: Cloudy 63°

Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

#### 3.1 Geomembrane Liner

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	IRP Cap1	Free of tears, punctures, or thin spots in 45-mil reinforced polypropylene (liner).	S			
2	IRP Cap2	Sealed factory seams via visual site walk.	S			
3	Geomembrane Liner Boots 2 (83)	Free of tears, punctures, or thin spots in 45-mil reinforced polypropylene (liner).	S			
4	Sump Extension2 (83)	Free of tears, punctures, or thin spots in 45-mil reinforced polypropylene (liner).	S			
5	Sump Extension2 (83)	Integrity of sump lid	S			
6	Sump Extension2 (83)	Free of tears, punctures, or thin spots in 45-mil reinforced polypropylene (liner).	S			
7	Data Loggers	Integrity of data logger system	S			

Note 1. For repairs, see Appendix C-1 for the 45-mil reinforced polypropylene repair procedure. 2. Indicate sump extension identification in Required Action.

#### 3.3 Subsidence

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Subsidence Monitoring	Free of storm water ponding over IRP Cap	S			

#### 3.4 Anchorage Trenches

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior Anchor Trenches	Free of pull out liner	S			
2	Interior Anchor Trenches	Free of tears, punctures, or thin spots in liner				
3	Interior Anchor Trenches	Geotextile fabric free of damages, if exposed				
4	North Perimeter Anchor Trench	Free of pull out liner				
5	North Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner				
6	North Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed				
7	East Perimeter Anchor Trench	Free of pull out liner				
8	East Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner				
9	East Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed				
10	South Perimeter Anchor Trench	Free of pull out liner				
11	South Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner				
12	South Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed				
13	West Perimeter Anchor Trench	Free of pull out liner				
14	West Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner				
15	West Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed				

## MONTHLY INSPECTION

Date/Time: 5/8/03 0830-1000 Weather Conditions: Sunny 67°

Inspector(s): R. Brown / Donnie Pollard

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

### 3.5 Articulating Concrete Blocks (AB) System

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	North Perimeter Channel	Integrity of mat system / concrete blocks	S			
2	North Perimeter Channel	Liner free of tears, punctures, or thin spots				
3	North Perimeter Channel	Free of vegetative growth which decreases channel capacity				
4	East Perimeter Channel	Integrity of mat system / concrete blocks				
5	East Perimeter Channel	Liner free of tears, punctures, or thin spots				
6	East Perimeter Channel	Free of vegetative growth which decreases channel capacity				
7	SE Perimeter Channel	Integrity of mat system / concrete blocks				
8	SE Perimeter Channel	Liner free of tears, punctures, or thin spots				
9	SE Perimeter Channel	Free of vegetative growth which decreases channel capacity				
10	Interior "Y" Channel	Integrity of mat system / concrete blocks				
11	Interior "Y" Channel	Liner free of tears, punctures, or thin spots				
12	Interior "Y" Channel	Free of vegetative growth which decreases channel capacity				

### 3.6 Emergency Spillway and Northeast Corner Piping

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Emergency Spillway along NE Corner of MFDS	Free of debris	S			
2	Manhole # 1	Manhole lid secure attached and flush with ground surface	S			
3	Manhole # 2	Manhole lid secure attached and flush with ground surface	S			
4	Upstream Headwall	Headwall invert / culvert free of debris	S			
5	Downstream Headwall	Headwall invert / culvert free of debris	S			

### 4.1 Principal Spillway

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Ultrasonic Flow Recorder	Calibrated reading measurement compares with staff gauge measurement.	S			
1	Riprap	No riprap washout comprising side-slopes	S			
1	Riprap	Free of debris and silt/sediment	S			

### 4.2 Emergency Spillway

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Gabion Basket System	Free of debris	S			

**MONTHLY INSPECTION**

Date/Time: 5/8/03 0930-1150 Weather Conditions: Sunny 67'

Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**4.4 Basin Area**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riprap	Free of debris, silt or sediment	S			
2	Riprap	No riprap washout comprising side-slopes	S			
3	Gabion Basin System	Free of debris	S			

**5.2 South Drainage Channel**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riprap	Free of debris, silt or sediment	S			
2	Riprap	No riprap washout comprising side-slopes	S			
3	Gabion Basin System	Free of debris	S			

**6.1 SE Cap Geomembrane Liner**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Geomembrane Liner	Free of exposed liner in turf	S			

**6.2 SE Cap Turf**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Turf	Free of eroded areas	S			
2	Turf	Free of signs of borrowing animals	S			

**6.3 SE Cap Riprap Outlet**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riprap Outlet	No riprap washout comprising side-slopes	S			
2	Riprap Outlet	Free of debris	S			
3	Liner	Geomembrane liner not exposed and free of damage	S			

**6.4 SE Cap Tie-in**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	IRP Cap Tie-in	Transition of the IRP Cap with SE Cap intact, free of pull-out	S			

## MONTHLY INSPECTION

Date/Time: 5/8/03 1020-1150 Weather Conditions: Partly Sunny 72°

Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

### 7.1 MFDS Roadways

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Site Access Roadway	Free of ruts and pot holes	S			
2	Site Access Roadway	No aggregate wash-out	S			
3	North Perimeter Roadway	Free of ruts and pot holes	S			
4	North Perimeter Roadway	No aggregate wash-out	S			
5	East Perimeter Roadway	Free of ruts and pot holes	S			
6	East Perimeter Roadway	No aggregate wash-out	S			
7	South Perimeter Roadway	Free of ruts and pot holes	S			
8	South Perimeter Roadway	No aggregate wash-out	S			
9	West Perimeter Roadway	Free of ruts and pot holes	S			
10	West Perimeter Roadway	No aggregate wash-out	S			

### 7.2 MFDS Security

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	North Perimeter Fence Site Access	Oil hinges	S			
2	IRP Cap Perimeter Fence	Free of signs of borrowing animals	S			

### 7.5 Samplers

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Sampler 1	ISCO portable samplers free of damage	S			
2	Sampler 1	Locations according to Figures 7-2 and 7-3	S			

1. Indicate sampler identification in Required Action

### 7.7 Liquids

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall Sumps 1	Free of accumulated liquids	S			
2	Subsided Areas (if any) 2	Free of accumulated liquids	S			
3	Around MFDS 3	Free of accumulated liquids	S			

1. Indicate headwall sump, identification in Required Action

2. Indicate liner panel location or area of IRP Cap in Required Action

3. Indicate location in Required Action



## MONTHLY INSPECTION

Date/Time: 6/20/03 0930-1545 Weather Conditions: Mostly Sunny 78°  
 Inspector(s): R. Brown / D. Pollitt  
 See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

### 3.1 Geomembrane Liner

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	IRP Cap1	Free of tears, punctures, or thin spots in 45-mil reinforced polypropylene (liner).	S			
2	IRP Cap2	Sealed factory seams via visual site walk.	S			
3	Geomembrane Liner Boots 2 (83)	Free of tears, punctures, or thin spots in 45-mil reinforced polypropylene (liner).	S			
4	Sump Extension2 (83)	Free of tears, punctures, or thin spots in 45-mil reinforced polypropylene (liner).	S			
5	Sump Extension2 (83)	Integrity of sump lid	S			
6	Sump Extension2 (83)	Free of tears, punctures, or thin spots in 45-mil reinforced polypropylene (liner).	S			
7	Data Loggers	Integrity of data logger system	S			

Note 1. For repairs, see Appendix C-1 for the 45-mil reinforced polypropylene repair procedure. 2. Indicate sump extension identification in Required Action.

### 3.3 Subsidence

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Subsidence Monitoring	Free of storm water ponding over IRP Cap	S			

### 3.4 Anchorage Trenches

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior Anchor Trenches	Free of pull out liner	S			
2	Interior Anchor Trenches	Free of tears, punctures, or thin spots in liner	S			
3	Interior Anchor Trenches	Geotextile fabric free of damages, if exposed	S			
4	North Perimeter Anchor Trench	Free of pull out liner	S			
5	North Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner	S			
6	North Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed	S			
7	East Perimeter Anchor Trench	Free of pull out liner	S			
8	East Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner	S			
9	East Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed	S			
10	South Perimeter Anchor Trench	Free of pull out liner	S			
11	South Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner	S			
12	South Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed	S			
13	West Perimeter Anchor Trench	Free of pull out liner	S			
14	West Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner	S			
15	West Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed	S			

## MONTHLY INSPECTION

Date/Time: 6/20/03 0930 - 1545 Weather Conditions: Mostly Sunny 78°  
 Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

### 3.5 Articulating Concrete Blocks (AB) System

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	North Perimeter Channel	Integrity of mat system / concrete blocks	S			
2	North Perimeter Channel	Liner free of tears, punctures, or thin spots				
3	North Perimeter Channel	Free of vegetative growth which decreases channel capacity				
4	East Perimeter Channel	Integrity of mat system / concrete blocks				
5	East Perimeter Channel	Liner free of tears, punctures, or thin spots				
6	East Perimeter Channel	Free of vegetative growth which decreases channel capacity				
7	SE Perimeter Channel	Integrity of mat system / concrete blocks				
8	SE Perimeter Channel	Liner free of tears, punctures, or thin spots				
9	SE Perimeter Channel	Free of vegetative growth which decreases channel capacity				
10	Interior "Y" Channel	Integrity of mat system / concrete blocks				
11	Interior "Y" Channel	Liner free of tears, punctures, or thin spots				
12	Interior "Y" Channel	Free of vegetative growth which decreases channel capacity				

### 3.6 Emergency Spillway and Northeast Corner Piping

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Emergency Spillway along NE Corner of MFDS	Free of debris	S			
2	Manhole # 1	Manhole lid secure attached and flush with ground surface	S			
3	Manhole # 2	Manhole lid secure attached and flush with ground surface	S			
4	Upstream Headwall	Headwall invert / culvert free of debris	S			
5	Downstream Headwall	Headwall invert / culvert free of debris	S			

### 4.1 Principal Spillway

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Ultrasonic Flow Recorder	Calibrated reading measurement compares with staff gauge measurement.	S			
1	Riprap	No riprap washout composing side-slopes	S			
1	Riprap	Free of debris and silt/sediment	S			

### 4.2 Emergency Spillway

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Gabion Basket System	Free of debris	S			

## MONTHLY INSPECTION

Date/Time: 6/26/03 - 6/25/03 0930 - 1400

Weather Conditions: Sunny 65°

Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

### 4.4 Basin Area

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riprap	Free of debris, silt or sediment	S			
2	Riprap	No riprap washout comprising side-slopes	S			
3	Gabion Basin System	Free of debris	S			

### 5.2 South Drainage Channel

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riprap	Free of debris, silt or sediment	S			
2	Riprap	No riprap washout comprising side-slopes	S			
3	Gabion Basin System	Free of debris	S			

### 6.1 SE Cap Geomembrane Liner

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Geomembrane Liner	Free of exposed liner in turf	S			

### 6.2 SE Cap Turf

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Turf	Free of eroded areas	S			
2	Turf	Free of signs of borrowing animals	S			

### 6.3 SE Cap Riprap Outlet

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riprap Outlet	No riprap washout comprising side-slopes	S			
2	Riprap Outlet	Free of debris	S			
3	Liner	Geomembrane liner not exposed and free of damage	S			

### 6.4 SE Cap Tie-in

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	IRP Cap Tie-in	Transition of the IRP Cap with SE Cap intact; free of pull-out	S			

## MONTHLY INSPECTION

Date/Time: 6/23/03 0900 - 1400 Weather Conditions: Fair 62°  
 Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

### 7.1 MFDS Roadways

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Site Access Roadway	Free of ruts and pot holes	S			
2	Site Access Roadway	No aggregate wash-out	S			
3	North Perimeter Roadway	Free of ruts and pot holes	S			
4	North Perimeter Roadway	No aggregate wash-out	S			
5	East Perimeter Roadway	Free of ruts and pot holes	S			
6	East Perimeter Roadway	No aggregate wash-out	S			
7	South Perimeter Roadway	Free of ruts and pot holes	S			
8	South Perimeter Roadway	No aggregate wash-out	S			
9	West Perimeter Roadway	Free of ruts and pot holes	S			
10	West Perimeter Roadway	No aggregate wash-out	S			

### 7.2 MFDS Security

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	North Perimeter Fence Site Access	Oil hinges	S			
2	IRP Cap Perimeter Fence	Free of signs of borrowing animals	S			

### 7.5 Samplers

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Sampler 1	ISCO portable samplers free of damage	S			
2	Sampler 1	Locations according to Figures 7-2 and 7-3	S			

1. Indicate sampler identification in Required Action

### 7.7 Liquids

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall Sumps 1	Free of accumulated liquids	S			
2	Subsided Areas (if any) 2	Free of accumulated liquids	S			
3	Around MFDS 3	Free of accumulated liquids	S			

1. Indicate headwall sump, identification in Required Action
2. Indicate liner panel location or area of IRP Cap in Required Action
3. Indicate location in Required Action

Date/Time: <sup>RA</sup> 7/31/03  
 8/1/03 1030-1530 Weather Conditions: Sunny 83°  
 Inspector(s): R. Brown / Donna Pollitt  
 See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

### 3.1 Geomembrane Liner

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	IRP Cap1	Free of tears, punctures, or thin spots in 45-mil reinforced polypropylene (liner).	S			
2	IRP Cap2	Sealed factory seams via visual site walk.	S			
3	Geomembrane Liner Boots 2 (83)	Free of tears, punctures, or thin spots in 45-mil reinforced polypropylene (liner).	S			
4	Sump Extension2 (83)	Free of tears, punctures, or thin spots in 45-mil reinforced polypropylene (liner).	S			
5	Sump Extension2 (83)	Integrity of sump lid	S			
6	Sump Extension2 (83)	Free of tears, punctures, or thin spots in 45-mil reinforced polypropylene (liner).	S			
7	Data Loggers	Integrity of data logger system	S			

Note 1. For repairs, see Appendix C-1 for the 45-mil reinforced polypropylene repair procedure. 2. Indicate sump extension identification in Required Action.

### 3.3 Subsidence

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Subsidence Monitoring	Free of storm water ponding over IRP Cap	S			

### 3.4 Anchorage Trenches

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior Anchor Trenches	Free of pull out liner	S			
2	Interior Anchor Trenches	Free of tears, punctures, or thin spots in liner				
3	Interior Anchor Trenches	Geotextile fabric free of damages, if exposed				
4	North Perimeter Anchor Trench	Free of pull out liner				
5	North Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner				
6	North Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed				
7	East Perimeter Anchor Trench	Free of pull out liner				
8	East Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner				
9	East Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed				
10	South Perimeter Anchor Trench	Free of pull out liner				
11	South Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner				
12	South Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed				
13	West Perimeter Anchor Trench	Free of pull out liner				
14	West Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner				
15	West Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed				

7/31/03<sup>AB</sup>

**MONTHLY INSPECTION**

Date/Time: 8/1/03 1030-1530 Weather Conditions: Sunny 83°

Inspector(s): R. Brown / D. Poelich

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**3.5 Articulating Concrete Blocks (AB) System**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	North Perimeter Channel	Integrity of mat system / concrete blocks	S			
2	North Perimeter Channel	Liner free of tears, punctures, or thin spots				
3	North Perimeter Channel	Free of vegetative growth which decreases channel capacity				
4	East Perimeter Channel	Integrity of mat system / concrete blocks				
5	East Perimeter Channel	Liner free of tears, punctures, or thin spots				
6	East Perimeter Channel	Free of vegetative growth which decreases channel capacity				
7	SE Perimeter Channel	Integrity of mat system / concrete blocks				
8	SE Perimeter Channel	Liner free of tears, punctures, or thin spots				
9	SE Perimeter Channel	Free of vegetative growth which decreases channel capacity				
10	Interior "Y" Channel	Integrity of mat system / concrete blocks				
11	Interior "Y" Channel	Liner free of tears, punctures, or thin spots				
12	Interior "Y" Channel	Free of vegetative growth which decreases channel capacity				

**3.6 Emergency Spillway and Northeast Corner Piping**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Emergency Spillway along NE Corner of MFDS	Free of debris	S			
2	Manhole # 1	Manhole lid secure attached and flush with ground surface				
3	Manhole # 2	Manhole lid secure attached and flush with ground surface				
4	Upstream Headwall	Headwall invert / culvert free of debris				
5	Downstream Headwall	Headwall invert / culvert free of debris				

**4.1 Principal Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Ultrasonic Flow Recorder	Calibrated reading measurement compares with staff gauge measurement.	S			
1	Riprap	No riprap washout comprising side-slopes				
1	Riprap	Free of debris and silt/sediment				

**4.2 Emergency Spillway**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Gabion Basket System	Free of debris	S			

**MONTHLY INSPECTION**

Date/Time: <sup>RB</sup> 7/31/03 ~~8/1/03~~ 1030-1530 Weather Conditions: Sunny 83°  
 Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**4.4 Basin Area**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riprap	Free of debris, silt or sediment	S			
2	Riprap	No riprap washout comprising side-slopes	S			
3	Gabion Basin System	Free of debris	S			

**5.2 South Drainage Channel**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riprap	Free of debris, silt or sediment	S			
2	Riprap	No riprap washout comprising side-slopes	S			
3	Gabion Basin System	Free of debris	S			

**6.1 SE Cap Geomembrane Liner**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Geomembrane Liner	Free of exposed liner in turf	S			

**6.2 SE Cap Turf**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Turf	Free of eroded areas	S			
2	Turf	Free of signs of borrowing animals	S			

**6.3 SE Cap Riprap Outlet**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riprap Outlet	No riprap washout comprising side-slopes	S			
2	Riprap Outlet	Free of debris	S			
3	Liner	Geomembrane liner not exposed and free of damage	S			

**6.4 SE Cap Tie-in**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	IRP Cap Tie-in	Transition of the IRP Cap with SE Cap intact; free of pull-out	S			

7/31/03<sup>RB</sup>

**MONTHLY INSPECTION**

Date/Time: 8/1/03 1030-1530 Weather Conditions: Sunny 83°  
 Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**7.1 MFDS Roadways**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Site Access Roadway	Free of ruts and pot holes	S			
2	Site Access Roadway	No aggregate wash-out				
3	North Perimeter Roadway	Free of ruts and pot holes				
4	North Perimeter Roadway	No aggregate wash-out				
5	East Perimeter Roadway	Free of ruts and pot holes				
6	East Perimeter Roadway	No aggregate wash-out				
7	South Perimeter Roadway	Free of ruts and pot holes				
8	South Perimeter Roadway	No aggregate wash-out				
9	West Perimeter Roadway	Free of ruts and pot holes				
10	West Perimeter Roadway	No aggregate wash-out				

**7.2 MFDS Security**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	North Perimeter Fence Site Access	Oil hinges	S			
2	IRP Cap Perimeter Fence	Free of signs of borrowing animals				

**7.5 Samplers**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Sampler 1	ISCO portable samplers free of damage	S			
2	Sampler 1	Locations according to Figures 7-2 and 7-3				

1. Indicate sampler identification in Required Action

**7.7 Liquids**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall Sumps 1	Free of accumulated liquids	S			
2	Subsided Areas (if any) 2	Free of accumulated liquids				
3	Around MFDS 3	Free of accumulated liquids				

- 1. Indicate headwall sump, identification in Required Action
- 2. Indicate liner panel location or area of IRP Cap in Required Action
- 3. Indicate location in Required Action



### MONTHLY INSPECTION

Date/Time: 8/26/03 0900 - 1145 Weather Conditions: Mostly Sunny 72°  
 Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

#### 3.1 Geomembrane Liner

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	IRP Cap1	Free of tears, punctures, or thin spots in 45-mil reinforced polypropylene (liner).	S			
2	IRP Cap2	Sealed factory seams via visual site walk.	S			
3	Geomembrane Liner Boots 2 (83)	Free of tears, punctures, or thin spots in 45-mil reinforced polypropylene (liner).	S			
4	Sump Extension2 (83)	Free of tears, punctures, or thin spots in 45-mil reinforced polypropylene (liner).	S			
5	Sump Extension2 (83)	Integrity of sump lid	S			
6	Sump Extension2 (83)	Free of tears, punctures, or thin spots in 45-mil reinforced polypropylene (liner).	S			
7	Data Loggers	Integrity of data logger system	S			

Note 1. For repairs, see Appendix C-1 for the 45-mil reinforced polypropylene repair procedure. 2. Indicate sump extension identification in Required Action.

#### 3.3 Subsidence

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Subsidence Monitoring	Free of storm water ponding over IRP Cap	S			

#### 3.4 Anchorage Trenches

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior Anchor Trenches	Free of pull out liner	S			
2	Interior Anchor Trenches	Free of tears, punctures, or thin spots in liner				
3	Interior Anchor Trenches	Geotextile fabric free of damages, if exposed				
4	North Perimeter Anchor Trench	Free of pull out liner				
5	North Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner				
6	North Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed				
7	East Perimeter Anchor Trench	Free of pull out liner				
8	East Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner				
9	East Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed				
10	South Perimeter Anchor Trench	Free of pull out liner				
11	South Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner				
12	South Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed				
13	West Perimeter Anchor Trench	Free of pull out liner				
14	West Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner				
15	West Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed				

## MONTHLY INSPECTION

Date/Time: 8/25/03 0850 - 1200 Weather Conditions: Clear 75°  
 Inspector(s): R. Brown / D. Politt

See Appendix A-2 "Inspection Frequency Matrix" for type of inspection and frequency

### 3.5 Articulating Concrete Blocks (AB) System

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	North Perimeter Channel	Integrity of mat system / concrete blocks	S			
2	North Perimeter Channel	Liner free of tears, punctures, or thin spots				
3	North Perimeter Channel	Free of vegetative growth which decreases channel capacity				
4	East Perimeter Channel	Integrity of mat system / concrete blocks				
5	East Perimeter Channel	Liner free of tears, punctures, or thin spots				
6	East Perimeter Channel	Free of vegetative growth which decreases channel capacity				
7	SE Perimeter Channel	Integrity of mat system / concrete blocks				
8	SE Perimeter Channel	Liner free of tears, punctures, or thin spots				
9	SE Perimeter Channel	Free of vegetative growth which decreases channel capacity				
10	Interior "Y" Channel	Integrity of mat system / concrete blocks				
11	Interior "Y" Channel	Liner free of tears, punctures, or thin spots				
12	Interior "Y" Channel	Free of vegetative growth which decreases channel capacity				

### 3.6 Emergency Spillway and Northeast Corner Piping

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Emergency Spillway along NE Corner of MFDS	Free of debris	S			
2	Manhole # 1	Manhole lid secure attached and flush with ground surface	S			
3	Manhole # 2	Manhole lid secure attached and flush with ground surface	S			
4	Upstream Headwall	Headwall invert / culvert free of debris	S			
5	Downstream Headwall	Headwall invert / culvert free of debris	S			

### 4.1 Principal Spillway

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Ultrasonic Flow Recorder	Calibrated reading measurement compares with staff gauge measurement.	S			
1	Riprap	No riprap washout comprising side-slopes	S			
1	Riprap	Free of debris and silt/sediment	S			

### 4.2 Emergency Spillway

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Gabion Basket System	Free of debris	S			

**MONTHLY INSPECTION**

Date/Time: 8/26/03 0900 - 1145 Weather Conditions: Sunny 78°  
 Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

**4.4 Basin Area**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riprap	Free of debris, silt or sediment	S			
2	Riprap	No riprap washout comprising side-slopes	S			
3	Gabion Basin System	Free of debris	S			

**5.2 South Drainage Channel**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riprap	Free of debris, silt or sediment	S			
2	Riprap	No riprap washout comprising side-slopes	S			
3	Gabion Basin System	Free of debris	S			

**6.1 SE Cap Geomembrane Liner**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Geomembrane Liner	Free of exposed liner in turf	S			

**6.2 SE Cap Turf**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Turf	Free of eroded areas	S			
2	Turf	Free of signs of borrowing animals	S			

**6.3 SE Cap Riprap Outlet**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riprap Outlet	No riprap washout comprising side-slopes	S			
2	Riprap Outlet	Free of debris	S			
3	Liner	Geomembrane liner not exposed and free of damage	S			

**6.4 SE Cap Tie-in**

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	IRP Cap Tie-in	Transition of the IRP Cap with SE Cap intact; free of pull-out	S			

## MONTHLY INSPECTION

Date/Time: 8/26/03 1030-1145 Weather Conditions: Sunny 78°  
 Inspector(s): R. Brown / D. Pollitt

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

### 7.1 MFDS Roadways

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Site Access Roadway	Free of ruts and pot holes	S			
2	Site Access Roadway	No aggregate wash-out	S			
3	North Perimeter Roadway	Free of ruts and pot holes	S			
4	North Perimeter Roadway	No aggregate wash-out	S			
5	East Perimeter Roadway	Free of ruts and pot holes	S			
6	East Perimeter Roadway	No aggregate wash-out	S			
7	South Perimeter Roadway	Free of ruts and pot holes	S			
8	South Perimeter Roadway	No aggregate wash-out	S			
9	West Perimeter Roadway	Free of ruts and pot holes	S			
10	West Perimeter Roadway	No aggregate wash-out	S			

### 7.2 MFDS Security

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	North Perimeter Fence Site Access	Oil hinges	S			
2	IRP Cap Perimeter Fence	Free of signs of borrowing animals	S			

### 7.5 Samplers

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Sampler 1	ISCO portable samplers free of damage	S			
2	Sampler 1	Locations according to Figures 7-2 and 7-3	S			

1. Indicate sampler identification in Required Action

### 7.7 Liquids

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall Sumps 1	Free of accumulated liquids	S			
2	Subsided Areas (if any) 2	Free of accumulated liquids	S			
3	Around MFDS 3	Free of accumulated liquids	S			

1. Indicate headwall sump, identification in Required Action
2. Indicate liner panel location or area of IRP Cap in Required Action
3. Indicate location in Required Action

### MONTHLY INSPECTION

Date/Time: 9/4/03 1230-1530 Weather Conditions: Sunny 76°  
 Inspector(s): R. Brown / Donnie Pollitt Type of Inspection: Routine  Severe Weather

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

#### 3.1 Geomembrane Liner

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	IRP Cap1	Free of tears, punctures, or thin spots in 45-mil reinforced polypropylene (liner).	S			
2	IRP Cap2	Sealed factory seams via visual site walk.	S			
3	Geomembrane Liner Boots 2 (83)	Free of tears, punctures, or thin spots in 45-mil reinforced polypropylene (liner).	S			
4	Sump Extension2 (83)	Free of tears, punctures, or thin spots in 45-mil reinforced polypropylene (liner).	S			
5	Sump Extension2 (83)	Integrity of sump lid	S			
6	Sump Extension2 (83)	Free of tears, punctures, or thin spots in 45-mil reinforced polypropylene (liner).	S			
7	Data Loggers	Integrity of data logger system	S			

Note 1. For repairs, see Appendix C-1 for the 45-mil reinforced polypropylene repair procedure. 2. Indicate sump extension identification in Required Action.

#### 3.3 Subsidence

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Subsidence Monitoring	Free of storm water ponding over IRP Cap	S			

#### 3.4 Anchorage Trenches

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior Anchor Trenches	Free of pull out liner	S			
2	Interior Anchor Trenches	Free of tears, punctures, or thin spots in liner				
3	Interior Anchor Trenches	Geotextile fabric free of damages, if exposed				
4	North Perimeter Anchor Trench	Free of pull out liner				
5	North Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner				
6	North Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed				
7	East Perimeter Anchor Trench	Free of pull out liner				
8	East Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner				
9	East Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed				
10	South Perimeter Anchor Trench	Free of pull out liner				
11	South Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner				
12	South Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed				
13	West Perimeter Anchor Trench	Free of pull out liner				
14	West Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner				
15	West Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed				

## MONTHLY INSPECTION

Date/Time: 9/4/03 1230 - 1530 Weather Conditions: Sunny 76°  
 Inspector(s): R. Brown / D. Pollett Type of Inspection: Routine  Severe Weather   
 See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

### 3.5 Articulating Concrete Blocks (AB) System

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	North Perimeter Channel	Integrity of mat system / concrete blocks	S			
2	North Perimeter Channel	Liner free of tears, punctures, or thin spots	S			
3	North Perimeter Channel	Free of vegetative growth which decreases channel capacity	S			
4	East Perimeter Channel	Integrity of mat system / concrete blocks	S			
5	East Perimeter Channel	Liner free of tears, punctures, or thin spots	S			
6	East Perimeter Channel	Free of vegetative growth which decreases channel capacity	S			
7	SE Perimeter Channel	Integrity of mat system / concrete blocks	S			
8	SE Perimeter Channel	Liner free of tears, punctures, or thin spots	S			
9	SE Perimeter Channel	Free of vegetative growth which decreases channel capacity	S			
10	Interior "Y" Channel	Integrity of mat system / concrete blocks	S			
11	Interior "Y" Channel	Liner free of tears, punctures, or thin spots	S			
12	Interior "Y" Channel	Free of vegetative growth which decreases channel capacity	S			

### 3.6 Emergency Spillway and Northeast Corner Piping

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Emergency Spillway along NE Corner of MFDS	Free of debris	S			
2	Manhole # 1	Manhole lid secure attached and flush with ground surface	S			
3	Manhole # 2	Manhole lid secure attached and flush with ground surface	S			
4	Upstream Headwall	Headwall invert / culvert free of debris	S			
5	Downstream Headwall	Headwall invert / culvert free of debris	S			

### 4.1 Principal Spillway

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Ultrasonic Flow Recorder	Calibrated reading measurement compares with staff gauge measurement.	S			
1	Riprap	No riprap washout comprising side-slopes	S			
1	Riprap	Free of debris and silt/sediment	S			

### 4.2 Emergency Spillway

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Gabion Basket System	Free of debris	S			

## MONTHLY INSPECTION

Date/Time: 9(4-5)03 1000 - 1330 Weather Conditions: Sunny 69°

Inspector(s): R. Brown / D. Pollitt

Type of Inspection: Routine  Severe Weather

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

### 4.4 Basin Area

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riprap	Free of debris, silt or sediment	S			
2	Riprap	No riprap washout comprising side-slopes	S			
3	Gabion Basin System	Free of debris	S			

### 5.2 South Drainage Channel

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riprap	Free of debris, silt or sediment	S			
2	Riprap	No riprap washout comprising side-slopes	S			
3	Gabion Basin System	Free of debris	S			

### 6.1 SE Cap Geomembrane Liner

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Geomembrane Liner	Free of exposed liner in turf	S			

### 6.2 SE Cap Turf

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Turf	Free of eroded areas	S			
2	Turf	Free of signs of borrowing animals	S			

### 6.3 SE Cap Riprap Outlet

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riprap Outlet	No riprap washout comprising side-slopes	S			
2	Riprap Outlet	Free of debris	S			
3	Liner	Geomembrane liner not exposed and free of damage	S			

### 6.4 SE Cap Tie-in

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	IRP Cap Tie-in	Transition of the IRP Cap with SE Cap intact; free of pull-out	S			

## MONTHLY INSPECTION

Date/Time: 9/5/03 0900-1300 Weather Conditions: Sunny 69°  
 Inspector(s): R. Brown / D. Pollitt Type of Inspection: Routine  Severe Weather

See Appendix A-2 "Inspection Frequency Matrix", for type of inspection and frequency

### 7.1 MFDS Roadways

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Site Access Roadway	Free of ruts and pot holes	S			
2	Site Access Roadway	No aggregate wash-out	S			
3	North Perimeter Roadway	Free of ruts and pot holes	S			
4	North Perimeter Roadway	No aggregate wash-out	S			
5	East Perimeter Roadway	Free of ruts and pot holes	S			
6	East Perimeter Roadway	No aggregate wash-out	S			
7	South Perimeter Roadway	Free of ruts and pot holes	S			
8	South Perimeter Roadway	No aggregate wash-out	S			
9	West Perimeter Roadway	Free of ruts and pot holes	S			
10	West Perimeter Roadway	No aggregate wash-out	S			

### 7.2 MFDS Security

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	North Perimeter Fence Site Access	Oil hinges	S			
2	IRP Cap Perimeter Fence	Free of signs of borrowing animals	S			

### 7.5 Samplers

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Sampler 1	ISCO portable samplers free of damage	S			
2	Sampler 1	Locations according to Figures 7-2 and 7-3	S			

1. Indicate sampler identification in Required Action

### 7.7 Liquids

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall Sumps 1	Free of accumulated liquids	S			
2	Subsided Areas (if any) 2	Free of accumulated liquids	S			
3	Around MFDS 3	Free of accumulated liquids	S			

1. Indicate headwall sump, identification in Required Action
2. Indicate liner panel location or area of IRP Cap in Required Action
3. Indicate location in Required Action



## MONTHLY INSPECTION

Date/Time: 10/27/03 1020 - 1500 Weather Conditions: Partly Cloudy 48°  
 Inspector(s): R. Brown / D. Pollitt Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2. "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

### 3.1 Geomembrane Liner

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	IRP Cap1	Free of tears, penetrations, or thin spots in 45-mil reinforced polypropylene (liner).	S			
2	IRP Cap1	Sealed factory seams via visual site walk.	S			
3	IRP Cap1	Free of soft spots or wet areas	S			
4	Geomembrane Liner Boots 2 (83)	Free of tears, penetrations, or thin spots in transition of liner to liner boots	S			
5	Geomembrane Liner Boots 2 (83)	Free of liner fatigue, accumulated liquids, settlement, etc. at the sump extension	S			
6	Sump Extension2 (83)	Free of tears, penetrations, or thin spots in transition of liner to liner boots	S			
7	Sump Extension2 (83)	Integrity of sump lid	S			
8	Sump Extension2 (83)	Integrity of geomembrane liner boots	S			
9	Data Logger2	Integrity of data logger system in extended sump	S			

Note 1) For repairs, see Appendix C-1 for the 45-mil reinforced polypropylene repair procedure. 2) Indicate sump extension identification in Required Action. See Appendix C-2 for sump lid and data logger removable/re-installation procedure calibrate the data logger (if required) in accordance with Appendix E-3. 3) If settlement, see Appendix C-4 for the repair procedure detailed documentation.

### 3.3 Subsidence

Number	OM Item	Inspection Item	Approximate Water Depth (inches)	Approximate Area (SF)	Required Action	Action Completed Date/Initial
1	Subsidence Monitoring	Document any subsidence area / panel # _____	S			
2	Subsidence Monitoring	Document any subsidence area / panel # _____	S			
3	Subsidence Monitoring	Document any subsidence area / panel # _____	S			
4	Subsidence Monitoring	Document any subsidence area / panel # _____	S			
5	Subsidence Monitoring	Document any subsidence area / panel # _____	S			
6	Subsidence Monitoring	Document any subsidence area / panel # _____	S			
7	Subsidence Monitoring	Document any subsidence area / panel # _____	S			
8	Subsidence Monitoring	Document any subsidence area / panel # _____	S			
9	Subsidence Monitoring	Document any subsidence area / panel # _____	S			
10	Subsidence Monitoring	Document any subsidence area / panel # _____	S			

Note: 1) See Appendix C-4 for repair procedure and detailed documentation.

# MONTHLY INSPECTION

Date/Time: 10/27/03 1020 - 1500

Weather Conditions: Partly Cloudy 48°

Inspector(s): R. Brown / D. Pollitt

Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2, "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Once-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

## 3.4 Anchorage Trenches

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior Anchor Trenches	Free of pull out liner	S			
2	Interior Anchor Trenches	Free of tears, penetrations, or thin spots in liner	S			
3	Interior Anchor Trenches	Geotextile fabric free of damages, if exposed	S			
4	Interior Anchor Trenches	Free of soft spots or wet areas	S			
5	North Perimeter Anchor Trench	Free of pull out liner	S			
6	North Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner	S			
7	North Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed	S			
8	North Perimeter Anchor Trench	Free of soft spots or wet areas	S			
9	East Perimeter Anchor Trench	Free of pull out liner	S			
10	East Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner	S			
11	East Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed	S			
12	East Perimeter Anchor Trench	Free of soft spots or wet areas	S			
13	South Perimeter Anchor Trench	Free of pull out liner	S			
14	South Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner	S			
15	South Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed	S			
16	South Perimeter Anchor Trench	Free of soft spots or wet areas	S			
17	West Perimeter Anchor Trench	Free of pull out liner	S			
18	West Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner	S			
19	West Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed	S			
20	West Perimeter Anchor Trench	Free of soft spots or wet areas	S			

Note: 1. Indicate which interior anchor trench in the Required Action.

## MONTHLY INSPECTION

Date/Time: 10/27/03 0920-1500 Weather Conditions: Partly Cloudy 48°  
 Inspector(s): R. Brown / D. Pollitt Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2, "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Once-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

### 3.5 Articulating Concrete Blocks (AB) System

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	North Perimeter Channel	Free of broken concrete blocks	S			
2	North Perimeter Channel	Liner free of tears, penetrations, or thin spots	S			
3	North Perimeter Channel	Free of vegetative growth impeding channel flow	S			
4	North Perimeter Channel	Cementitious fill material free of spalling or void spaces allowing water to pool or erosion of adjacent fill material	S			
5	North Perimeter Channel	Steel clamps connecting the AB mats (3 clamps on the long side 1 clamp on the short side)	S			
6	East Perimeter Channel	Free of broken concrete blocks	S			
7	East Perimeter Channel	Liner free of tears, penetrations, or thin spots	S			
8	East Perimeter Channel	Free of vegetative growth which decreases channel capacity	S			
9	East Perimeter Channel	Steel clamps connecting the AB mats (3 clamps on the long side 1 clamp on the short side)	S			
10	SE Perimeter Channel	Free of broken concrete blocks	S			
11	SE Perimeter Channel	Liner free of tears, penetrations, or thin spots	S			
12	SE Perimeter Channel	Free of vegetative growth which decreases channel capacity	S			
13	SE Perimeter Channel	Cementitious fill material free at dead-man is free of spalling or void spaces allowing water to pool or erosion of adjacent fill material	S			
14	SE Perimeter Channel	Cementitious fill material in the corner is free of spalling or void spaces allowing water to pool or erosion of adjacent fill material	S			
15	SE Perimeter Channel	Steel clamps connecting the AB mats (3 clamps on the long side 1 clamp on the short side)	S			
16	Interior Y-Channel	Free of broken concrete blocks	S			
17	Interior Y-Channel	Liner free of tears, penetrations, or thin spots	S			
18	Interior Y-Channel	Free of vegetative growth impeding channel flow	S			
19	Interior Y-Channel	Cementitious fill material free of spalling or void spaces allowing water to pool or erosion of adjacent fill material	S			
20	Interior Y-Channel	Steel clamps connecting the AB mats (3 clamps on the long side 1 clamp on the short side)	S			

## MONTHLY INSPECTION

Date/Time: 10/27/03 0920 - 1500 Weather Conditions: Partly Cloudy 48°  
 Inspector(s): R. Brown / D. Pollitt Type of Inspection (Circle One):  General Inspection or  Following Severe Weather

1. See Appendix A-2. "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Two-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

### 3.6 Northeast Corner Piping

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Manhole # 1	Manhole lid secure attached and flush with ground surface	S			
2	Manhole # 2	Manhole lid secure attached and flush with ground surface	S			
3	Upstream Headwall	Headwall invert/culvert (trash grate/restricting plate) free of debris	S			
4	Upstream Headwall	Headwall invert/culvert free of debris	S			

### 3.7 Former Leachate Storage Facility Area

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	LSF Tank 1 (1)	Free of tears, penetrations, or thin spots in transition of liner in the access and vent riser extensions	S			
2	LSF Tank 1 (2)	Free of liner fatigue, accumulated liquids, settlement, et. at sump extension	S			
3	LSF Tank 2	Free of tears, penetrations, or thin spots in transition of liner in the access and vent riser extensions	S			
4	LSF Tank 2 (2)	Free of liner fatigue, accumulated liquids, settlement, et. at sump extension	S			
5	LSF Tank 3	Free of tears, penetrations, or thin spots in transition of liner in the access and vent riser extensions	S			
6	LSF Tank 3 (2)	Free of liner fatigue, accumulated liquids, settlement, et. at sump extension	S			
7	LSF Tank 4	Free of tears, penetrations, or thin spots in transition of liner in the access and vent riser extensions	S			
8	LSF Tank 4 (2)	Free of liner fatigue, accumulated liquids, settlement, et. at sump extension	S			
9	Rectifier Box for the Cathodic Protection System	Record the Direct Current Reading <u>7.0</u>	S			
10	Rectifier Box for the Cathodic Protection System	Record the Amps Output Reading <u>2.0</u>	S			

Notes: 1) Opening of LSF Tank 1 access vent riser shall be in accordance with the Commonwealth Procedures. 2) If settlement, see Appendix C-4 for the repair procedure detailed documentation.

## MONTHLY INSPECTION

Date/Time: 10/29/03 0930 - 1500 Weather Conditions: Partly Cloudy 55°  
 Inspector(s): R. Brown / D. Pollitt TYpe of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2. "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/ Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

Free of debris

### 4.1 Principal Spillway

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Ultrasonic Flow Recorder	Calibrated reading measurement compares with staff gauge measurement	S			
2	Riprap	Free of debris	S			
3	Riprap	Free of riprap washout compromising side-slopes	S			
4	Riprap	If exposed, geotextile fabric free of damages	S			
5	Riprap	Free of silt/sediment accumulation >3 inches	S			

### 4.2 Emergency Spillway

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Gabion Basket System 1	Free of debris	S			
2	Gabion Basket System 1	Free of riprap washout compromising integrity of basket system	S			

Note: 1) To maintain integrity, a spray rust preventative product may be used on an as needed basis note in the Required Action.

### 4.3 Embankment

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Embankment	Slide-slopes free of debris	S			
2	Embankment	Slide-slopes free of erosion gullies	S			
3	Embankment	Free of eroded areas	S			

## MONTHLY INSPECTION

Date/Time: 10/29/03 0930-1500 Weather Conditions: Partly Cloudy 55°  
 Inspector(s): R. Brown / D. Politt Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2, "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/ Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

### 4.4 Basin Area

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riprap	Free of debris	S S S S S S			
2	Riprap	Free of riprap washout compromising side-slopes				
3	Riprap	If exposed, geotextile fabric free of damages				
4	Riprap	Free of silt / sediment accumulation >3 inches				
5	Gabion Basket System 1	Free of debris				
6	Gabion Basket System 1	Free of riprap washout compromising basket system				

Note: 1) To maintain integrity, a spray rust preventative product may be used on an as needed basis note in the Required Action.

### 5.2 South Drain Inlet Area

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riprap	Free of debris	S S S S			
2	Riprap	No riprap washout compromising side-slopes				
3	Gabion Basket System 1	Free of debris				
4	Gabion Basket System 1	Free of riprap washout compromising basket system				

Note: 1) To maintain integrity, a spray rust preventative product may be used on an as needed basis note in the Required Action.

### 6.1 SE Cap Geomembrane Liner

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Geomembrane Liner	Free of exposed liner in turf	S S			
2	Geomembrane Liner	If liner is exposed, free of penetrations/tears/thin spots				

### 6.2 SE Cap Turf

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Turf	Free of eroded areas	S S S			
2	Turf	Free of erosion gullies				
3	Turf	Free of signs of borrowing animals				

## MONTHLY INSPECTION

Date/Time: 10/29/03 0930-1500 Weather Conditions: Partly Cloudy 53°

Inspector(s): R. Brown / D. Pollitt Type of Inspection (Circle One) General Inspection or Following Severe Weather

1. See Appendix A-2. "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/ Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

### 6.3 SE Cap Riprap Outlet

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riprap Outlet	Free of riprap washout compromising side-slopes	S			
2	Riprap	If exposed, geocomposite drainage net free of damages	S			
3	Riprap Outlet	Free of debris	S			

### 6.4 SE Cap Tie-In

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	IRP Cap Tie-in	Transition of the IRP Cap with Southeast Cap Intact /Free of liner pull out	S			

### 7.1 MFDS Roadways

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Site Access Roadway	Free of ruts and pot holes	S			
2	Site Access Roadway	No aggregate wash-out				
3	North Perimeter Roadway	Free of ruts and pot holes				
4	North Perimeter Roadway	No aggregate wash-out				
5	East Perimeter Roadway	Free of ruts and pot holes				
6	East Perimeter Roadway	No aggregate wash-out				
7	South Perimeter Roadway	Free of ruts and pot holes				
8	South Perimeter Roadway	No aggregate wash-out				
9	West Perimeter Roadway	Free of ruts and pot holes				
10	West Perimeter Roadway	No aggregate wash-out				

### 7.2 MFDS Security

Number	OM Item	Inspection Item	Product Name	Action Completed Date/Initial
1	North Perimeter Fence Site Access	Oil hinges	oil	oil hinges 10/29/03 RB
2	IRP Cap Perimeter Fence (1)	Oil hinges	oil	" " " "

## MONTHLY INSPECTION

Date/Time: 10/30/13 1030-1500 Weather Conditions: Sunny 65°

Inspector(s): R. Bann / D. Pollitt Type of Inspection (Circle One) General Inspection or Following Severe Weather

1. See Appendix A-2, "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/ Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

### 7.5 Samplers

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Samplers (1)	Portable samplers free of damages	S			
2	Samplers (1)	Locations according to Figures 7-1 and 7-2	S			

Note: 1) Indicate sampler identification in Required Action

### 7.7 Liquids

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall Sumps (1)	Free of accumulated liquids	S			
2	SUdsided Areas (If Any) 2	Free of accumulated liquids	S			
3	Around MFDS (3)	Free of accumulated liquids	S			

Note: 1) Indicate headwall sump, identification in Required Action. 2) Indicate liner panel location or area of IRP Cap in Required Action. 3) Indicate location in Required Action.

### 7.9 Miscellaneous Turf Area

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Borrow Pit - Turf (1)	Free of eroded areas	S			
2	Borrow Pit - Turf (1)	Free of erosion gullies	S			
3	Borrow Pit - Turf (1)	Free of debris along side-slopes	S			
4	Stockpile Pit - Turf (1)	Free of eroded areas	S			
5	Stockpile Pit - Turf (1)	Free of erosion gullies	S			
6	Stockpile Pit - Turf (1)	Free of debris along side-slopes	S			
	Areas around the IRP Cap - Turf (1)	Free of eroded areas	S			
	Areas around the IRP Cap - Turf (1)	Free of erosion gullies	S			
	Areas around the IRP Cap - Turf (1)	Free of debris along side-slopes	S			

Note: 1) Indicate designated area (Figure 7-4) in Required Action



## MONTHLY INSPECTION

Date/Time: 11/25/03 0900-1400 Weather Conditions: Fair 30°

Inspector(s): R. Brown Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2, "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/ Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

### 3.1 Geomembrane Liner

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	IRP Cap1	Free of tears, penetrations, or thin spots in 45-mil reinforced polypropylene (liner).	S			
2	IRP Cap1	Sealed factory seams via visual site walk.	S			
3	IRP Cap1	Free of soft spots or wet areas	S			
4	Geomembrane Liner Boots 2 (83)	Free of tears, penetrations, or thin spots in transition of liner to liner boots	S			
5	Geomembrane Liner Boots 2 (83)	Free of liner fatigue, accumulated liquids, settlement, etc. at the sump extension	S			
6	Sump Extension2 (83)	Free of tears, penetrations, or thin spots in transition of liner to liner boots	S			
7	Sump Extension2 (83)	Integrity of sump lid	S			
8	Sump Extension2 (83)	Integrity of geomembrane liner boots	S			
9	Data Logger2	Integrity of data logger system in extended sump	S			

Note 1) For repairs, see Appendix C-1 for the 45-mil reinforced polypropylene repair procedure. 2) Indicate sump extension identification in Required Action. See Appendix C-2 for sump lid and data logger removable/re-installation procedure calibrate the data logger (if required) in accordance with Appendix E-3. 3) If settlement, see Appendix C-4 for the repair procedure detailed documentation.

### 3.3 Subsidence

Number	OM Item	Inspection Item	Approximate Water Depth (inches)	Approximate Area (SF)	Required Action	Action Completed Date/Initial
1	Subsidence Monitoring	Document any subsidence area / panel # <u>E TR 30<sup>s</sup></u>	<u>Low AREA</u>	<u>RECORDED</u>	<u>NONE</u>	<u>NO ACTION RB 11/25/03</u>
2	Subsidence Monitoring	Document any subsidence area / panel # _____	S			
3	Subsidence Monitoring	Document any subsidence area / panel # _____	S			
4	Subsidence Monitoring	Document any subsidence area / panel # _____	S			
5	Subsidence Monitoring	Document any subsidence area / panel # _____	S			
6	Subsidence Monitoring	Document any subsidence area / panel # _____	S			
7	Subsidence Monitoring	Document any subsidence area / panel # _____	S			
8	Subsidence Monitoring	Document any subsidence area / panel # _____	S			
9	Subsidence Monitoring	Document any subsidence area / panel # _____	S			
10	Subsidence Monitoring	Document any subsidence area / panel # _____	S			

Note: 1) See Appendix C-4 for repair procedure and detailed documentation.

# MONTHLY INSPECTION

Date/Time: 11/25/03 0900-1400 Weather Conditions: Fair 30°

Inspector(s): R. Brown Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2. "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/ Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

## 3.4 Anchorage Trenches

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior Anchor Trenches	Free of pull out liner	S			
2	Interior Anchor Trenches	Free of tears, penetrations, or thin spots in liner	S			
3	Interior Anchor Trenches	Geotextile fabric free of damages, if exposed	S			
4	Interior Anchor Trenches	Free of soft spots or wet areas	S			
5	North Perimeter Anchor Trench	Free of pull out liner	S			
6	North Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner	S			
7	North Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed	S			
8	North Perimeter Anchor Trench	Free of soft spots or wet areas	S			
9	East Perimeter Anchor Trench	Free of pull out liner	S			
10	East Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner	S			
11	East Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed	S			
12	East Perimeter Anchor Trench	Free of soft spots or wet areas	S			
13	South Perimeter Anchor Trench	Free of pull out liner	S			
14	South Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner	S			
15	South Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed	S			
16	South Perimeter Anchor Trench	Free of soft spots or wet areas	S			
17	West Perimeter Anchor Trench	Free of pull out liner	S			
18	West Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner	S			
19	West Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed	S			
20	West Perimeter Anchor Trench	Free of soft spots or wet areas	S			

Note: 1. Indicate which interior anchor trench in the Required Action.

# MONTHLY INSPECTION

Date/Time: 11/25/03 1020-1530 Weather Conditions: Fair 30°

Inspector(s): R. Brown Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2, "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/ Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

## 3.5 Articulating Concrete Blocks (AB) System

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	North Perimeter Channel	Free of broken concrete blocks	S			
2	North Perimeter Channel	Liner free of tears, penetrations, or thin spots	S			
3	North Perimeter Channel	Free of vegetative growth impeding channel flow	S			
4	North Perimeter Channel	Cementitious fill material free of spalling or void spaces allowing water to pool or erosion of adjacent fill material	S			
5	North Perimeter Channel	Steel clamps connecting the AB mats (3 clamps on the long side 1 clamp on the short side)	S			
6	East Perimeter Channel	Free of broken concrete blocks	S			
7	East Perimeter Channel	Liner free of tears, penetrations, or thin spots	S			
8	East Perimeter Channel	Free of vegetative growth which decreases channel capacity	S			
9	East Perimeter Channel	Steel clamps connecting the AB mats (3 clamps on the long side 1 clamp on the short side)	S			
10	SE Perimeter Channel	Free of broken concrete blocks	S			
11	SE Perimeter Channel	Liner free of tears, penetrations, or thin spots	S			
12	SE Perimeter Channel	Free of vegetative growth which decreases channel capacity	S			
13	SE Perimeter Channel	Cementitious fill material free at dead-man is free of spalling or void spaces allowing water to pool or erosion of adjacent fill material	S			
14	SE Perimeter Channel	Cementitious fill material in the corner is free of spalling or void spaces allowing water to pool or erosion of adjacent fill material	S			
15	SE Perimeter Channel	Steel clamps connecting the AB mats (3 clamps on the long side 1 clamp on the short side)	S			
16	Interior Y-Channel	Free of broken concrete blocks	S			
17	Interior Y-Channel	Liner free of tears, penetrations, or thin spots	S			
18	Interior Y-Channel	Free of vegetative growth impeding channel flow	S			
19	Interior Y-Channel	Cementitious fill material free of spalling or void spaces allowing water to pool or erosion of adjacent fill material	S			
20	Interior Y-Channel	Steel clamps connecting the AB mats (3 clamps on the long side 1 clamp on the short side)	S			

## MONTHLY INSPECTION

Date/Time: 11/26/03 1230 - 1400 Weather Conditions: Fair 30'

Inspector(s): R. Brown Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2, "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

### 3.6 Northeast Corner Piping

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Manhole # 1	Manhole lid secure attached and flush with ground surface	S			
2	Manhole # 2	Manhole lid secure attached and flush with ground surface	S			
3	Upstream Headwall	Headwall invert/culvert (trash grate/restricting plate) free of debris	S			
4	Upstream Headwall	Headwall invert/culvert free of debris	S			

### 3.7 Former Leachate Storage Facility Area

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	LSF Tank 1 (1)	Free of tears, penetrations, or thin spots in transition of liner in the access and vent riser extensions	S			
2	LSF Tank 1 (2)	Free of liner fatigue, accumulated liquids, settlement, et. at sump extension	S			
3	LSF Tank 2	Free of tears, penetrations, or thin spots in transition of liner in the access and vent riser extensions	S			
4	LSF Tank 2 (2)	Free of liner fatigue, accumulated liquids, settlement, et. at sump extension	S			
5	LSF Tank 3	Free of tears, penetrations, or thin spots in transition of liner in the access and vent riser extensions	S			
6	LSF Tank 3 (2)	Free of liner fatigue, accumulated liquids, settlement, et. at sump extension	S			
7	LSF Tank 4	Free of tears, penetrations, or thin spots in transition of liner in the access and vent riser extensions	S			
8	LSF Tank 4 (2)	Free of liner fatigue, accumulated liquids, settlement, et. at sump extension	S			
9	Rectifier Box for the Cathodic Protection System	Record the Direct Current Reading <u>6.5</u>	S			
10	Rectifier Box for the Cathodic Protection System	Record the Amps Output Reading <u>1.9</u>	S			

Notes: 1) Opening of LSF Tank 1 access vent riser shall be in accordance with the Commonwealth Procedures. 2) If settlement, see Appendix C-4 for the repair procedure detailed documentation.

## MONTHLY INSPECTION

Date/Time: 11/25/03 0900-0950 Weather Conditions: Fair 30°

Inspector(s): R. Brown Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2. "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/ Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

Free of debris

### 4.1 Principal Spillway

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Ultrasonic Flow Recorder	Calibrated reading measurement compares with staff gauge measurement	S			
2	Riprap	Free of debris	S			
3	Riprap	Free of riprap washout compromising side-slopes	S			
4	Riprap	If exposed, geotextile fabric free of damages	S			
5	Riprap	Free of silt/sediment accumulation >3 inches	S			

### 4.2 Emergency Spillway

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Gabion Basket System 1	Free of debris	S			
2	Gabion Basket System 1	Free of riprap washout compromising integrity of basket system	S			

Note: 1) To maintain integrity, a spray rust preventative product may be used on an as needed basis note in the Required Action.

### 4.3 Embankment

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Embankment	Slide-slopes free of debris	S			
2	Embankment	Slide-slopes free of erosion gullies	S			
3	Embankment	Free of eroded areas	S			

## MONTHLY INSPECTION

Date/Time: 11/25/03 1030-1400 Weather Conditions: Fair 30°

Inspector(s): R. Brown Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2. "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/ Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

### 4.4 Basin Area

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riprap	Free of debris	S			
2	Riprap	Free of riprap washout compromising side-slopes	S			
3	Riprap	If exposed, geotextile fabric free of damages	S			
4	Riprap	Free of silt / sediment accumulation >3 inches	S			
5	Gabion Basket System 1	Free of debris	S			
6	Gabion Basket System 1	Free of riprap washout compromising basket system	S			

Note: 1) To maintain integrity, a spray rust preventative product may be used on an as needed basis note in the Required Action.

### 5.2 South Drain Inlet Area

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riprap	Free of debris	S			
2	Riprap	No riprap washout compromising side-slopes	S			
3	Gabion Basket System 1	Free of debris	S			
4	Gabion Basket System 1	Free of riprap washout compromising basket system	S			

Note: 1) To maintain integrity, a spray rust preventative product may be used on an as needed basis note in the Required Action.

### 6.1 SE Cap Geomembrane Liner

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Geomembrane Liner	Free of exposed liner in turf	S			
2	Geomembrane Liner	If liner is exposed, free of penetrations/tears/thin spots	S			

### 6.2 SE Cap Turf

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Turf	Free of eroded areas	S			
2	Turf	Free of erosion gullies	S			
3	Turf	Free of signs of borrowing animals	S			

## MONTHLY INSPECTION

Date/Time: 11/26/03 0900-1200 Weather Conditions: Fair 30°

Inspector(s): R. Brown / J. Stewart Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2, "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/ Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

### 6.3 SE Cap Riprap Outlet

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riprap Outlet	Free of riprap washout compromising side-slopes	S			
2	Riprap	If exposed, geocomposite drainage net free of damages	S			
3	Riprap Outlet	Free of debris	S			

### 7.5 Samplers

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	IRP Cap Tie-in	Transition of the IRP Cap with Southeast Cap Intact /Free of liner pull out	S			

### 7.1 MFDS Roadways

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Site Access Roadway	Free of ruts and pot holes	S			
2	Site Access Roadway	No aggregate wash-out	S			
3	North Perimeter Roadway	Free of ruts and pot holes	S			
4	North Perimeter Roadway	No aggregate wash-out	S			
5	East Perimeter Roadway	Free of ruts and pot holes	S			
6	East Perimeter Roadway	No aggregate wash-out	S			
7	South Perimeter Roadway	Free of ruts and pot holes	S			
8	South Perimeter Roadway	No aggregate wash-out	S			
9	West Perimeter Roadway	Free of ruts and pot holes	S			
10	West Perimeter Roadway	No aggregate wash-out	S			

### 7.2 MFDS Security

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	North Perimeter Fence Site Access	Oil hinges	S			
2	IRP Cap Perimeter Fence (1)	Oil hinges	S			

## MONTHLY INSPECTION

Date/Time: 11/25/03 0900-1400 Weather Conditions: Fair 30°

Inspector(s): R. Brown Type of Inspection (Circle One) General Inspection or Following Sever Weather

1. See Appendix A-2. "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/ Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following sever weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Sever Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a sever weather event will count as an inspection for the specified period.

### 7.5 Samplers

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Samplers (1)	Portable samplers free of damages	S			
2	Samplers (1)	Locations according to Figures 7-1 and 7-2	S			

Note: 1) Indicate sampler identification in Required Action

### 7.7 Liquids

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall Sumps (1)	Free of accumulated liquids	S			
2	SUdsided Areas (If Any) 2	Free of accumulated liquids	S			
3	Around MFDS (3)	Free of accumulated liquids	S			

Note: 1) Indicate headwall sump, identification in Required Action. 2) Indicate liner panel location or area of IRP Cap in Required Action. 3) Indicate location in Required Action.

### 7.9 Miscellaneous Turf Area

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Borrow Pit - Turf (1)	Free of eroded areas	S			
2	Borrow Pit - Turf (1)	Free of erosion gullies	S			
3	Borrow Pit - Turf (1)	Free of debris along side-slopes	S			
4	Stockpile Pit - Turf (1)	Free of eroded areas	S			
5	Stockpile Pit - Turf (1)	Free of erosion gullies	S			
6	Stockpile Pit - Turf (1)	Free of debris along side-slopes	S			
7	Areas around the IRP Cap - Turf (1)	Free of eroded areas	S			
8	Areas around the IRP Cap - Turf (1)	Free of erosion gullies	S			
9	Areas around the IRP Cap - Turf (1)	Free of debris along side-slopes	S			

Note: 1) Indicate designated area (Figure 7-4) in Required Action



# MONTHLY INSPECTION

Date/Time: 12/16/03 @ 900-1100

Weather Conditions: Cloudy Windy 45°

Inspector(s): J. Stumper & T. Stewart

Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2. "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

## 3.1 Geomembrane Liner

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	IRP Cap1	Free of tears, penetrations, or thin spots in 45-mil reinforced polypropylene (liner).	S			
2	IRP Cap1	Sealed factory seams via visual site walk.	S			
3	IRP Cap1	Free of soft spots or wet areas	S			
4	Geomembrane Liner Boots 2 (83)	Free of tears, penetrations, or thin spots in transition of liner to liner boots	S			
5	Geomembrane Liner Boots 2 (83)	Free of liner fatigue, accumulated liquids, settlement, etc. at the sump extension	S			
6	Sump Extension2 (83)	Free of tears, penetrations, or thin spots in transition of liner to liner boots	S			
7	Sump Extension2 (83)	Integrity of sump lid	S			
8	Sump Extension2 (83)	Integrity of geomembrane liner boots	S			
9	Data Logger2	Integrity of data logger system in extended sump	S			

Note: 1) For repairs, see Appendix C-1 for the 45-mil reinforced polypropylene repair procedure. 2) Indicate sump extension identification in Required Action. See Appendix C-2 for sump lid and data logger removable/re-installation procedure calibrate the data logger (if required) in accordance with Appendix E-3. 3) If settlement, see Appendix C-4 for the repair procedure detailed documentation.

## 3.3 Subsidence

Number	OM Item	Inspection Item	Approximate Water Depth (inches)	Approximate Area (SF)	Required Action	Action Completed Date/Initial
1	Subsidence Monitoring	Document any subsidence area / panel # <u>85</u>	<u>2.0</u>	<u>36' X 52'</u>	<u>EAST END OF V.C. NO TR 30'S</u>	
2	Subsidence Monitoring	Document any subsidence area / panel # <u>31</u>	<u>1.25"</u>	<u>60' X 40'</u>	<u>S of TR 37 (None)</u>	
3	Subsidence Monitoring	Document any subsidence area / panel # _____				
4	Subsidence Monitoring	Document any subsidence area / panel # _____				
5	Subsidence Monitoring	Document any subsidence area / panel # _____				
6	Subsidence Monitoring	Document any subsidence area / panel # _____				
7	Subsidence Monitoring	Document any subsidence area / panel # _____				
8	Subsidence Monitoring	Document any subsidence area / panel # _____				
9	Subsidence Monitoring	Document any subsidence area / panel # _____				
10	Subsidence Monitoring	Document any subsidence area / panel # _____				

Note: 1) See Appendix C-4 for repair procedure and detailed documentation.

# MONTHLY INSPECTION

Date/Time: 12/15/03 0900-1100

Weather Conditions: P/Cloudy 38°

Inspector(s): J. Stanger, T. Stewart

Type of Inspection (Circle One): General Inspection or Following Sever Weather

1. See Appendix A-2, "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Once-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following sever weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Sever Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a sever weather event will count as an inspection for the specified period.

## 3.4 Anchorage Trenches

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Interior Anchor Trenches	Free of pull out liner	S			
2	Interior Anchor Trenches	Free of tears, penetrations, or thin spots in liner	S			
3	Interior Anchor Trenches	Geotextile fabric free of damages, if exposed	S			
4	Interior Anchor Trenches	Free of soft spots or wet areas	S			
5	North Perimeter Anchor Trench	Free of pull out liner	S			
6	North Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner	S			
7	North Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed	S			
8	North Perimeter Anchor Trench	Free of soft spots or wet areas	S			
9	East Perimeter Anchor Trench	Free of pull out liner	S			
10	East Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner	S			
11	East Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed	S			
12	East Perimeter Anchor Trench	Free of soft spots or wet areas	S			
13	South Perimeter Anchor Trench	Free of pull out liner	S			
14	South Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner	S			
15	South Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed	S			
16	South Perimeter Anchor Trench	Free of soft spots or wet areas	S			
17	West Perimeter Anchor Trench	Free of pull out liner	S			
18	West Perimeter Anchor Trench	Free of tears, punctures, or thin spots in liner	S			
19	West Perimeter Anchor Trench	Geotextile fabric free of damages, if exposed	S			
20	West Perimeter Anchor Trench	Free of soft spots or wet areas	S			

Note: 1. Indicate which interior anchor trench in the Required Action.

## MONTHLY INSPECTION

Date/Time: 12/16/03 0900-1100

Weather Conditions: Cloudy Windy 45°

Inspector(s): J. Stamper T. Stewart

Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2. "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/ Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

### 3.6 Northeast Corner Piping

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Manhole # 1	Manhole lid secure attached and flush with ground surface	S			
2	Manhole # 2	Manhole lid secure attached and flush with ground surface	S			
3	Upstream Headwall	Headwall invert/culvert (trash grate/restricting plate) free of debris	S			
4	Upstream Headwall	Headwall invert/culvert free of debris	S			

### 3.7 Former Leachate Storage Facility Area

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	LSF Tank 1 (1)	Free of tears, penetrations, or thin spots in transition of liner in the access and vent riser extensions	S			
2	LSF Tank 1 (2)	Free of liner fatigue, accumulated liquids, settlement, et. at sump extension	S			
3	LSF Tank 2	Free of tears, penetrations, or thin spots in transition of liner in the access and vent riser extensions	S			
4	LSF Tank 2 (2)	Free of liner fatigue, accumulated liquids, settlement, et. at sump extension	S			
5	LSF Tank 3	Free of tears, penetrations, or thin spots in transition of liner in the access and vent riser extensions	S			
6	LSF Tank 3 (2)	Free of liner fatigue, accumulated liquids, settlement, et. at sump extension	S			
7	LSF Tank 4	Free of tears, penetrations, or thin spots in transition of liner in the access and vent riser extensions	S			
8	LSF Tank 4 (2)	Free of liner fatigue, accumulated liquids, settlement, et. at sump extension	S			
9	Rectifier Box for the Cathodic Protection System	Record the Direct Current Reading <u>2.0</u>	S			
10	Rectifier Box for the Cathodic Protection System	Record the Amps Output Reading <u>1.85</u>	S			

Notes: 1) Opening of LSF Tank 1 access vent riser shall be in accordance with the Commonwealth Procedures. 2) If settlement, see Appendix C-4 for the repair procedure detailed documentation.

# MONTHLY INSPECTION

Date/Time: 12/15/03 0900-1100

Weather Conditions: Partly 380

Inspector(s): J. Stampel, T. Stewart

Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2, "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Once-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

## 3.5 Articulating Concrete Blocks (AB) System

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	North Perimeter Channel	Free of broken concrete blocks	S			
2	North Perimeter Channel	Liner free of tears, penetrations, or thin spots	S			
3	North Perimeter Channel	Free of vegetative growth impeding channel flow	S			
4	North Perimeter Channel	Cementitious fill material free of spalling or void spaces allowing water to pool or erosion of adjacent fill material	S			
5	North Perimeter Channel	Steel clamps connecting the AB mats (3 clamps on the long side 1 clamp on the short side)	S			
6	East Perimeter Channel	Free of broken concrete blocks	S			
7	East Perimeter Channel	Liner free of tears, penetrations, or thin spots	S			
8	East Perimeter Channel	Free of vegetative growth which decreases channel capacity	S			
9	East Perimeter Channel	Steel clamps connecting the AB mats (3 clamps on the long side 1 clamp on the short side)	S			
10	SE Perimeter Channel	Free of broken concrete blocks	S			
11	SE Perimeter Channel	Liner free of tears, penetrations, or thin spots	S			
12	SE Perimeter Channel	Free of vegetative growth which decreases channel capacity	S			
13	SE Perimeter Channel	Cementitious fill material free at dead-man is free of spalling or void spaces allowing water to pool or erosion of adjacent fill material	S			
14	SE Perimeter Channel	Cementitious fill material in the corner is free of spalling or void spaces allowing water to pool or erosion of adjacent fill material	S			
15	SE Perimeter Channel	Steel clamps connecting the AB mats (3 clamps on the long side 1 clamp on the short side)	S			
16	Interior Y-Channel	Free of broken concrete blocks	S			
17	Interior Y-Channel	Liner free of tears, penetrations, or thin spots	S			
18	Interior Y-Channel	Free of vegetative growth impeding channel flow	S			
19	Interior Y-Channel	Cementitious fill material free of spalling or void spaces allowing water to pool or erosion of adjacent fill material	S			
20	Interior Y-Channel	Steel clamps connecting the AB mats (3 clamps on the long side 1 clamp on the short side)	S			

## MONTHLY INSPECTION

Date/Time: 12/22/03 1230-1530 Weather Conditions: Cloudy 40°

Inspector(s): R. Brown / T. Stewart Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2, "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/ Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

Free of debris

### 4.1 Principal Spillway

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Ultrasonic Flow Recorder	Calibrated reading measurement compares with staff gauge measurement	S			
2	Riprap	Free of debris	S			
3	Riprap	Free of riprap washout compromising side-slopes	S			
4	Riprap	If exposed, geotextile fabric free of damages	S			
5	Riprap	Free of silt/sediment accumulation >3 inches	S			

### 4.2 Emergency Spillway

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Gabion Basket System 1	Free of debris	S			
2	Gabion Basket System 1	Free of riprap washout compromising integrity of basket system	S			

Note: 1) To maintain integrity, a spray rust preventative product may be used on an as needed basis note in the Required Action.

### 4.3 Embankment

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Embankment	Slide-slopes free of debris	S			
2	Embankment	Slide-slopes free of erosion gullies	S			
3	Embankment	Free of eroded areas	S			

## MONTHLY INSPECTION

Date/Time: 12/22/03 1230 - 1530 Weather Conditions: Cloudy 40°  
 Inspector(s): R. Brown / T. Stewart Type of Inspection (Circle One) General Inspection or Following Severe Weather

1. See Appendix A-2. "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

### 4.4 Basin Area

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riprap	Free of debris	S			
2	Riprap	Free of riprap washout compromising side-slopes	S			
3	Riprap	If exposed, geotextile fabric free of damages	S			
4	Riprap	Free of silt / sediment accumulation >3 inches	S			
5	Gabion Basket System 1	Free of debris	S			
6	Gabion Basket System 1	Free of riprap washout compromising basket system	S			

Note: 1) To maintain integrity, a spray rust preventative product may be used on an as needed basis note in the Required Action.

### 5.2 South Drain Inlet Area

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riprap	Free of debris	S			
2	Riprap	No riprap washout compromising side-slopes	S			
3	Gabion Basket System 1	Free of debris	S			
4	Gabion Basket System 1	Free of riprap washout compromising basket system	S			

Note: 1) To maintain integrity, a spray rust preventative product may be used on an as needed basis note in the Required Action.

### 6.1 SE Cap Geomembrane Liner

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Geomembrane Liner	Free of exposed liner in turf	S			
2	Geomembrane Liner	If liner is exposed, free of penetrations/tears/thin spots	S			

### 6.2 SE Cap Turf

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Turf	Free of eroded areas	S			
2	Turf	Free of erosion gullies	S			
3	Turf	Free of signs of borrowing animals	S			

## MONTHLY INSPECTION

Date/Time: 12/22/03 1230 - 1530

Weather Conditions: Cloudy

Inspector(s): R. Brown / T. Stewart

Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2, "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/ Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

### 6.3 SE Cap Riprap Outlet

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Riprap Outlet	Free of riprap washout compromising side-slopes	S			
2	Riprap	If exposed, geocomposite drainage net free of damages	S			
3	Riprap Outlet	Free of debris	S			

### 6.4 SE Cap Tie-In

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	IRP Cap Tie-in	Transition of the IRP Cap with Southeast Cap Intact /Free of liner pull out	S			

### 7.1 MFDS Roadways

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Site Access Roadway	Free of ruts and pot holes	S			
2	Site Access Roadway	No aggregate wash-out				
3	North Perimeter Roadway	Free of ruts and pot holes				
4	North Perimeter Roadway	No aggregate wash-out				
5	East Perimeter Roadway	Free of ruts and pot holes				
6	East Perimeter Roadway	No aggregate wash-out				
7	South Perimeter Roadway	Free of ruts and pot holes				
8	South Perimeter Roadway	No aggregate wash-out				
9	West Perimeter Roadway	Free of ruts and pot holes				
10	West Perimeter Roadway	No aggregate wash-out				

### 7.2 MFDS Security

Number	OM Item	Inspection Item	Product Name	Action Completed Date/Initial
1	North Perimeter Fence Site Access	Oil hinges		
2	IRP Cap Perimeter Fence (1)	Oil hinges		

*10 W30 Oil / Withem green*  
*10 W30 out / Withem green*

## MONTHLY INSPECTION

Date/Time: 12/22/03 1230-1530 Weather Conditions: Cloudy 40°  
 Inspector(s): R. Brown / A.T. Stewart Type of Inspection (Circle One) General Inspection or Following Severe Weather

1. See Appendix A-2, "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

### 7.5 Samplers

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Samplers (1)	Portable samplers free of damages	S			
2	Samplers (1)	Locations according to Figures 7-1 and 7-2	S			

Note: 1) Indicate sampler identification in Required Action

### 7.7 Liquids

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Headwall Sumps (1)	Free of accumulated liquids	S			
2	SUdsided Areas (If Any) 2	Free of accumulated liquids	S			
3	Around MFDS (3)	Free of accumulated liquids	S			

Note: 1) Indicate headwall sump, identification in Required Action. 2) Indicate liner panel location or area of IRP Cap in Required Action. 3) Indicate location in Required Action.

### 7.9 Miscellaneous Turf Area

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Borrow Pit - Turf (1)	Free of eroded areas	S			
2	Borrow Pit - Turf (1)	Free of erosion gullies	S			
3	Borrow Pit - Turf (1)	Free of debris along side-slopes	S			
4	Stockpile Pit - Turf (1)	Free of eroded areas	S			
5	Stockpile Pit - Turf (1)	Free of erosion gullies	S			
6	Stockpile Pit - Turf (1)	Free of debris along side-slopes	S			
	Areas around the IRP Cap - Turf (1)	Free of eroded areas	S			
	Areas around the IRP Cap - Turf (1)	Free of erosion gullies	S			
	Areas around the IRP Cap - Turf (1)	Free of debris along side-slopes	S			

Note: 1) Indicate designated area (Figure 7-4) in Required Action



## QUARTERLY INSPECTIONS

Date/Time of Inspection: 3/21/03 1230-1400 Weather Condition Cloudy 47°  
 Inspection By: R. Brown / D. Pollett

See Appendix A-2. "Inspection Frequency Matrix", for type of inspection and frequency.

### 7.3 Alluvial Wells

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Alluvial Wells (14)	Secure attachment of pad locks and steel caps	S			

NOTE: 1. Indicate alluvial well identification in Required Action

### 7.4 Monitoring Wells

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Monitoring Wells 1 (16)	Secure attachment of pad locks and steel caps	S			

NOTE: 1. Indicates monitoring well identification in Required Action.

### 7.8 Survey Tower

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Survey Tower	Decking and posts free of termite infestation	S			
2	Survey Tower	No loose boards	S			
3	Survey Tower	Ladder is securely attached to the tower	S			

## QUARTERLY INSPECTIONS

Date/Time of Inspection: 6-10-03 08:30 Weather Condition SUNNY 65°  
 Inspection By: D. Pellitt / R. Brown

See Appendix A-2. "Inspection Frequency Matrix", for type of inspection and frequency.

### 7.3 Alluvial Wells

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Alluvial Wells (14)	Secure attachment of pad locks and steel caps	S			

NOTE: 1. Indicate alluvial well identification in Required Action

### 7.4 Monitoring Wells

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Monitoring Wells 1 (16)	Secure attachment of pad locks and steel caps	S			

NOTE: 1. Indicates monitoring well identification in Required Action.

### 7.8 Survey Tower

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Survey Tower	Decking and posts free of termite infestation	S			
2	Survey Tower	No loose boards	S			
3	Survey Tower	Ladder is securely attached to the tower	S			

## QUARTERLY INSPECTIONS

Date/Time of Inspection: 10/1/03 0900 Weather Condition PCloody 50°  
 Inspection By: J. Stampel

See Appendix A-2. "Inspection Frequency Matrix", for type of inspection and frequency.

### 7.3 Alluvial Wells

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Alluvial Wells (14)	Secure attachment of pad locaks and steel caps	S			

NOTE: 1. Indicate alluvial well identification in Required Action

### 7.4 Monitoring Wells

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Monitoring Wells 1 (16)	Secure attachment of pad locks and steel caps	S			

NOTE: 1. Indicates monitoring well identification in Required Action.

### 7.8 Survey Tower

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Survey Tower	Decking and posts free of termite infestation	S			
2	Survey Tower	No loose boards	S			
3	Survey Tower	Ladder is securely attached to the tower	S			

Third Quarter Inspection was a day late.  
ed

## QUARTERLY INSPECTIONS

Date/Time of Inspection: 11/25-11/26/03 10:00  
 Inspection By: J. Blum

Weather Condition: P/Cloudy / M/Cloudy  
 Type of Inspection (Circle one): General Inspection or Following Severe Weather

1. See Appendix A-2, "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Once-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

### 3.1 Geomembrane Liner

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Data Logger 1 and 2	Secure attachment to sump extension	S			
2	Data Logger 1 and 2	Operates properly	S			

NOTE: 1. Indicate sump extension identification in Required Action if a repair is necessary. See Appendix C-2 for sump lid and data logger removal/re-installation procedure.  
 2. Calibrate the data logger (if required) in accordance with Appendix E-3.

### 7.3 Alluvial Wells

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Alluvial Wells (14)	Secure attachment of pad locks and steel caps	S			

NOTE: 1. Indicate alluvial well identification in Required Action

### 7.4 Monitoring Wells

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Monitoring Wells 1 (16)	Secure attachment of pad locks and steel caps	S			

NOTE: 1. Indicates monitoring well identification in Required Action.

### 7.8 Survey Tower

Number	OM Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Survey Tower	Decking and posts free of termite infestation	S			
2	Survey Tower	No loose boards	S			
3	Survey Tower	Ladder securely attached to the tower	S			

## SEMI-ANNUAL INSPECTION

Date/Time of Inspection: 6/10/03 0900-1500 Weather Condition Sunny 65°  
 Inspection By: R. Brown / D. Pollitt *RB*

### 3.2.2 Headwall Battens

Number	Operation and Maintenance Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed
1	Headwall "A" Batten Bar in NW Corner	Batten bar strip securely attached to headwall	S			
2	Headwall "A" Batten Bar in NW Corner	Free of pulled out liner segments	S			
3	Headwall "B" Batten Bar in NW Corner	Batten bar strip securely attached to headwall	S			
4	Headwall "B" Batten Bar in NW Corner	Free of pulled out liner segments	S			
5	Upstream Headwall Batten Bar in NE Corner	Batten bar strip securely attached to headwall	S			
6	Upstream Headwall Batten Bar in NE Corner	Free of pulled out liner segments	S			
7	Downstream Headwall Batten Bar in NE Corner	Batten bar strip securely attached to headwall	S			
8	Downstream Headwall Batten Bar in NE Corner	Free of pulled out liner segments	S			

### 3.5 Articulating Concrete Block (AB) System

Number	Operation and Maintenance Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed
1	North Perimeter Channel AB Mat	Integrity of ballast material	S			
2	North Perimeter Channel AB Mat	Integrity of steel clamps	S			
3	East Perimeter Channel AB Mat	Integrity of ballast material at dead-man structure	S			
4	East Perimeter Channel AB Mat	Integrity of steel clamps	S			
5	SE Perimeter Channel AB Mat	Integrity of ballast material at dead-man structure	S			
6	SE Perimeter Channel AB Mat	Integrity of steel clamps	S			
7	Interior "Y" Channel AB Mat	Integrity of ballast material at dead-man structure	S			
8	Interior "Y" Channel AB Mat	Integrity of steel clamps	S			

### 3.6 Emergency Spillway and Northeast Corner Piping

Number	Operation and Maintenance Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed
1	Emergency Spillway along NE Corner of MFDS	Vegetation free of eroded areas	S			

## SEMI-ANNUAL INSPECTION

Date/Time of Inspection: 6/11/03 1030-1530 Weather Condition Cloudy 74'  
 Inspection By: R. Brown / D. Pollitt

### 5.1 East Main Drainage Channel

Number	Operation and Maintenance Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed
1	East Main Drainage Channel	Free of fallen timber	S			
2	East Main Drainage Channel	Free of brush and debris	S			

### 6.2 SE Cap Turf

Number	Operation and Maintenance Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed
1	Liner	Geomembrane liner not exposed and free of damag	S			
2	Turf	Free of surface erosive conditions	S			

### 7.1 MFDS Roadways

Number	Operation and Maintenance Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed
1	Site Access Roadway	Road surface maintained	S			
2	Site Access Roadway	Verify grades along side-slopes via topographic survey	S			
3	North Perimeter Roadway	Road surface maintained	S			
4	North Perimeter Roadway	Verify grades along side-slopes via topographic survey	S			
5	East Perimeter Roadway	Road surface maintained	S			
6	East Perimeter Roadway	Verify grades along side-slopes via topographic survey	S			
7	South Perimeter Roadway	Road surface maintained	S			
8	South Perimeter Roadway	Via topographic survey - grades along side-slopes meet as-built drawings	S			
9	West Perimeter Roadway	Road surface maintained	S			
10	West Perimeter Roadway	Verify grades along side-slopes via topographic survey	S			

## SEMI-ANNUAL INSPECTIONS

Date/Time of Inspection: 6/11/03 1030 - 1530 Weather Condition: Cloudy 74°  
 Inspection By: R. Brown / D. Pollitt

### 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	North Perimeter Fence at Site Access	Note any signs of rust	S			
2	North Perimeter Fence at Site Access	Steel posts intact and anchored into concrete footers	S			
3	North Perimeter Fence at Site Access	Concrete footers intact	S			
4	North Perimeter Fence at Site Access	"Restricted Access Area" signs properly posted	S			
5	IRP CapPerimeter Fence	Note any signs of rust	S			
6	IRP CapPerimeter Fence	Steel posts intact and anchored into concrete footers	S			
7	IRP CapPerimeter Fence	Concrete footers intact	S			
8	IRP CapPerimeter Fence	"Restricted Access Area" signs properly posted	S			

### 7.3 Alluvial Wells

Number	Operation and Maintenance Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Alluvial Wells 1 (14)	Steel casings free of surface damages	S			
2	Alluvial Wells 1 (14)	Concrete pads free of surface damages	S			
3	Alluvial Wells 1 (14)	Free of silt and debris	S			
4	Alluvial Wells 1 (14)	Measure total casing depth of each well			See USGS quarterly notes	

Note: 1. Indicate alluvial well identification in Required Action.

### 7.4 Monitoring Wells

Number	Operation and Maintenance Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Monitoring Wells 1 (16)	Steel casings free of surface damages	S			
2	Monitoring Wells 1 (16)	Concrete pads free of surface damages	S			
3	Monitoring Wells 1 (16)	Free of silt and debris	S			
4	Monitoring Wells 1 (16)	Measure total casing depth of each well			See USGS quarterly notes	

Note: 1. Indicate monitoring well identification in Required Action.

## SEMI-ANNUAL INSPECTIONS

Date/Time of Inspection: 6/13-16/03 1300 - 1530 Weather Condition: Cloudy 76°  
 Inspection By: R. Brown / D. Pollett

Note: 1. Indicate monitoring well identification in Required Action.

### 7.6 Erosion Monitoring

Number	Operation and Maintenance Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	East Main Drainage Channel	Free of surface erosion signs	S			
2	East Main Drainage Channel	Monuments structurally sound	S			
3	East Main Drainage Channel	Brass disc grouted	S			
4	East Main Drainage Channel	Coordinates clearly marked on survey monuments	S			
5	South Drainage Channel	Free of surface erosion signs	S			
6	West Drainage Channel	Free of surface erosion signs	S			
7	East Adjacent Hill Slopes	Free of surface erosion signs	S			
8	South Adjacent Hill Slopes	Free of surface erosion signs	S			
9	West Adjacent Hill Slopes	Free of surface erosion signs	S			

See Appendix A-2 "Inspection Frequency Matrix" for type of inspect



## SEMI-ANNUAL INSPECTION

Date/Time of Inspection: 12/22/03 0900-1000  
 Inspection By: R. Brown / T. Stewart

Weather Condition Cloudy 42°  
 Type of Inspection (Circle One) General Inspection or Following Severe Weather

1. See Appendix A-2, "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

### 3.2.2 Headwall Battens

Number	Operation and Maintenance Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed
1	Headwall "A" Batten Bar in NW Corner	Batten bar strip securely attached to headwall	S			
2	Headwall "A" Batten Bar in NW Corner	Free of pulled out liner segments or seepage points	S			
3	Headwall "B" Batten Bar in NW Corner	Batten bar strip securely attached to headwall	S			
4	Headwall "B" Batten Bar in NW Corner	Free of pulled out liner segments or seepage points	S			
5	Upstream Headwall Batten Bar of NE Corner Piping System	Batten bar strip securely attached to headwall	S			
6	Upstream Headwall Batten Bar of NE Corner Piping System	Free of pulled out liner segments or seepage points	S			
7	Downstream Headwall Batten Bar of NE Corner Piping System	Batten bar strip securely attached to headwall	S			
8	Downstream Headwall Batten Bar of NE Corner Piping System	Free of pulled out liner segments or seepage points	S			

### 3.5 Articulating Concrete Block (AB) System

Number	Operation and Maintenance Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed
1	North Channel	Anchorage at Headwall B intact, preventing lateral movement	S			
2	East Channel	Anchorage at headwall intact, preventing lateral movement	S			
3	SE Channel	Liner beneath encased stainless steel cable free of tears/penetrations/thin spots	S			
4	SE Channel	Plastic tubing encasing the stainless steel cables free of penetrations, cracking worn areas	S			
5	UPstream SE Perimeter Channel Dead-man	Liner gasket material are securely attached to the dea-man structure at the batten bar (no seepage points)	S			

## SEMI-ANNUAL INSPECTION

Date/Time of Inspection: 12/22/03 1000-1530

Weather Condition Cloudy 43°

Inspection By: R. Brown / T. Stewart

Type of Inspection (Circle One): General Inspection or Following Sever Weather

1. See Appendix A-2. "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Once-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following sever weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Sever Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a sever weather event will count as an inspection for the specified period.

### 4.4.3 Y-Channel Outfall

Number	Operation and Maintenance Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed
1	Batten at inlet of the Outfall Structure	Geomembrane liner not exposed and free of damage	S			
2	Batten at inlet of the Outfall Structure	Free of pulled out liner segments or seepage points	S			

### 5.1 East Main Drainage Channel

Number	Operation and Maintenance Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed
1	East Main Drainage Channel	Free of fallen timber	S			
2	East Main Drainage Channel	Free of brush and debris	S			
2	East Main Drainage Channel	Maintained sideslopes	S			

### 7.1 MFDS Roadways

Number	Operation and Maintenance Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed
1	Site Access Roadway	Road surface maintained	S			
2	Site Access Roadway	Verify side-slopes are maintained	S			
3	North Perimeter Roadway	Road surface maintained	S			
4	North Perimeter Roadway	Verify side-slopes are maintained	S			
5	East Perimeter Roadway	Road surface maintained	S			
6	East Perimeter Roadway	Verify side-slopes are maintained	S			
7	South Perimeter Roadway	Road surface maintained	S			
8	South Perimeter Roadway	Verify side-slopes are maintained	S			
9	West Perimeter Roadway	Road surface maintained	S			
10	West Perimeter Roadway	Verify side-slopes are maintained	S			

## SEMI-ANNUAL INSPECTIONS

Date/Time of Inspection: 12/22/03 1230-1530 Weather Condition: Cloudy 40°  
 Inspection By: R. Brown / T. Stewart Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2, "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/ Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

### 7.2 MFDS Security

Number	Operation and Maintenance Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	North Perimeter Fence at Site Access	Note any signs of rust	S			
2	North Perimeter Fence at Site Access	Steel posts intact and anchored into concrete footers	S			
3	North Perimeter Fence at Site Access	Concrete footers intact	S			
4	North Perimeter Fence at Site Access	"Restricted Access Area" signs properly posted	S			
5	IRP CapPerimeter Fence	Note any signs of rust	S			
6	IRP CapPerimeter Fence	Steel posts intact and anchored into concrete footers	S			
7	IRP CapPerimeter Fence	Concrete footers intact	S			
8	IRP CapPerimeter Fence	"Restricted Access Area" signs properly posted	S			
9	EDB Emergency Spillway Traffic Control Gates	Note any signs of pealed paint or rust	S			
10	EDB Emergency Spillway Traffic Control Gates	Note any signs of pealed paint or rust	S			
11	EDB Emergency Spillway Traffic Control Gates	Note any signs of pealed paint or rust	S			

### 7.3 Alluvial Wells

Number	Operation and Maintenance Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Alluvial Wells 1 (14)	Operable locks and caps on steel casings	S			
2	Alluvial Wells 1 (14)	Steel casings free of surface damages	S			
3	Alluvial Wells 1 (14)	Concrete pads free of surface damages	S			
4	Alluvial Wells 1 (14)	Free of silt and debris (verify wit h# 5)	S			
4	Alluvial Wells 1 (14)	Measure total casing depth of each well	S			
4	Alluvial Wells 1 (14)	Bollards intact (structurally sounds protects the alluvial well from damage)	S			

Note: 1. Indicate alluvial well identification in Required Action.

## SEMI-ANNUAL INSPECTIONS

Date/Time of Inspection: 12/22/03 1230-1530 Weather Condition: Cloudy 40°  
 Inspection By: R. Brown / T. Stewart Type of Inspection (Circle One): General Inspection or Following Severe Weather

1. See Appendix A-2, "Inspection Frequency Matrix", for type of inspection and frequency (Daily/Weekly/Twice-A-Month/Monthly/Quarterly/Semi-Annual/Annual) and following severe weather.
2. See Appendix A-1 OM Requirements Matrix for reporting/documentation requirements and maintenance activities and Appendix A-3, "Repair Response Matrix", for response time.
3. Severe Weather conditions include, but not limited to, the following: blizzards, ice storms, tornadoes, wind measuring 50 knots (58 miles per hour) or greater, approximately 3/4 diameter hail or larger, frequent lightning, and 1.25 inches or greater rainfall in a 24-hour period or a high intensity shorter duration storm event with an intensity of 1 inch per hour.
4. An OM inspection performed following a severe weather event will count as an inspection for the specified period.

### 7.4 Monitoring Wells

Number	Operation and Maintenance Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	Monitoring Wells 1 (16)	Operable locks and caps on steel casings	S			
2	Monitoring Wells 1 (16)	Steel casings free of surface damages	S			
3	Monitoring Wells 1 (16)	Concrete pads free of surface damages	S			
4	Monitoring Wells 1 (16)	Free of silt and debris (verify with # 5)	S			
5	Monitoring Wells 1 (16)	Measure total casing depth of each well	S			

Note: 1. Indicate monitoring well identification in Required Action.

### 7.6 Erosion Monitoring

Number	Operation and Maintenance Item	Inspection Item	Satisfactory	Unsatisfactory	Required Action	Action Completed Date/Initial
1	East Main Drainage Channel	Free of surface erosion signs	S			
2	East Main Drainage Channel	Monuments structurally sound	S			
3	East Main Drainage Channel	Brass disc grouted	S			
4	East Main Drainage Channel	Coordinates clearly marked on survey monuments	S			
5	South Drainage Channel	Free of surface erosion signs	S			
6	West Drainage Channel	Free of surface erosion signs	S			
7	East Adjacent Hill Slopes	Free of surface erosion signs	S			
8	South Adjacent Hill Slopes	Free of surface erosion signs	S			
9	West Adjacent Hill Slopes	Free of surface erosion signs	S			

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**APPENDIX H**

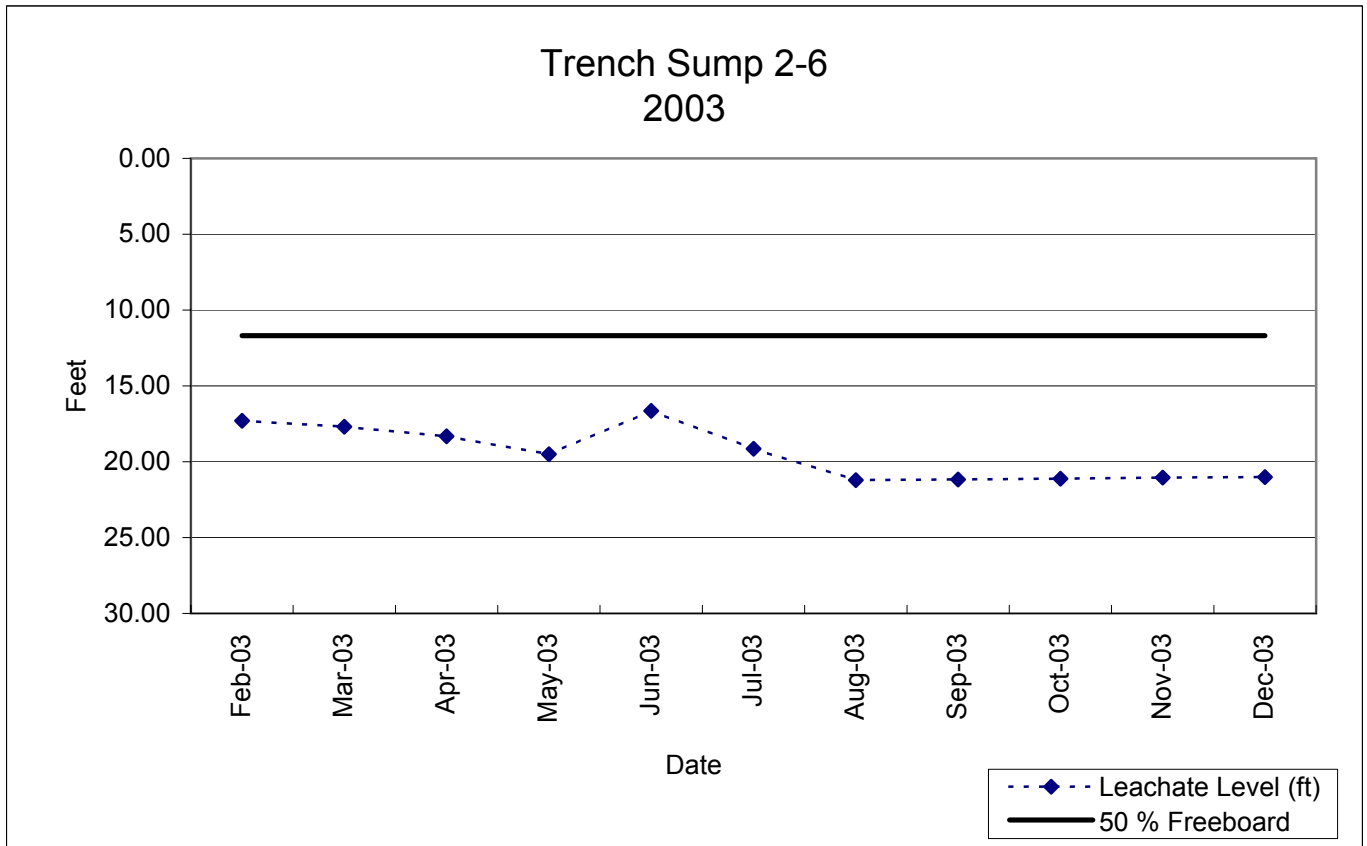
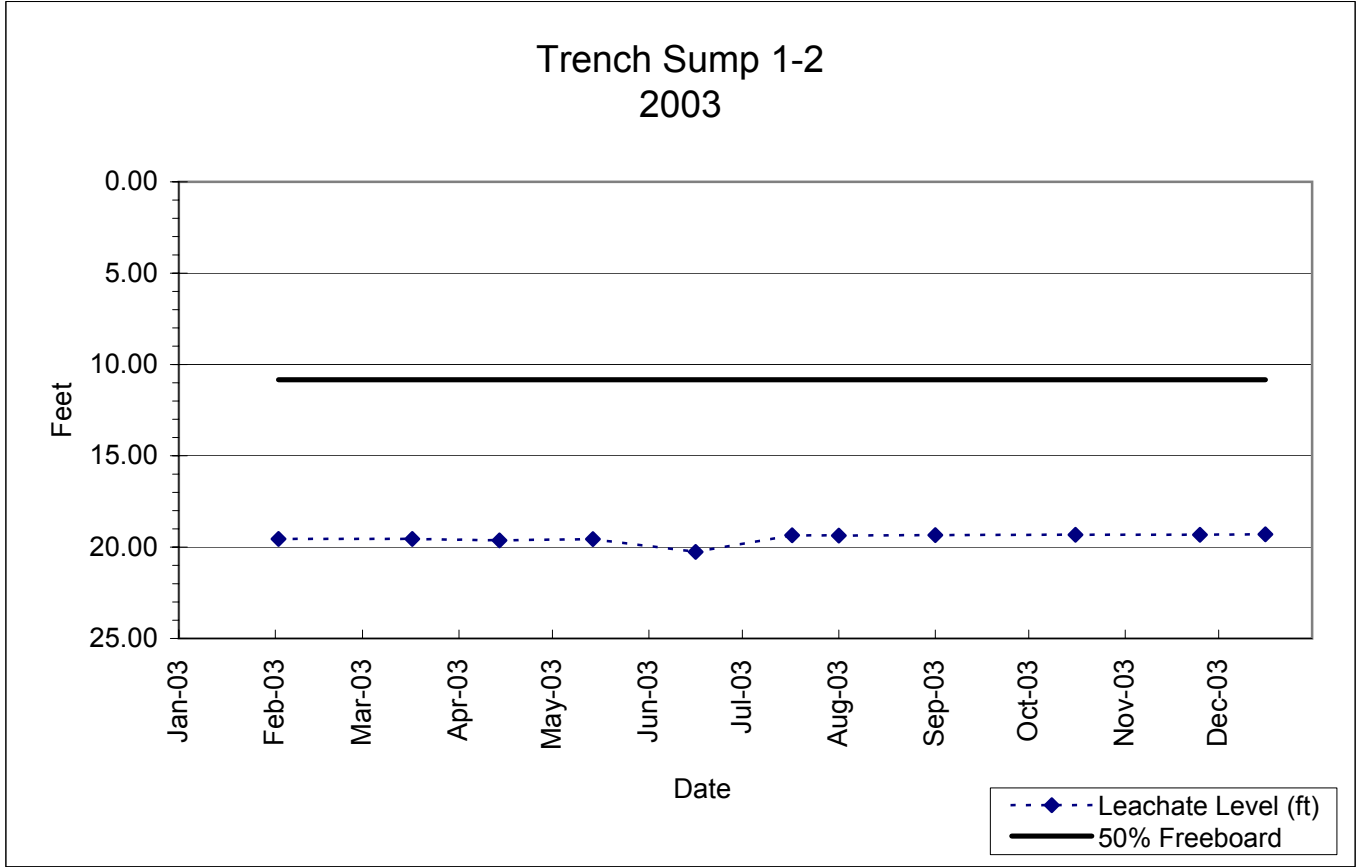
**MAXEY FLATS DISPOSAL SITE  
TRENCH LEACHATE MANAGEMENT  
2003**

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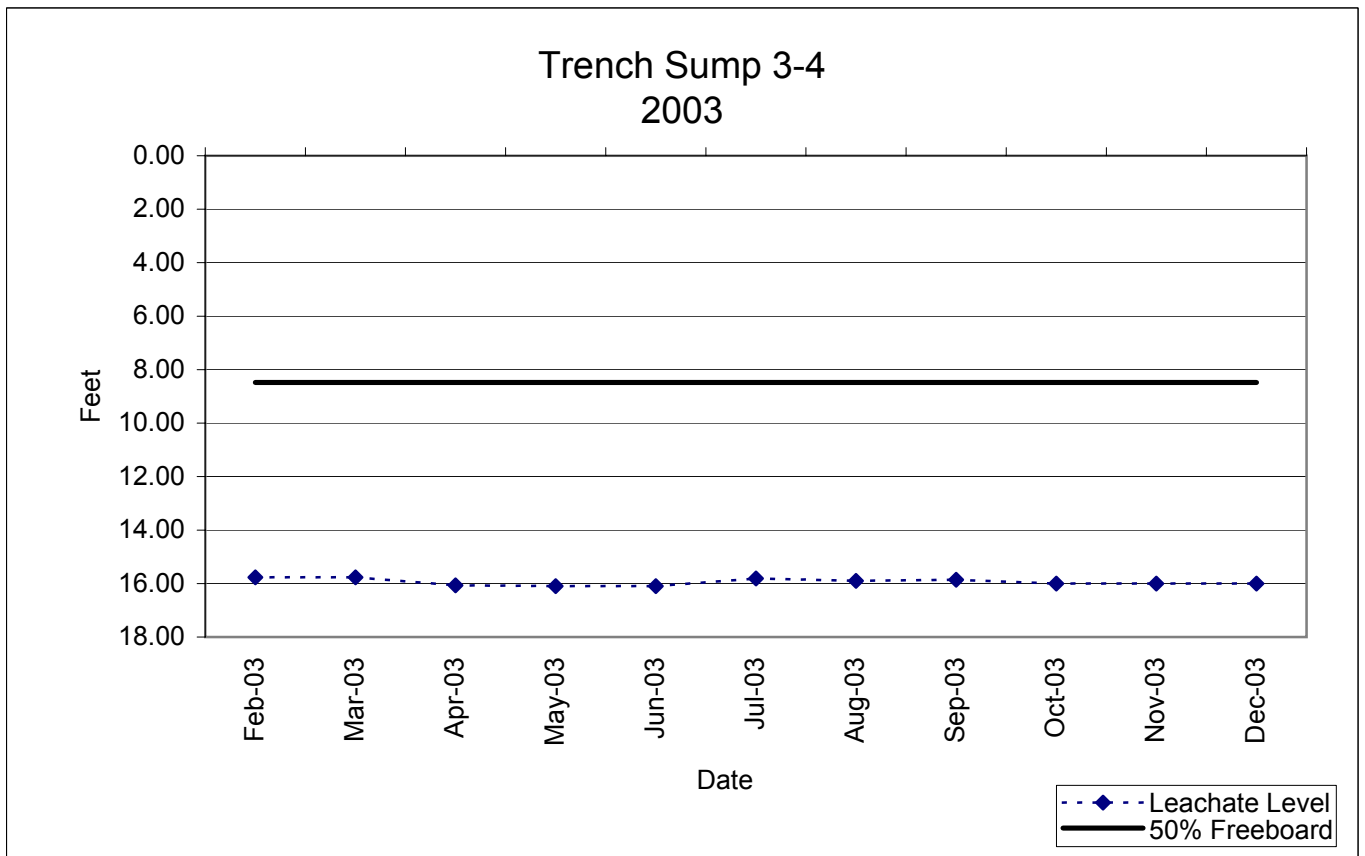
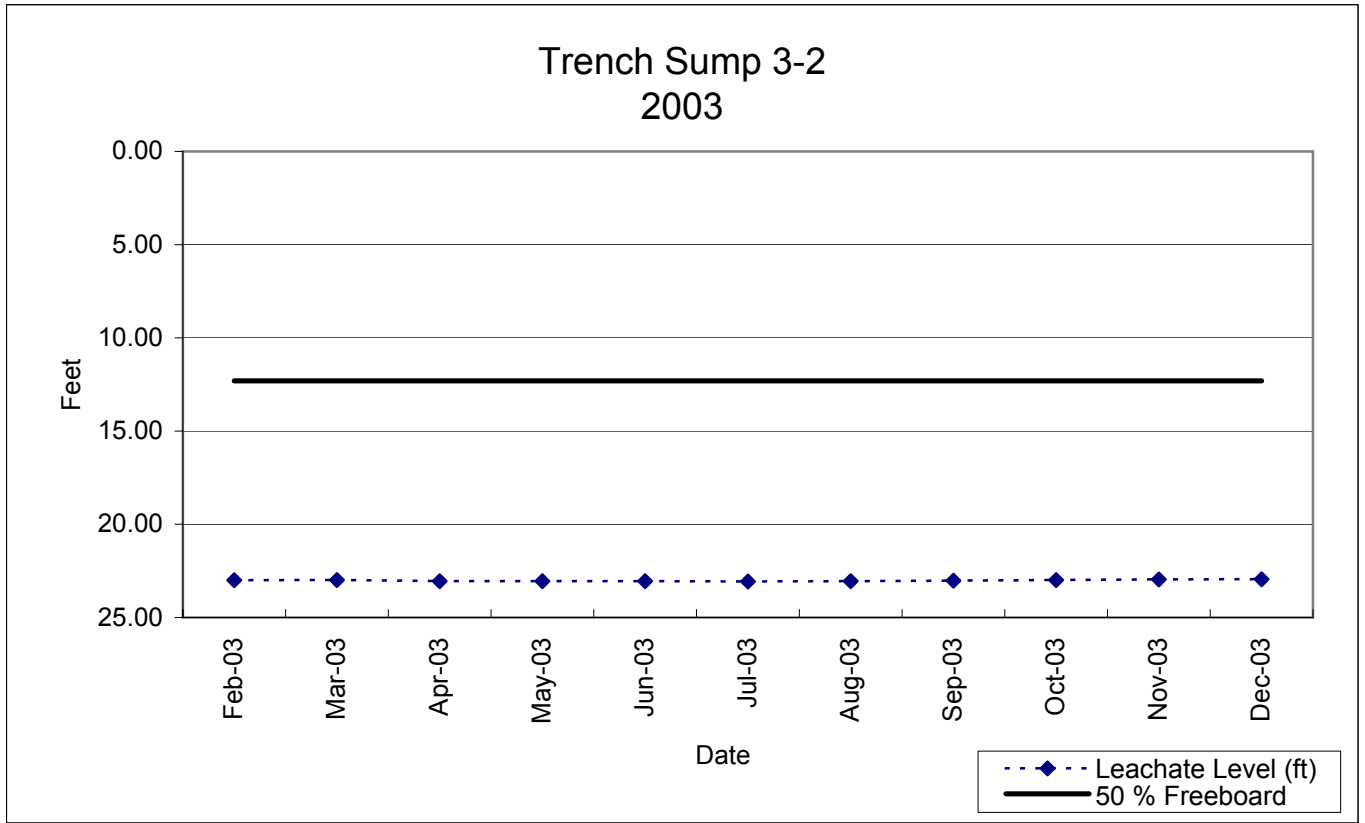
**APPENDIX H1**

**MAXEY FLATS DISPOSAL SITE  
TRENCH SUMP LIQUID LEVEL CHARTS  
2003**

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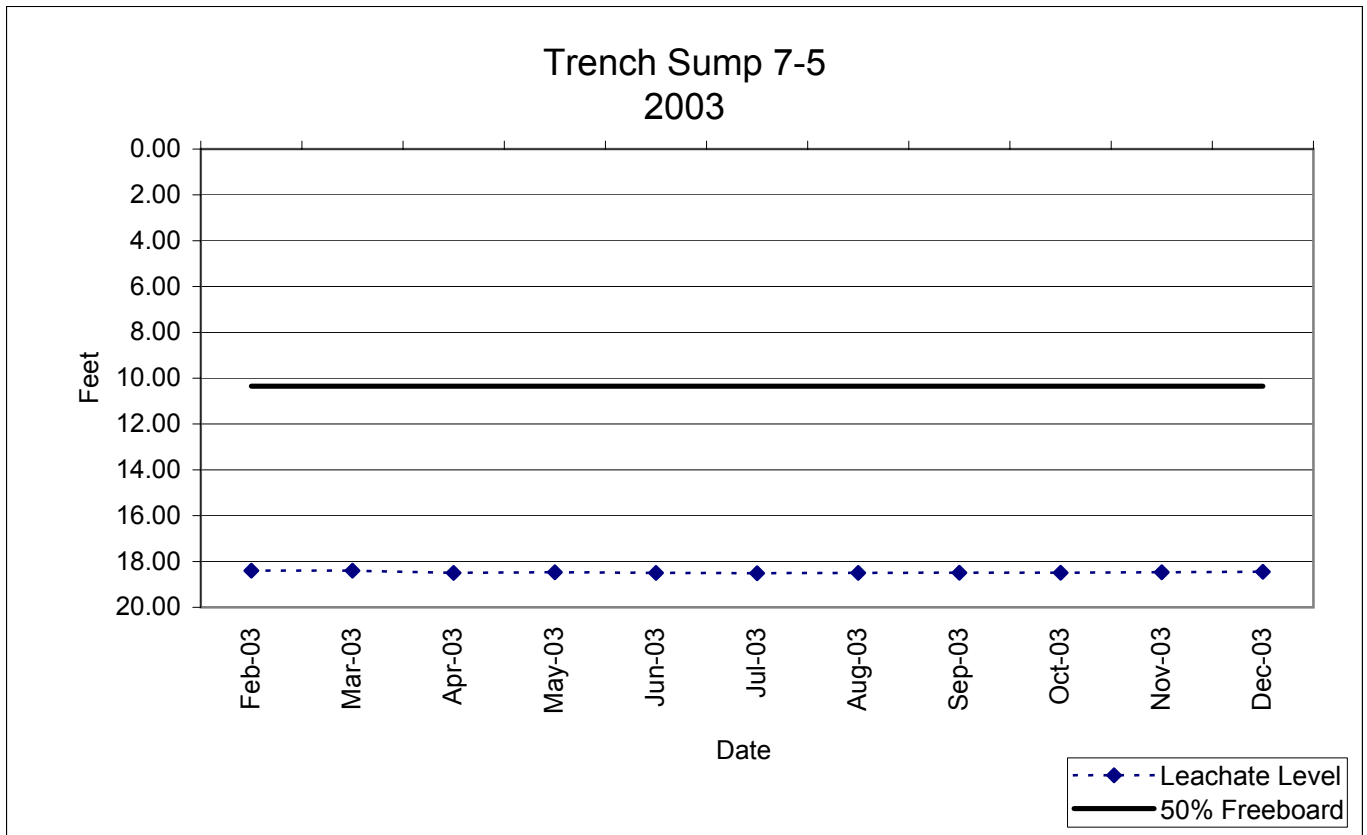
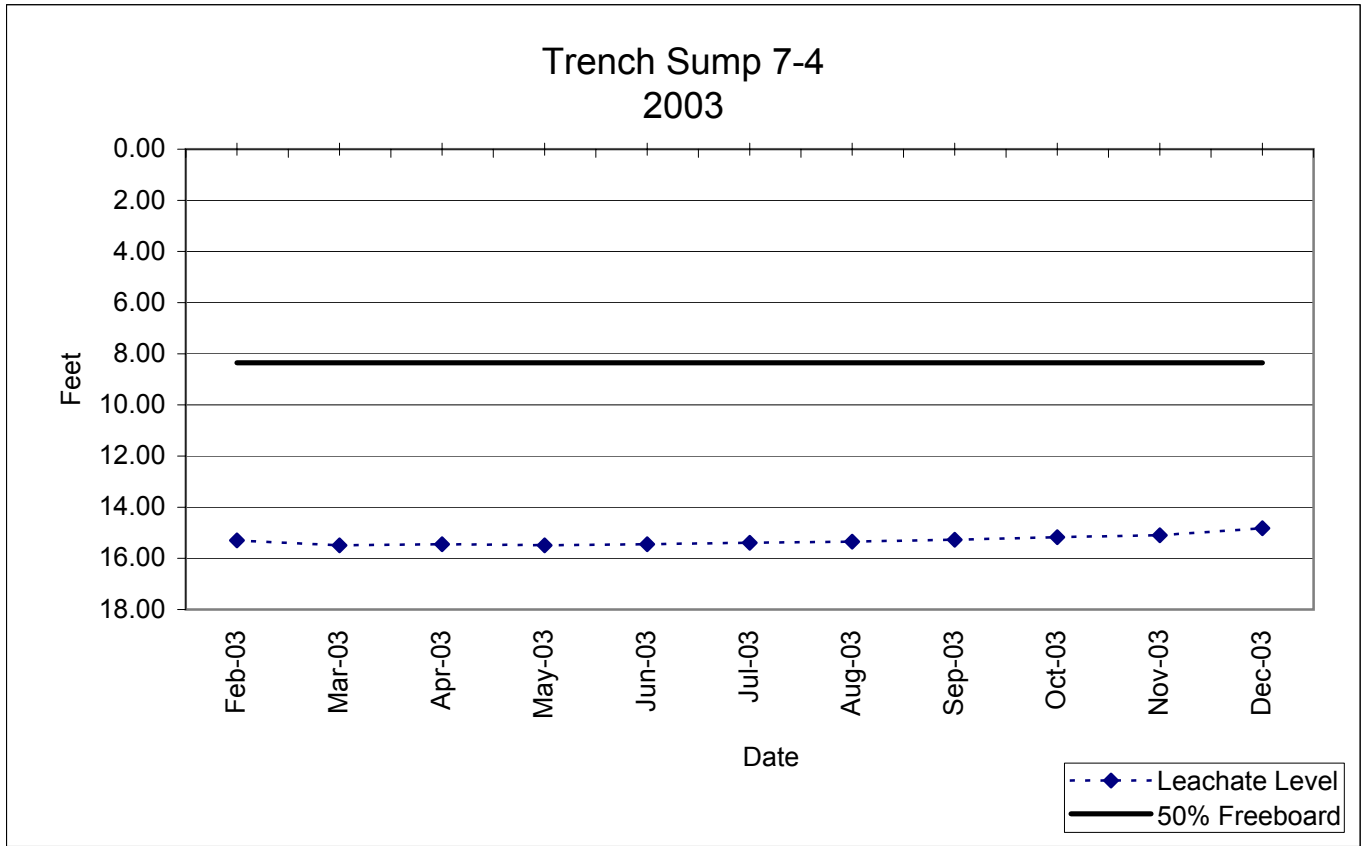


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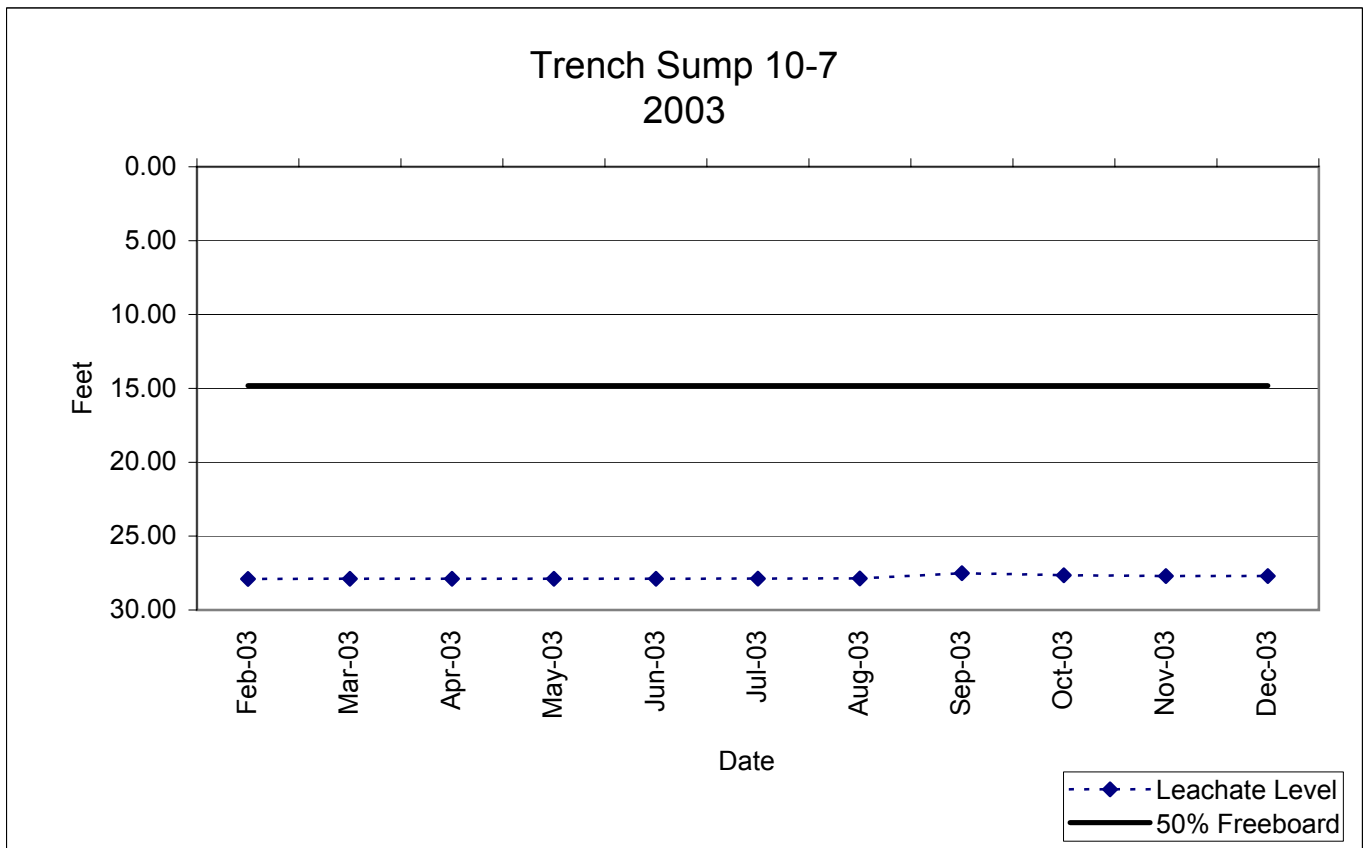
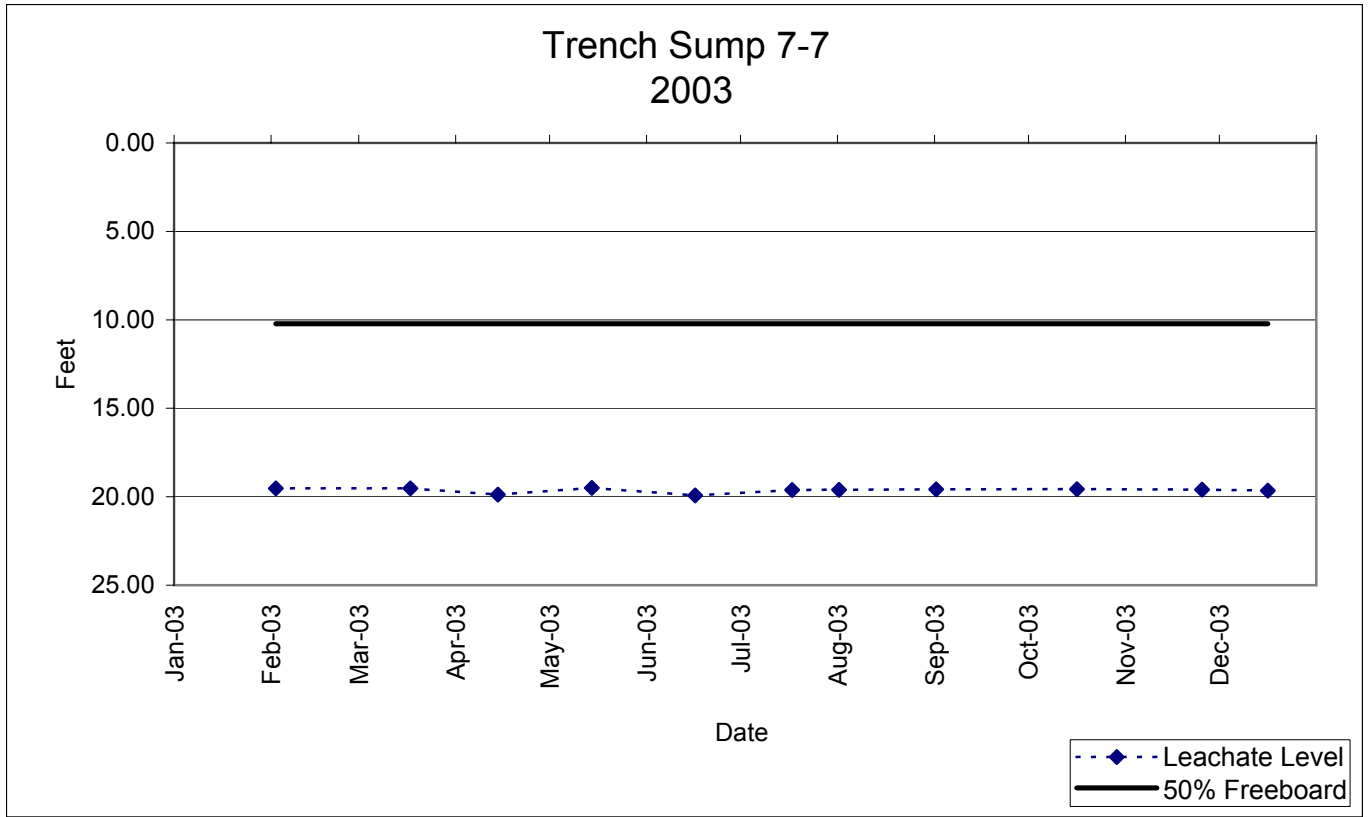




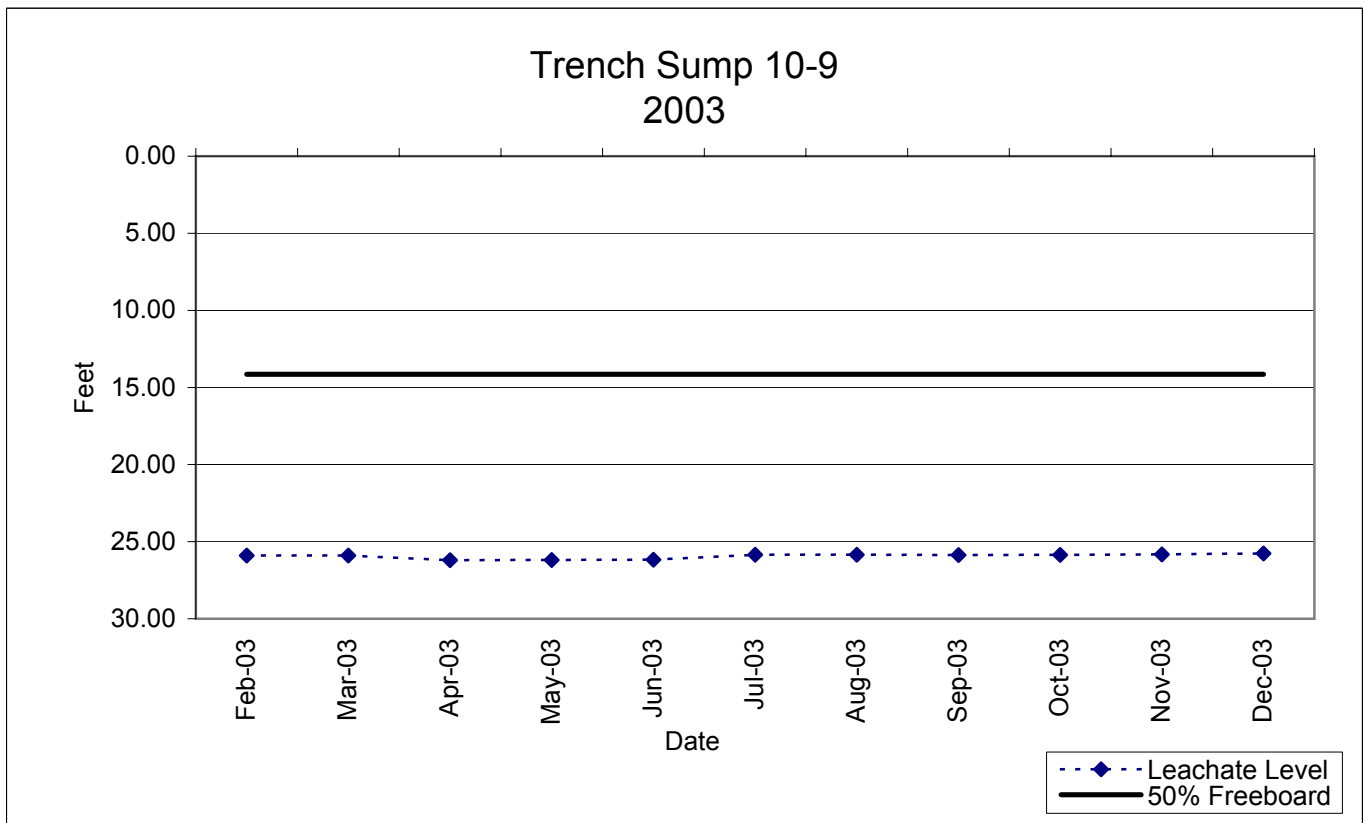
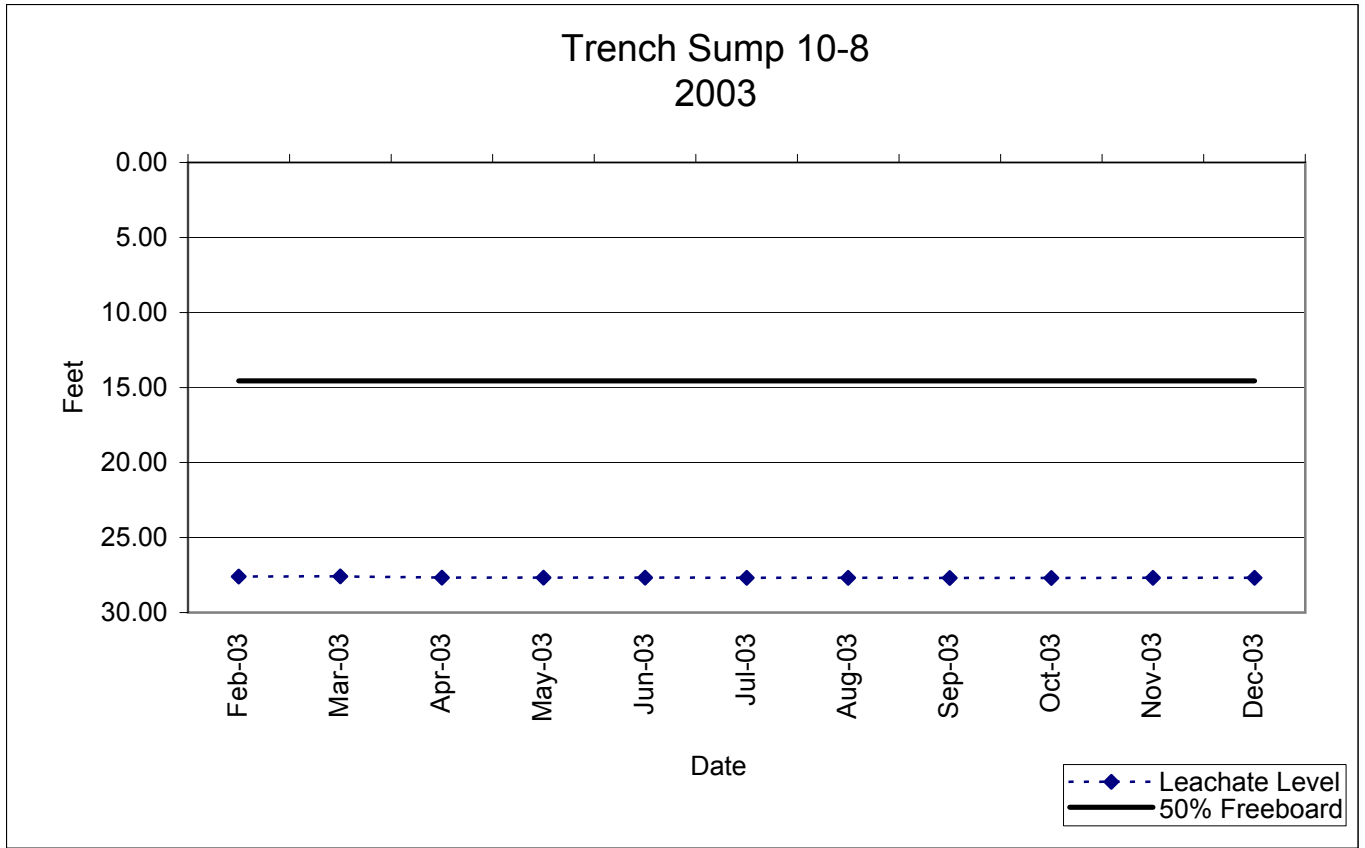
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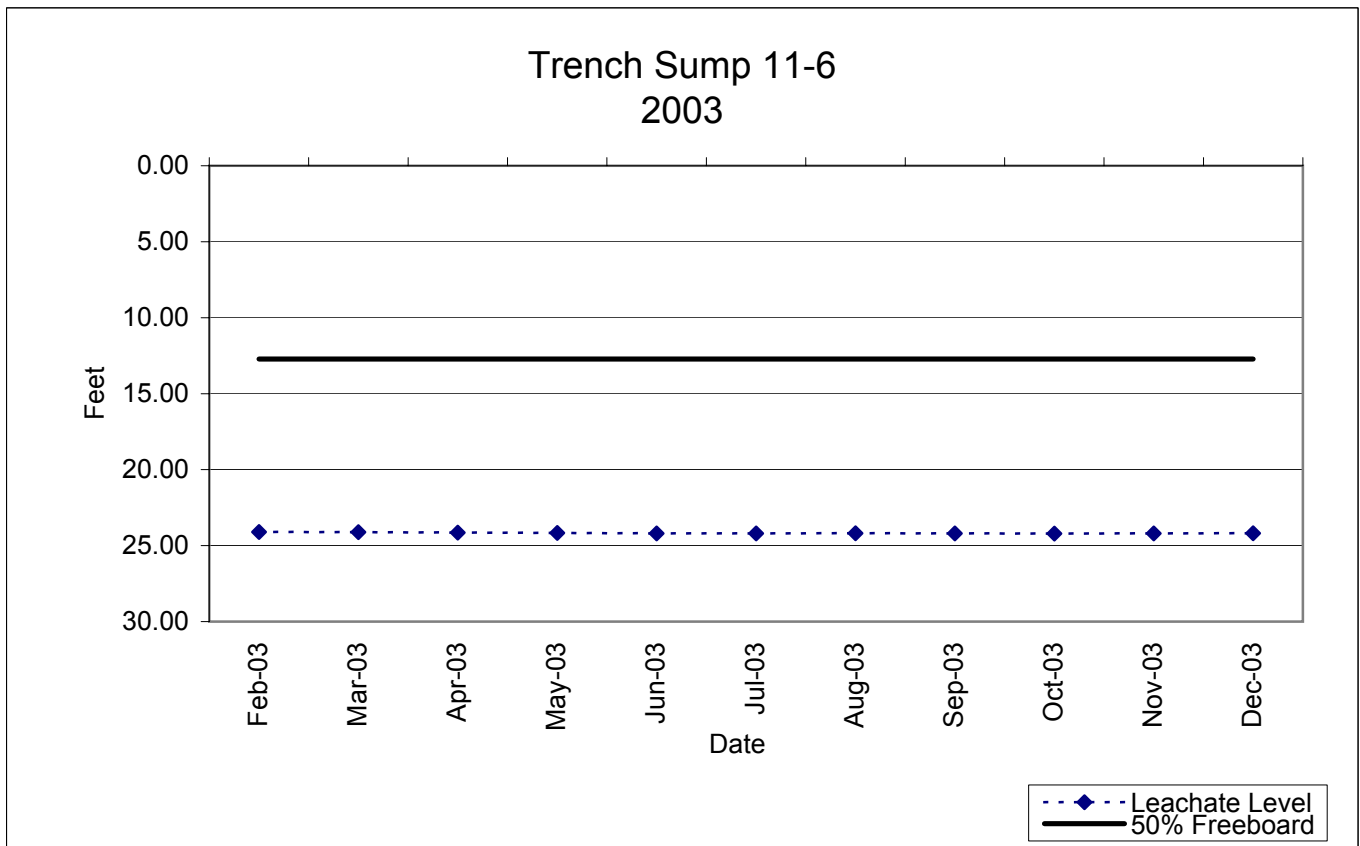
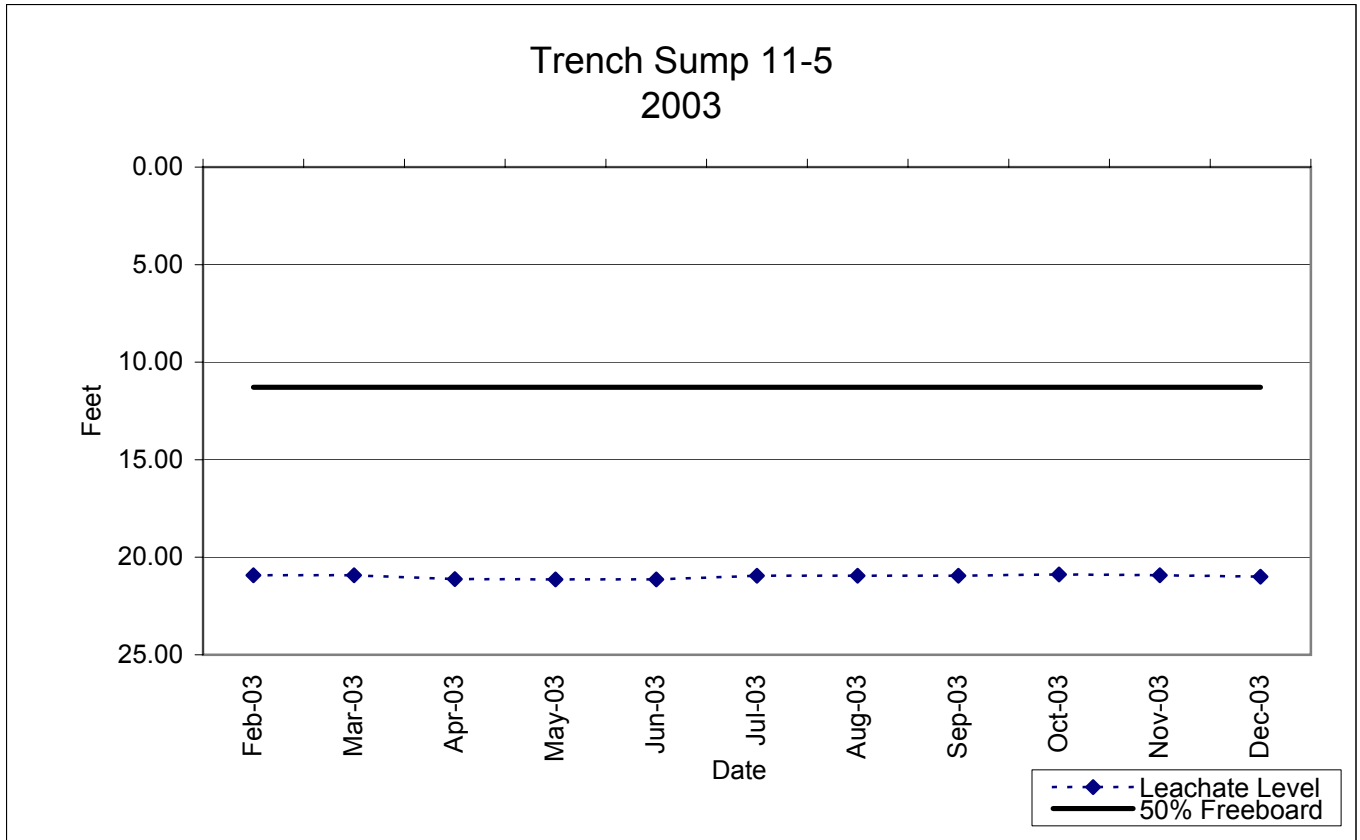
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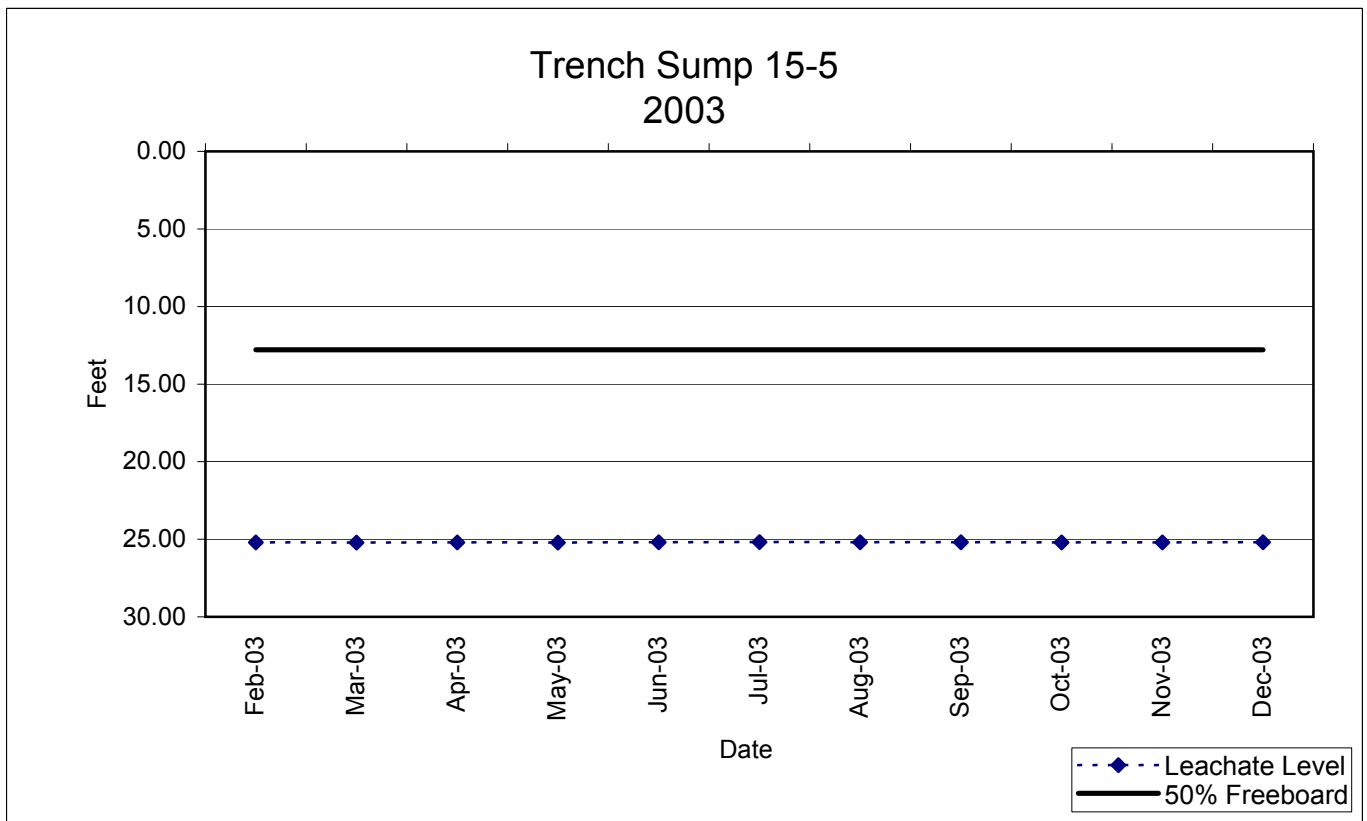
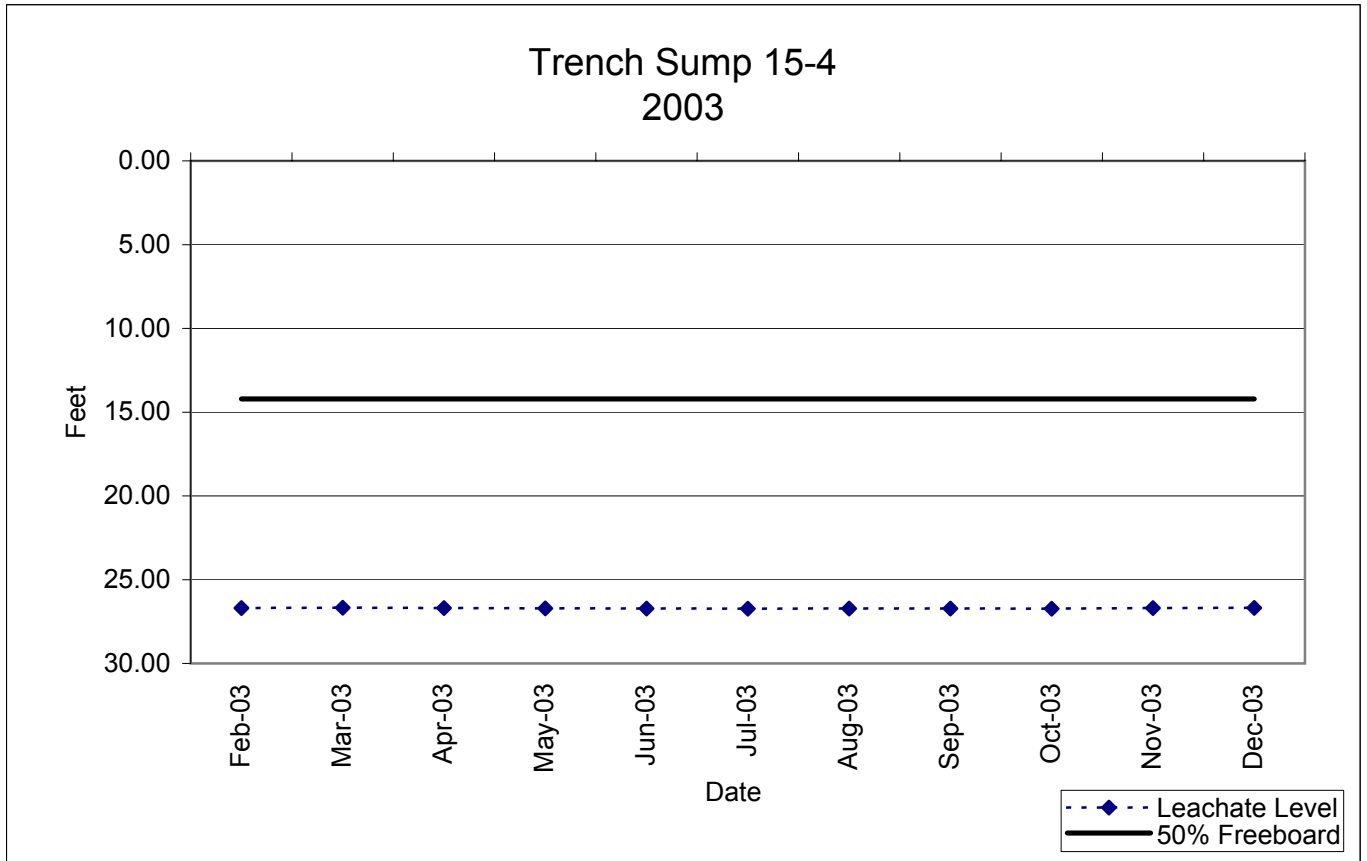
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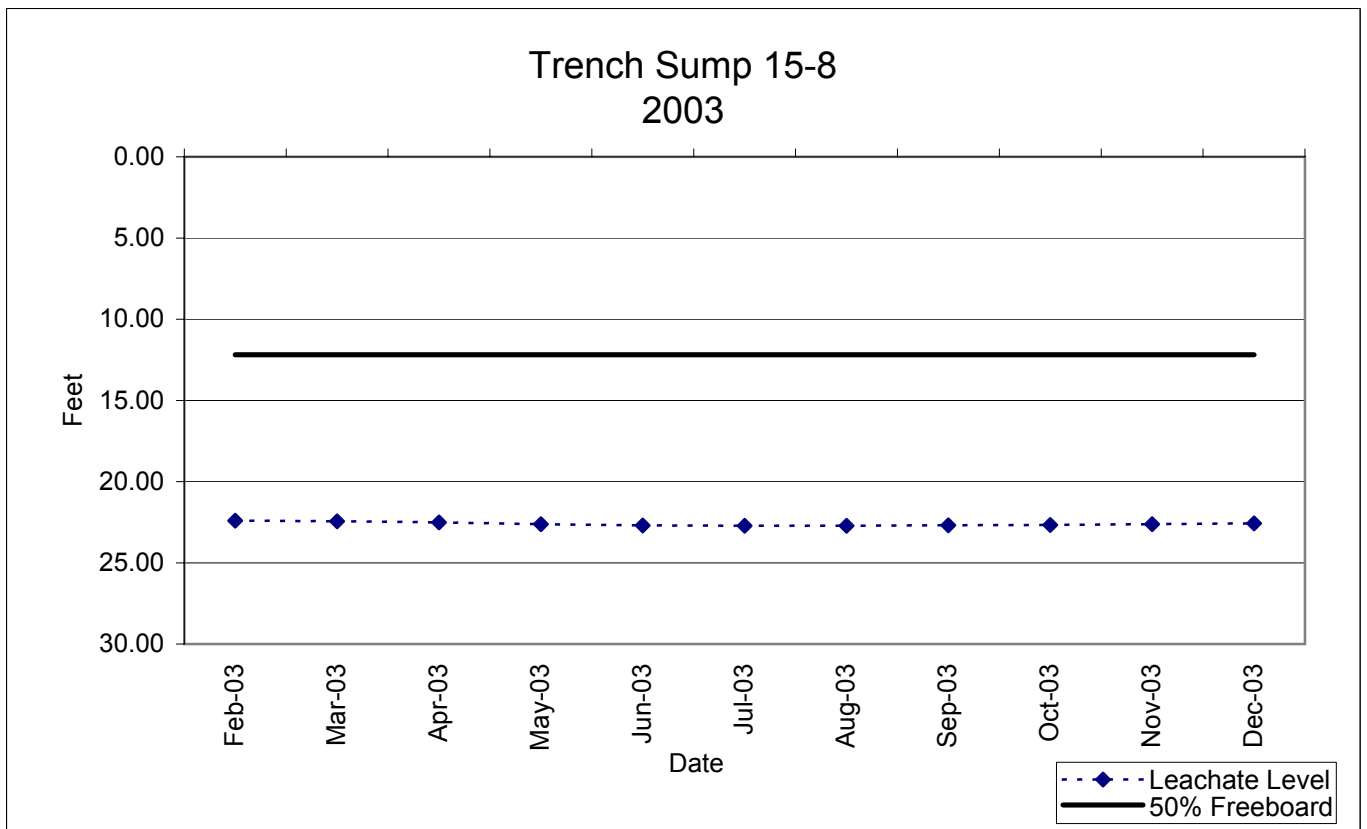
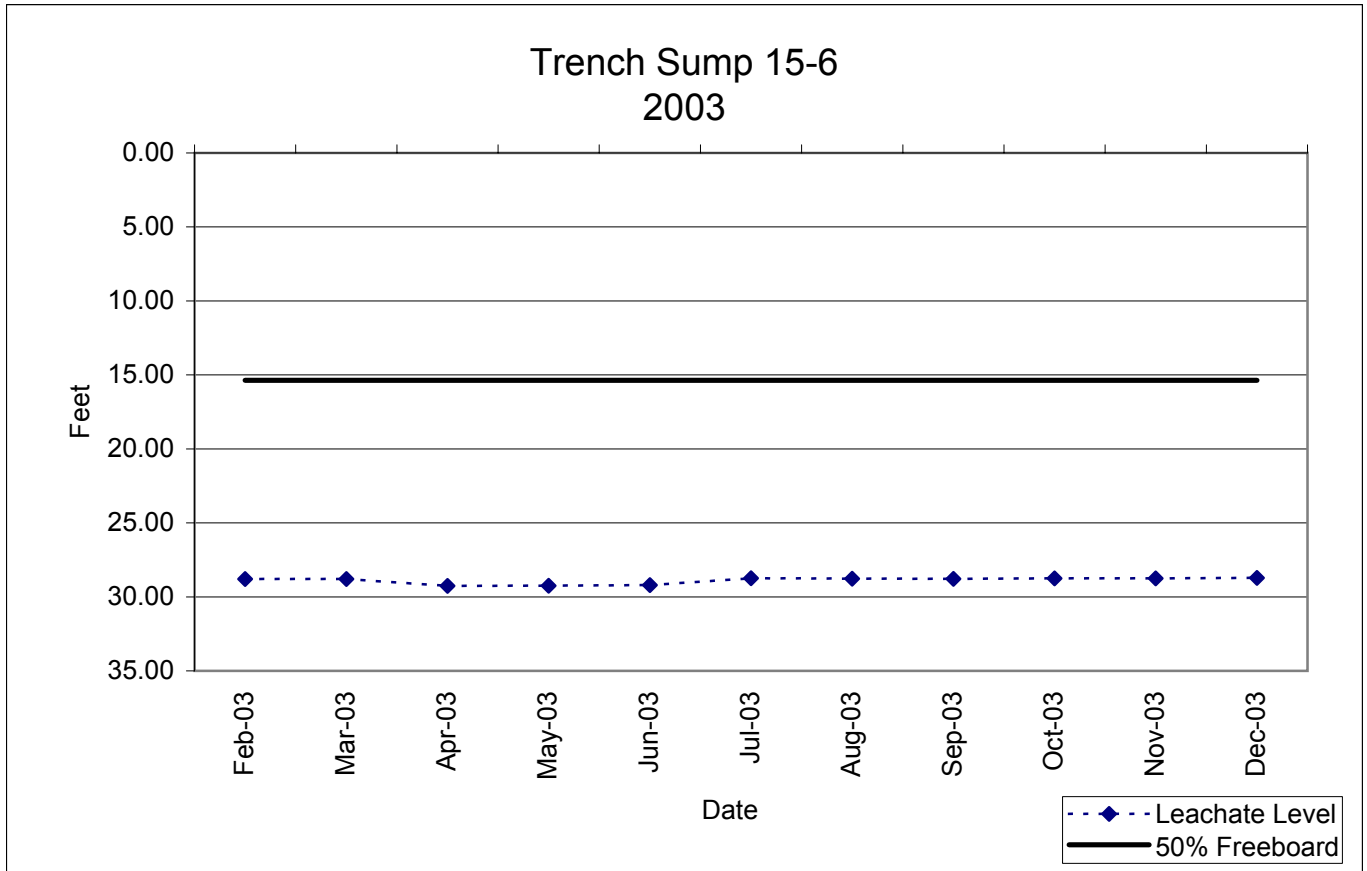
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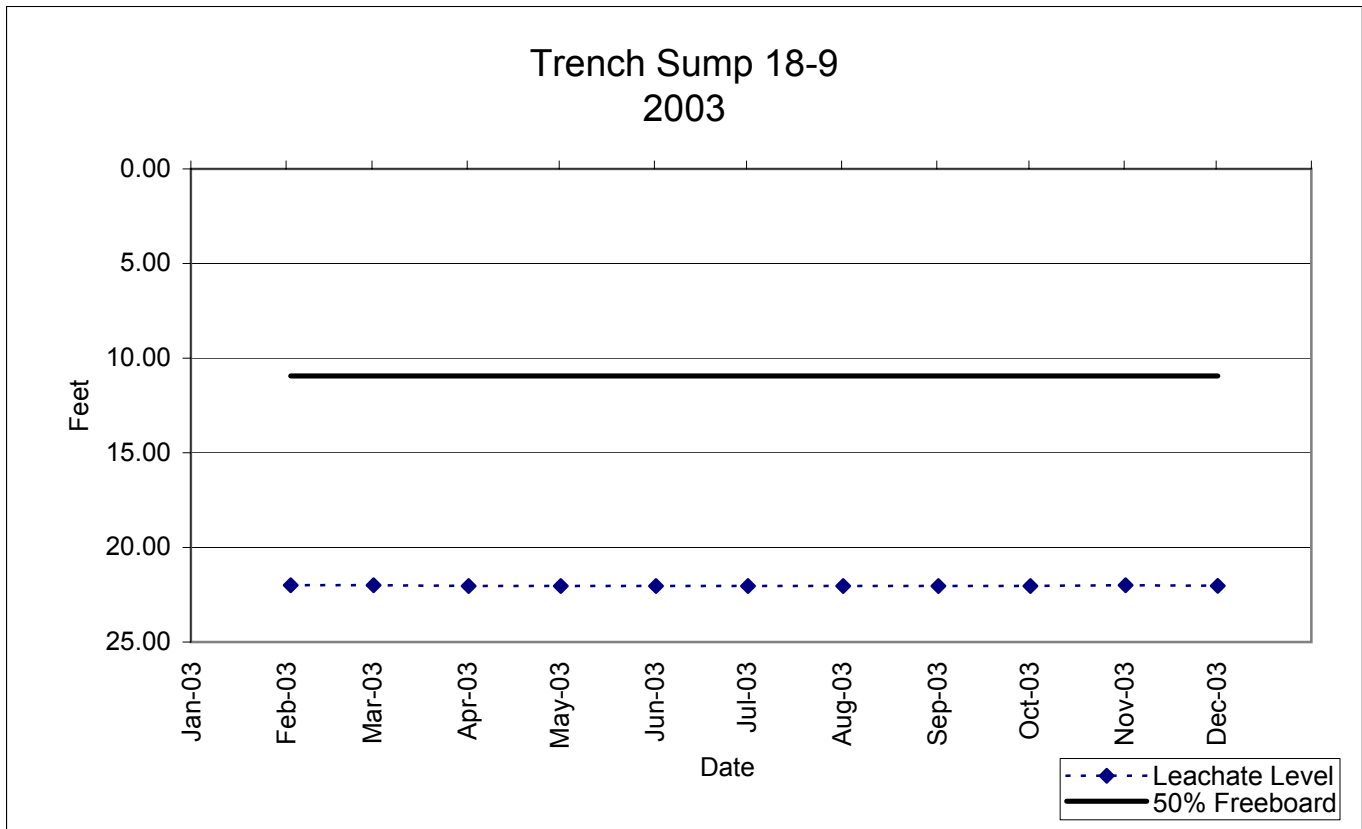
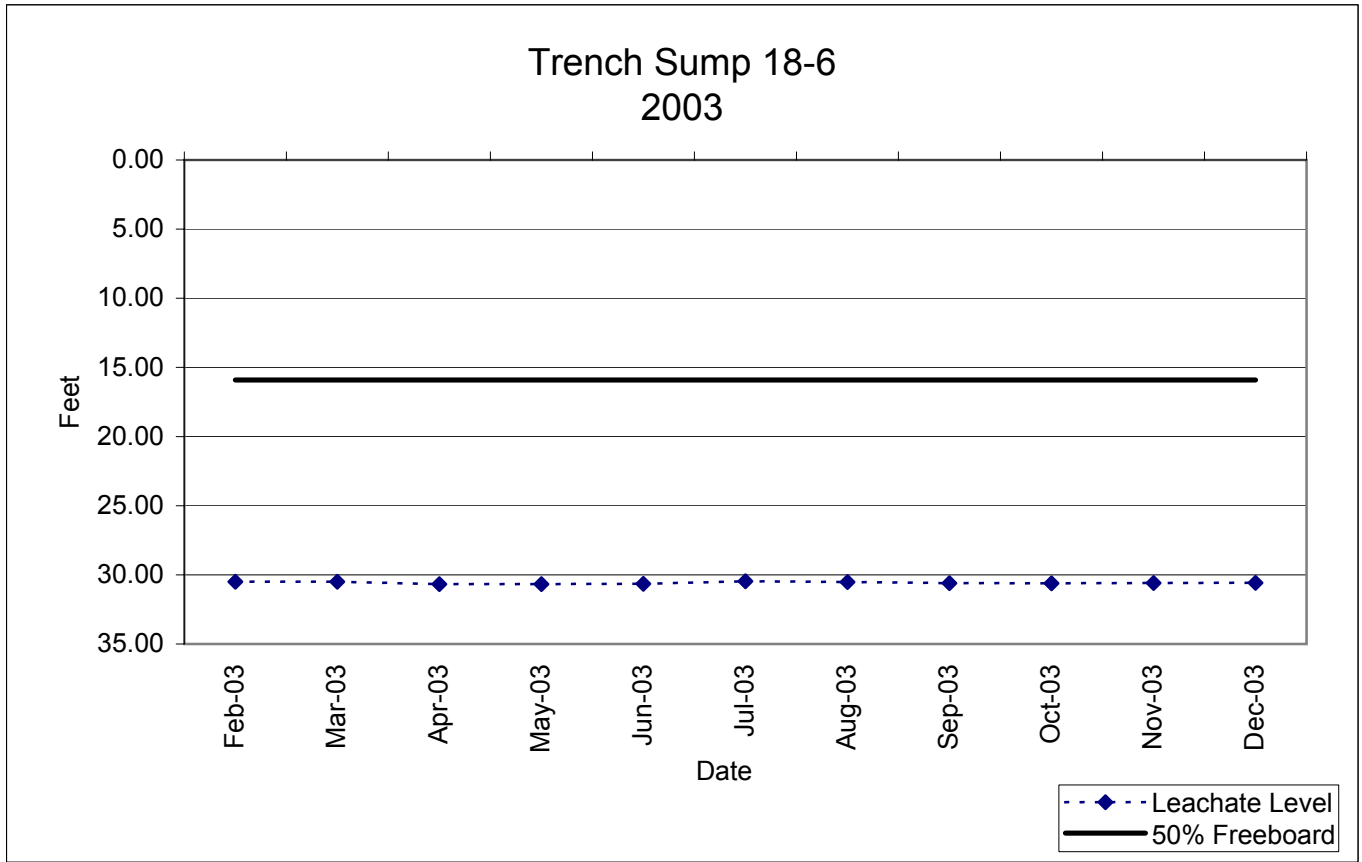
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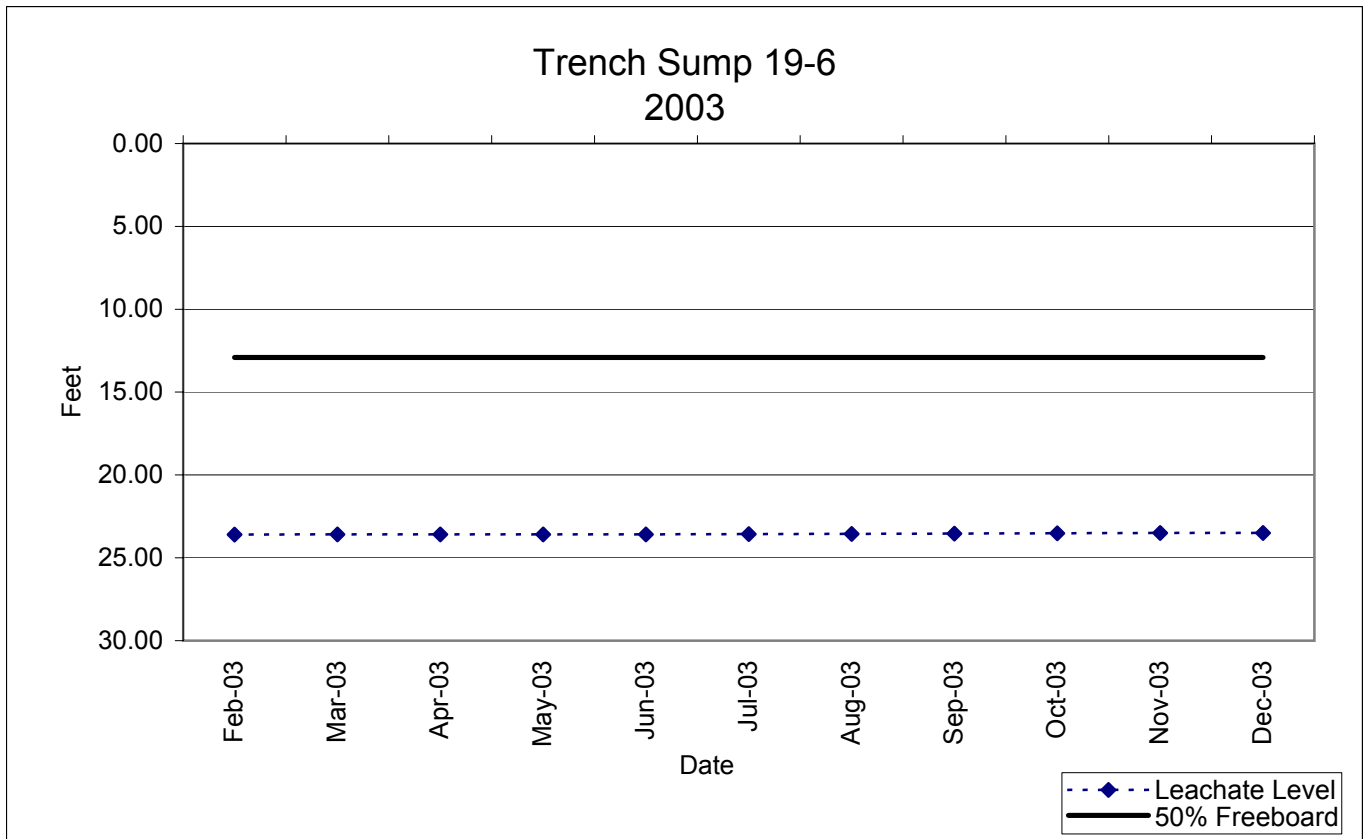
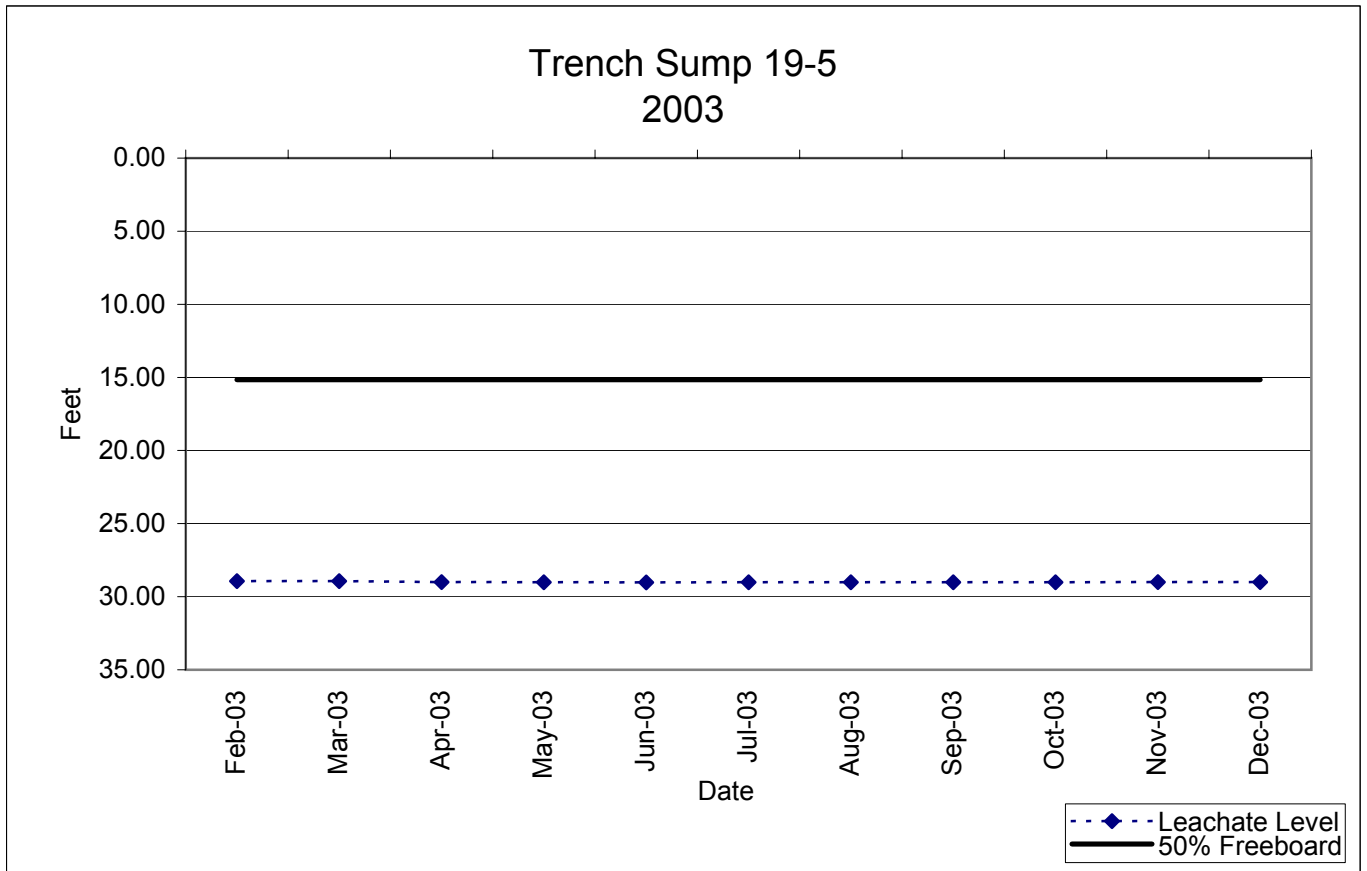
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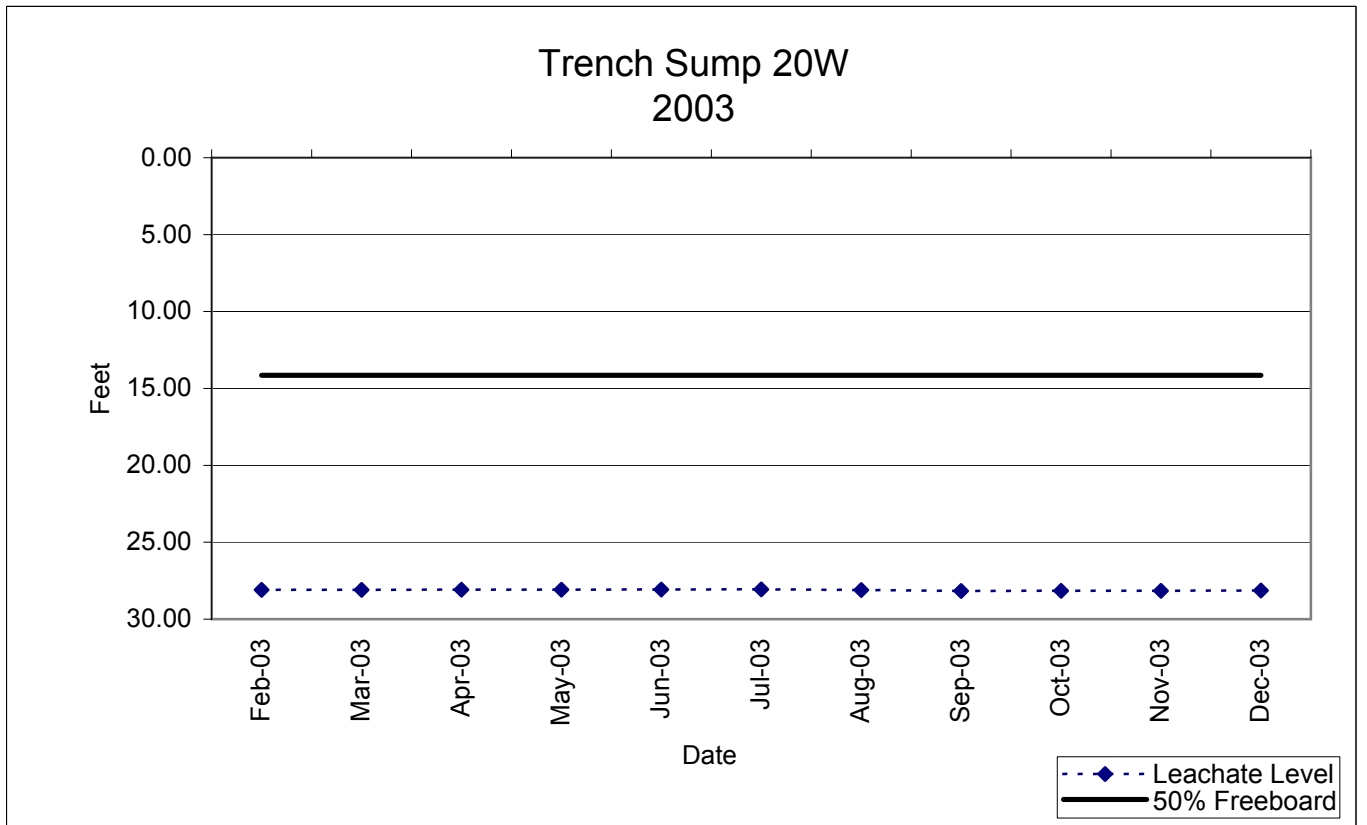
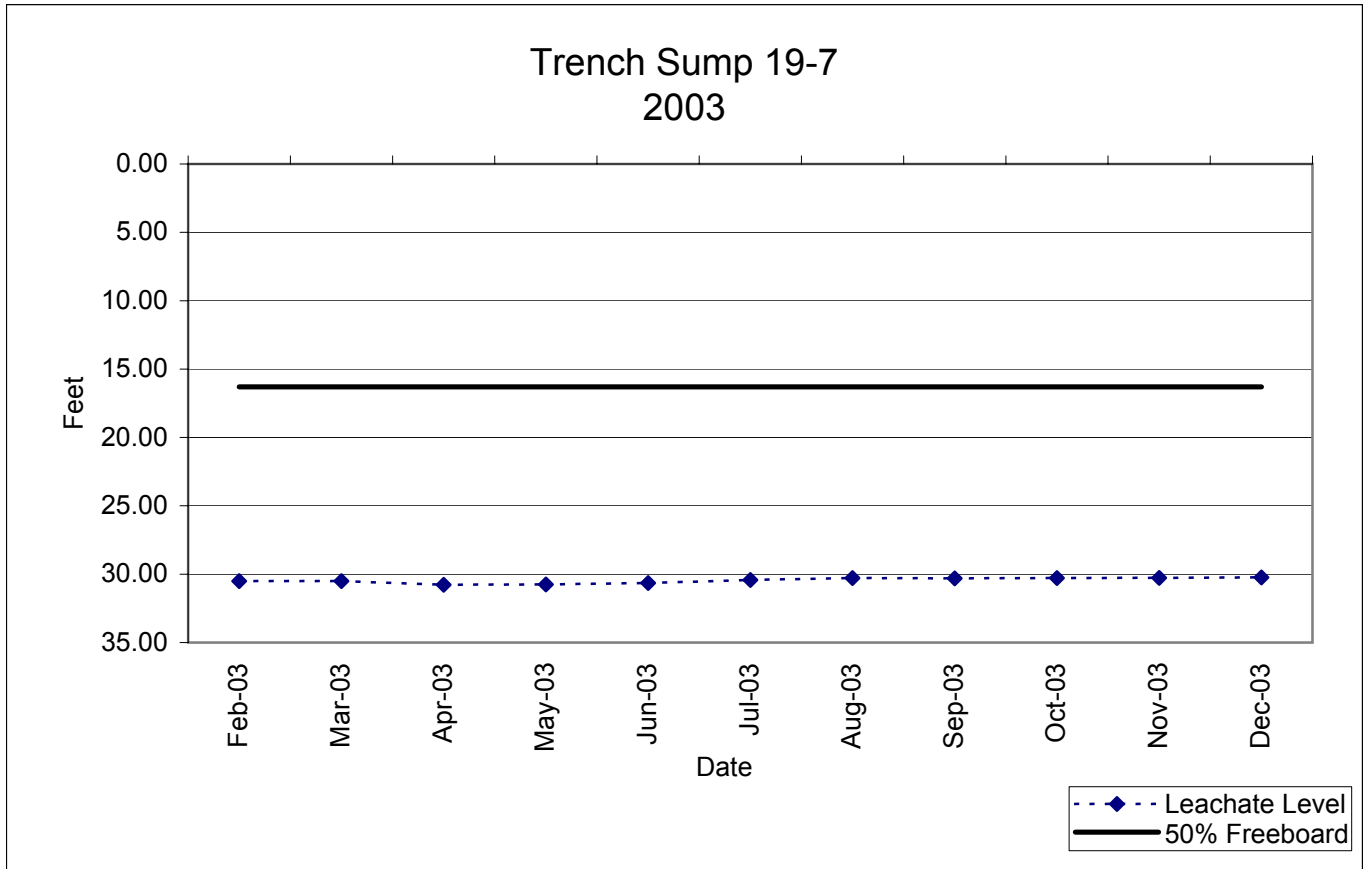


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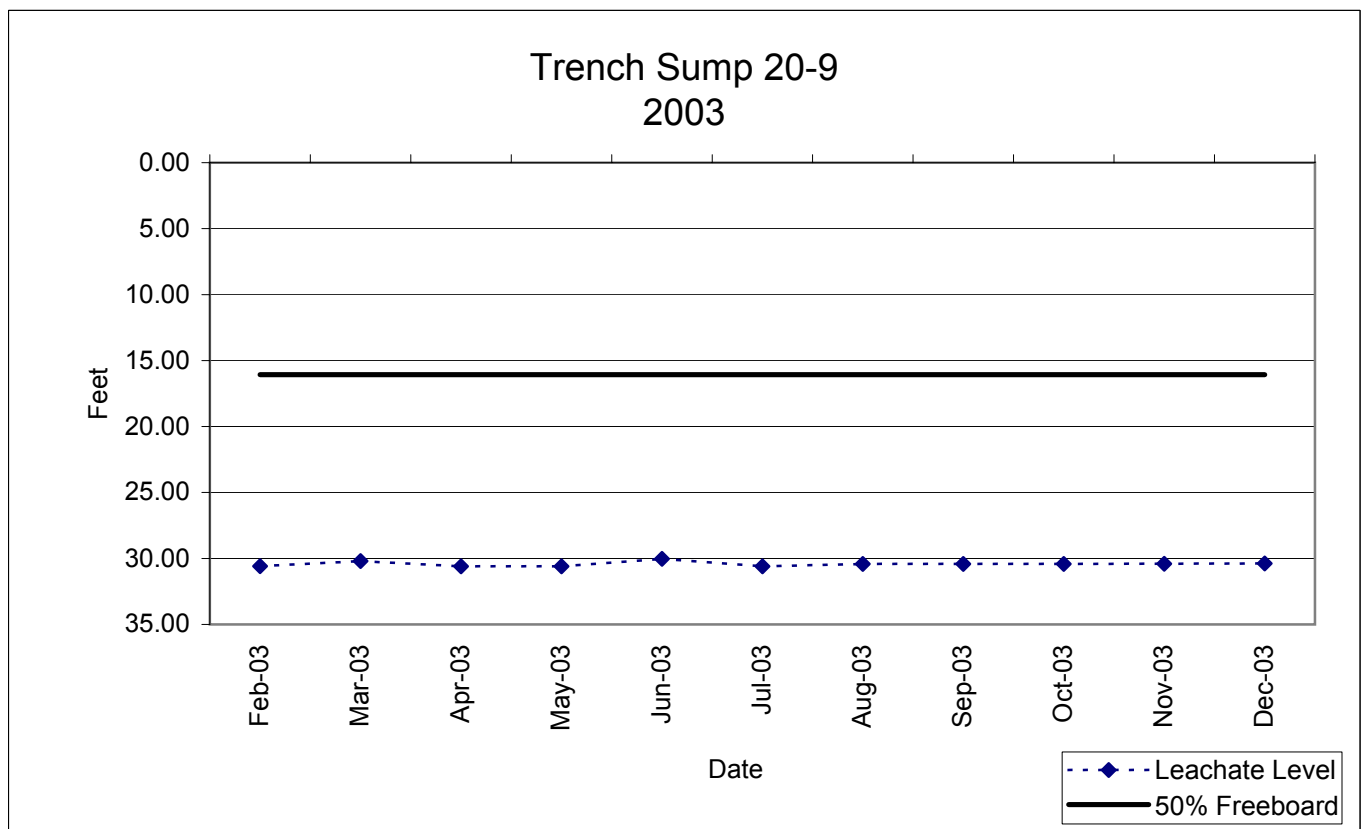
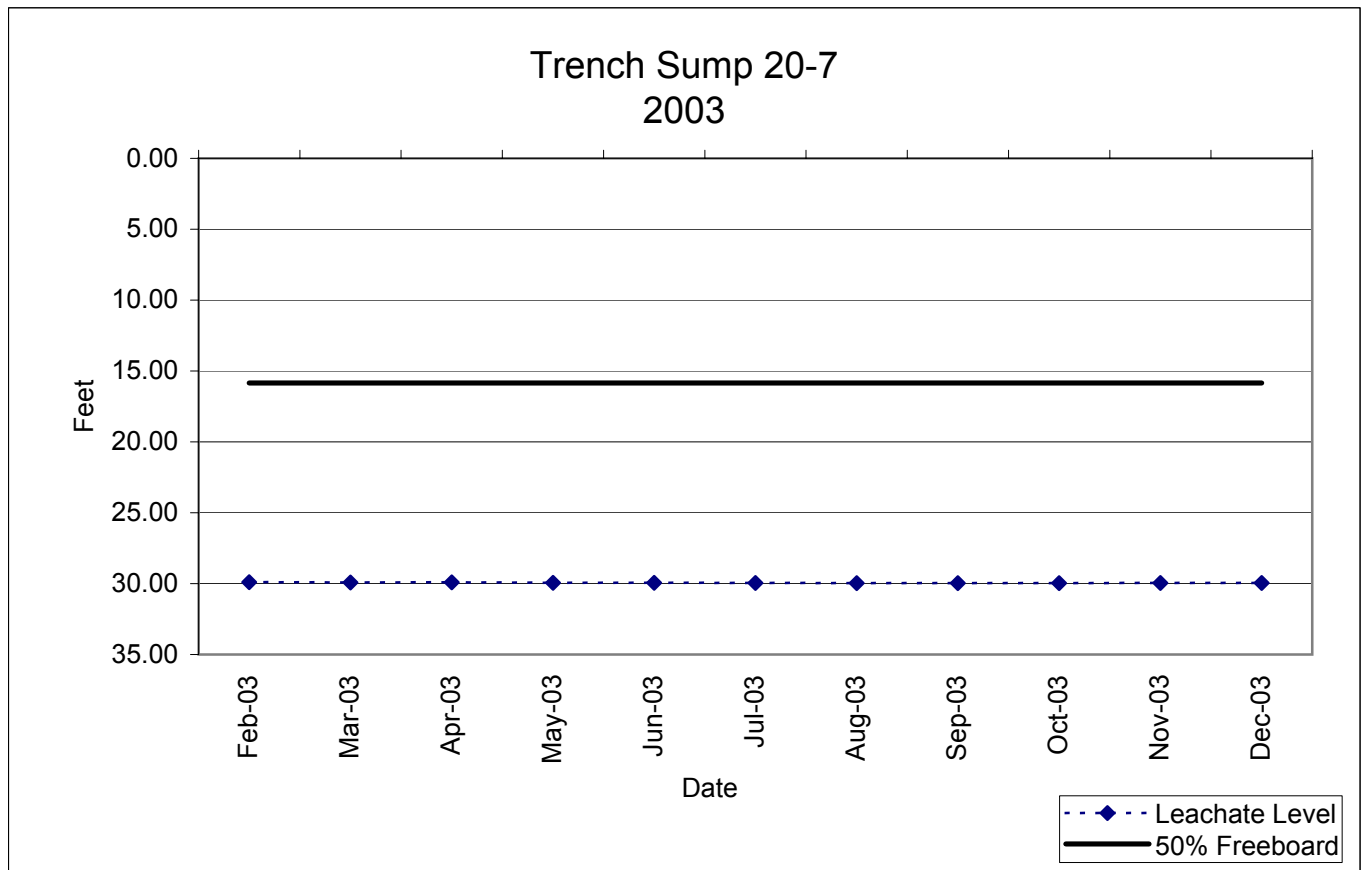




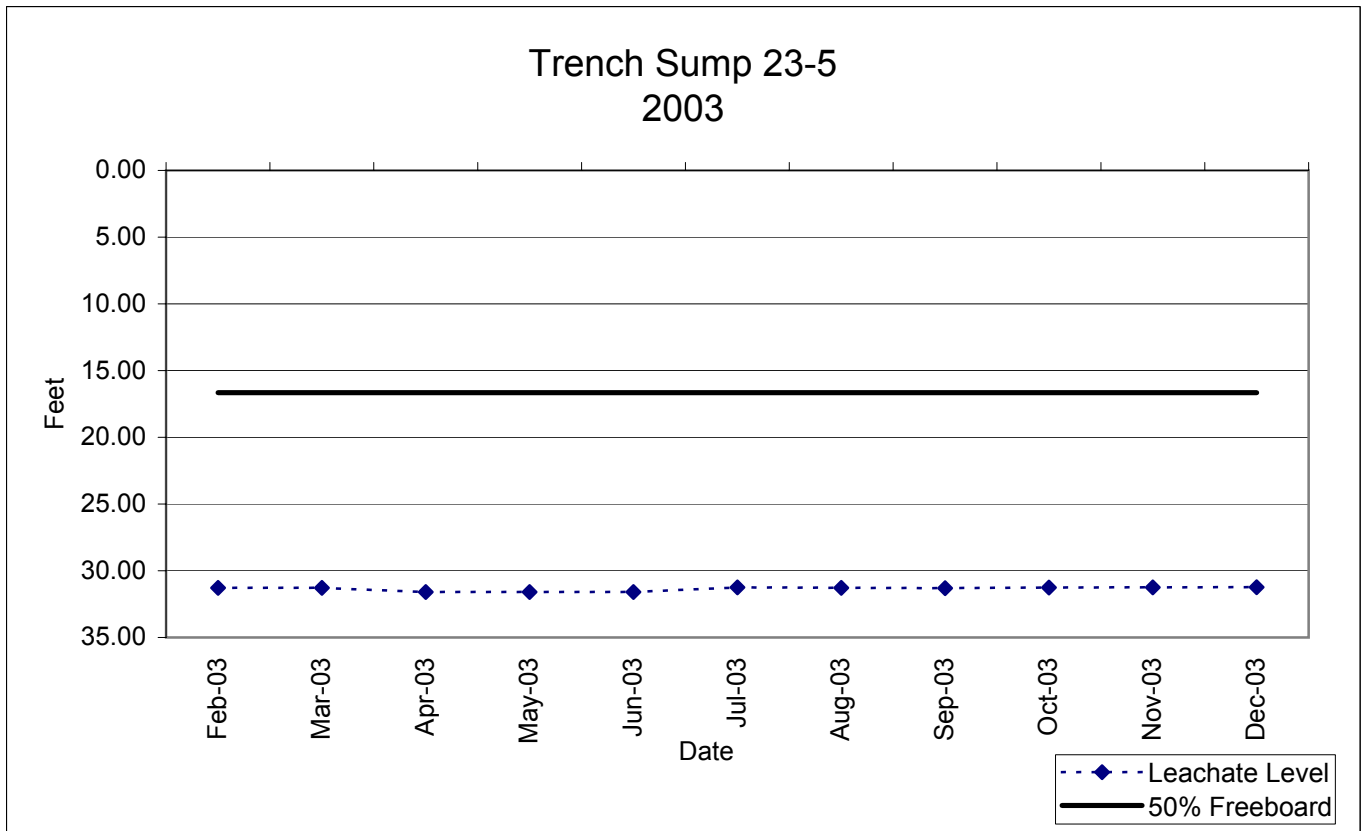
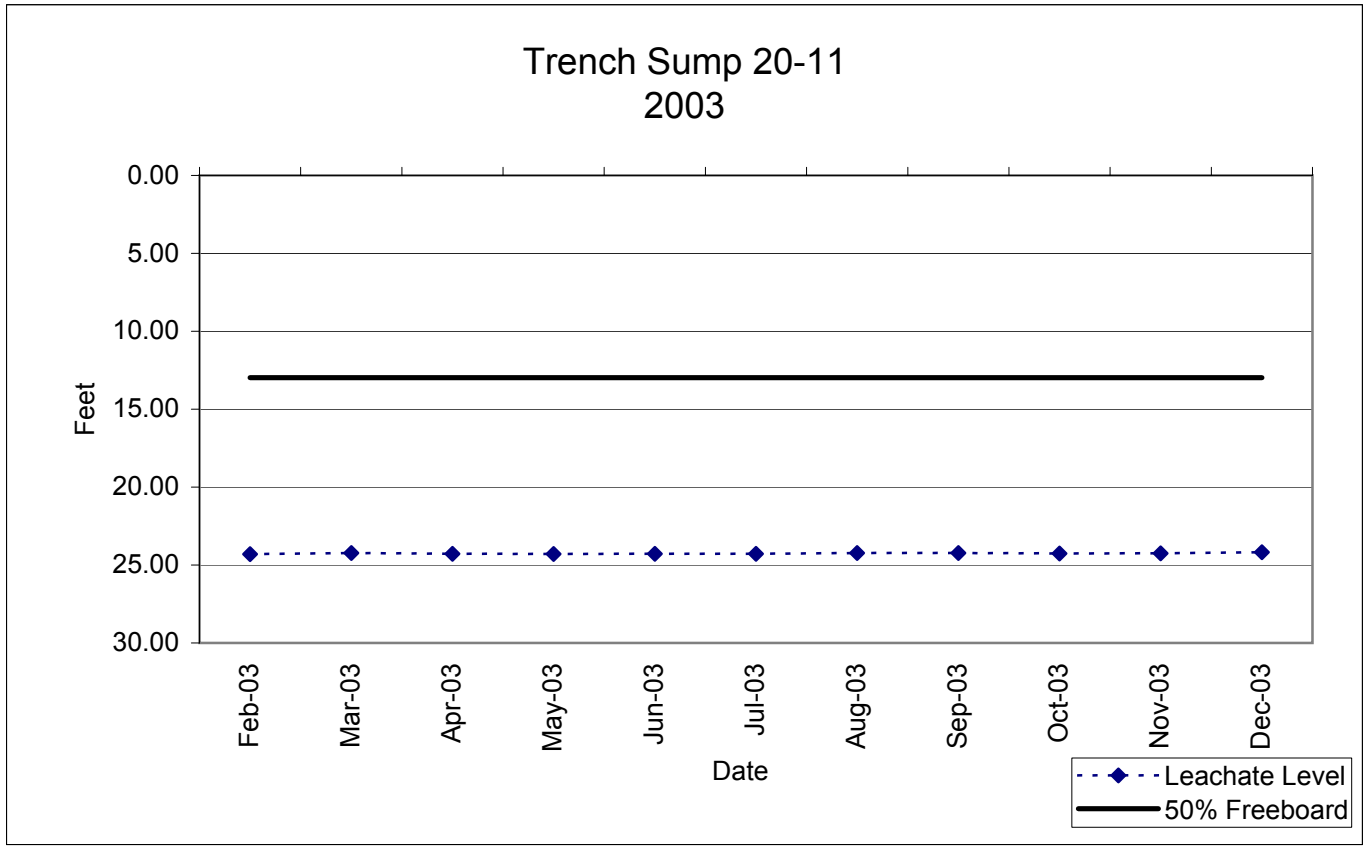
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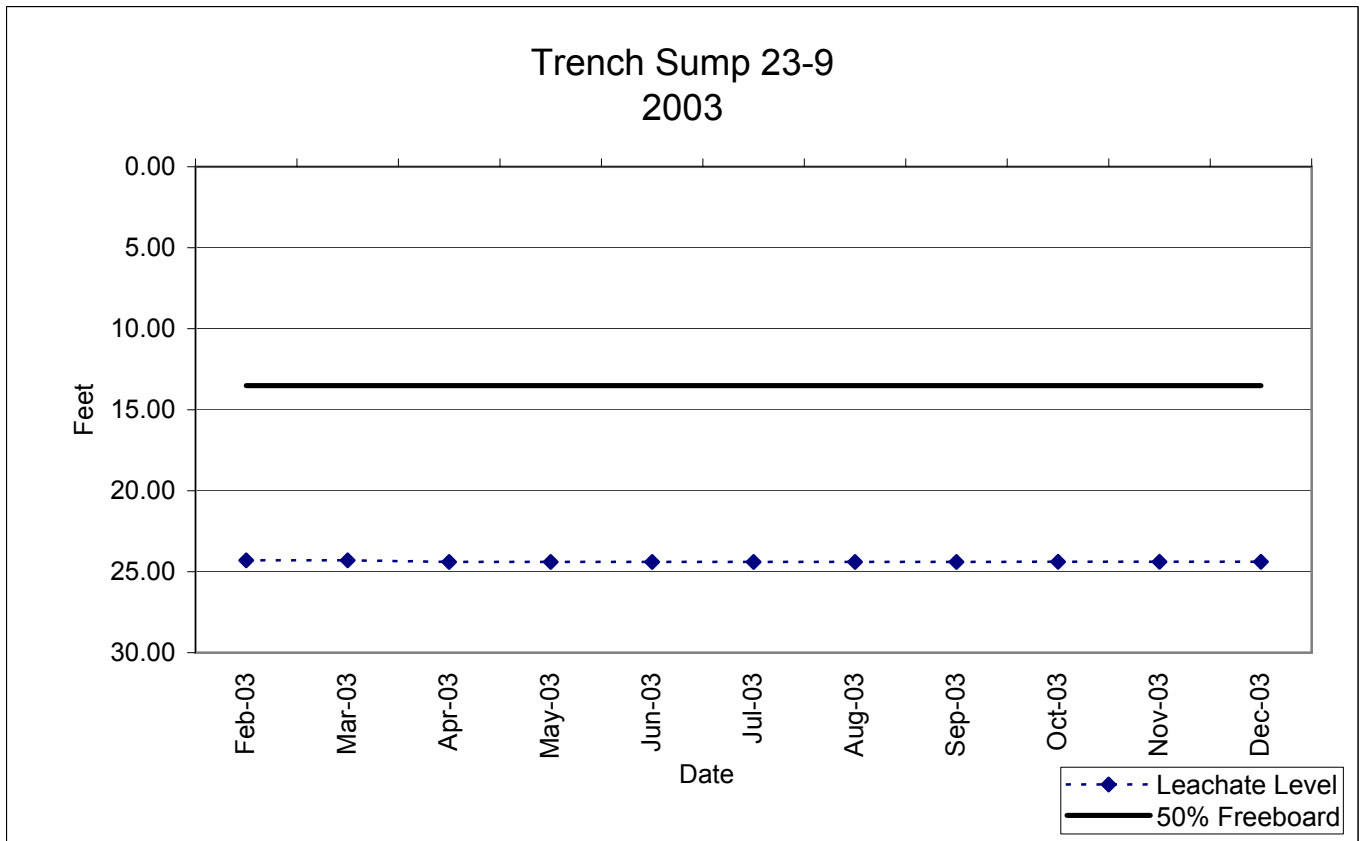
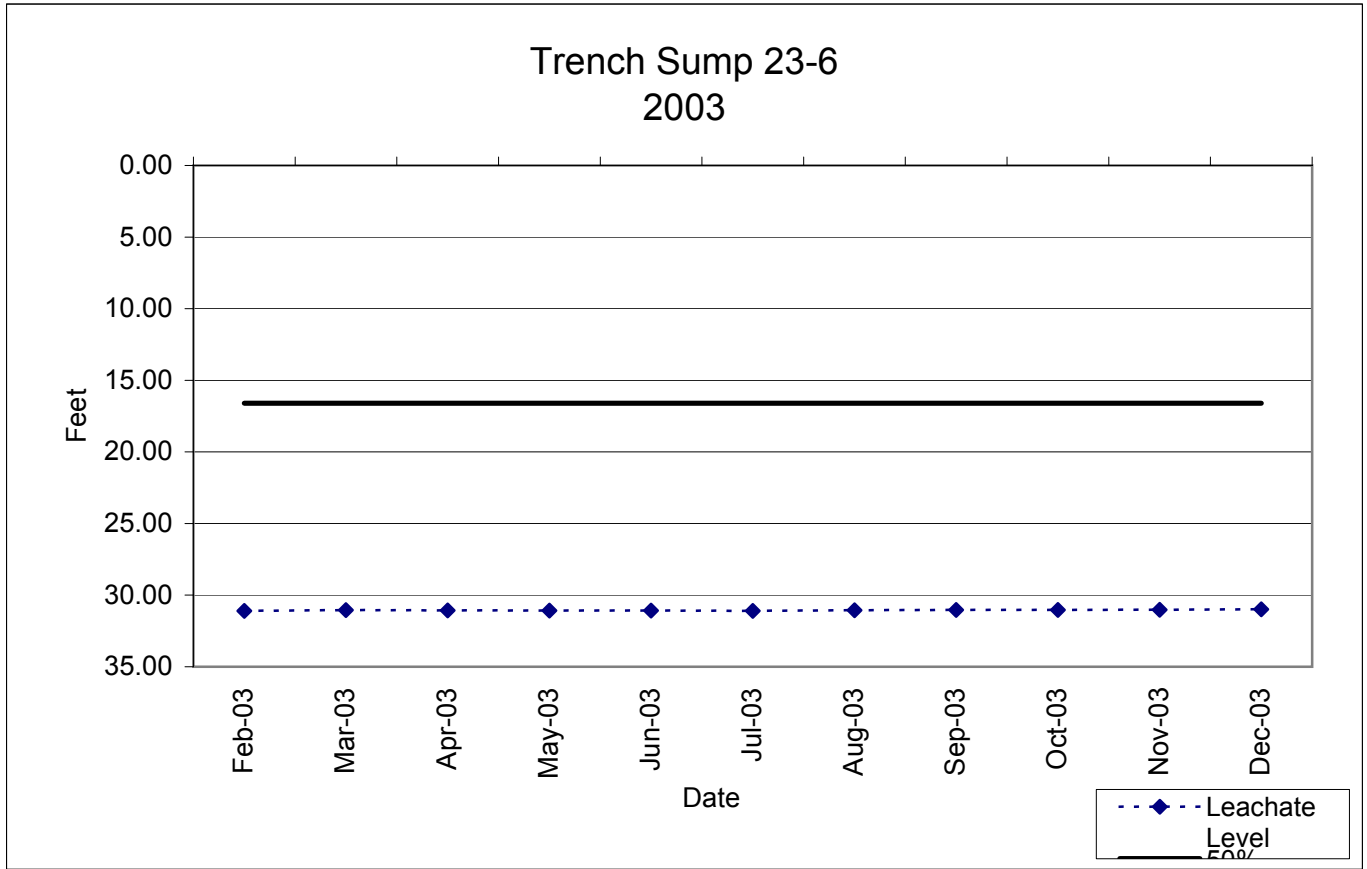
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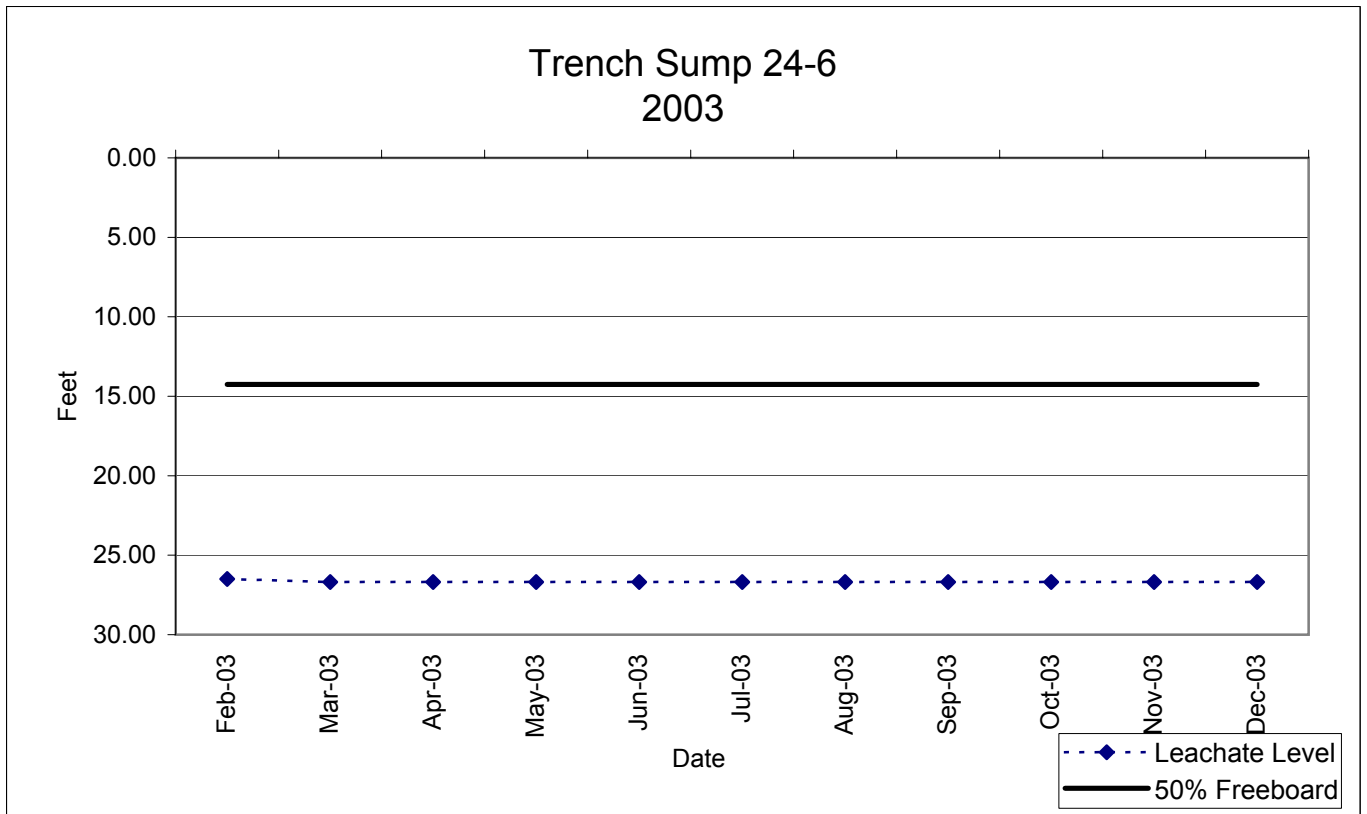
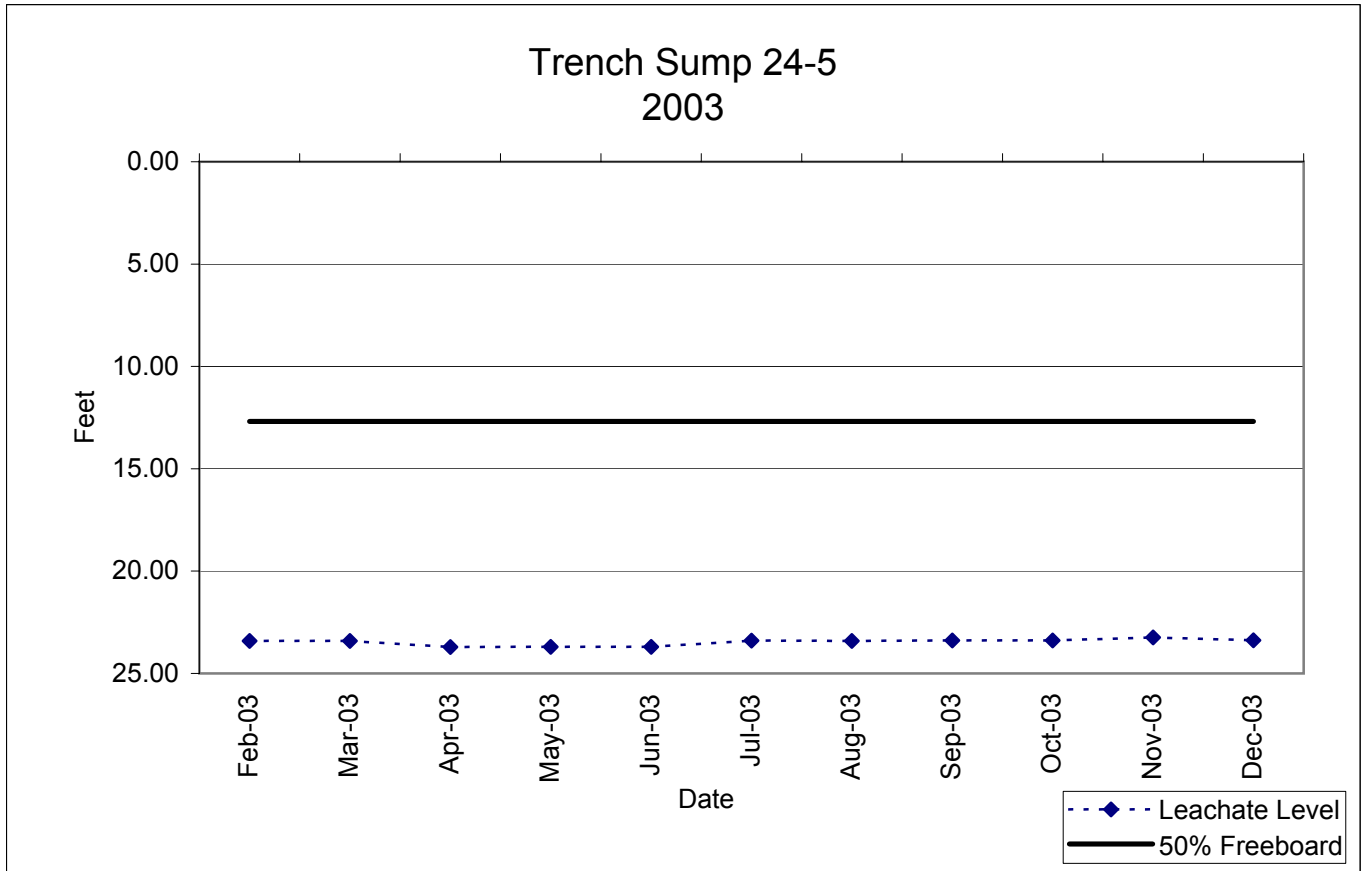
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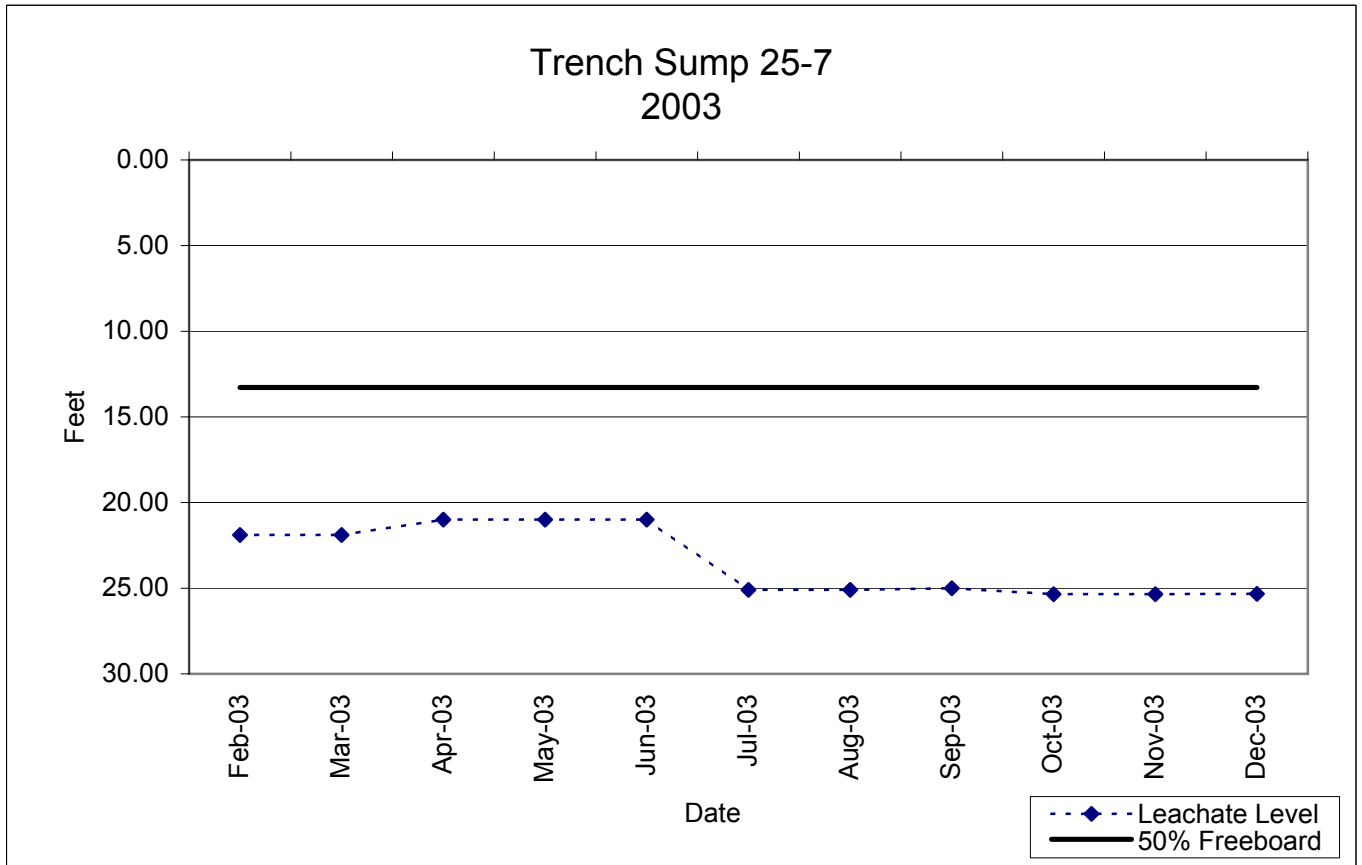
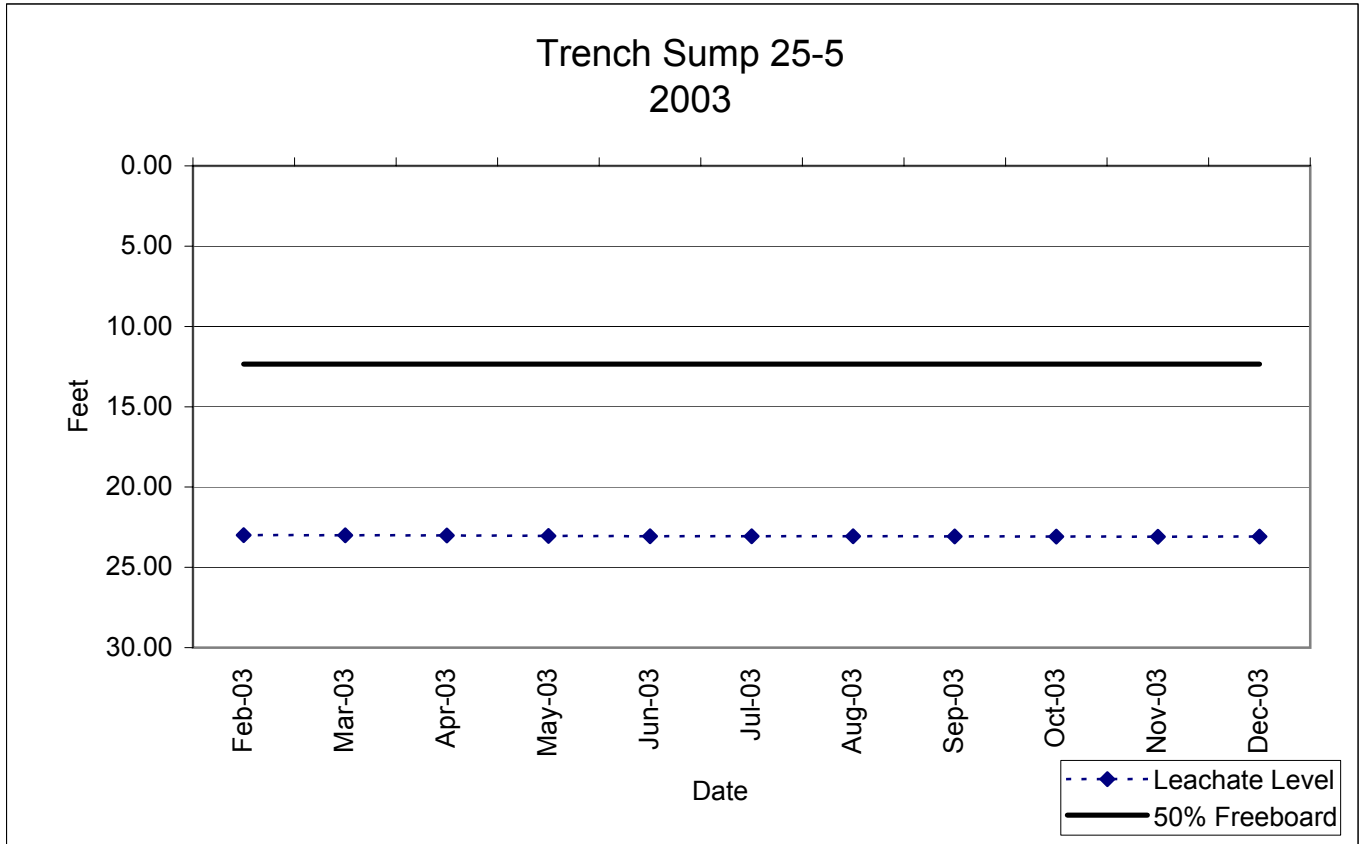
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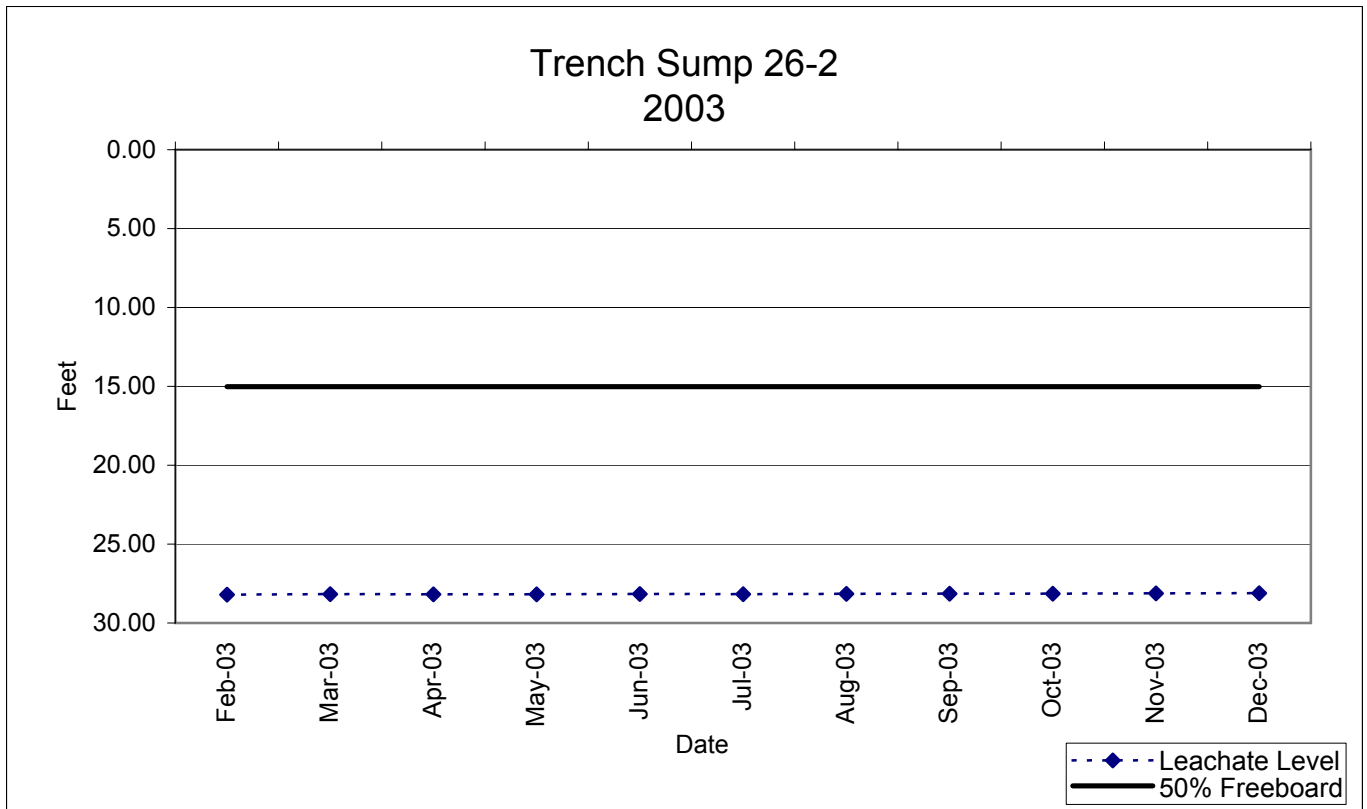
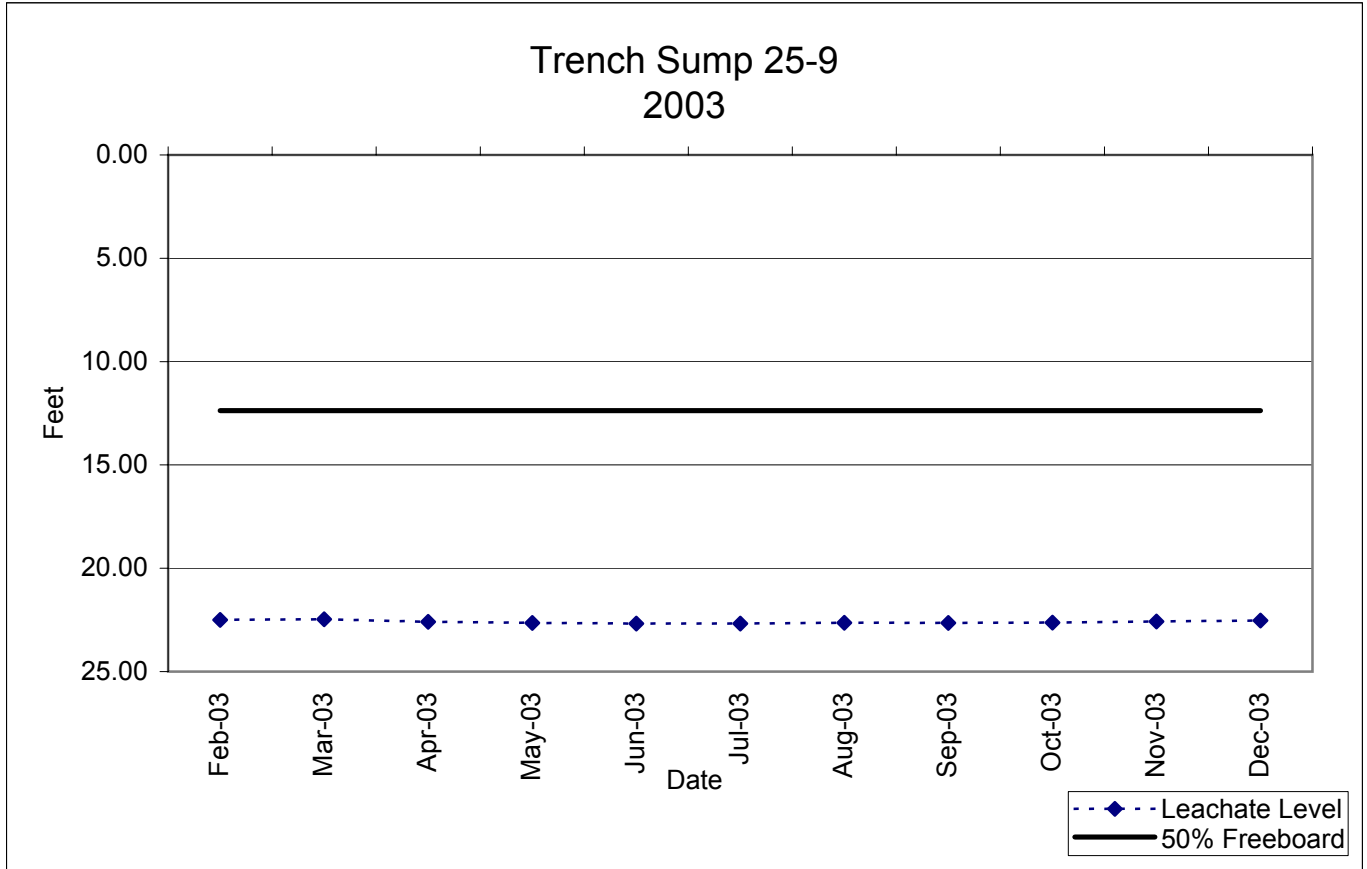
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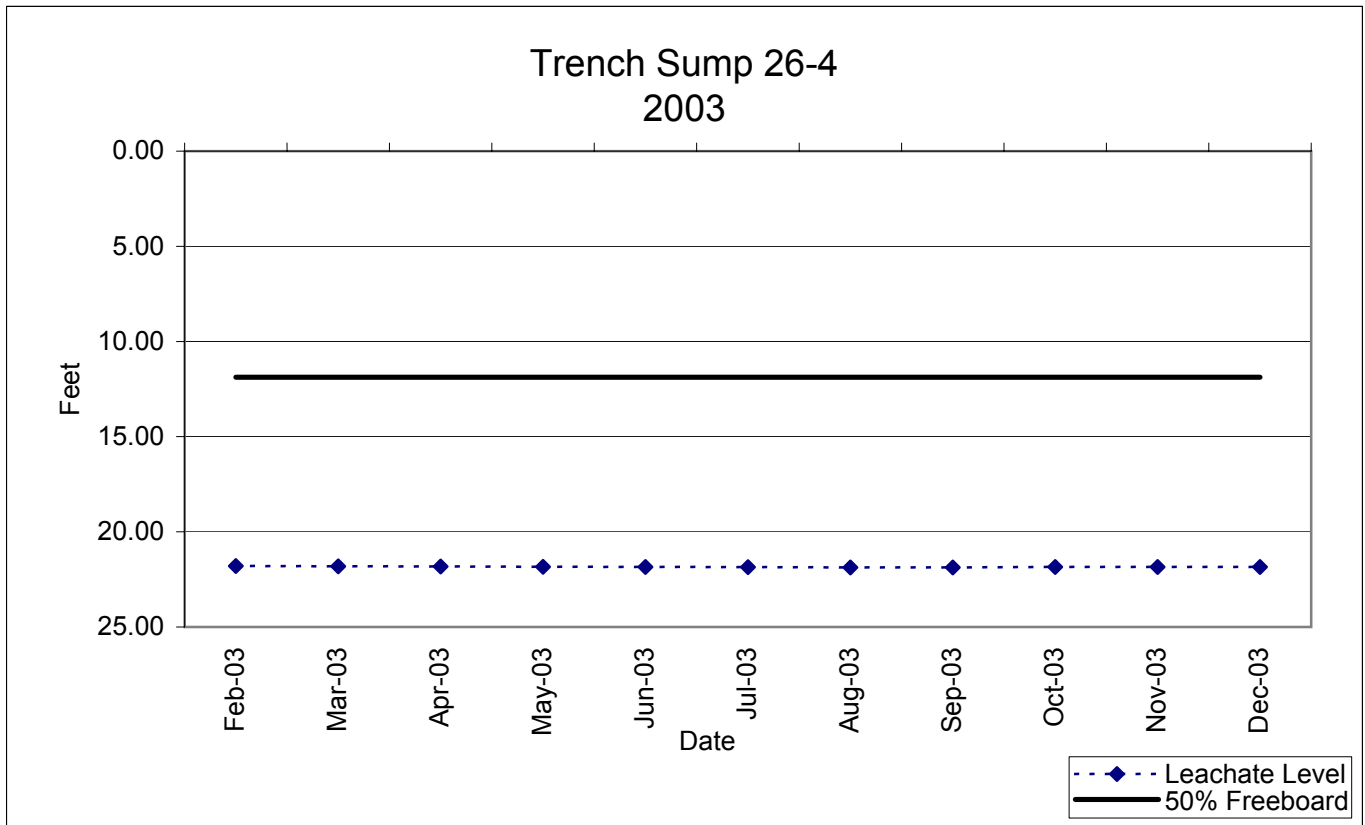
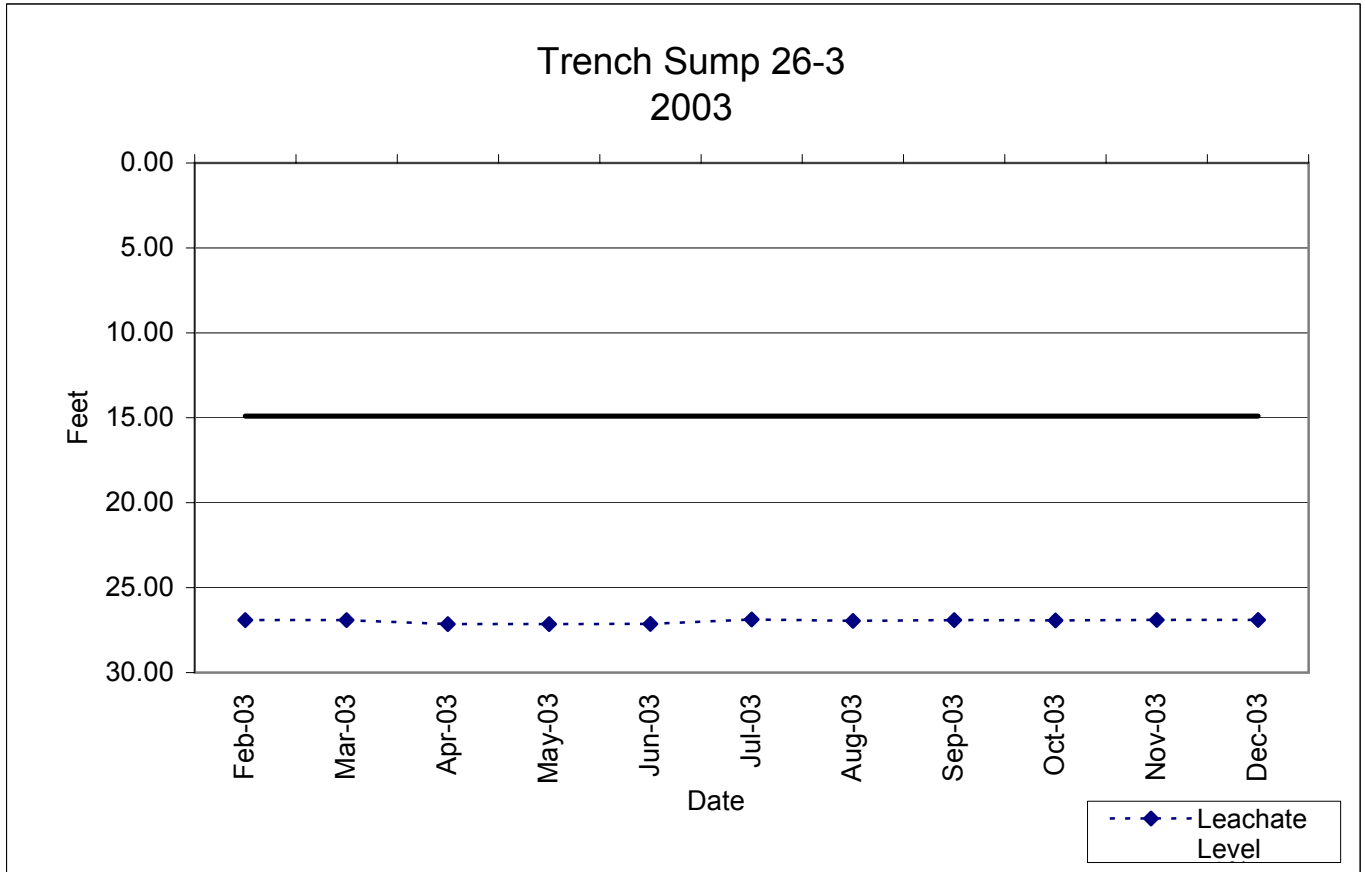
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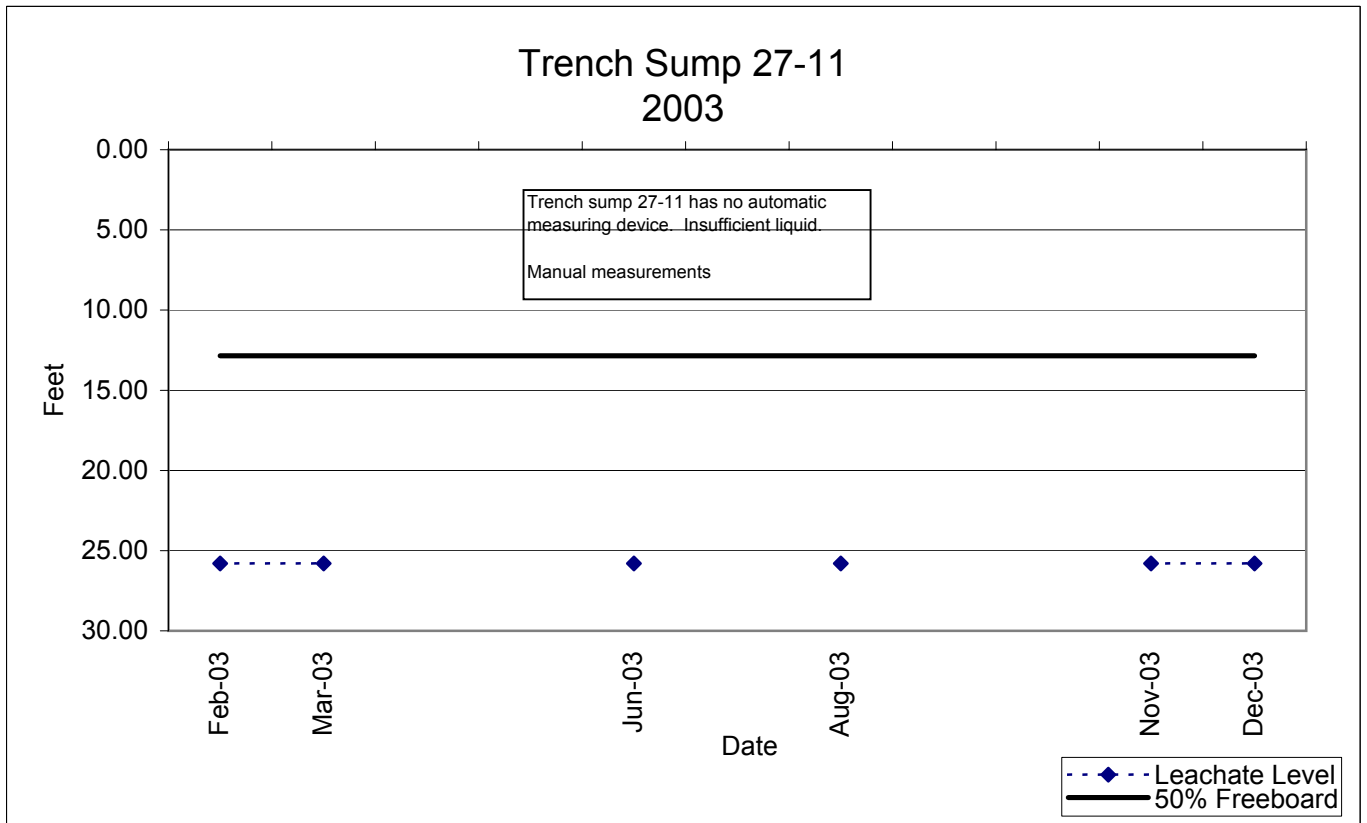
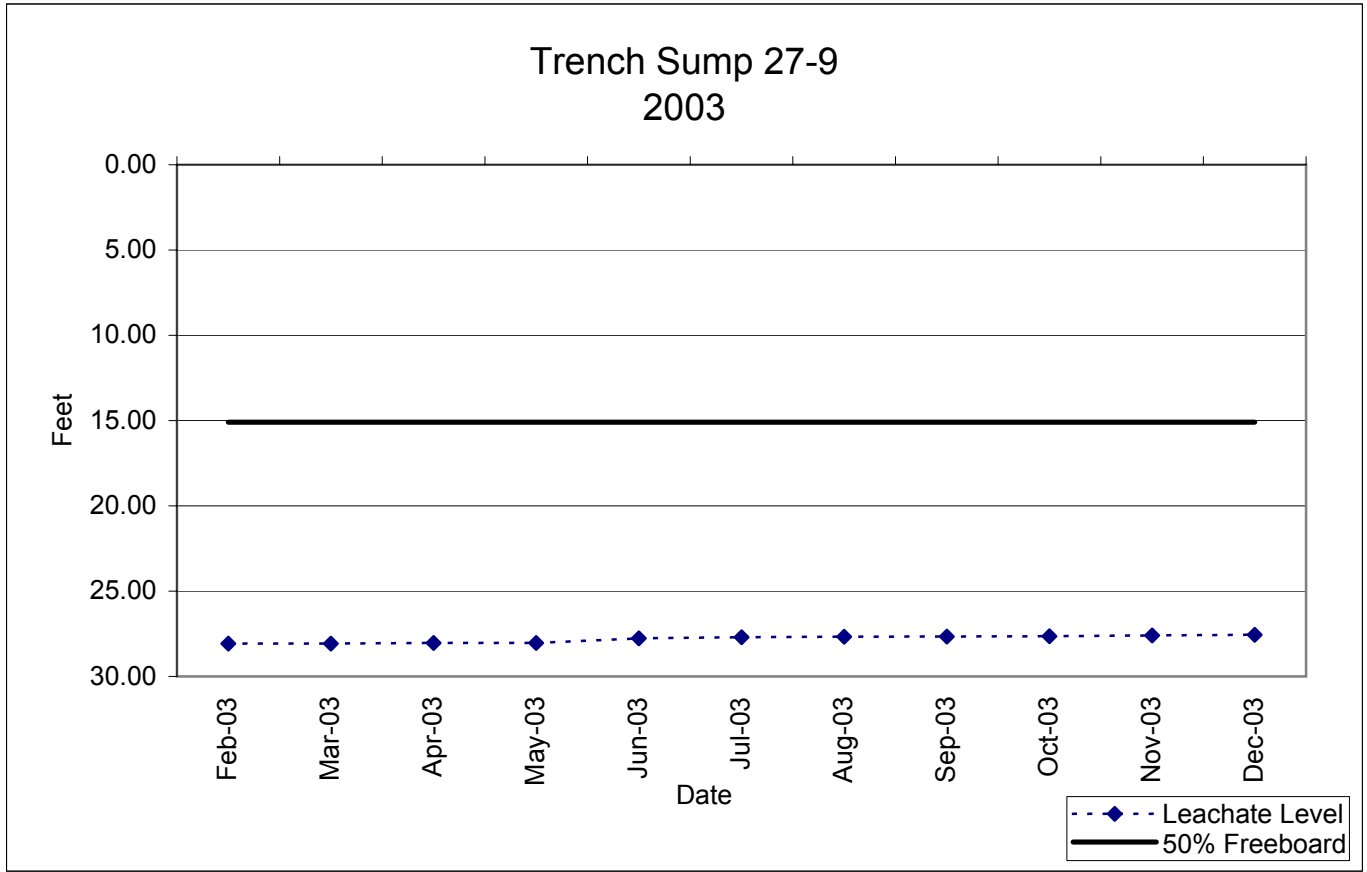


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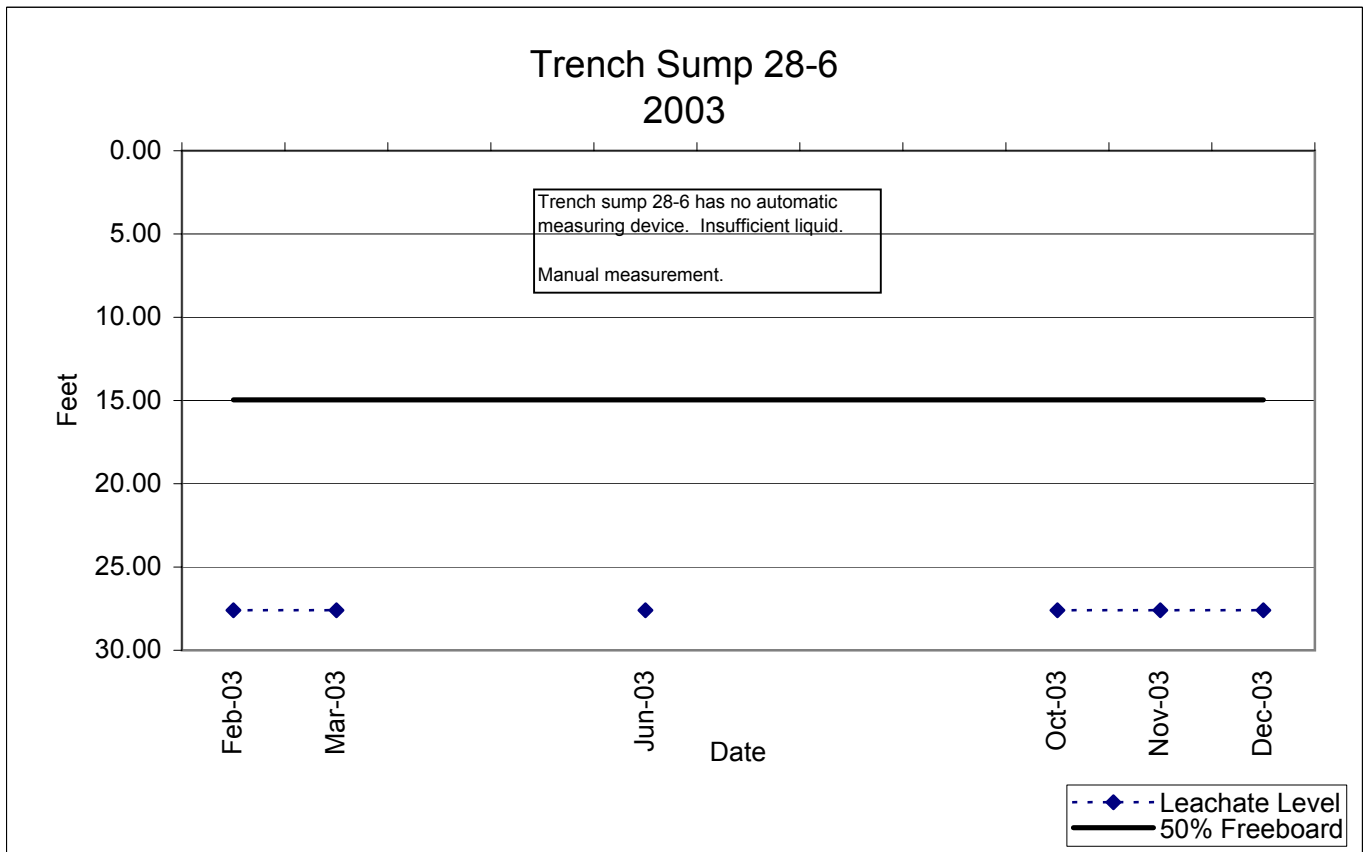
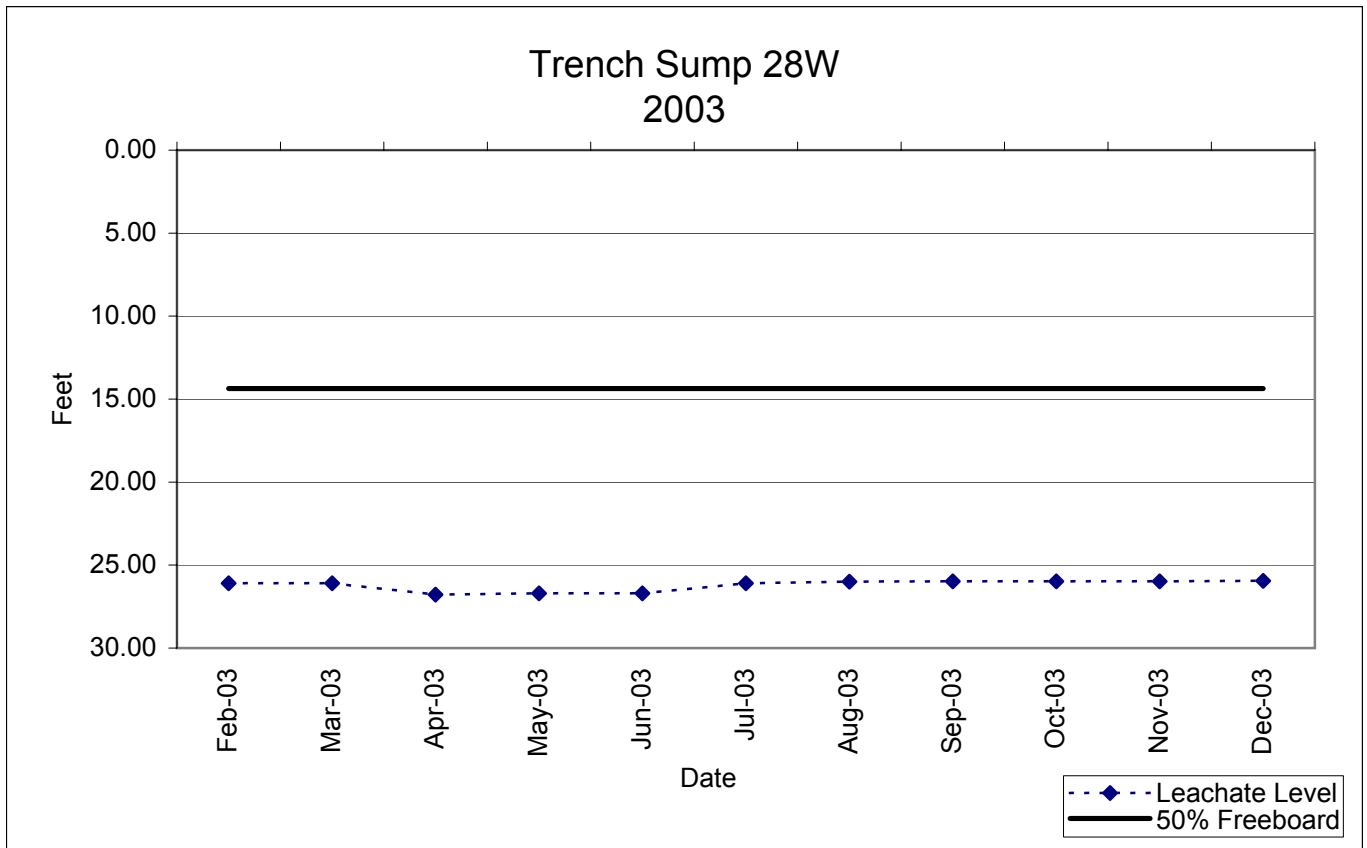




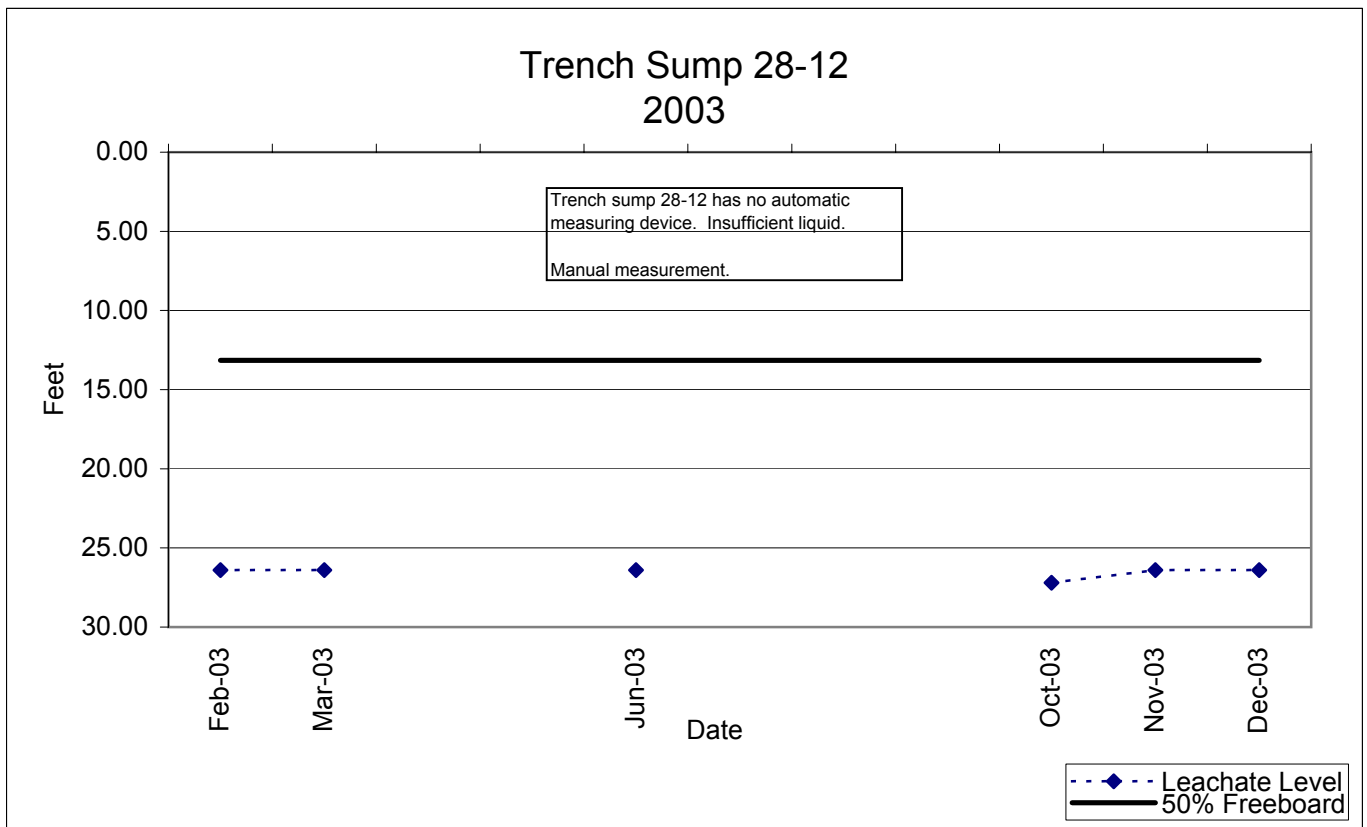
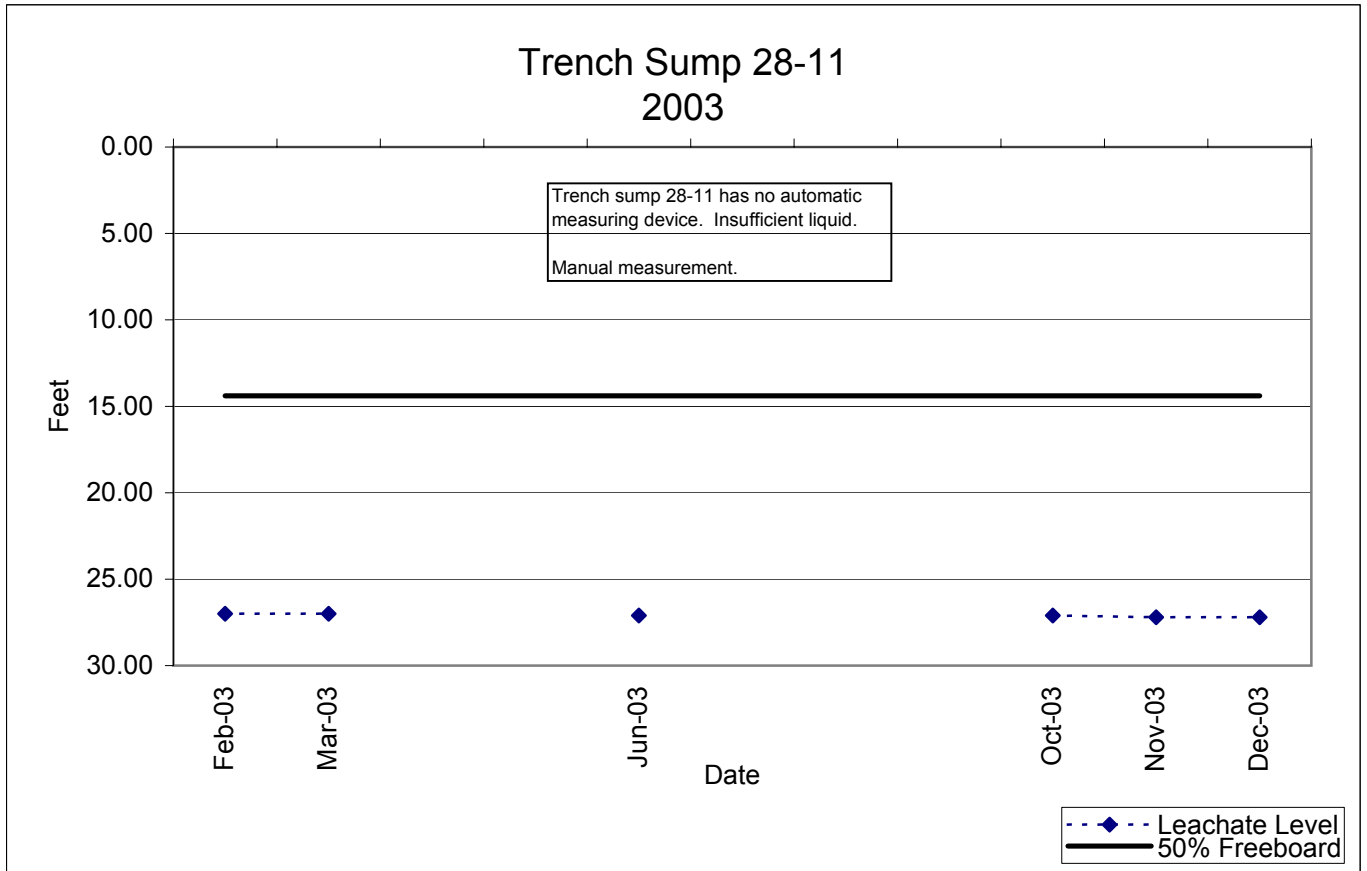
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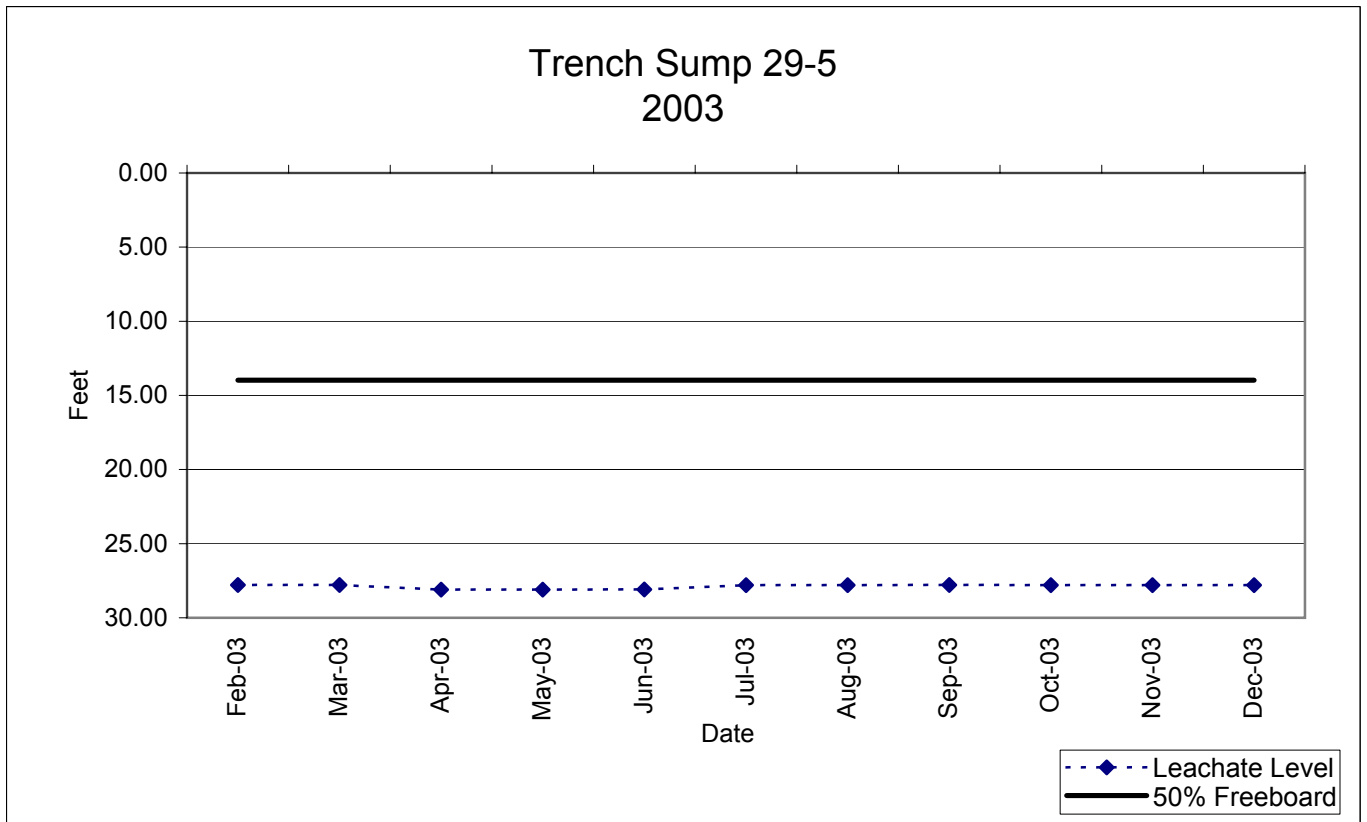
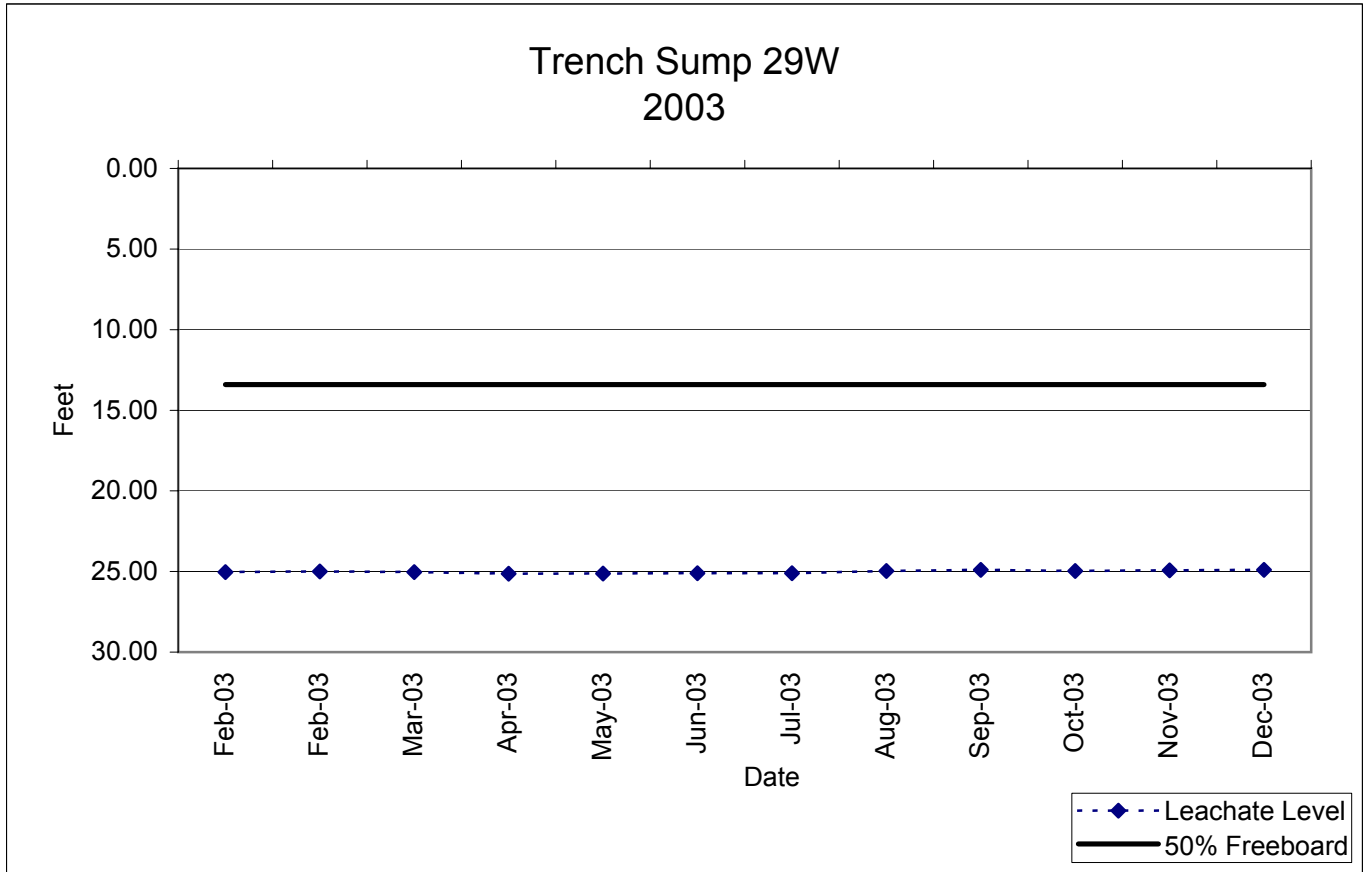
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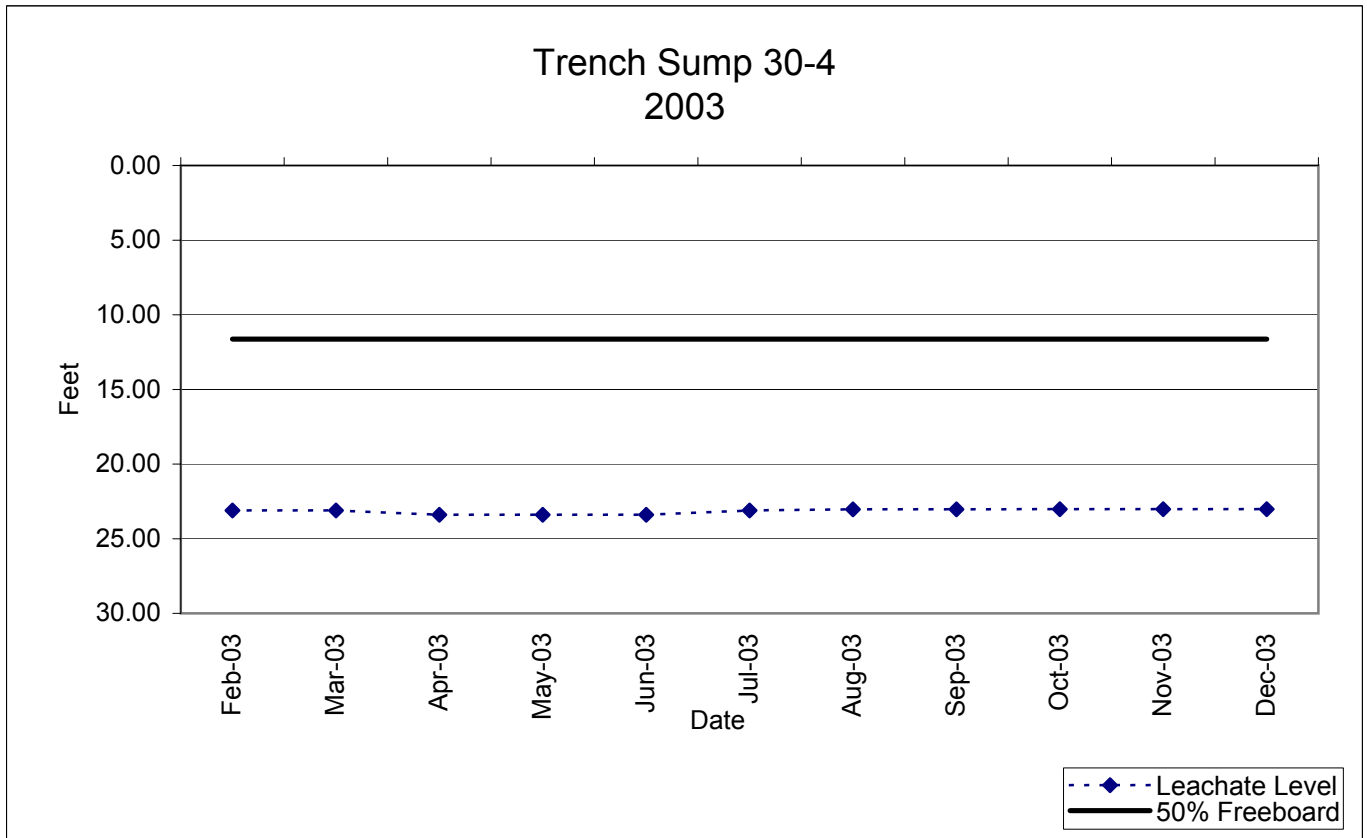
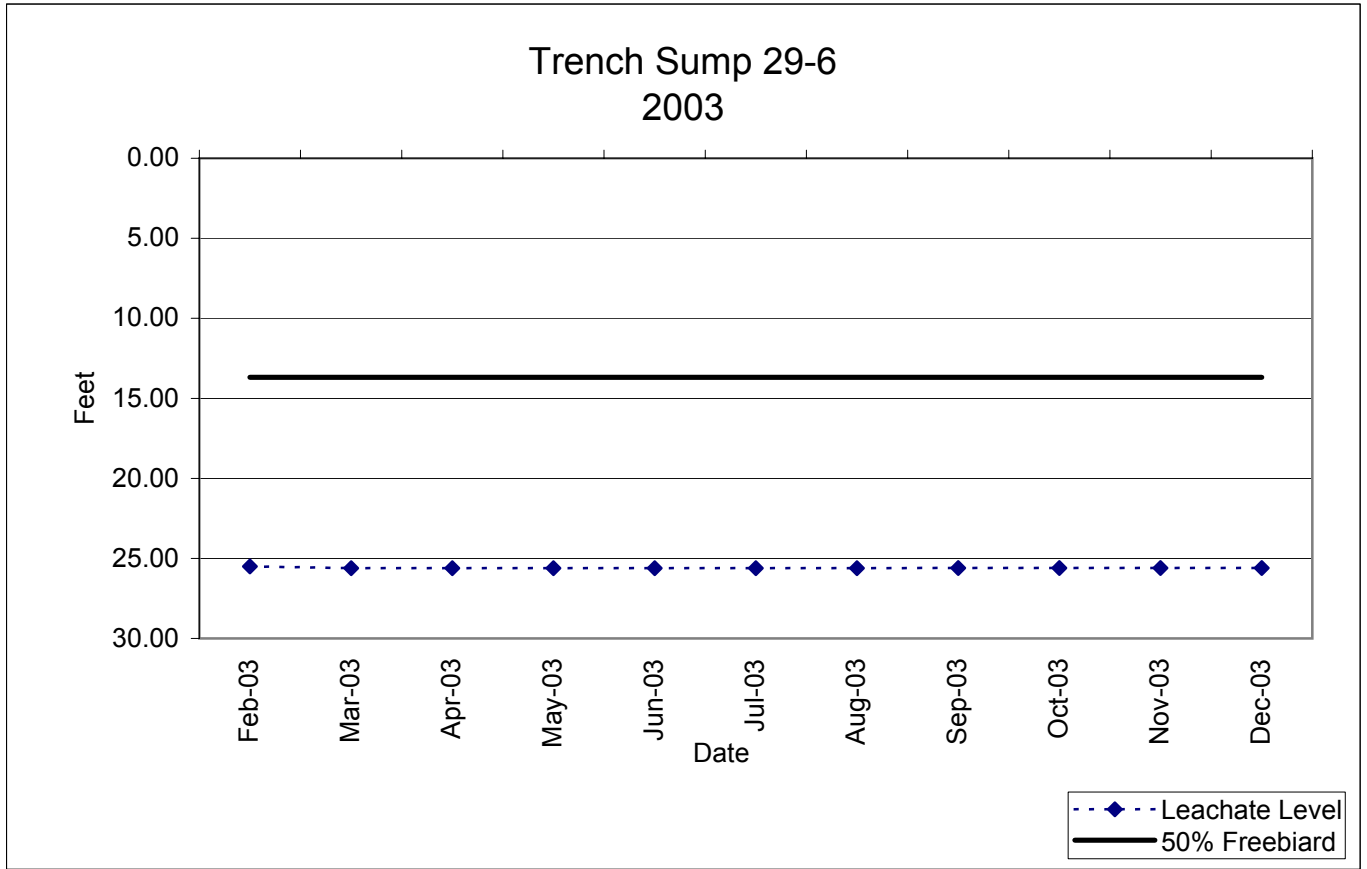
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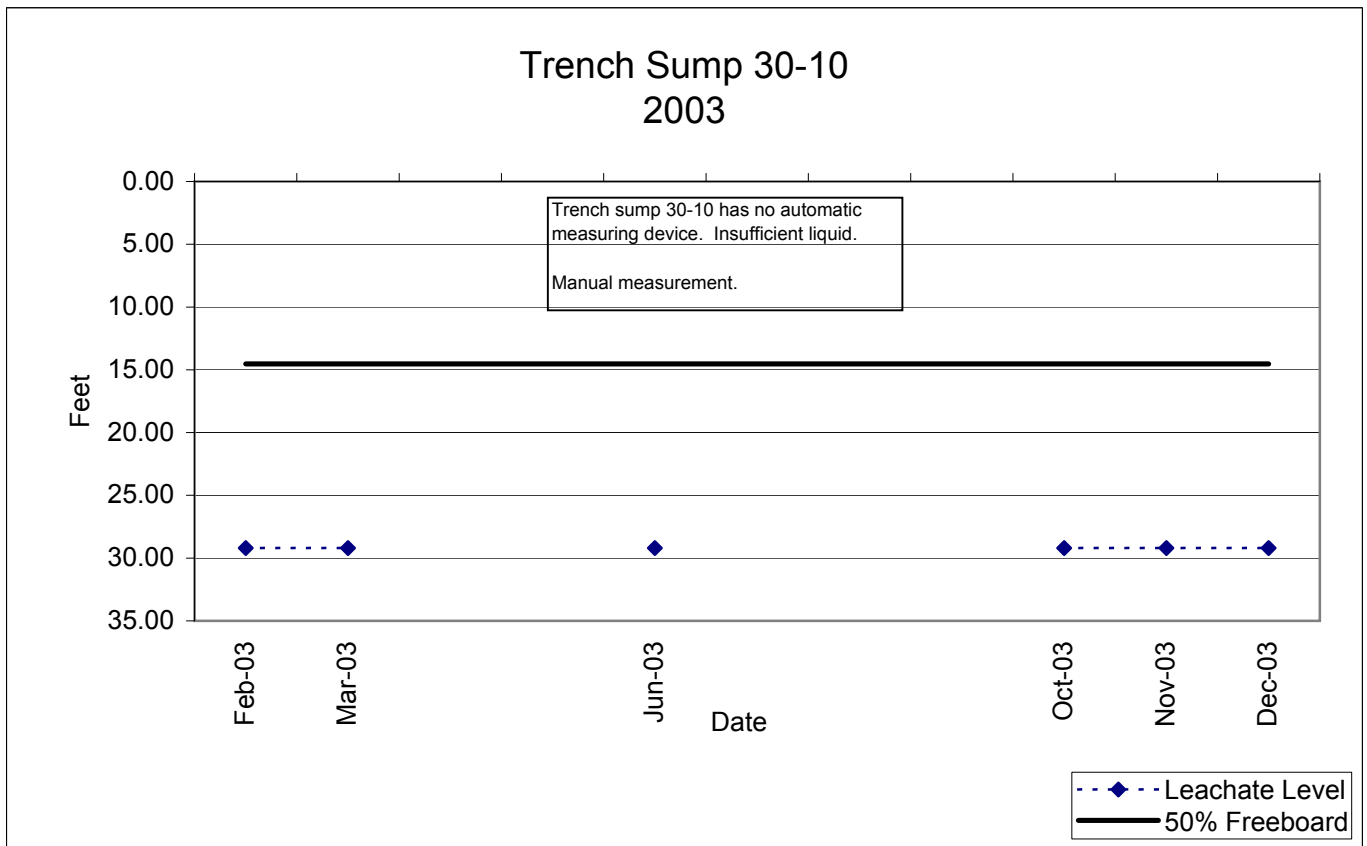
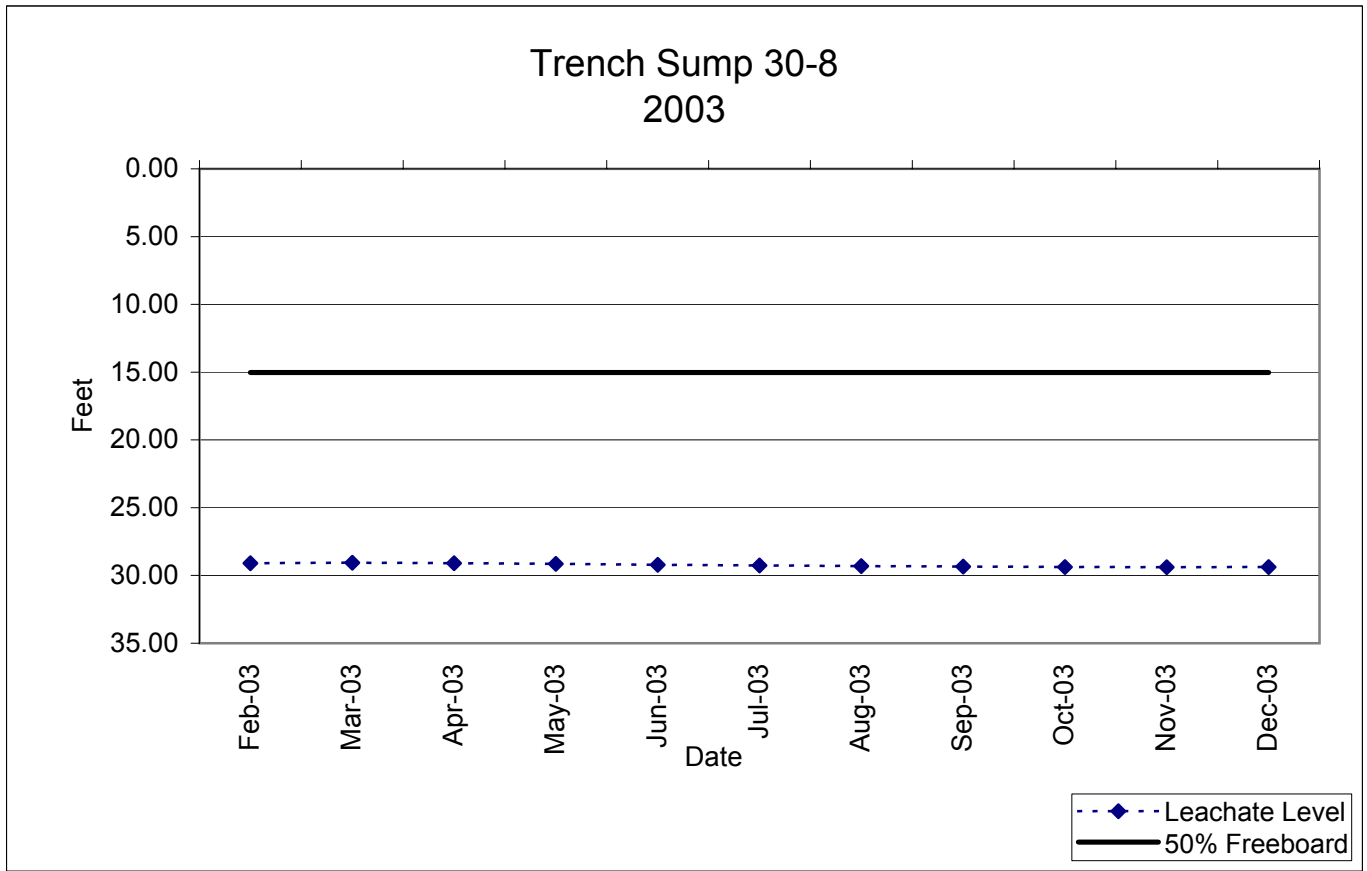
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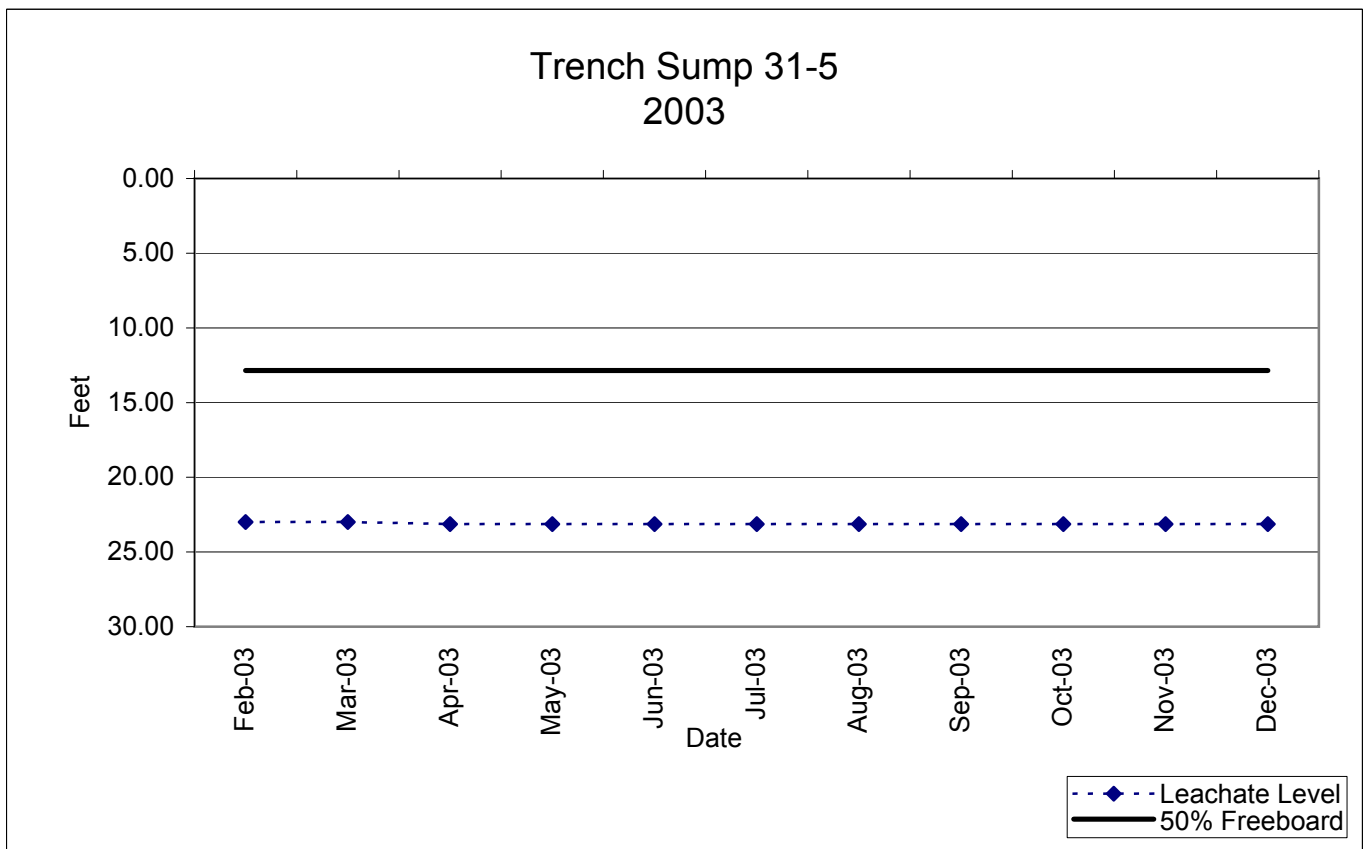
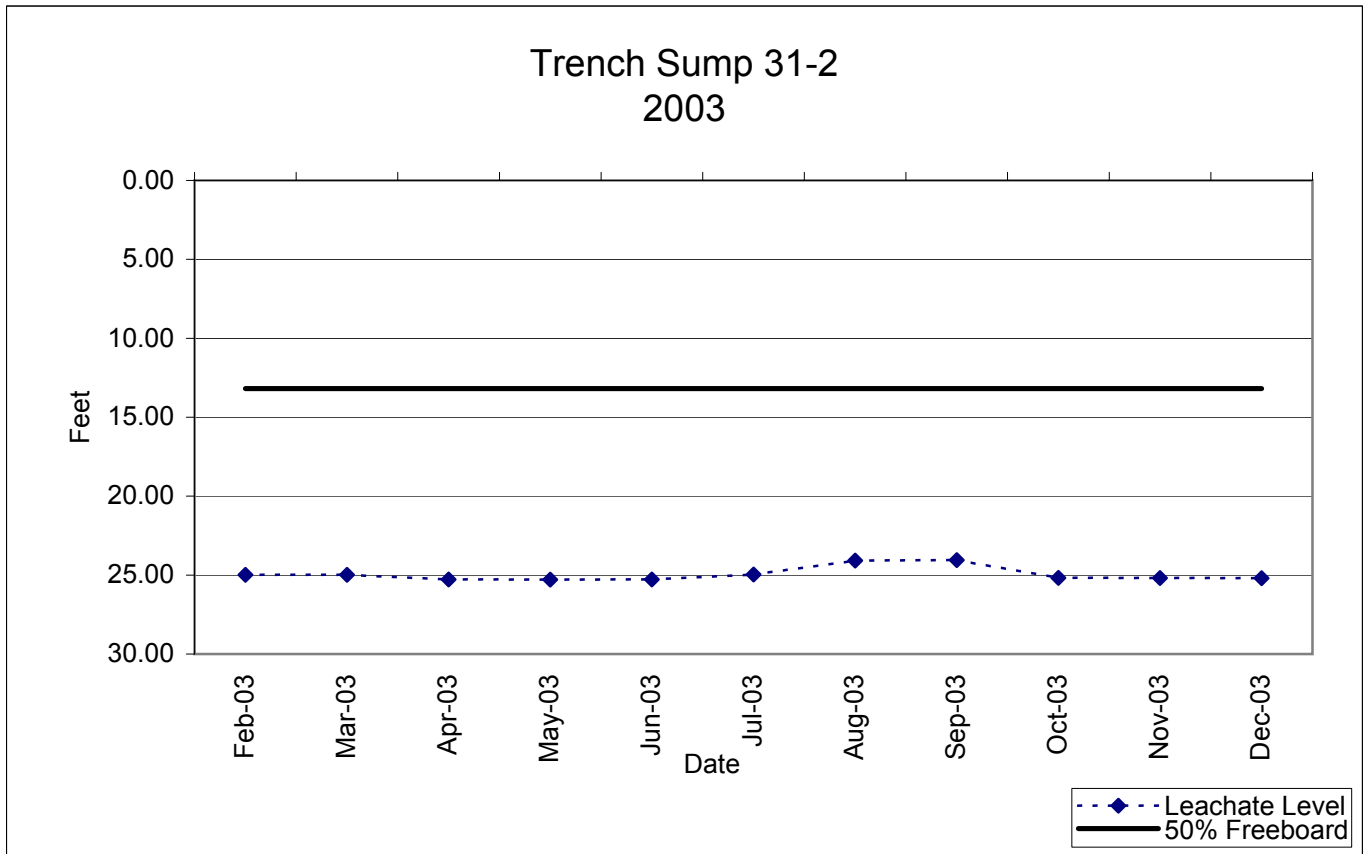
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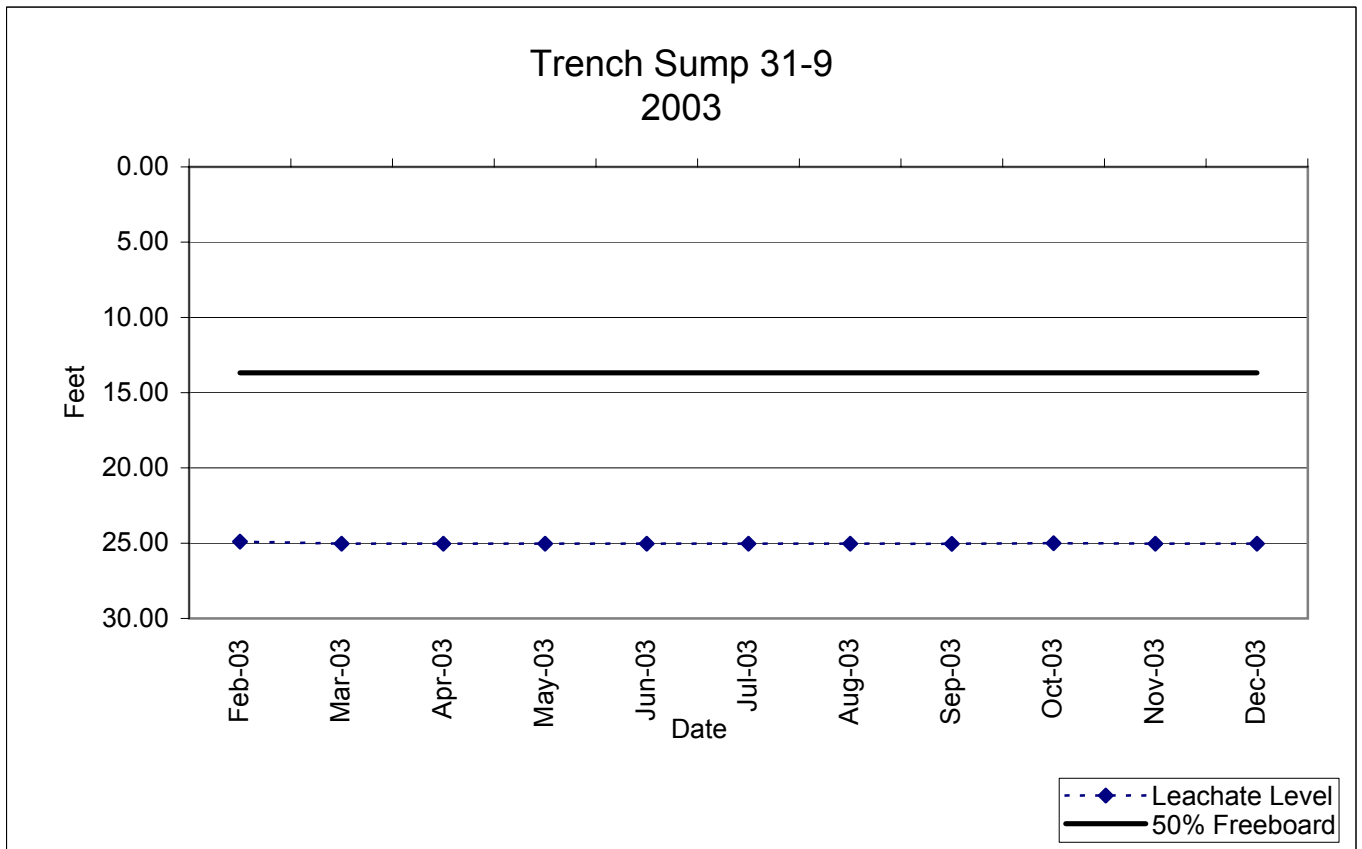
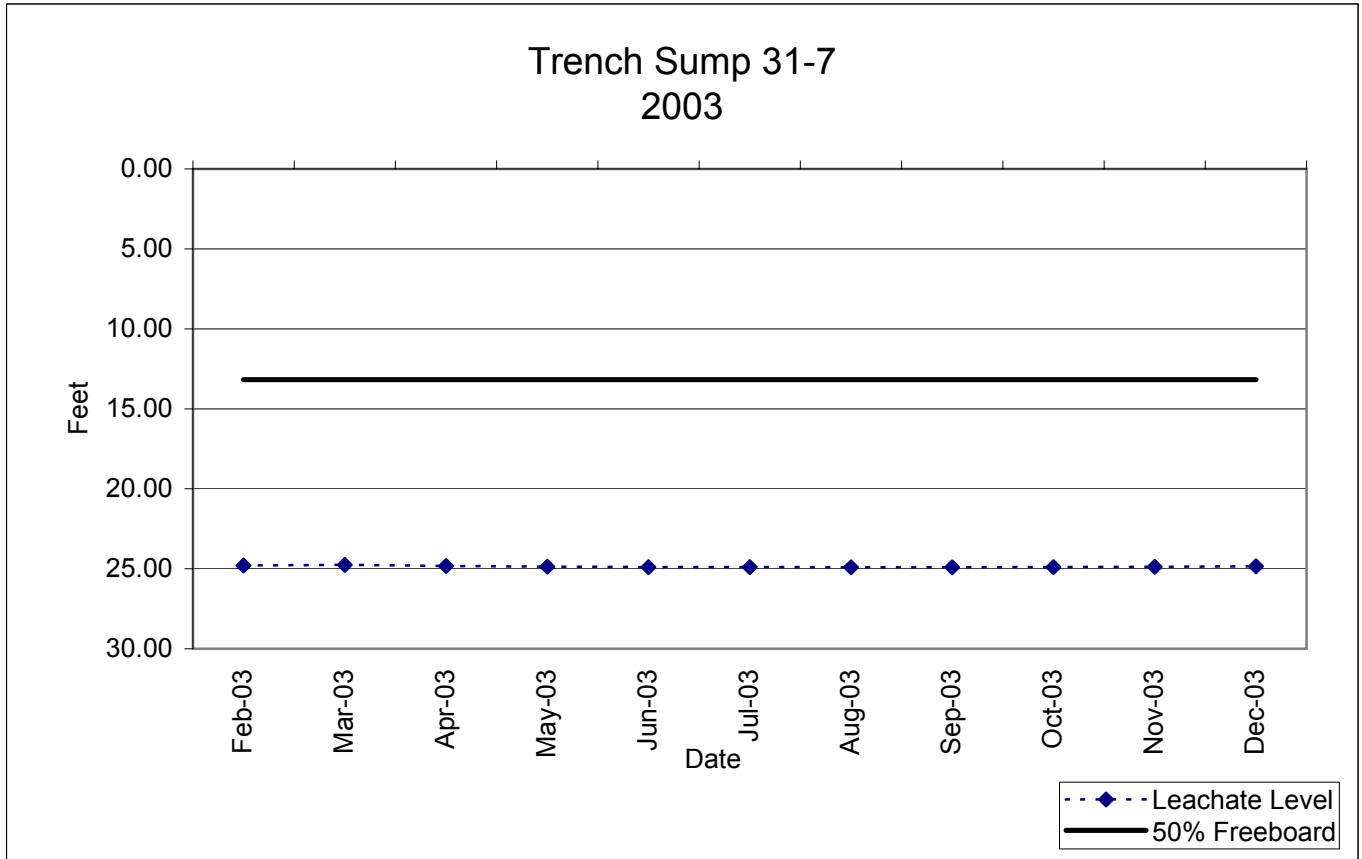
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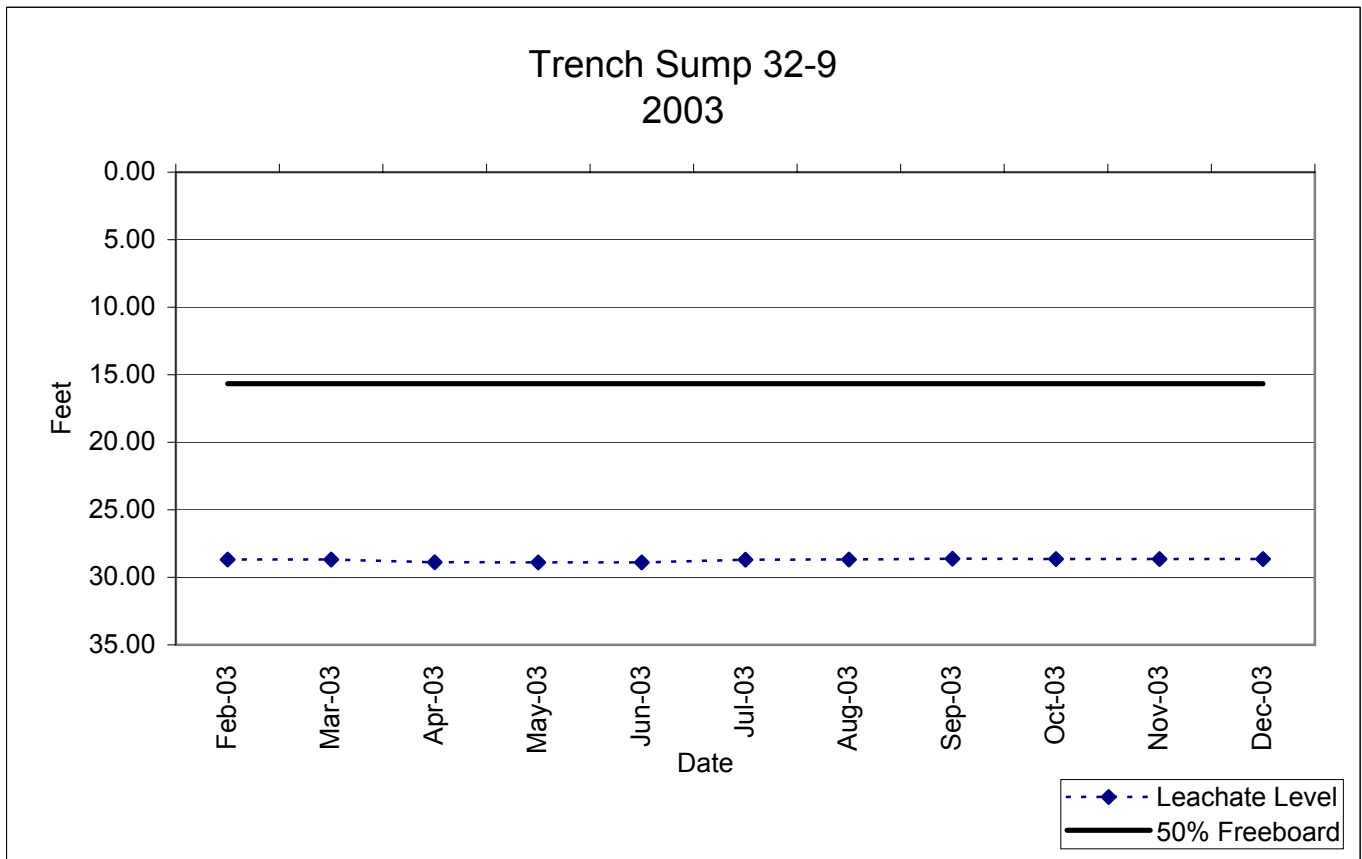
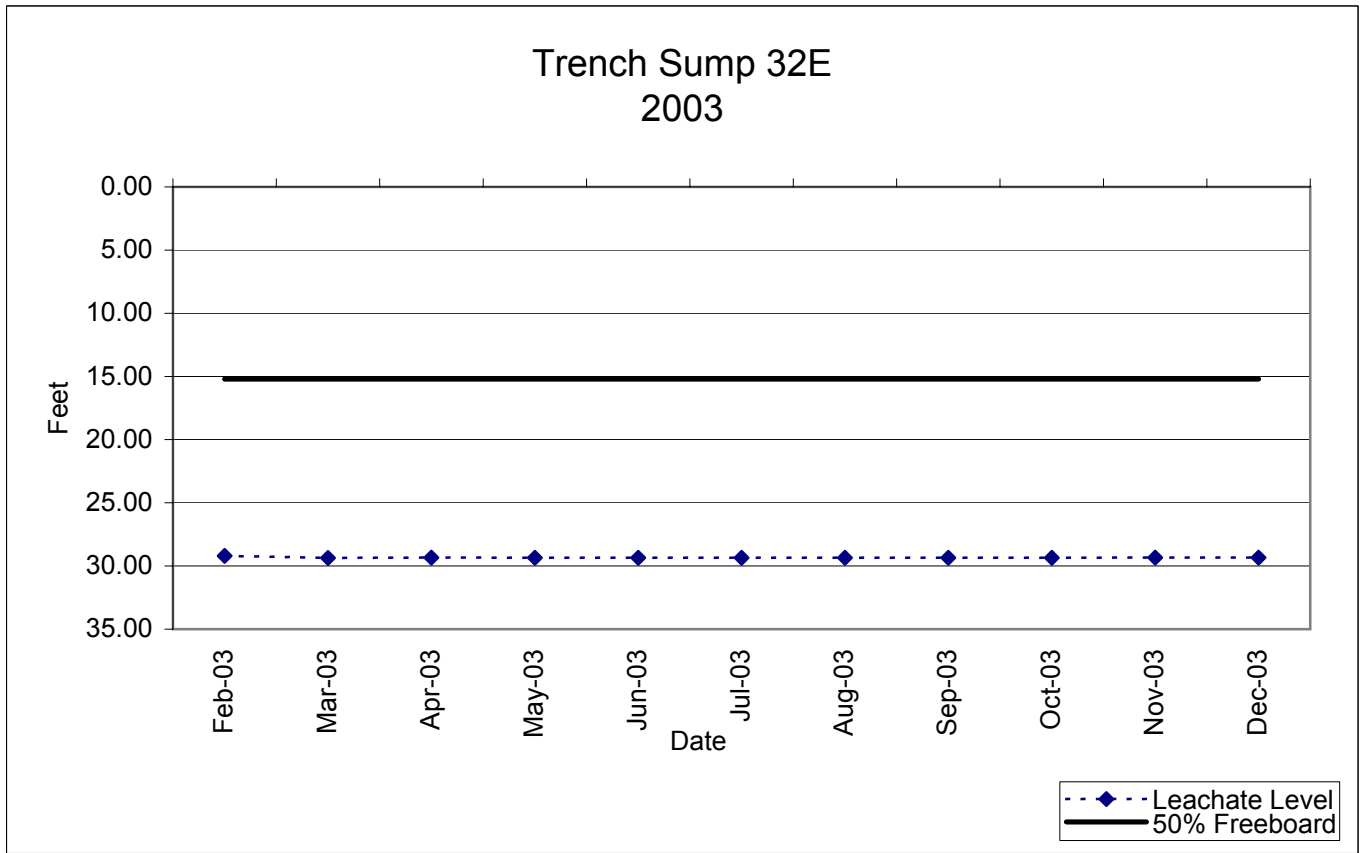


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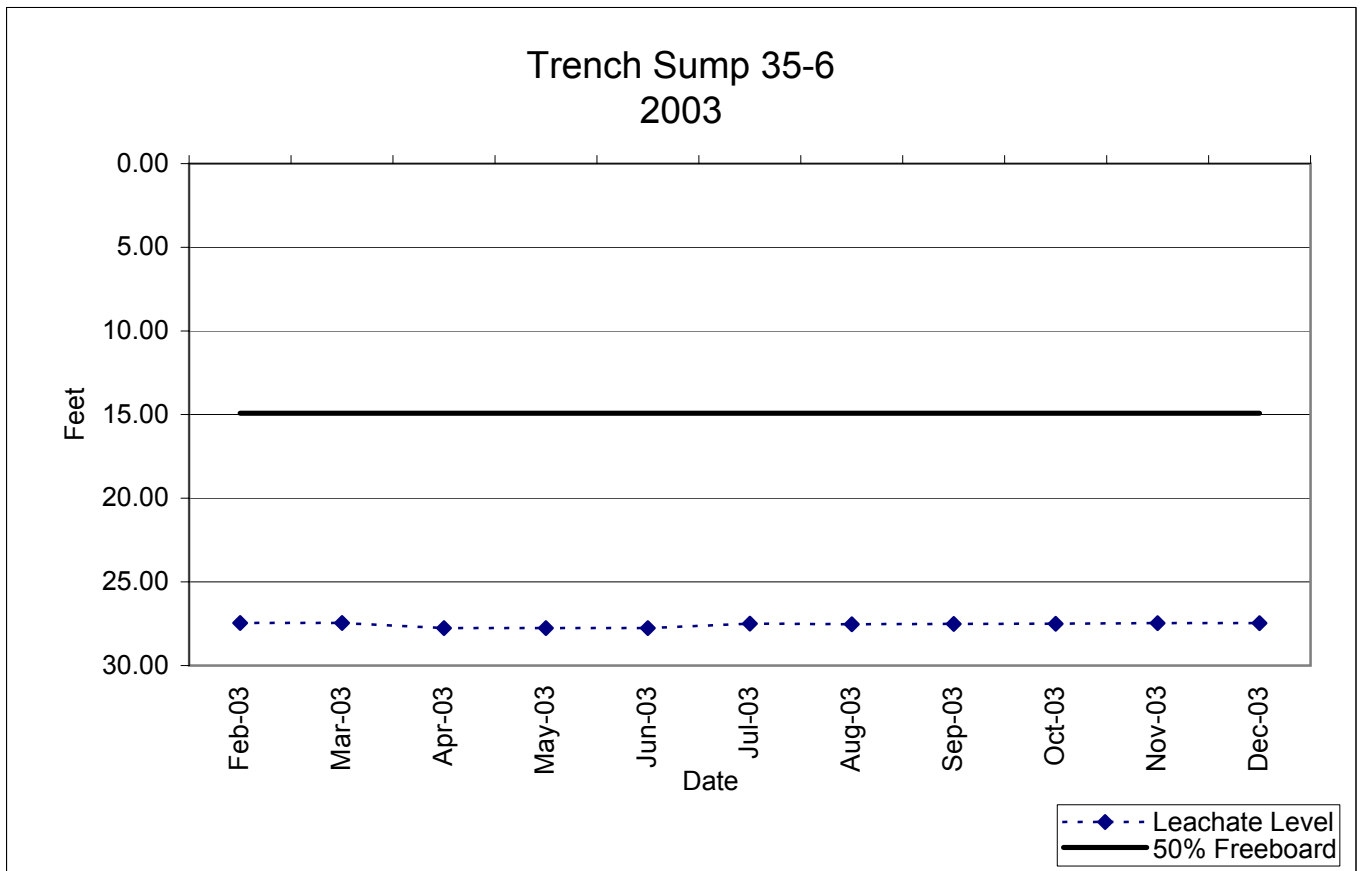
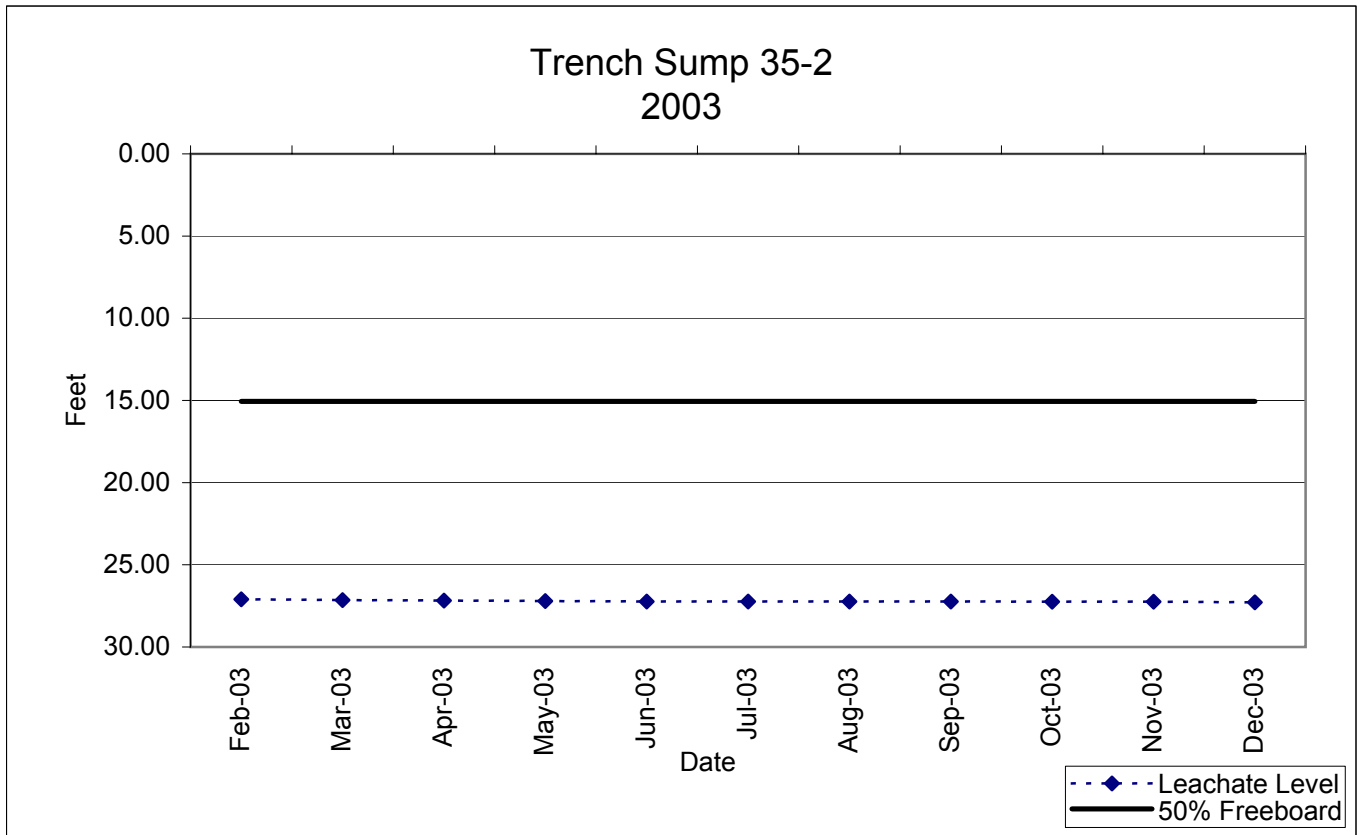




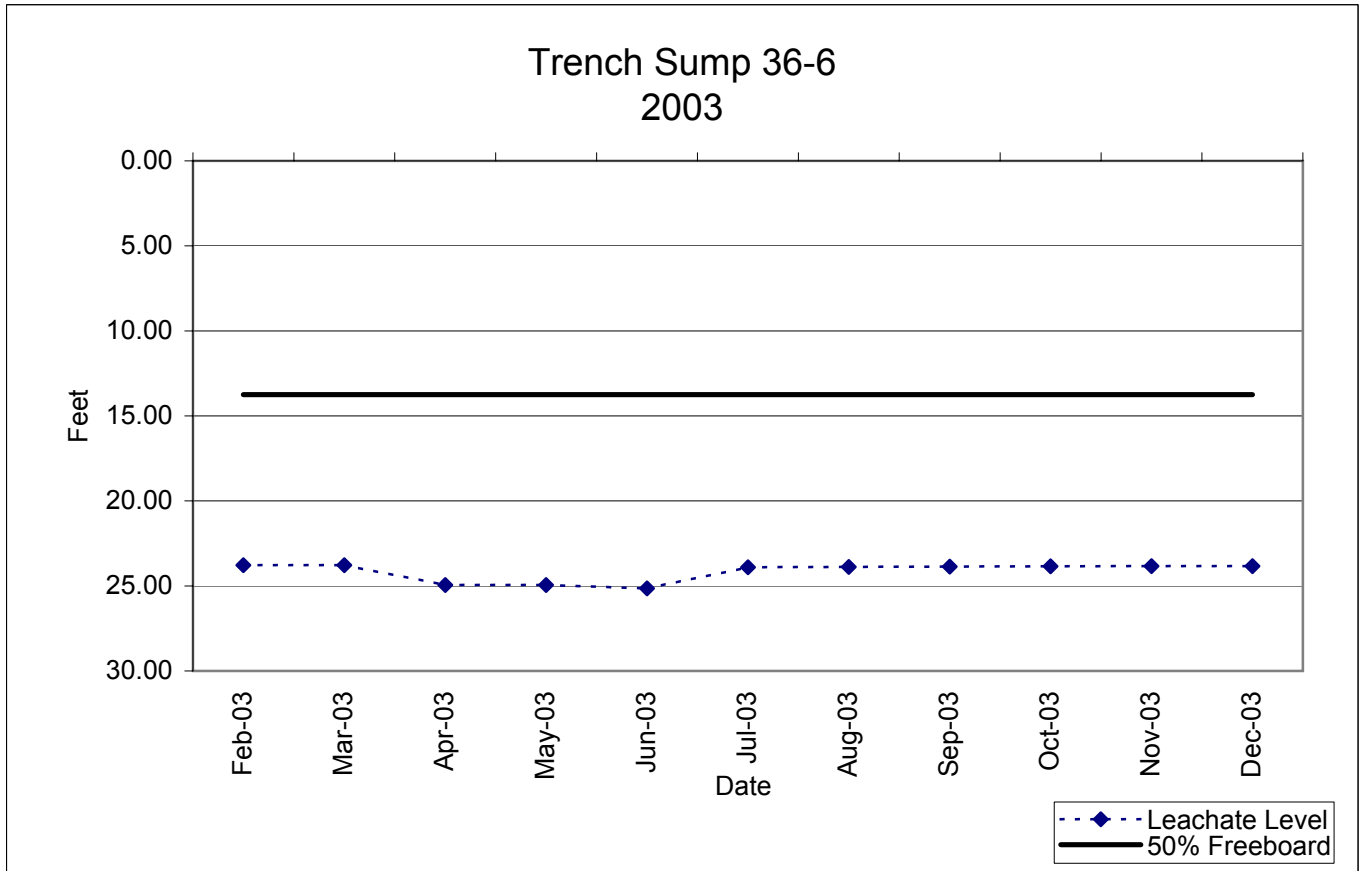
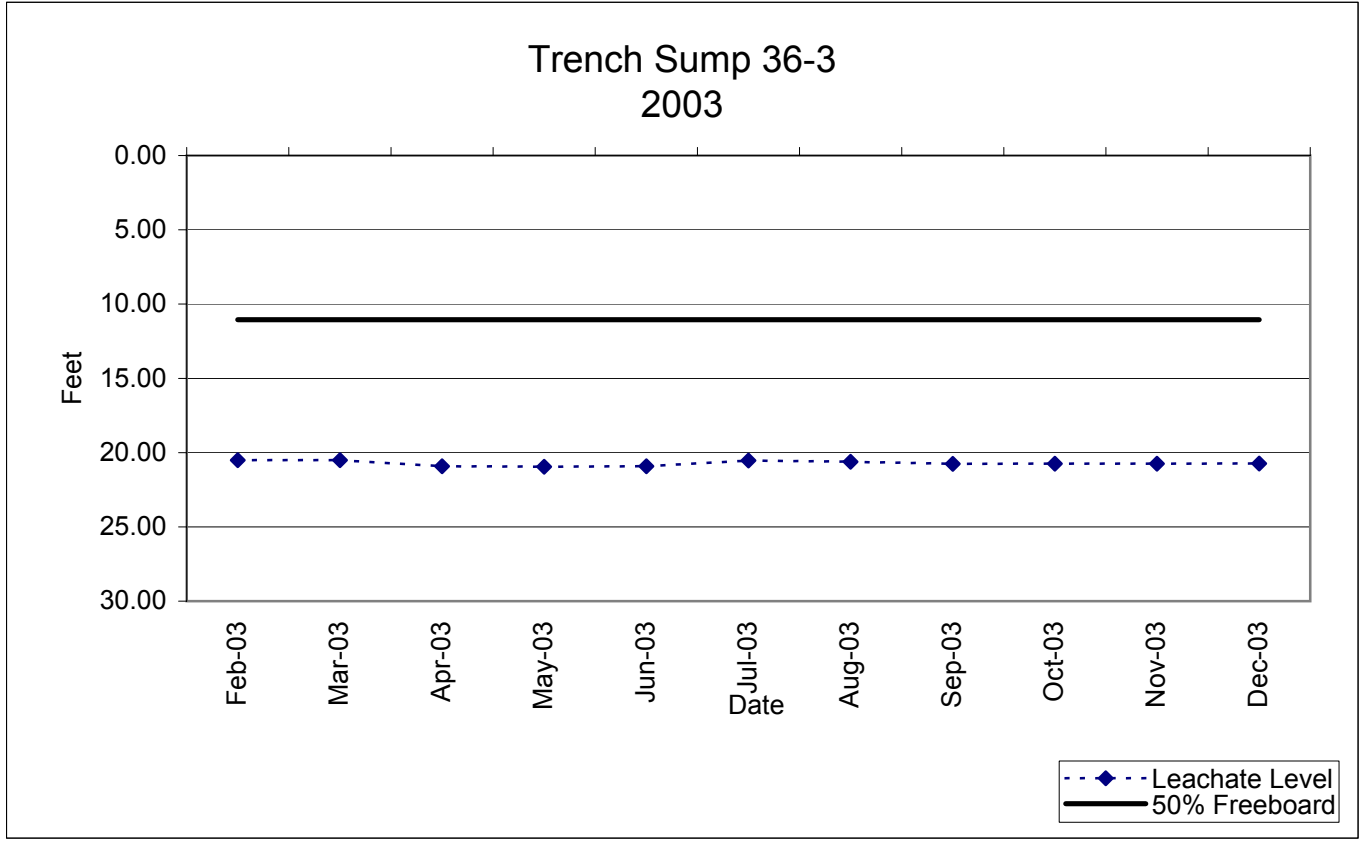
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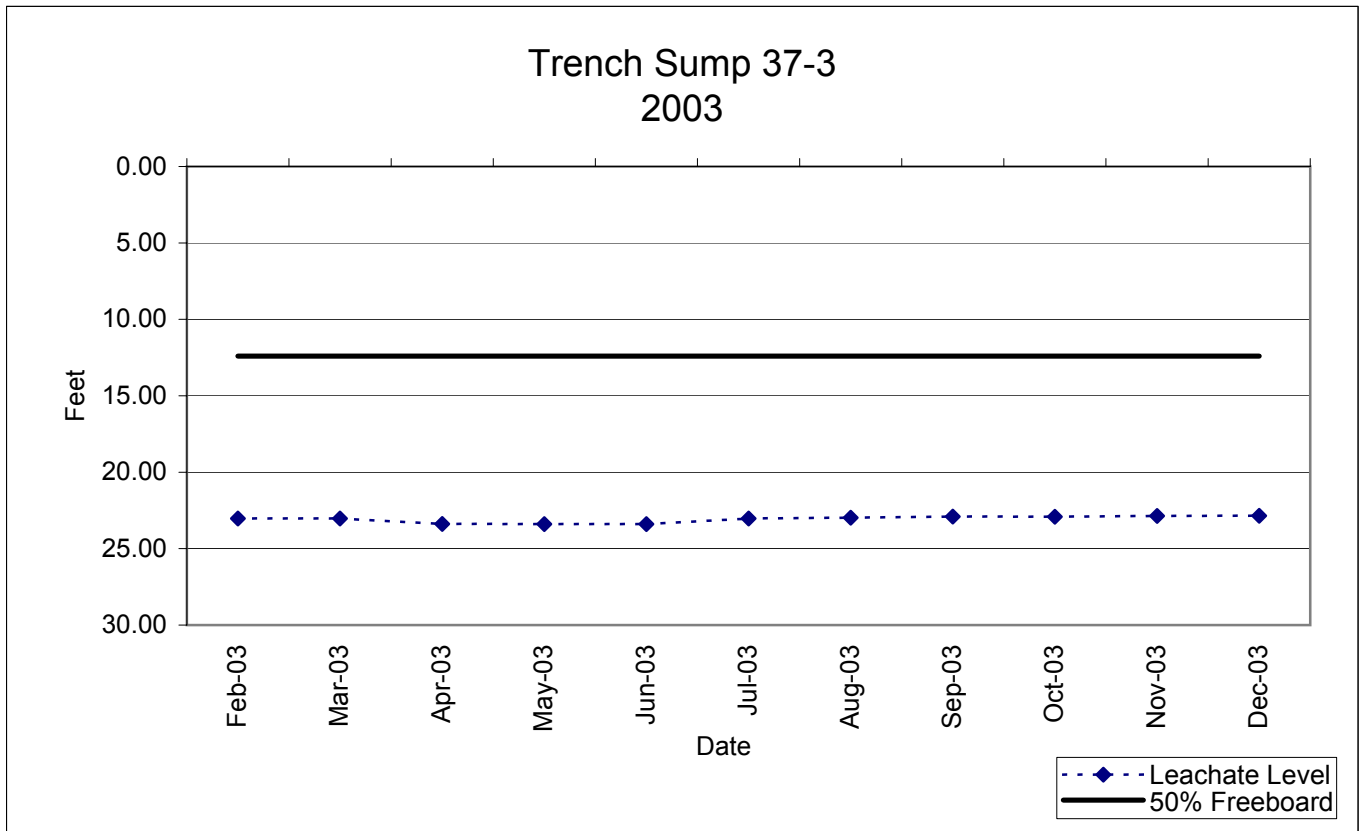
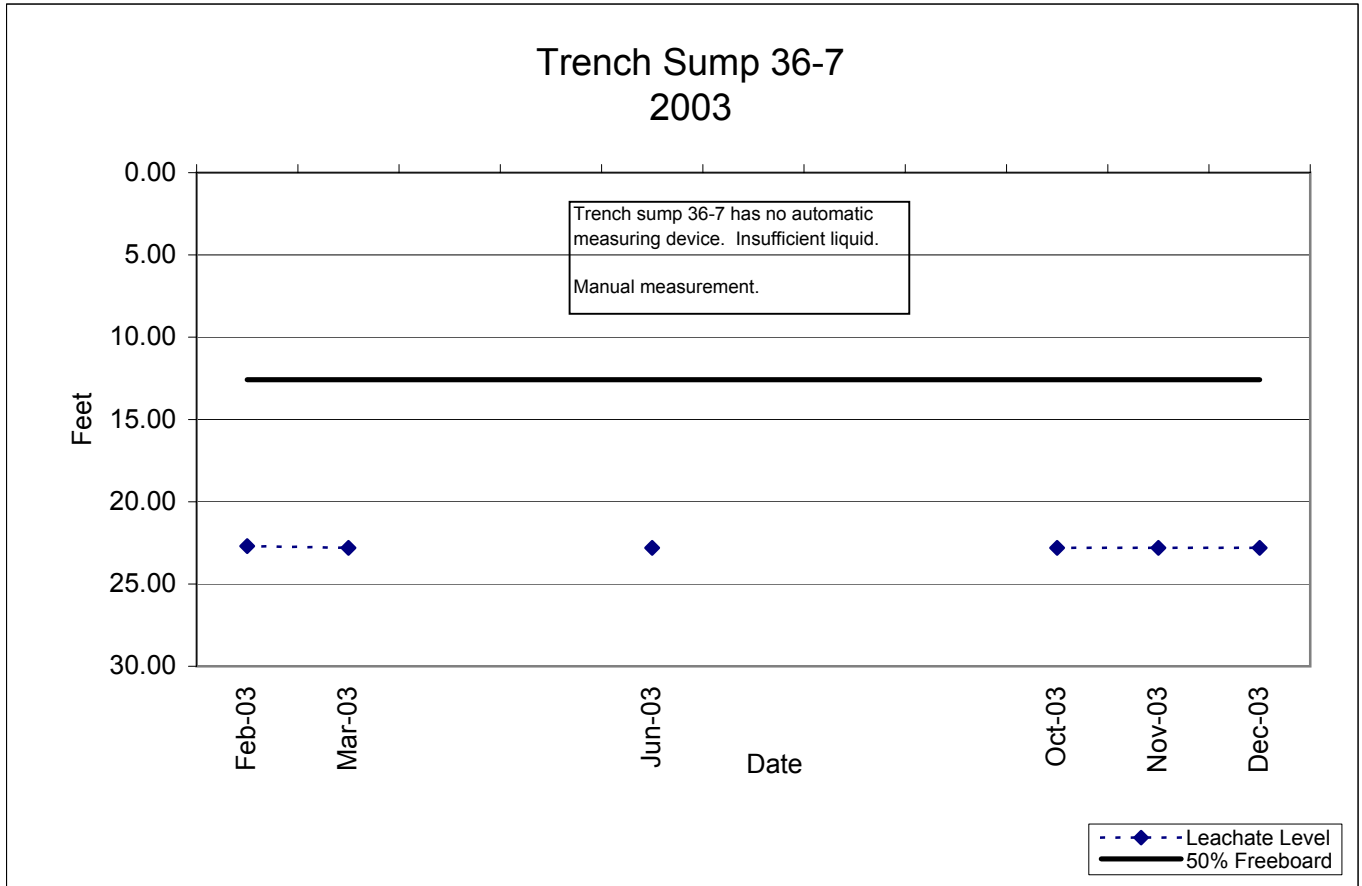
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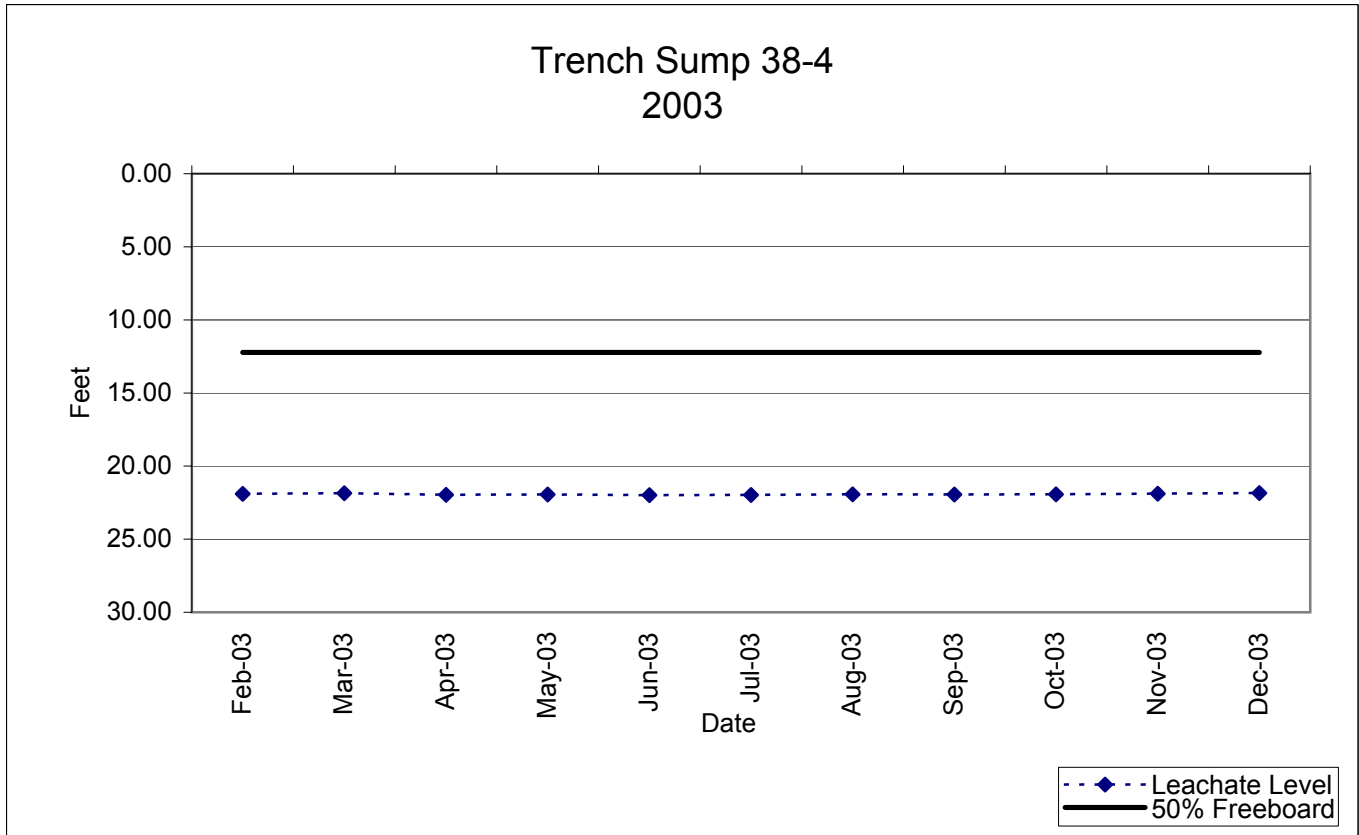
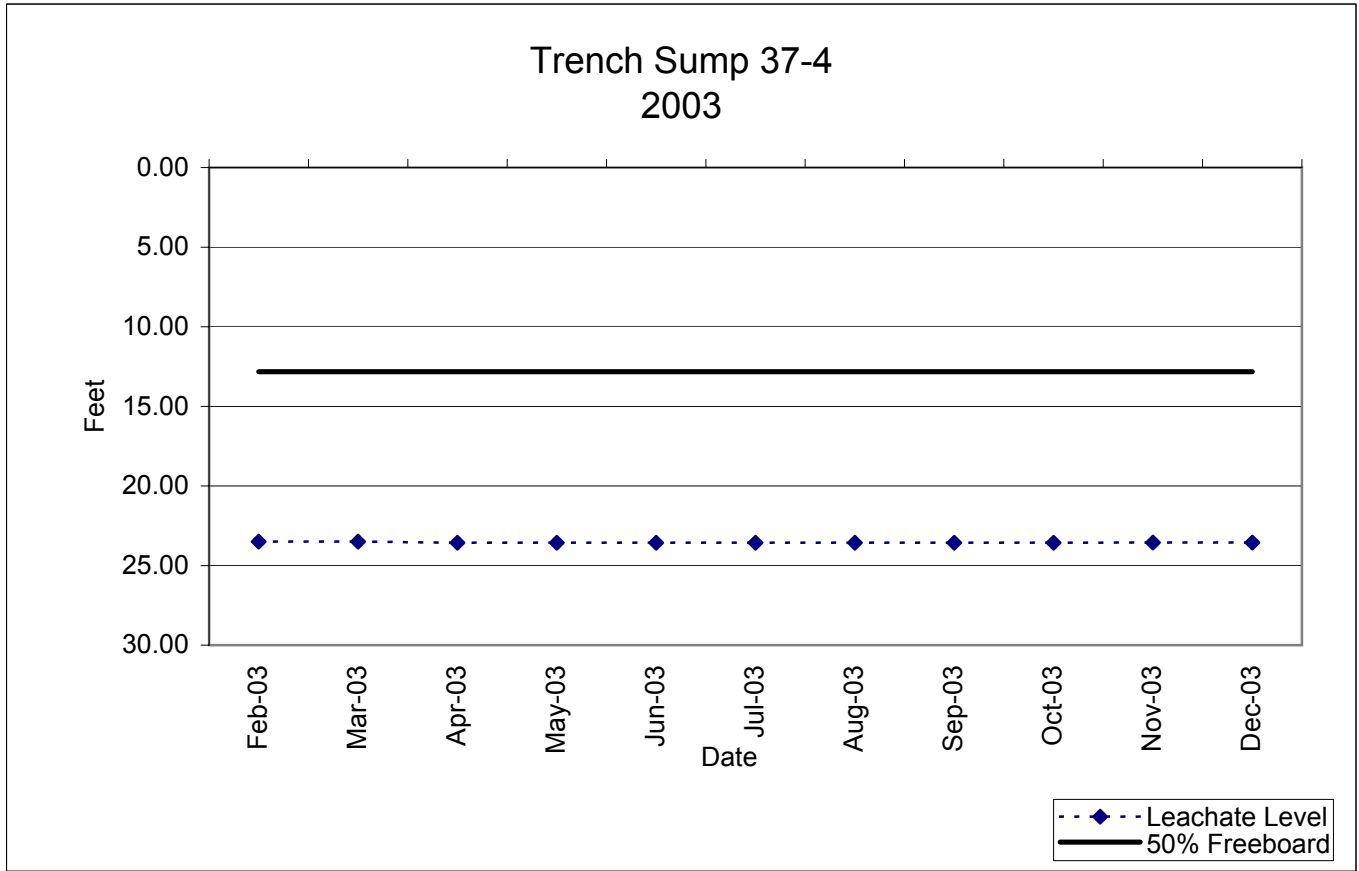
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 Maxey Flats Disposal Site  
 2003



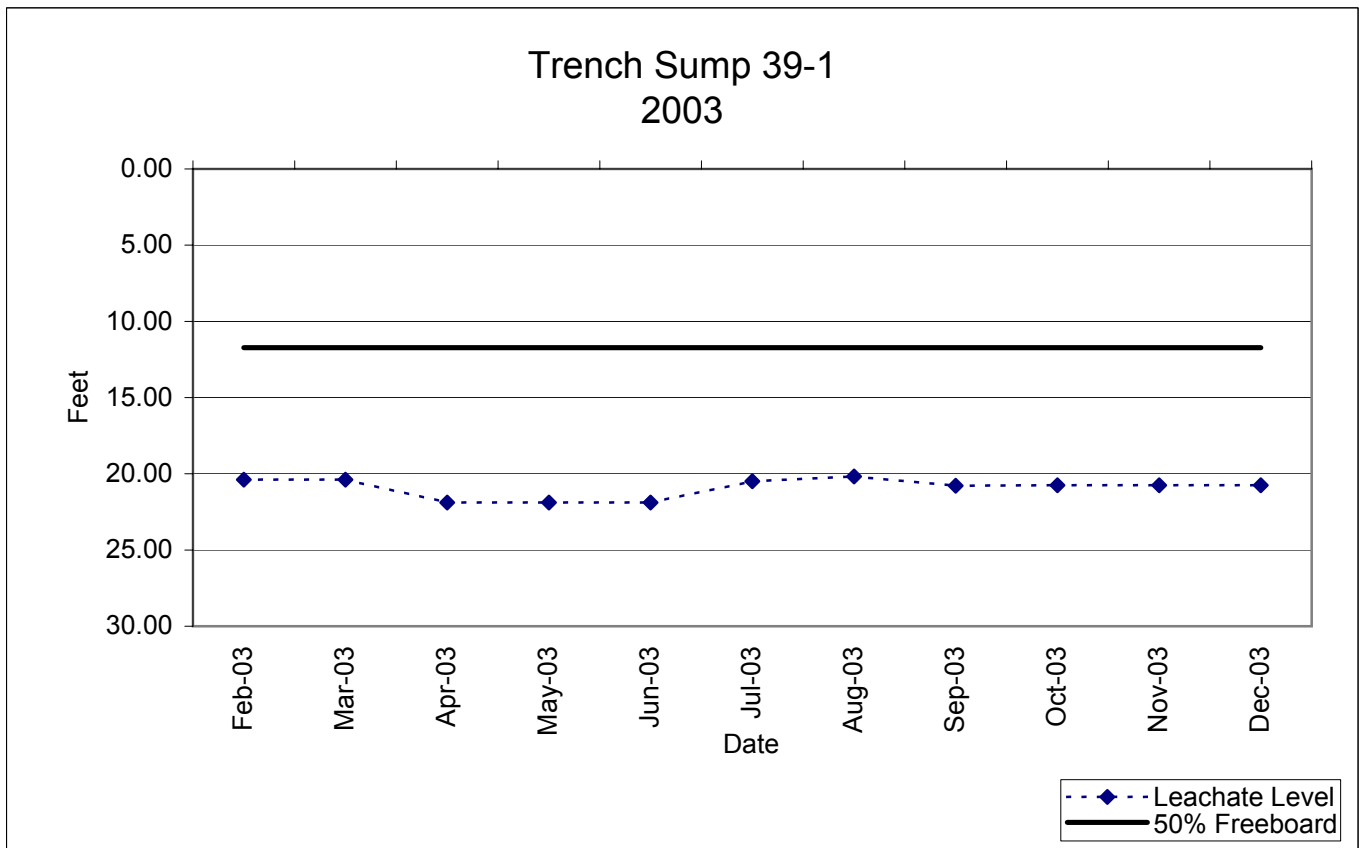
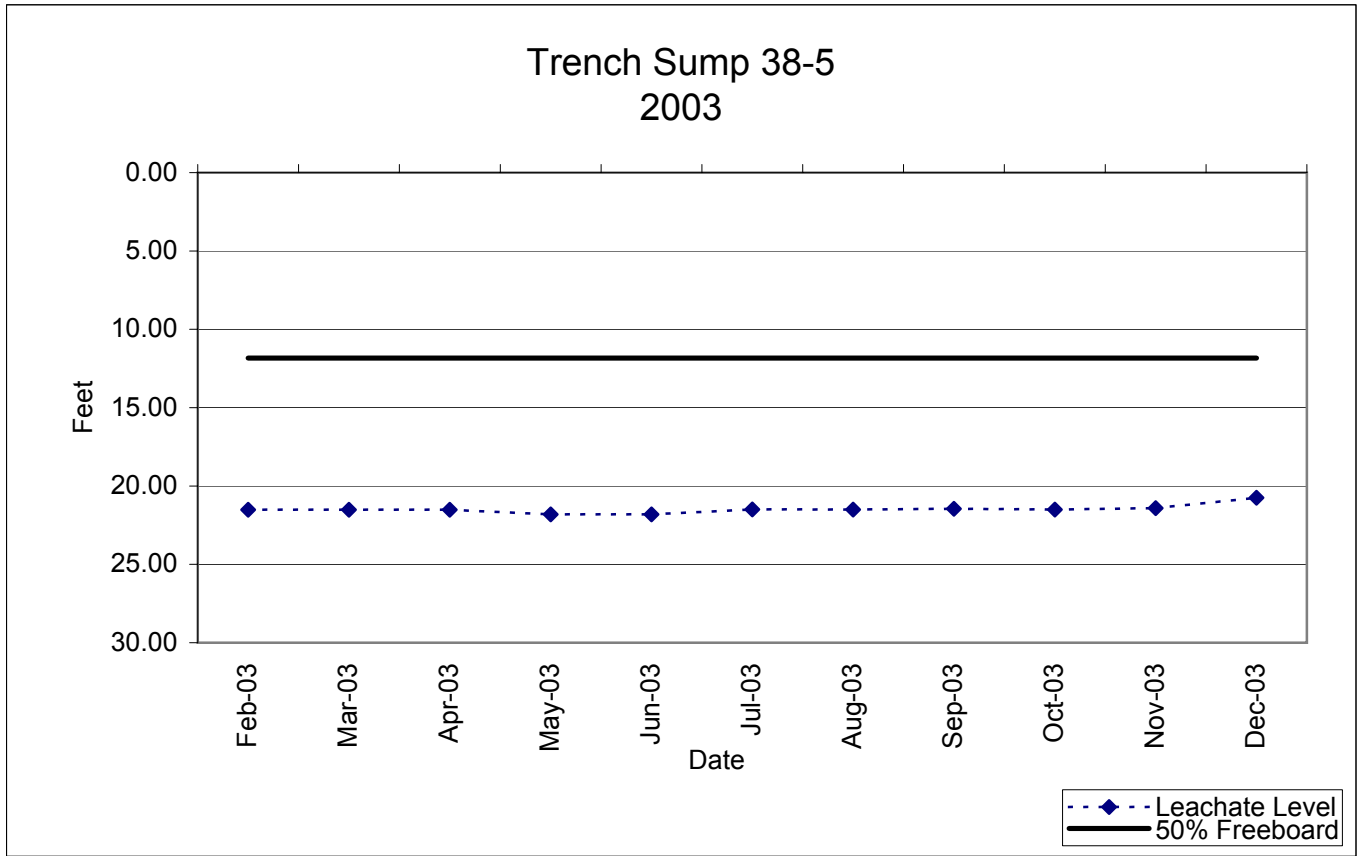
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 2003



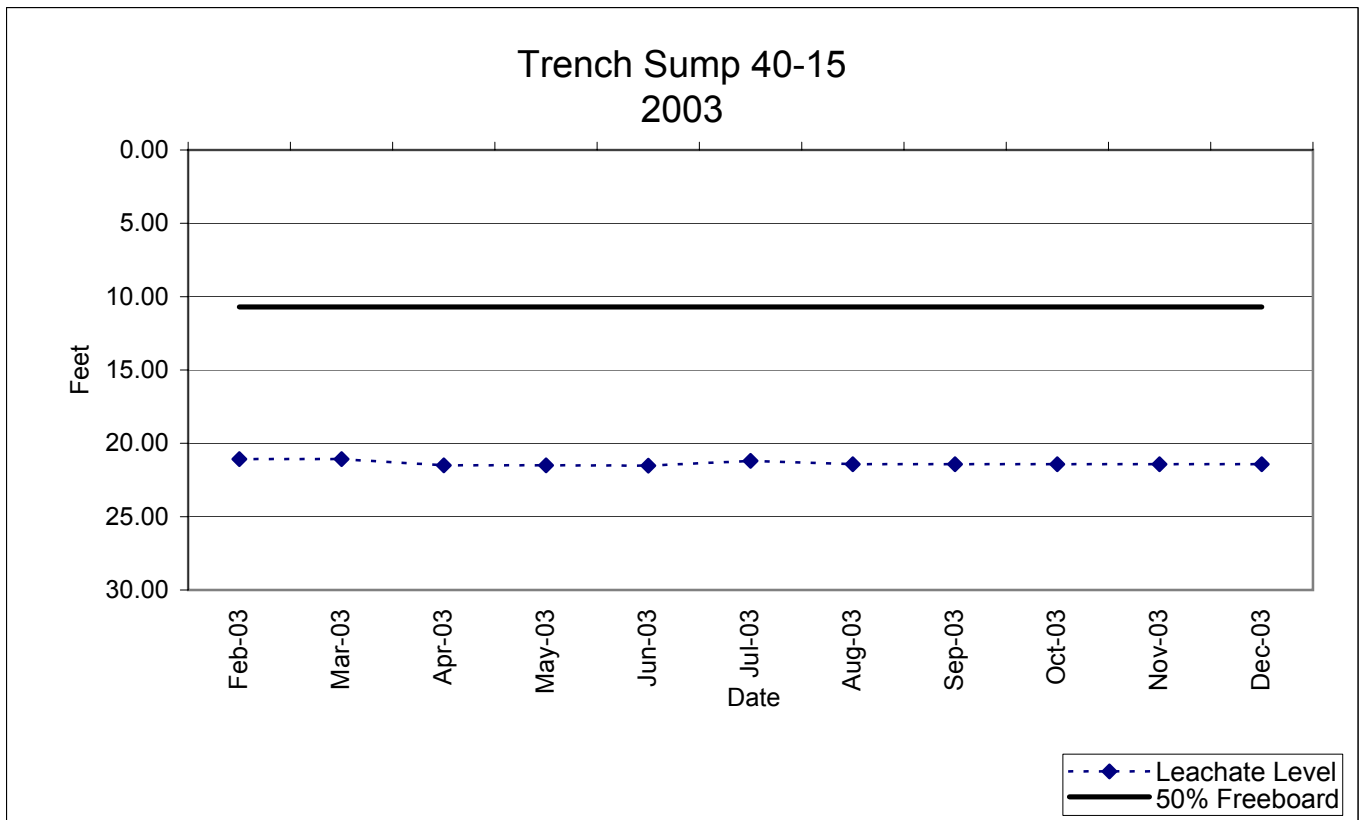
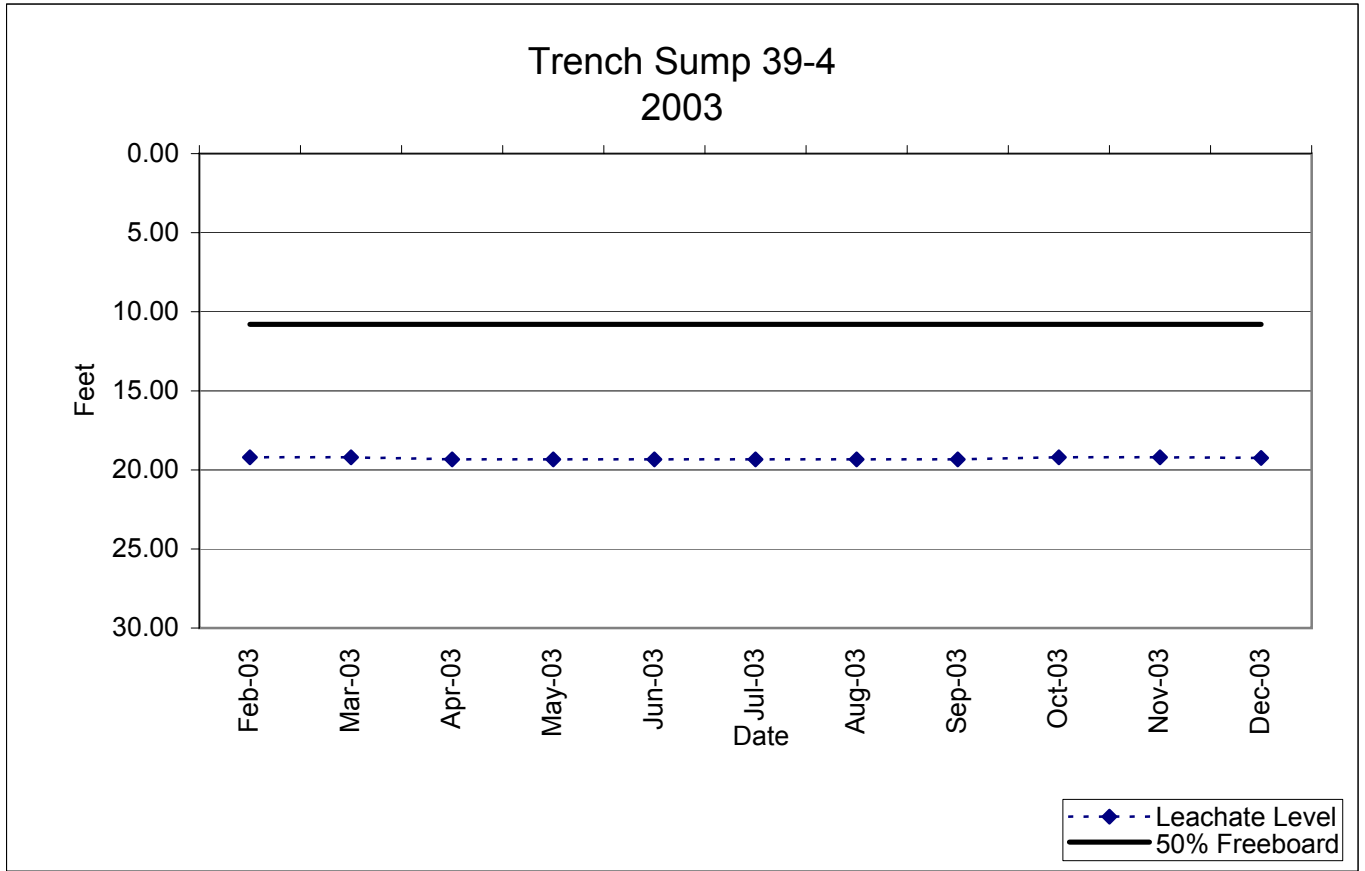
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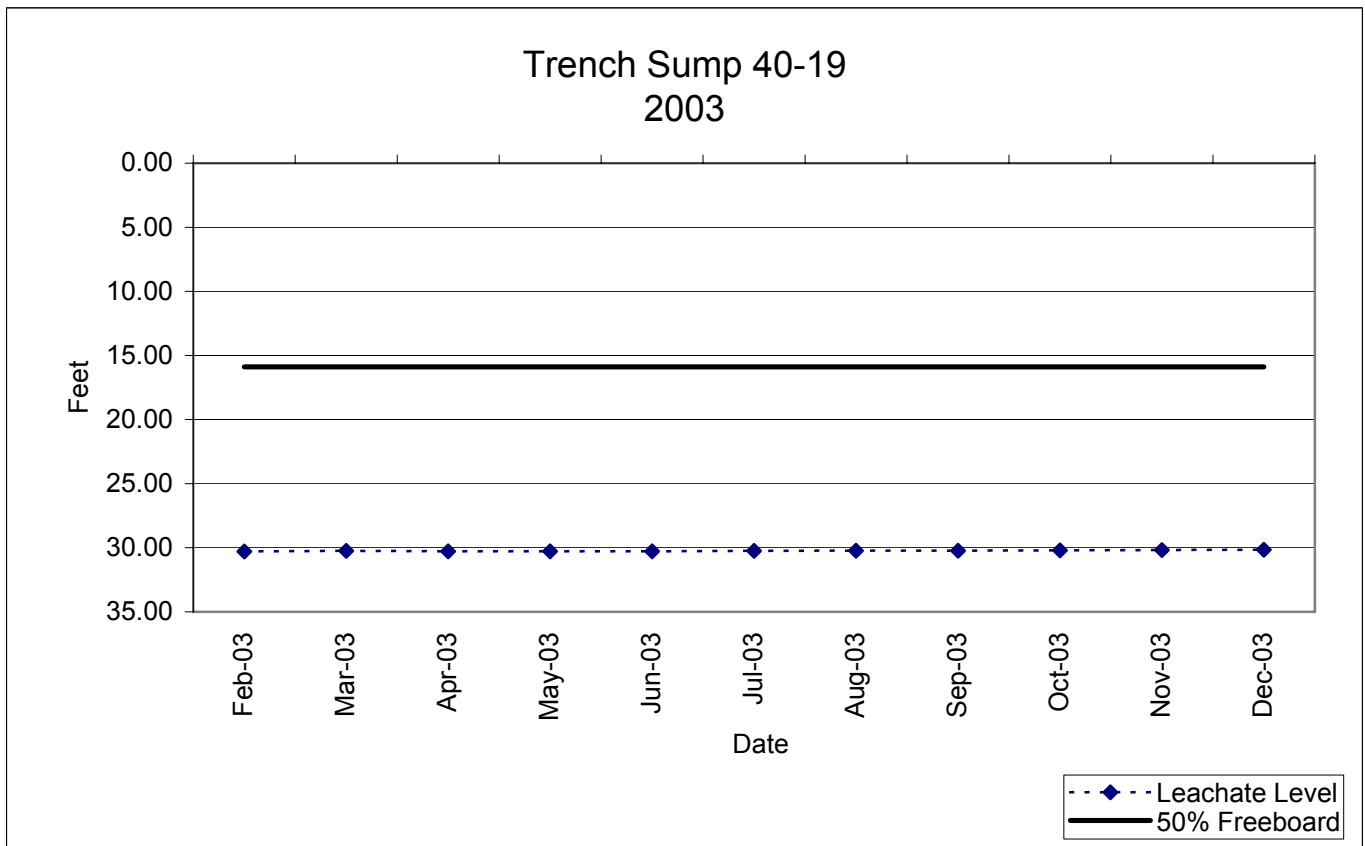
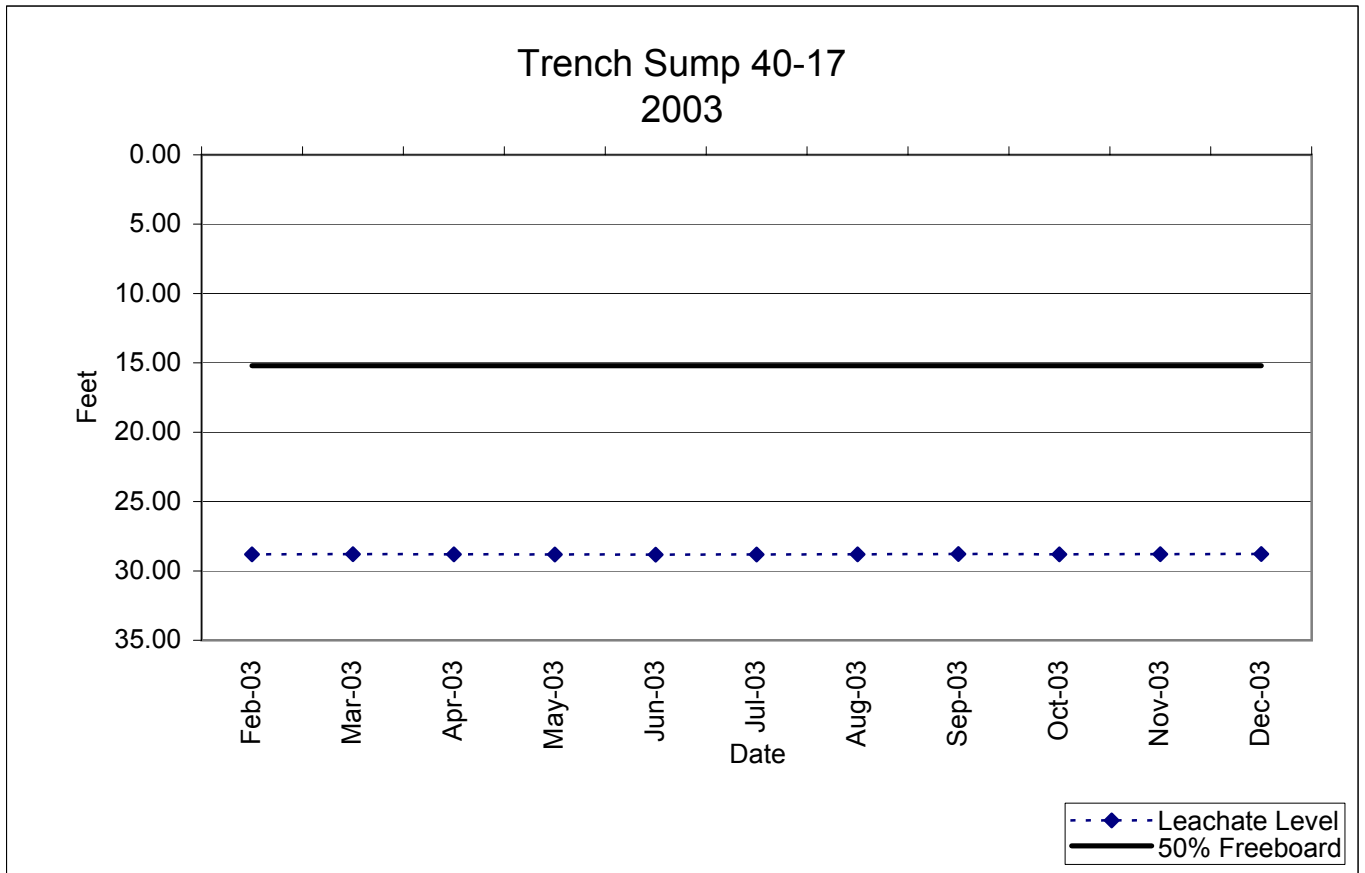
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Maxey Flats Disposal Site  
2003

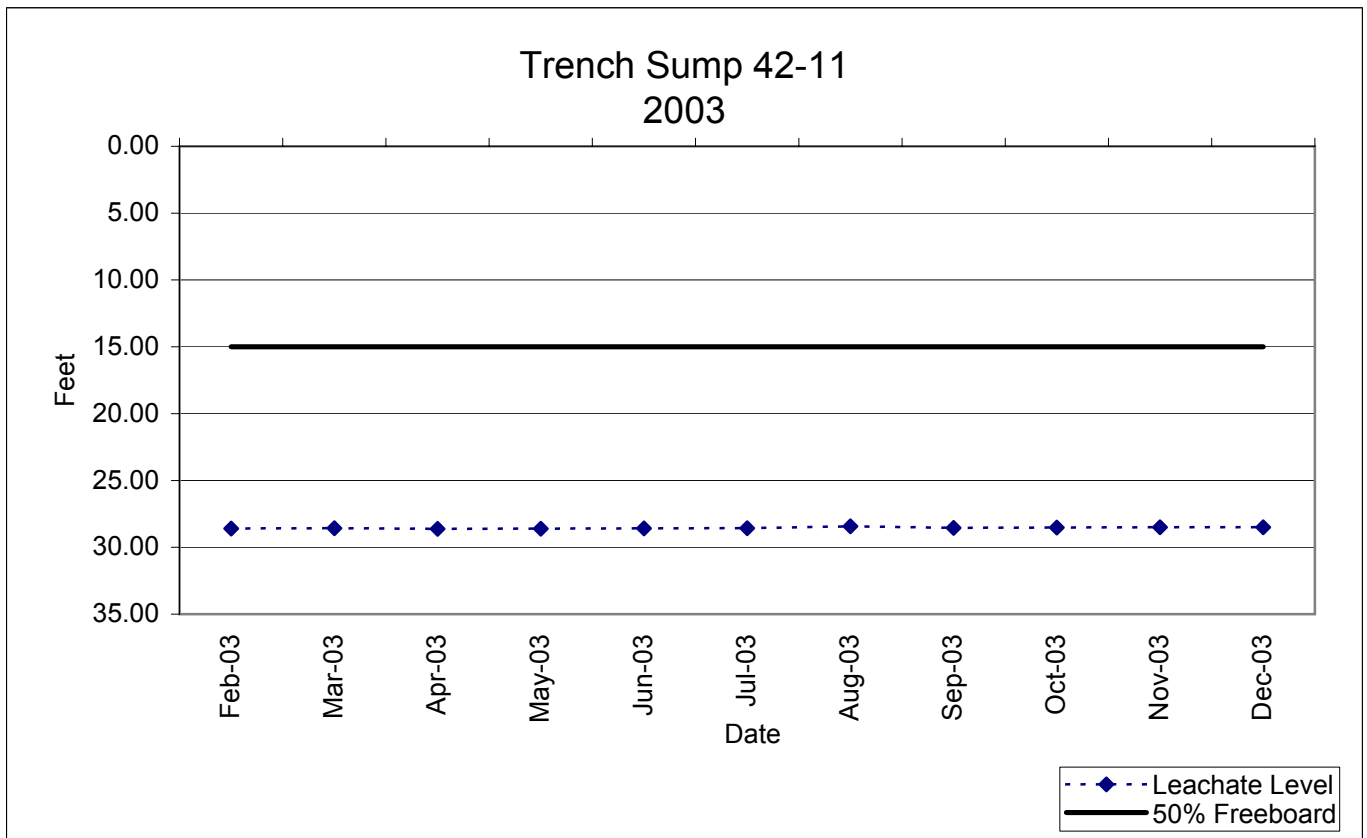
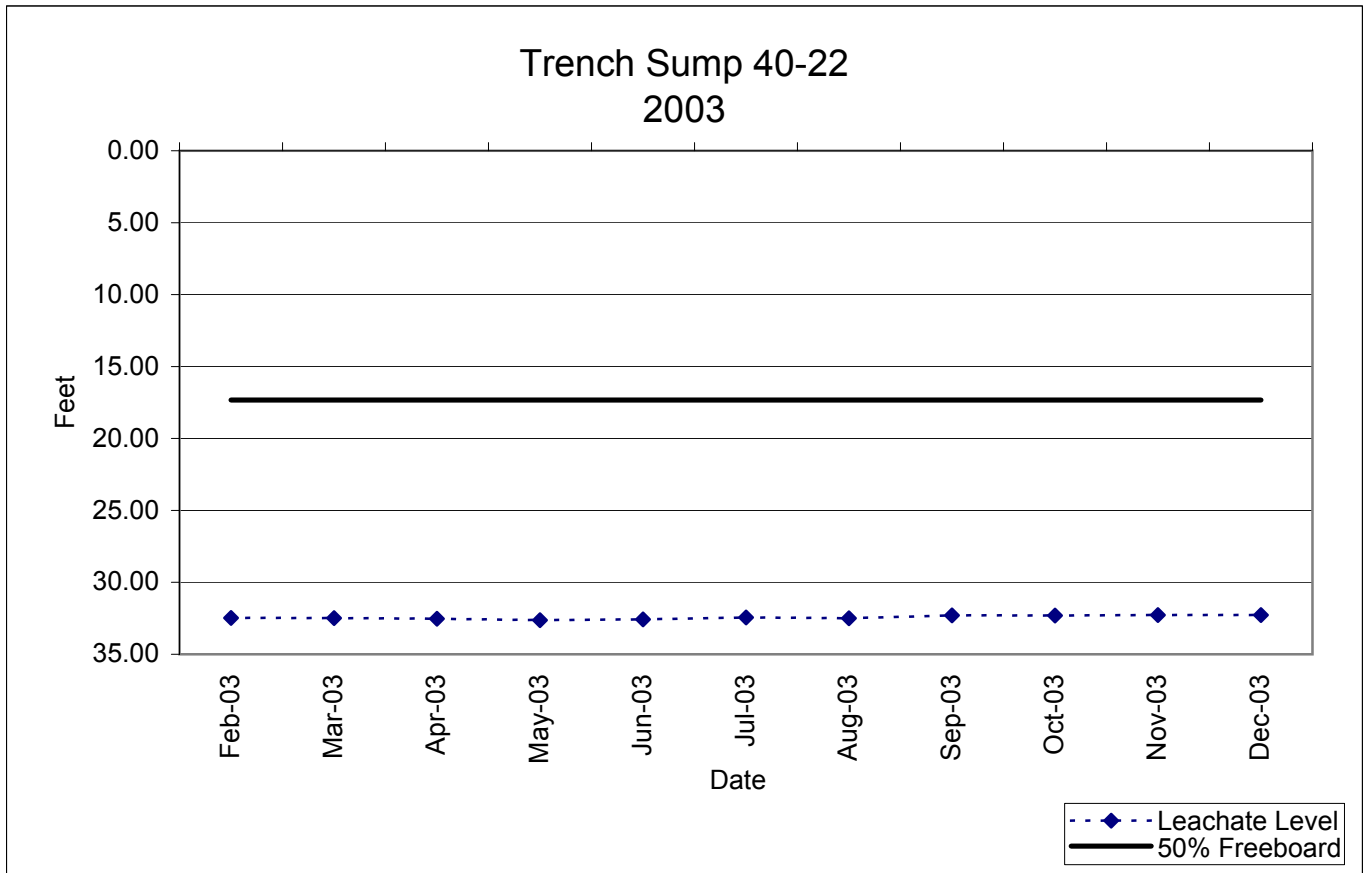


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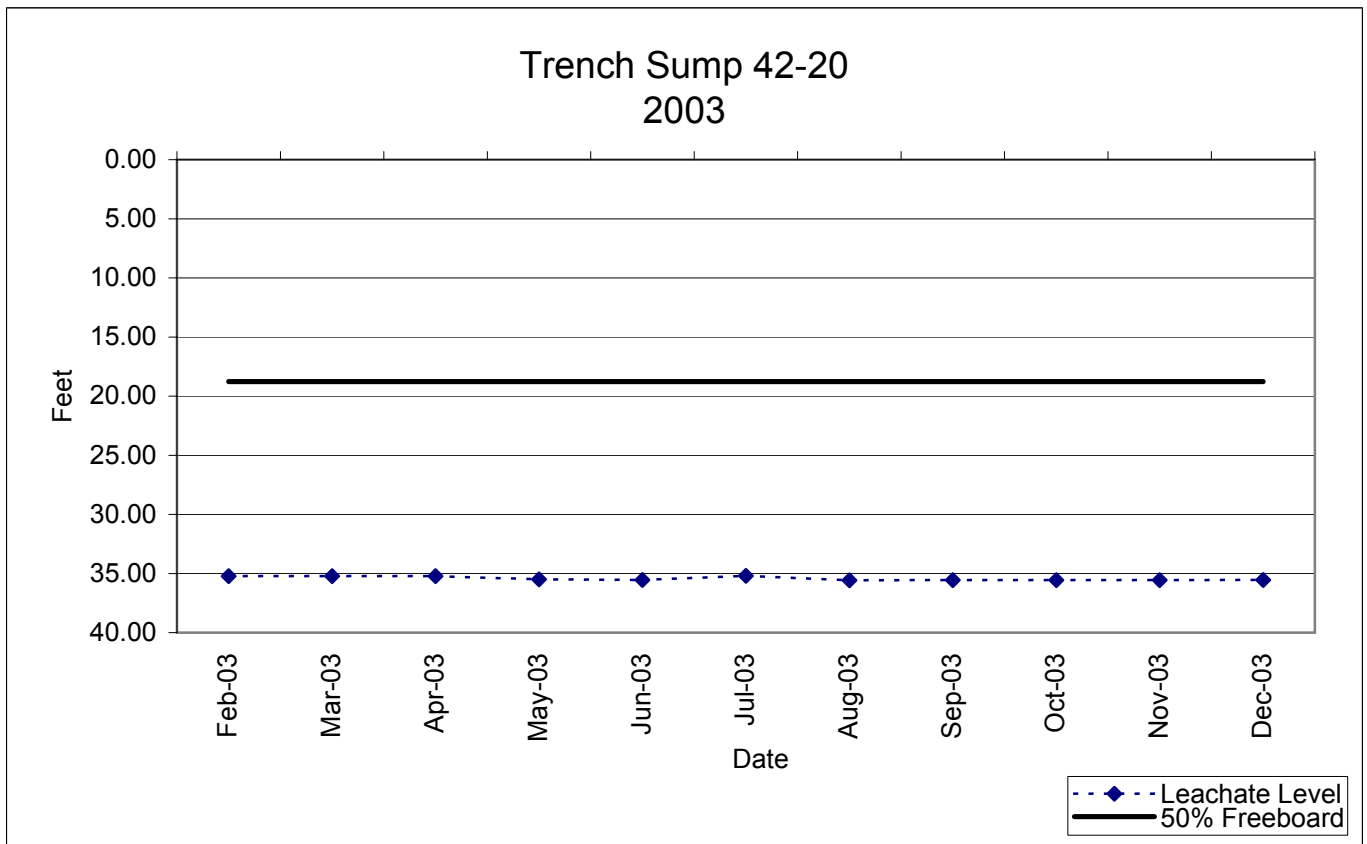
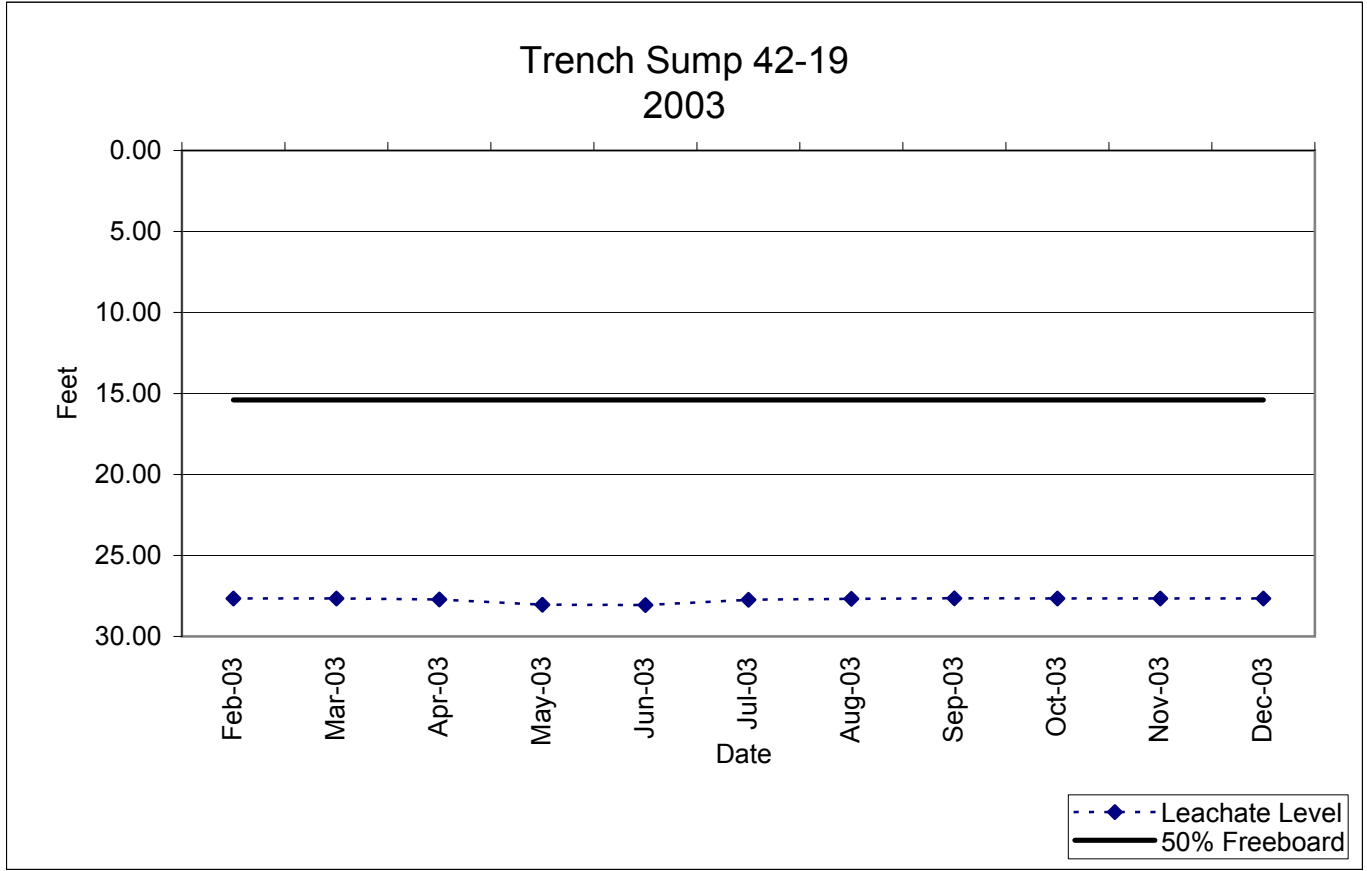




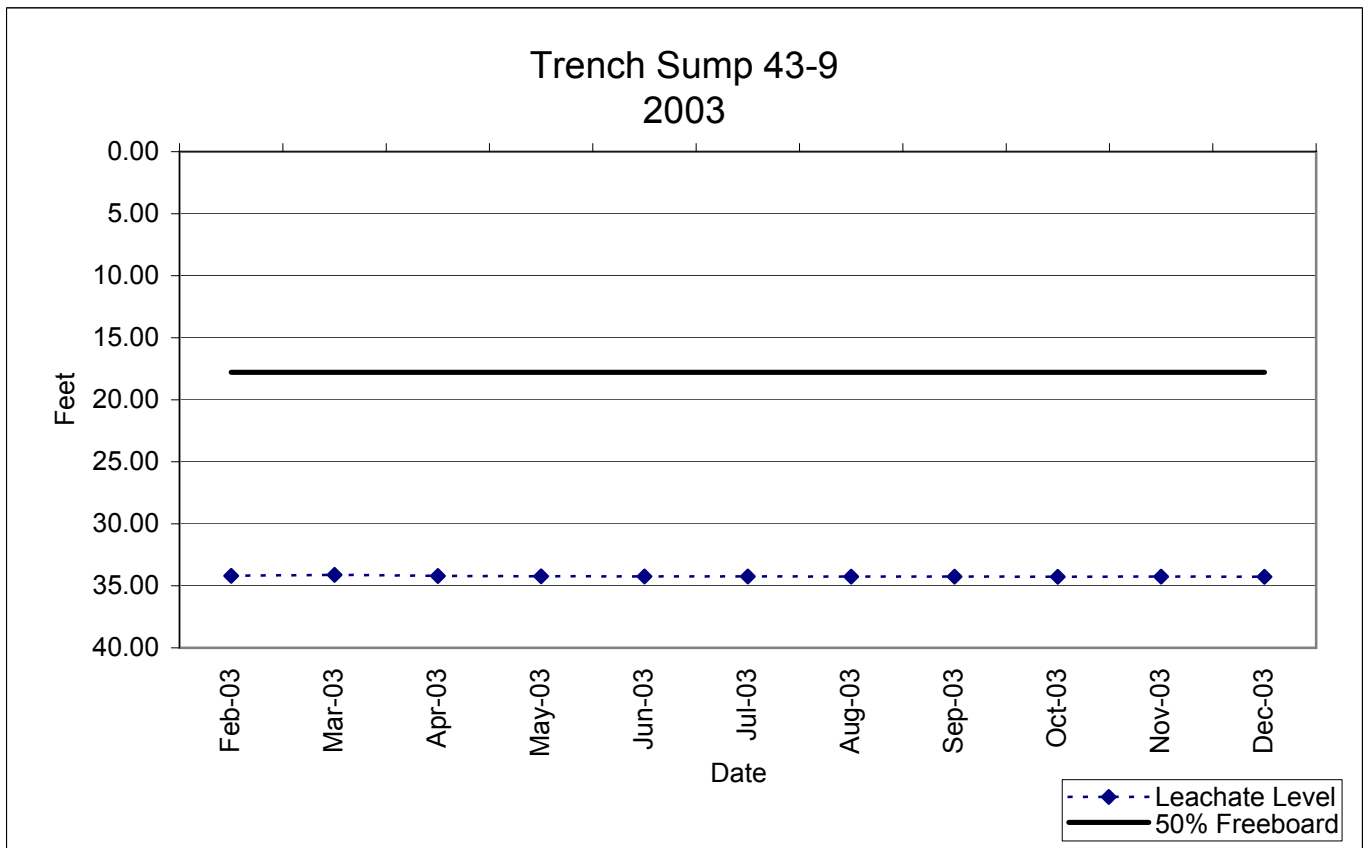
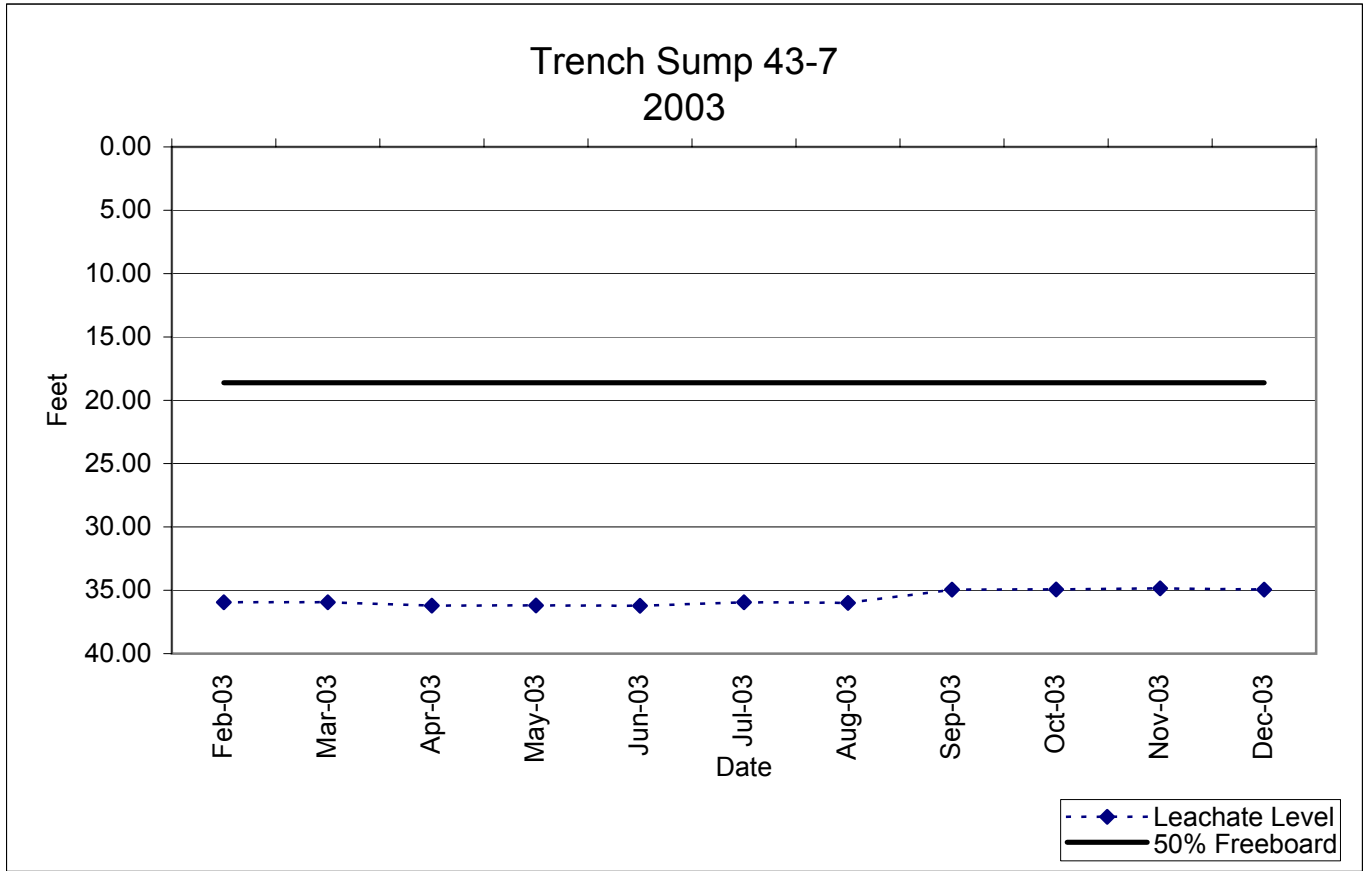
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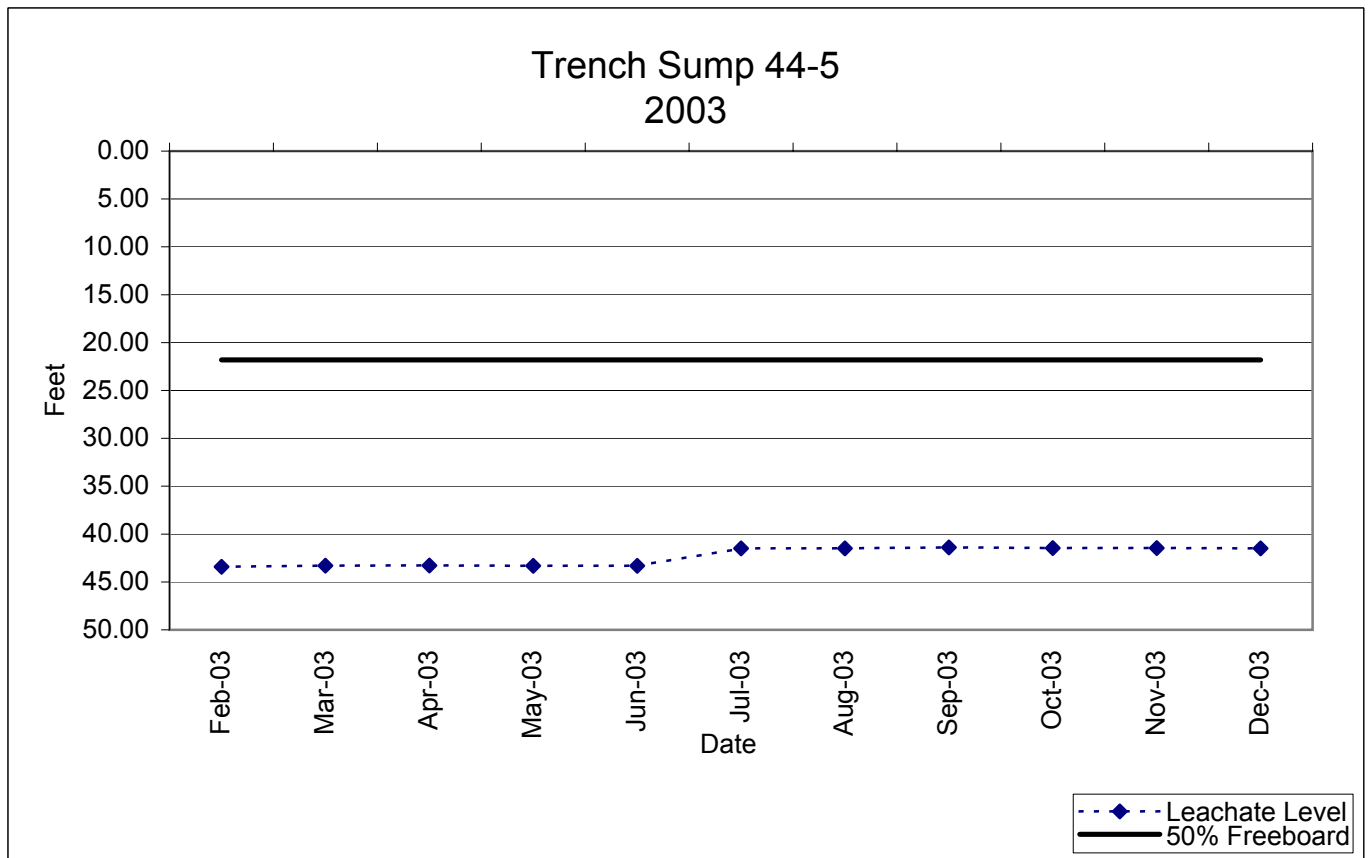
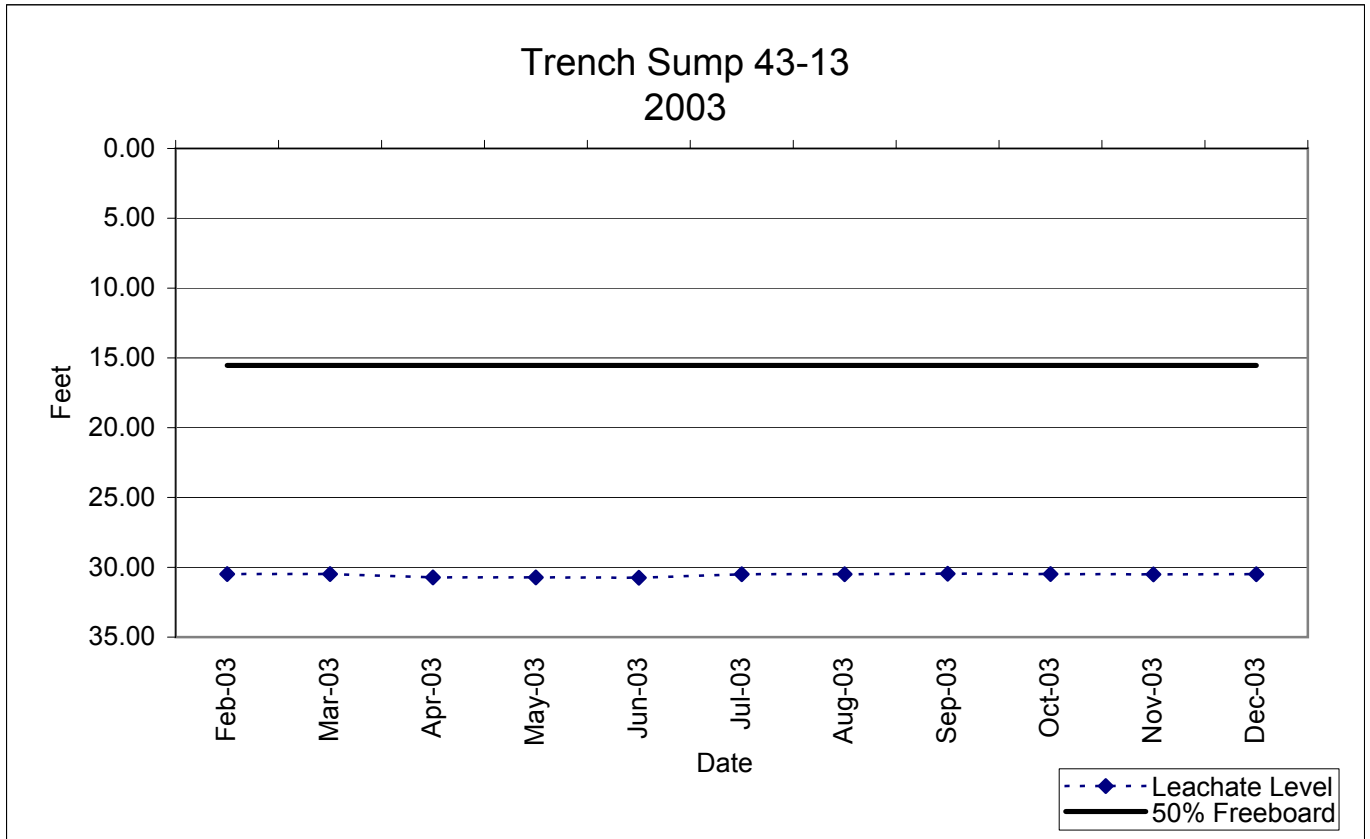
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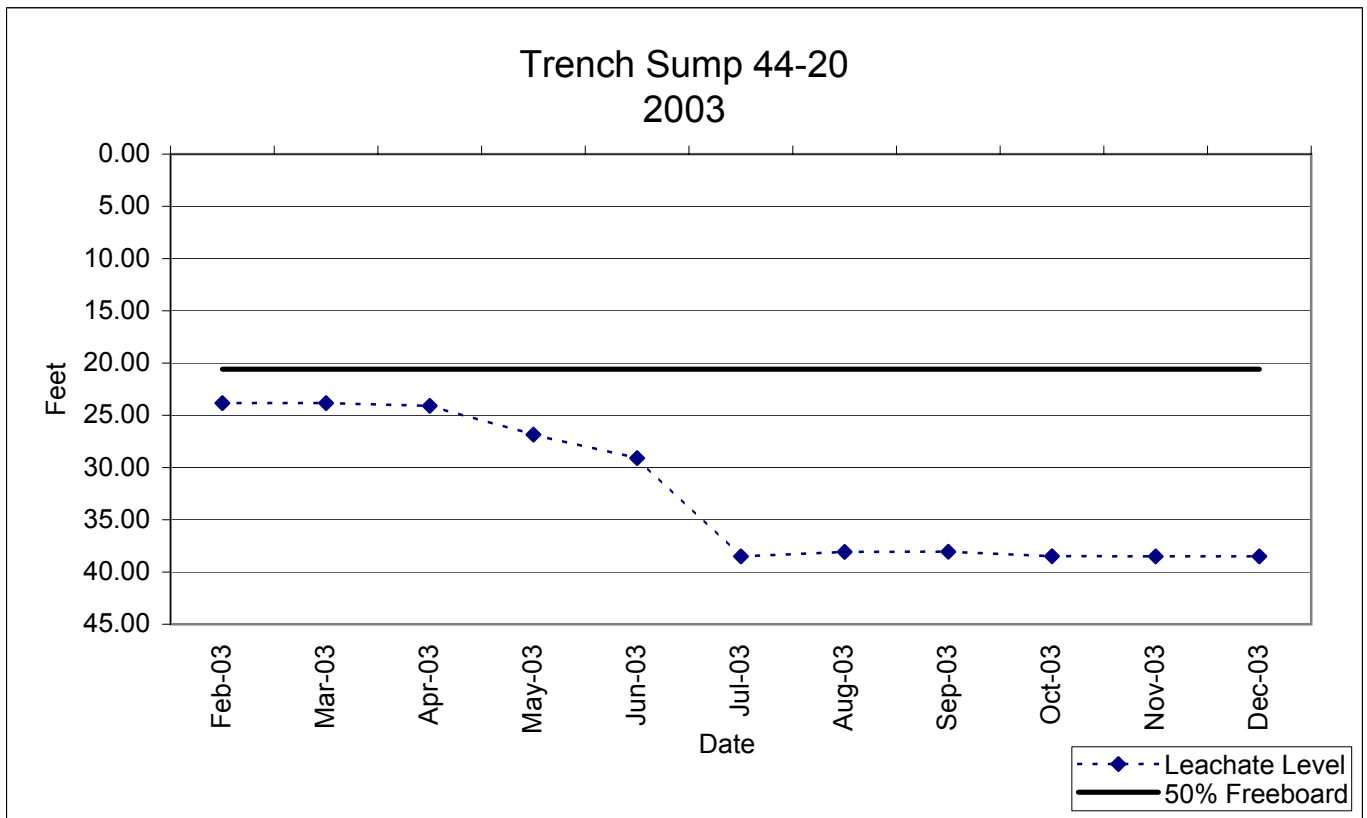
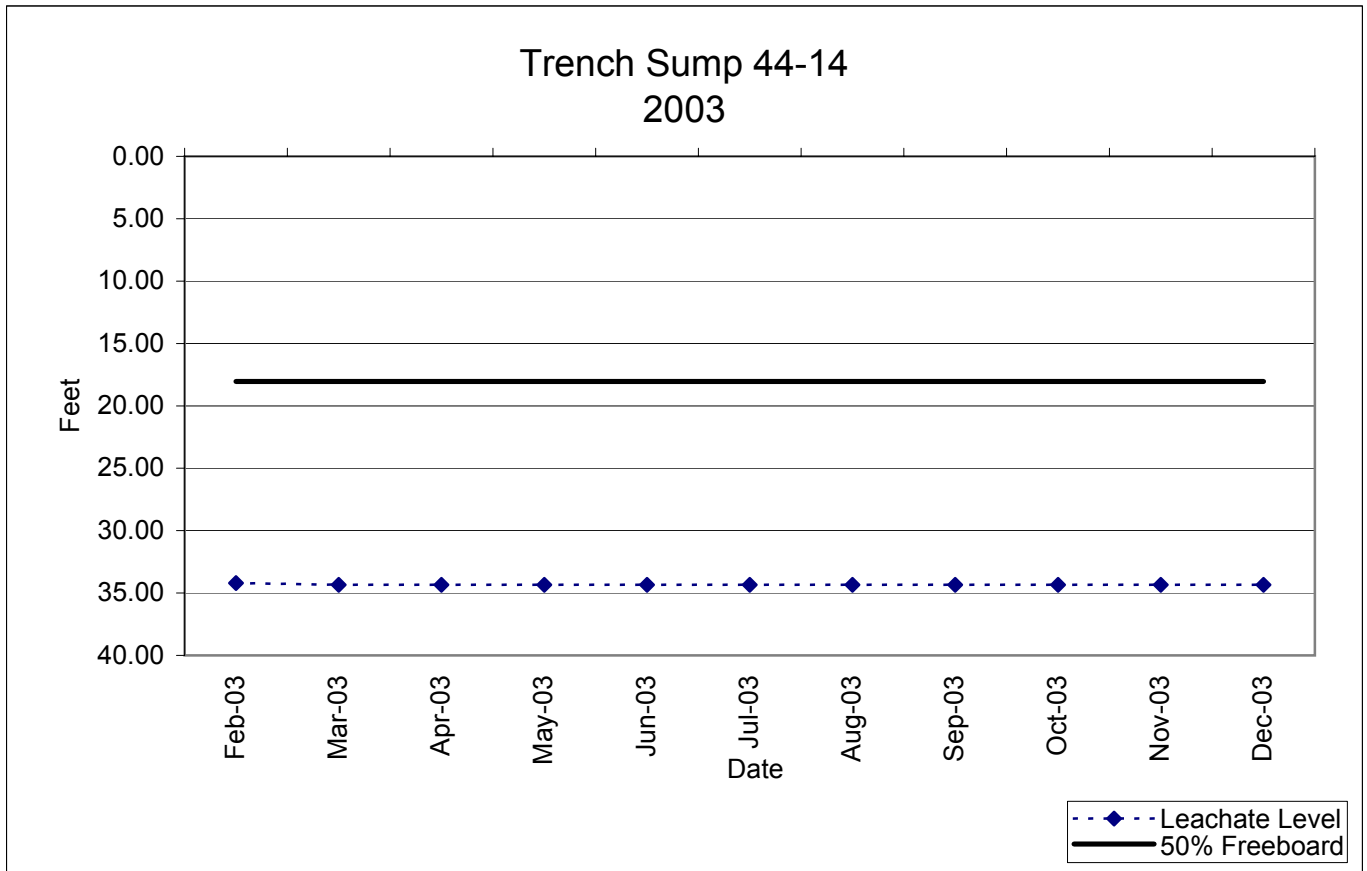
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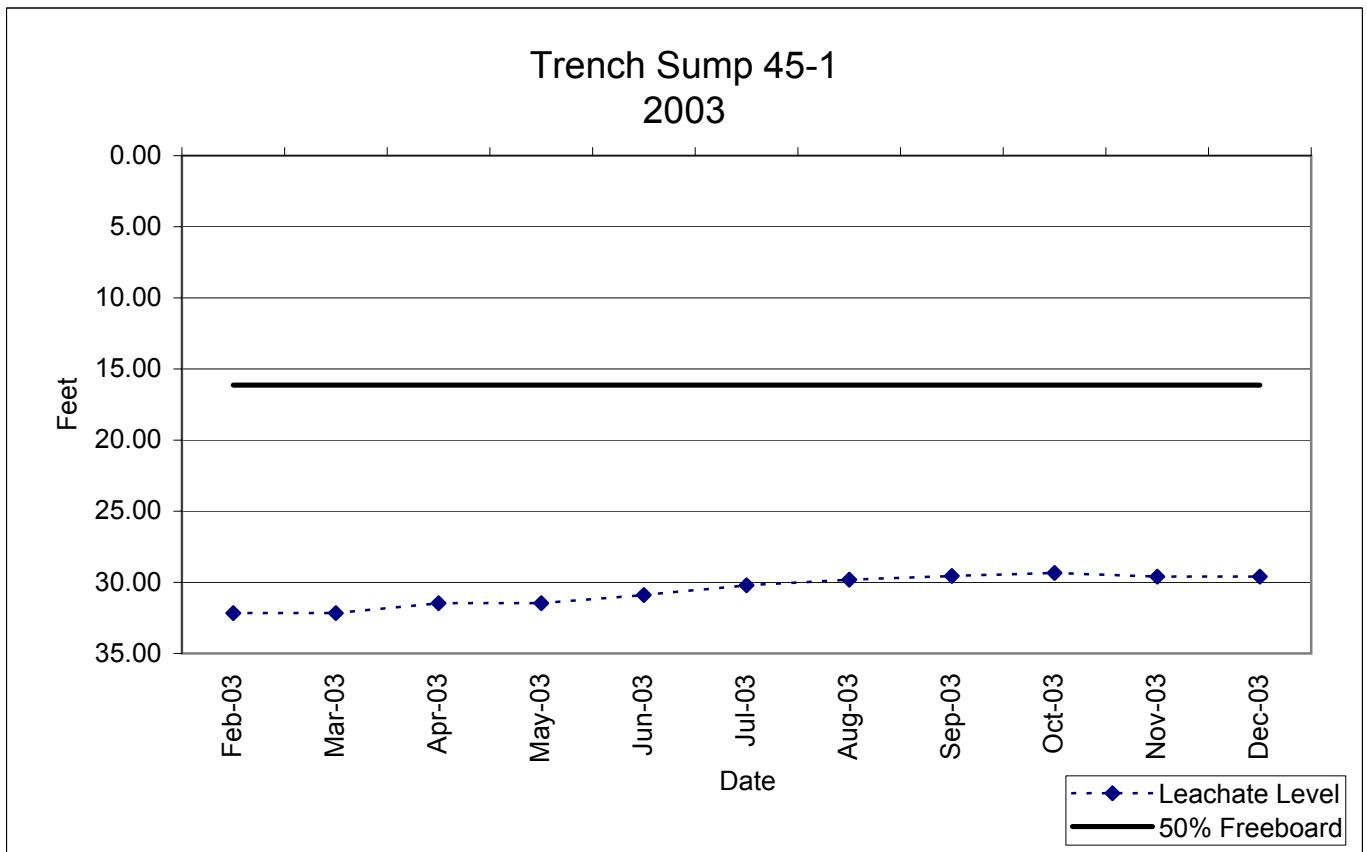
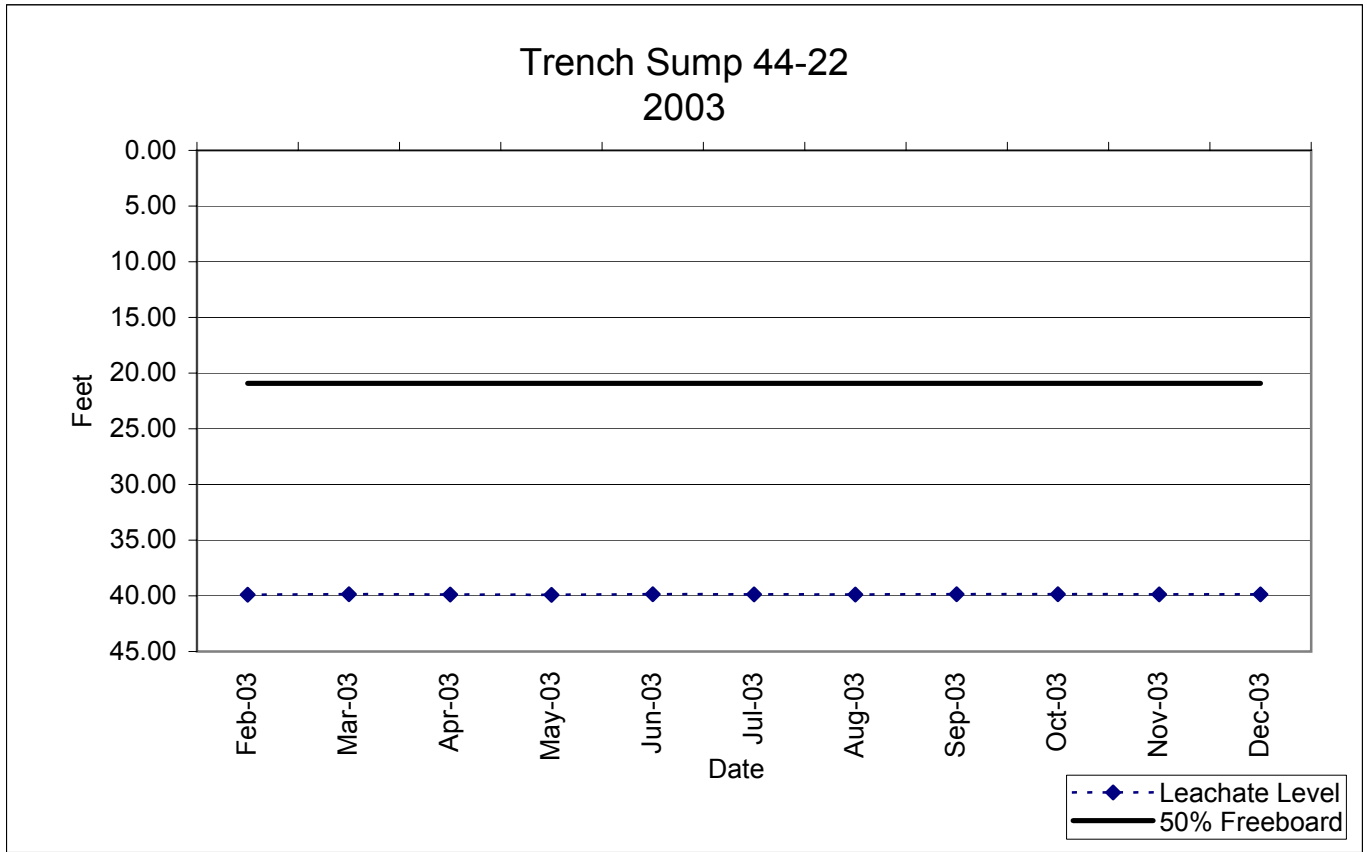
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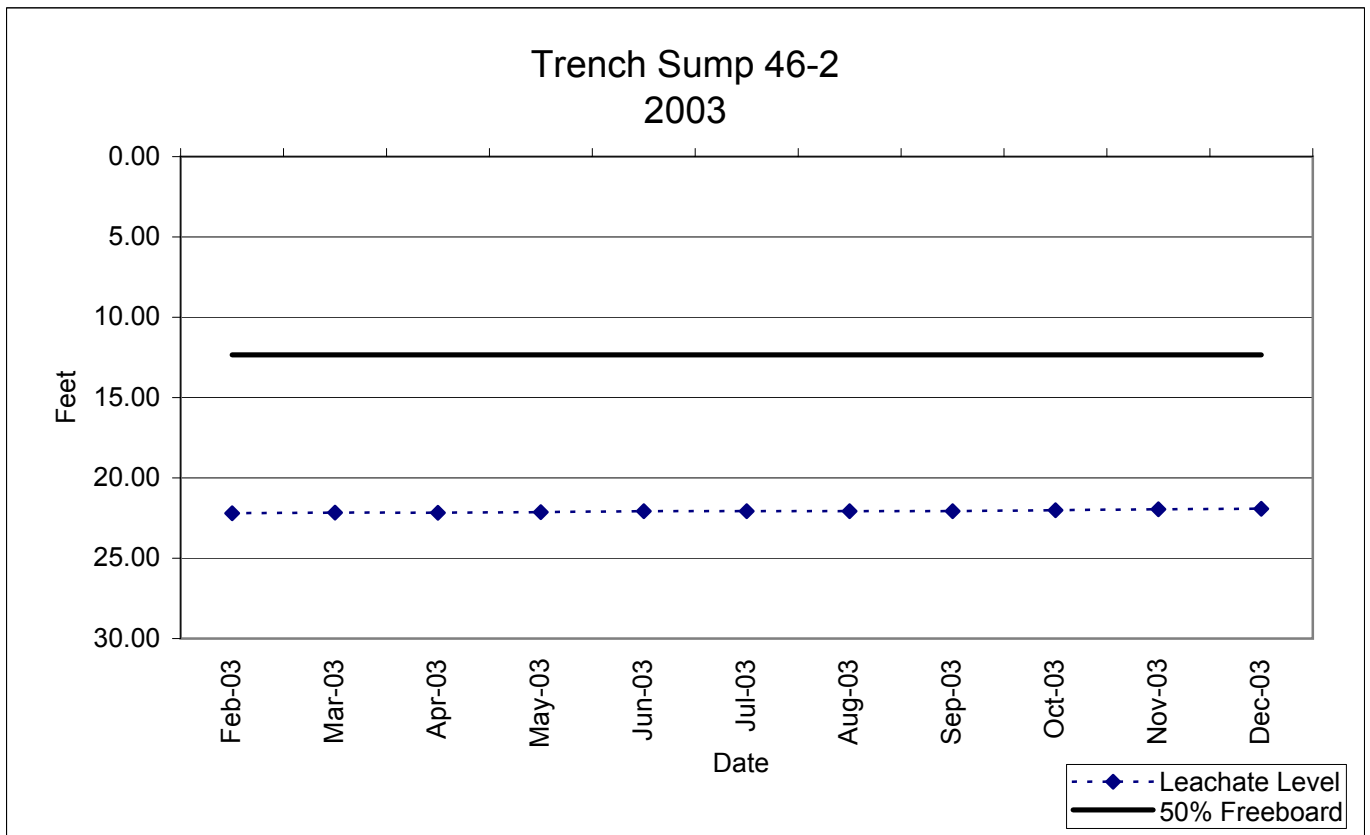
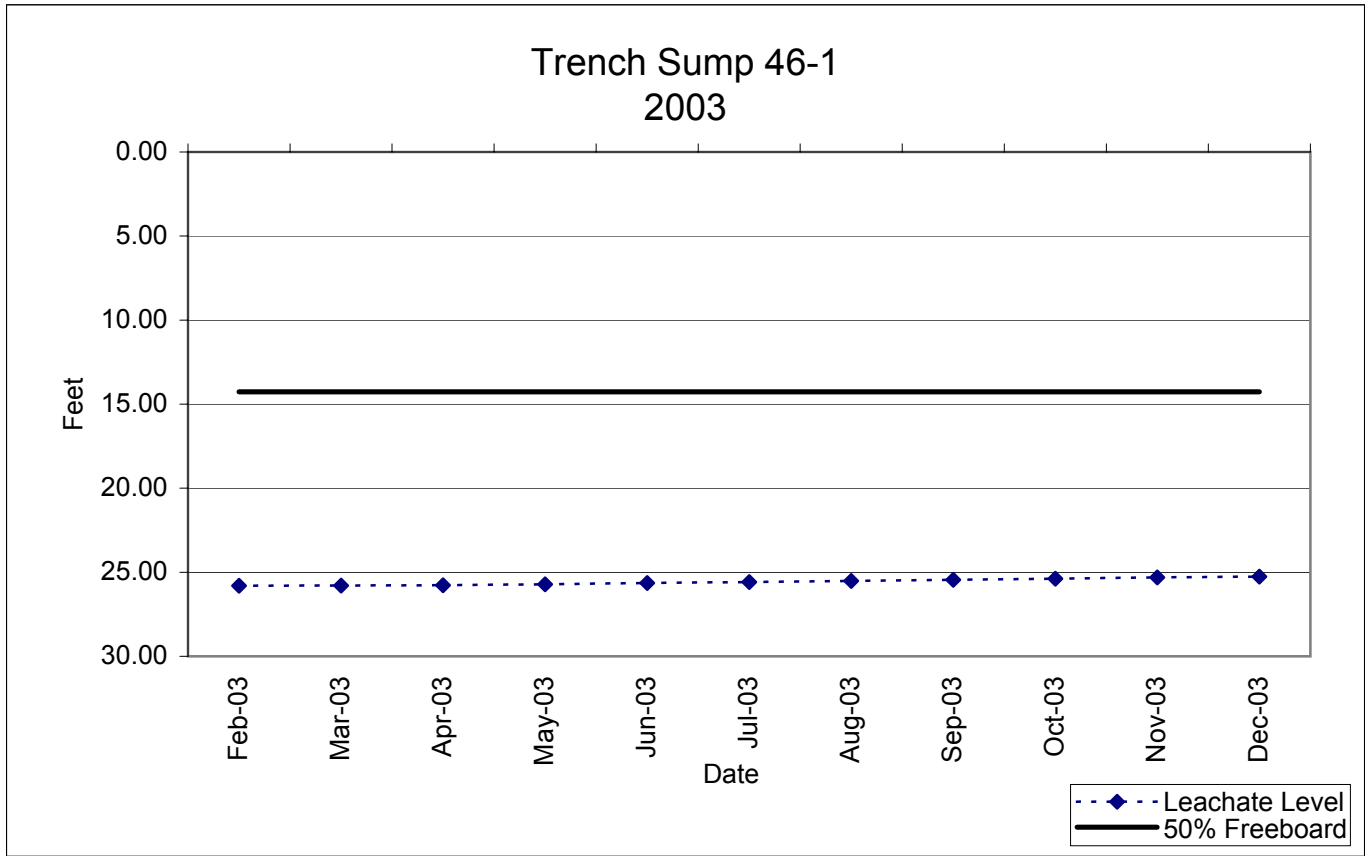
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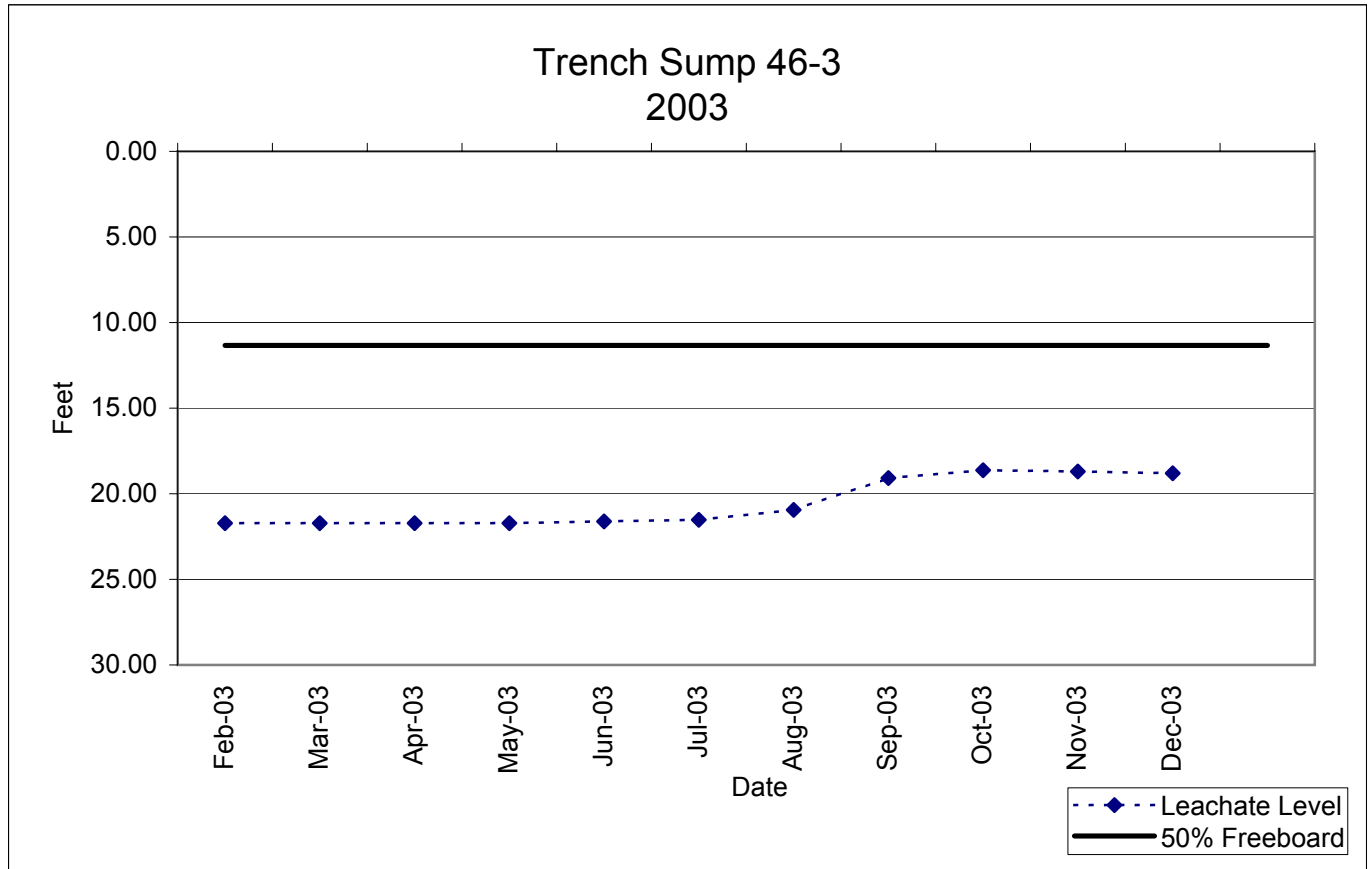
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**APPENDIX H2**

**MAXEY FLATS DISPOSAL SITE  
TRENCH LEVEL MEASUREMENTS  
2003**

**ANNUAL REPORT**  
 Maxey Flats Disposal Site  
 Leachate Level Measurements of Trench Sumps  
 2003

Trench Sump ID	As Built Top of Sump Elevation (feet msl) June 03	Bottom Elevation (feet msl)	As Built Top of Ground Elevation (feet msl) June 03	Depth to Leachate from top of Sump (feet) and Current Condition Leachate Elevation (feet msl)												Calculated Freeboard Using November 2002 Data
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1-2 <sup>1</sup>	1056.17	1034.47	1055.30	19.55 1035.75	19.55 1036.62	19.63 1036.54	19.56 1036.61	20.26 1035.91	19.35 1036.82	19.37 1036.80	19.34 1036.83	19.32 1036.85	19.32 1036.85	19.30 1036.87	10.84	
2-6 <sup>1</sup>	1057.51	1031.24	1055.59	17.30 1040.21	17.69 1039.82	18.32 1039.19	19.50 1038.01	16.65 1040.86	21.20 1036.31	21.21 1036.30	21.17 1036.34	21.12 1036.39	21.04 1036.47	21.01 1036.50	11.69	
3-2	1059.45	1035.18	1057.83	23.00 1036.45	22.99 1036.46	23.05 1036.40	23.05 1036.40	23.05 1036.40	23.07 1036.38	23.05 1036.40	23.03 1036.42	22.99 1036.46	22.96 1036.49	22.95 1036.50	12.31	
3-4 <sup>1</sup>	1054.33	1036.96	1052.99	15.77 1038.56	15.77 1038.56	16.07 1038.26	16.10 1038.23	16.10 1038.23	15.81 1038.52	15.90 1038.43	15.86 1038.47	16.00 1038.33	16.00 1038.33	16.00 1038.33	8.48	
7-4	1052.42	1036.70	1051.00	15.30 1037.12	15.49 1036.93	15.45 1036.97	15.49 1036.93	15.45 1036.97	15.39 1037.03	15.35 1037.07	15.27 1037.15	15.17 1037.25	15.10 1037.32	14.82 1037.60	8.35	
7-5	1057.98	1035.40	1055.68	18.40 1039.58	18.40 1039.58	18.50 1039.48	18.47 1039.51	18.50 1039.48	18.51 1039.47	18.50 1039.48	18.49 1039.49	18.49 1039.49	18.47 1039.51	18.45 1039.53	10.35	
7-7 <sup>1</sup>	1059.01	1036.22	1057.91	19.53 1038.45	19.53 1038.45	19.88 1038.10	19.50 1038.48	19.93 1038.05	19.62 1038.36	19.61 1038.37	19.58 1038.40	19.57 1038.41	19.60 1038.38	19.65 1038.33	10.22	
10-7	1060.34	1028.82	1058.53	27.90 1032.44	27.89 1032.45	27.89 1032.45	27.89 1032.45	27.89 1032.45	27.88 1032.46	27.87 1032.47	27.51 1032.83	27.65 1032.69	27.70 1032.64	27.70 1032.64	14.82	
10-8	1058.78	1030.48	1057.18	27.60 1031.18	27.59 1031.19	27.67 1031.11	27.67 1031.11	27.67 1031.11	27.69 1031.09	27.69 1031.09	27.70 1031.08	27.70 1031.08	27.69 1031.09	27.69 1031.09	14.56	
10-9 <sup>1</sup>	1054.92	1027.20	1052.70	25.90 1029.02	25.90 1029.02	26.20 1028.72	26.19 1028.73	26.17 1028.75	25.85 1029.07	25.85 1029.07	25.87 1029.05	25.86 1029.06	25.83 1029.09	25.77 1029.15	14.14	
11S-5 <sup>1</sup>	1057.08	1033.93	1055.42	20.92 1036.16	20.92 1036.16	21.12 1035.96	21.14 1035.94	21.14 1035.94	20.95 1036.13	20.95 1036.13	20.95 1036.13	20.88 1036.20	20.92 1036.16	21.00 1036.08	11.29	
11S-6	1063.22	1036.50	1061.82	24.10 1039.12	24.11 1039.11	24.15 1039.07	24.17 1039.05	24.20 1039.02	24.20 1039.02	24.19 1039.03	24.20 1039.02	24.21 1039.01	24.20 1039.02	24.19 1039.03	12.72	

Note: 1) Global Data logger changed out. Readings from January - June were obtained from Global data loggers.  
 2) No automatic monitoring device - measured manually.  
 Manual measurements were made at time of installing the new data loggers. Several of the readings have changed.

**ANNUAL REPORT**  
 Maxey Flats Disposal Site  
 Leachate Level Measurements of Trench Sumps  
 2003

Trench Sump ID	As Built Top of Sump Elevation (feet msl) June 03	Bottom Elevation (feet msl)	As Built Top of Ground Elevation (feet msl) June 03	Depth to Leachate from top of Sump (feet) and Current Condition Leachate Elevation (feet msl)												Calculated Freeboard Using November 2002 Data
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
15-4	1062.04	1034.42	1060.30		26.70 1035.34	26.68 1035.36	26.70 1035.34	26.71 1035.33	26.72 1035.32	26.73 1035.31	26.72 1035.32	26.72 1035.32	26.73 1035.31	26.70 1035.34	26.69 1035.35	14.21
15-5	1061.21	1034.70	1059.77		25.20 1036.01	25.21 1036.00	25.20 1036.01	25.21 1036.00	25.19 1036.02	25.18 1036.03	25.19 1036.02	25.19 1036.02	25.20 1036.01	25.20 1036.01	25.19 1036.02	12.79
15-6 <sup>1</sup>	1059.46	1027.10	1057.63		28.79 1030.67	28.79 1030.67	29.26 1030.20	29.25 1030.21	29.20 1030.26	28.74 1030.72	28.77 1030.69	28.78 1030.68	28.75 1030.71	28.75 1030.71	28.72 1030.74	15.36
15-8	1055.85	1032.25	1053.67		22.40 1033.45	22.44 1033.41	22.51 1033.34	22.62 1033.23	22.70 1033.15	22.72 1033.13	22.72 1033.13	22.69 1033.16	22.67 1033.18	22.62 1033.23	22.57 1033.28	12.19
18-6 <sup>1</sup>	1065.42	1034.08	1064.01		30.50 1034.92	30.50 1034.92	30.67 1034.75	30.67 1034.75	30.65 1034.77	30.46 1034.96	30.52 1034.90	30.60 1034.82	30.61 1034.81	30.59 1034.83	30.58 1034.84	15.91
18-9	1059.54	1037.66	1058.20		22.00 1037.54	22.00 1037.54	22.04 1037.50	22.04 1037.50	22.04 1037.50	22.04 1037.50	22.04 1037.50	22.04 1037.50	22.04 1037.50	22.00 1037.54	22.03 1037.51	10.94
19-5	1063.23	1032.81	1061.77		28.94 1034.29	28.94 1034.29	29.00 1034.23	29.01 1034.22	29.02 1034.21	29.01 1034.22	29.01 1034.22	29.01 1034.22	29.01 1034.22	29.00 1034.23	29.00 1034.23	15.16
19-6	1058.71	1033.30	1056.39		23.60 1035.11	23.59 1035.12	23.59 1035.12	23.59 1035.12	23.59 1035.12	23.57 1035.14	23.56 1035.15	23.54 1035.17	23.52 1035.19	23.50 1035.21	23.50 1035.21	12.91
19-7 <sup>1</sup>	1064.26	1032.00	1062.46		30.51 1033.75	30.51 1033.75	30.78 1033.48	30.75 1033.51	30.65 1033.61	30.42 1033.84	30.29 1033.97	30.31 1033.95	30.29 1033.97	30.27 1033.99	30.24 1034.02	16.30
20W	1065.49	1036.17	1063.70		28.10 1037.39	28.10 1037.39	28.09 1037.40	28.09 1037.40	28.08 1037.41	28.07 1037.42	28.11 1037.38	28.17 1037.32	28.16 1037.33	28.16 1037.33	28.14 1037.35	14.15
20-7	1063.29	1030.40	1061.45		29.90 1033.39	29.92 1033.37	29.91 1033.38	29.94 1033.35	29.94 1033.35	29.96 1033.33	29.97 1033.32	29.97 1033.32	29.97 1033.32	29.96 1033.33	29.95 1033.34	15.85
20-9 <sup>1</sup>	1065.36	1034.37	1063.28		30.58 1034.78	30.20 1035.16	30.60 1034.76	30.60 1034.76	30.03 1035.33	30.60 1034.76	30.41 1034.95	30.41 1034.95	30.41 1034.95	30.40 1034.96	30.38 1034.98	16.07

Note: 1) Global Data logger changed out. Readings from January - June were obtained from Global data loggers.  
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**ANNUAL REPORT**  
**Maxey Flats Disposal Site**  
**Leachate Level Measurements of Trench Sumps**  
**2003**

Trench Sump ID	As Built Top of Sump Elevation (feet msl) June 03	Bottom Elevation (feet msl)	As Built Top of Ground Elevation (feet msl) June 03	Depth to Leachate from top of Sump (feet) and Current Condition Leachate Elevation (feet msl)												Calculated Freeboard Using November 2002 Data
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
20-11	1059.06	1034.42	1057.32		24.30 1034.76	24.23 1034.83	24.28 1034.78	24.29 1034.77	24.28 1034.78	24.28 1034.78	24.23 1034.83	24.23 1034.83	24.26 1034.80	24.25 1034.81	24.18 1034.88	12.98
23-5 <sup>1</sup>	1063.61	1030.83	1061.48		31.28 1032.33	31.28 1032.33	31.60 1032.01	31.60 1032.01	31.60 1032.01	31.25 1032.36	31.28 1032.33	31.31 1032.30	31.26 1032.35	31.25 1032.36	31.24 1032.37	16.66
23-6	1064.28	1032.25	1062.25		31.10 1033.18	31.04 1033.24	31.07 1033.21	31.08 1033.20	31.08 1033.20	31.10 1033.18	31.06 1033.22	31.03 1033.25	31.03 1033.25	31.02 1033.26	30.99 1033.29	16.60
23-9	1059.08	1034.72	1056.61		24.30 1034.78	24.30 1034.78	24.40 1034.68	24.40 1034.68	24.40 1034.68	24.40 1034.68	24.40 1034.68	24.40 1034.68	24.39 1034.69	24.39 1034.69	24.39 1034.69	13.51
24-5 <sup>1</sup>	1058.86	1034.04	1056.85		23.41 1035.45	23.41 1035.45	23.71 1035.15	23.70 1035.16	23.70 1035.16	23.40 1035.46	23.41 1035.45	23.39 1035.47	23.39 1035.47	23.24 1035.62	23.38 1035.48	12.69
24-6	1062.47	1035.40	1060.40		26.50 1032.36	26.69 1032.17	26.69 1032.17	26.69 1032.17	26.69 1032.17	26.69 1032.17	26.69 1032.17	26.69 1032.17	26.69 1032.17	26.69 1032.17	26.69 1032.17	14.26
25-5	1059.82	1036.00	1058.02		23.00 1036.82	23.01 1036.81	23.02 1036.80	23.05 1036.77	23.07 1036.75	23.07 1036.75	23.07 1036.75	23.08 1036.74	23.09 1036.73	23.10 1036.72	23.09 1036.73	12.34
25-7 <sup>1</sup>	1060.71	1035.05	1059.21		21.89 1038.82	21.89 1038.82	21.00 1039.71	21.00 1039.71	21.00 1039.71	25.10 1035.61	25.10 1035.61	25.00 1035.71	25.35 1035.36	25.35 1035.36	25.33 1035.38	13.28
25-9	1057.05	1034.00	1054.89		22.50 1034.55	22.47 1034.58	22.59 1034.46	22.65 1034.40	22.68 1034.37	22.68 1034.37	22.64 1034.41	22.65 1034.40	22.63 1034.42	22.58 1034.47	22.53 1034.52	12.37
26-2	1059.31	1029.15	1057.38		28.20 1031.11	28.17 1031.14	28.18 1031.13	28.18 1031.13	28.16 1031.15	28.17 1031.14	28.15 1031.16	28.14 1031.17	28.14 1031.17	28.12 1031.19	28.11 1031.20	15.02
26-3 <sup>1</sup>	1058.38	1030.17	1055.48		26.91 1031.47	26.91 1031.47	27.15 1031.23	27.15 1031.23	27.14 1031.24	26.87 1031.51	26.96 1031.42	26.91 1031.47	26.93 1031.45	26.90 1031.48	26.90 1031.48	14.90
26-4	1056.44	1033.14	1054.39		21.80 1034.64	21.81 1034.63	21.82 1034.62	21.84 1034.60	21.85 1034.59	21.86 1034.58	21.87 1034.57	21.87 1034.57	21.85 1034.59	21.85 1034.59	21.85 1034.59	11.88

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Trench Sump ID	As Built Top of Sump Elevation (feet msl) June 03	Bottom Elevation (feet msl)	As Built Top of Ground Elevation (feet msl) June 03	Depth to Leachate from top of Sump (feet) and Current Condition Leachate Elevation (feet msl)												Calculated Freeboard Using November 2002 Data
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
27-9 <sup>1</sup>	1062.74	1026.24	1060.74	28.08 1034.66	28.08 1034.66	28.04 1034.70	28.04 1034.70	27.77 1034.97	27.70 1035.04	27.67 1035.07	27.66 1035.08	27.65 1035.09	27.60 1035.14	27.56 1035.18	15.09	
27-11 <sup>2</sup>	1064.78	1039.98	1062.45	25.80 1038.98	25.80 1038.98			25.80 1038.98		25.80 1038.98			25.80 1038.98	25.80 1038.98	12.85	
28W <sup>1</sup>	1064.15	1036.67	1061.44	26.10 1038.05	26.10 1038.05	26.78 1037.37	26.70 1037.45	26.70 1037.45	26.10 1038.05	26.00 1038.15	25.98 1038.17	25.98 1038.17	25.98 1038.17	25.95 1038.20	14.36	
28-6 <sup>2</sup>	1064.58	1036.98	1062.16	27.60 1036.98	27.60 1036.98			27.60 1036.98				27.60 1036.98	27.60 1036.98	27.60 1036.98	14.96	
28-11 <sup>2</sup>	1063.79	1036.79	1062.02	27.00 1036.79	27.00 1036.79			27.10 1036.69				27.10 1036.69	27.20 1036.59	27.20 1036.59	14.39	
28-12 <sup>2</sup>	1065.48	1039.08	1064.02	26.40 1039.08	26.40 1039.08			26.40 1039.08				27.20 1038.28	26.40 1039.08	26.40 1039.08	13.15	
29W	1063.52	1036.82	1061.65	25.04 1038.48	25.04 1038.48	25.14 1038.38	25.13 1038.39	25.11 1038.41	25.11 1038.41	24.97 1038.55	24.90 1038.62	24.97 1038.55	24.93 1038.59	24.90 1038.62	13.41	
29-5 <sup>1</sup>	1066.43	1038.48	1063.89	27.79 1038.64	27.79 1038.64	28.10 1038.33	28.10 1038.33	28.09 1038.34	27.80 1038.63	27.80 1038.63	27.79 1038.64	27.80 1038.63	27.80 1038.63	27.80 1038.63	13.98	
29-6	1064.24	1038.10	1062.19	25.50 1038.74	25.61 1038.63	25.61 1038.63	25.61 1038.63	25.61 1038.63	25.61 1038.63	25.61 1038.63	25.60 1038.64	25.60 1038.64	25.60 1038.64	25.60 1038.64	13.69	
30-4 <sup>1</sup>	1062.29	1039.04	1059.98	23.11 1039.18	23.11 1039.18	23.40 1038.89	23.40 1038.89	23.40 1038.89	23.11 1039.18	23.03 1039.26	23.03 1039.26	23.02 1039.27	23.02 1039.27	23.02 1039.27	11.63	
30-8	1067.21	1037.41	1066.26	29.10 1038.11	29.06 1038.15	29.10 1038.11	29.15 1038.06	29.21 1038.00	29.26 1037.95	29.31 1037.90	29.35 1037.86	29.38 1037.83	29.39 1037.82	29.38 1037.83	15.03	
30-10 <sup>2</sup>	1066.15	1036.95	1064.35	29.20 1036.95	29.20 1036.95			29.20 1036.95				29.20 1036.95	29.20 1036.95	29.20 1036.95	14.53	

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 Leachate Level Measurements of Trench Sumps  
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Trench Sump ID	As Built Top of Sump Elevation (feet msl) June 03	Bottom Elevation (feet msl)	As Built Top of Ground Elevation (feet msl) June 03	Depth to Leachate from top of Sump (feet) and Current Condition Leachate Elevation (feet msl)												Calculated Freeboard Using November 2002 Data
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
31-2 <sup>1</sup>	1065.86	1040.03	1064.54		24.98 1040.88	24.98 1040.88	25.28 1040.58	25.29 1040.57	25.28 1040.58	24.96 1040.90	24.08 1041.78	24.05 1041.81	25.18 1040.68	25.19 1040.67	25.20 1040.66	13.19
31-5	1062.13	1038.86	1059.67		23.00 1039.13	23.00 1039.13	23.13 1039.00	23.13 1039.00	23.13 1039.00	23.13 1039.00	23.13 1039.00	23.13 1039.00	23.13 1039.00	23.13 1039.00	23.13 1039.00	12.85
31-7	1065.30	1040.25	1063.74		24.80 1040.50	24.76 1040.54	24.83 1040.47	24.87 1040.43	24.90 1040.40	24.90 1040.40	24.91 1040.39	24.91 1040.39	24.90 1040.40	24.88 1040.42	24.85 1040.45	13.17
31-9	1066.46	1039.29	1064.05		24.90 1041.56	25.04 1041.42	25.04 1041.42	25.04 1041.42	25.04 1041.42	25.04 1041.42	25.04 1041.42	25.05 1041.41	25.00 1041.46	25.04 1041.42	25.04 1041.42	13.68
32E	1064.75	1035.54	1063.46		29.20 1035.55	29.37 1035.38	29.34 1035.41	29.35 1035.40	29.35 1035.40	29.35 1035.40	29.35 1035.40	29.35 1035.40	29.35 1035.40	29.34 1035.41	29.34 1035.41	15.21
32-9 <sup>1</sup>	1065.27	1035.71	1063.84		28.69 1036.58	28.69 1036.58	28.89 1036.38	28.90 1036.37	28.90 1036.37	28.70 1036.57	28.68 1036.59	28.63 1036.64	28.65 1036.62	28.65 1036.62	28.65 1036.62	15.66
35-2	1064.08	1034.19	1061.00		27.10 1036.98	27.15 1036.93	27.18 1036.90	27.21 1036.87	27.24 1036.84	27.24 1036.84	27.24 1036.84	27.24 1036.84	27.25 1036.83	27.25 1036.83	27.28 1036.80	15.06
35-6 <sup>1</sup>	1063.04	1034.41	1060.81		27.46 1035.58	27.46 1035.58	27.76 1035.28	27.76 1035.28	27.76 1035.28	27.49 1035.55	27.53 1035.51	27.51 1035.53	27.50 1035.54	27.47 1035.57	27.47 1035.57	14.92
36-3 <sup>1</sup>	1062.52	1039.97	1061.14		20.51 1042.01	20.51 1042.01	20.92 1041.60	20.95 1041.57	20.92 1041.60	20.53 1041.99	20.62 1041.90	20.76 1041.76	20.75 1041.77	20.75 1041.77	20.74 1041.78	11.05
36-6 <sup>1</sup>	1066.55	1039.35	1063.06		23.78 1042.77	23.78 1042.77	24.95 1041.60	25.15 1041.40	25.15 1041.40	23.90 1042.65	23.88 1042.67	23.86 1042.69	23.85 1042.70	23.84 1042.71	23.84 1042.71	13.75
36-7 <sup>2</sup>	1064.64	1041.84	1062.18		22.70 1041.94	22.80 1041.84			22.80 1041.84				22.80 1041.84	22.80 1041.84	22.80 1041.84	12.58
37-3 <sup>1</sup>	1055.27	1030.92	1053.45		23.03 1032.24	23.03 1032.24	23.38 1031.89	23.40 1031.87	23.40 1031.87	23.03 1032.24	22.98 1032.29	22.90 1032.37	22.91 1032.36	22.86 1032.41	22.85 1032.42	12.40

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Trench Sump ID	As Built Top of Sump Elevation (feet msl) June 03	Bottom Elevation (feet msl)	As Built Top of Ground Elevation (feet msl) June 03	Depth to Leachate from top of Sump (feet) and Current Condition Leachate Elevation (feet msl)												Calculated Freeboard Using November 2002 Data
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
37-4	1055.86	1032.28	1053.60	23.50	23.50	23.57	23.57	23.57	23.57	23.57	23.57	23.57	23.57	23.56	23.56	12.82
				1032.36	1032.36	1032.29	1032.29	1032.29	1032.29	1032.29	1032.29	1032.29	1032.29	1032.30	1032.30	
38-4	1055.75	1034.05	1053.10	21.90	21.86	21.97	21.95	21.99	21.98	21.93	21.94	21.93	21.89	21.85	12.23	
				1033.85	1033.89	1033.78	1033.80	1033.76	1033.77	1033.82	1033.81	1033.82	1033.86	1033.90		
38-5 <sup>1</sup>	1055.53	1032.06	1053.33	21.51	21.51	21.51	21.81	21.81	21.49	21.50	21.45	21.50	21.41	20.75	11.83	
				1034.02	1034.02	1034.02	1033.72	1033.72	1034.04	1034.03	1034.08	1034.03	1034.12	1034.78		
39-1 <sup>1</sup>	1056.84	1031.70	1053.99	20.39	20.39	21.89	21.89	21.89	20.49	20.17	20.78	20.75	20.75	20.75	11.73	
				1036.45	1036.45	1034.95	1034.95	1034.95	1036.35	1036.67	1036.06	1036.09	1036.09	1036.09		
39-4	1056.93	1037.81	1054.36	19.20	19.20	19.34	19.34	19.34	19.34	19.34	19.34	19.20	19.20	19.24	10.80	
				1037.73	1037.73	1037.59	1037.59	1037.59	1037.59	1037.59	1037.59	1037.73	1037.73	1037.69		
40-15 <sup>1</sup>	1047.28	1025.88	1045.71	21.08	21.08	21.50	21.50	21.52	21.20	21.43	21.42	21.42	21.42	21.42	10.70	
				1026.20	1026.20	1025.78	1025.78	1025.76	1026.08	1025.85	1025.86	1025.86	1025.86	1025.86		
40-17	1052.66	1021.08	1051.00	28.80	28.79	28.81	28.82	28.83	28.82	28.81	28.78	28.81	28.79	28.78	15.21	
				1023.86	1023.87	1023.85	1023.84	1023.83	1023.84	1023.85	1023.88	1023.85	1023.87	1023.88		
40-19	1054.59	1022.40	1053.12	30.30	30.24	30.28	30.28	30.28	30.25	30.23	30.23	30.21	30.18	30.16	15.89	
				1024.29	1024.35	1024.31	1024.31	1024.31	1024.34	1024.36	1024.36	1024.38	1024.41	1024.43		
40-22 <sup>1</sup>	1056.95	1021.10	1054.82	32.47	32.49	32.53	32.63	32.58	32.44	32.50	32.30	32.31	32.28	32.27	17.33	
				1024.48	1024.46	1024.42	1024.32	1024.37	1024.51	1024.45	1024.65	1024.64	1024.67	1024.68		
42-11	1049.49	1017.72	1048.09	28.60	28.57	28.62	28.61	28.59	28.57	28.43	28.55	28.53	28.50	28.50	15.00	
				1020.89	1020.92	1020.87	1020.88	1020.90	1020.92	1021.06	1020.94	1020.96	1020.99	1020.99		
42-19 <sup>1</sup>	1046.99	1016.41	1043.88	27.66	27.66	27.72	28.04	28.06	27.74	27.68	27.65	27.66	27.66	27.66	15.40	
				1019.33	1019.33	1019.27	1018.95	1018.93	1019.25	1019.31	1019.34	1019.33	1019.33	1019.33		
42-20 <sup>1</sup>	1052.04	1016.90	1049.86	35.22	35.22	35.50	35.50	35.55	35.20	35.57	35.56	35.56	35.56	35.55	18.77	
				1016.82	1016.82	1016.54	1016.54	1016.49	1016.84	1016.47	1016.48	1016.48	1016.48	1016.49		

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 Leachate Level Measurements of Trench Sumps  
 2003

Trench Sump ID	As Built Top of Sump Elevation (feet msl) June 03	Bottom Elevation (feet msl)	As Built Top of Ground Elevation (feet msl) June 03	Depth to Leachate from top of Sump (feet) and Current Condition Leachate Elevation (feet msl)												Calculated Freeboard Using November 2002 Data
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
43-7 <sup>1</sup>	1047.17	1010.00	1045.88	35.95 1011.22	35.95 1011.22	36.21 1010.96	36.20 1010.97	36.22 1010.95	35.94 1011.23	36.00 1011.17	34.95 1012.22	34.93 1012.24	34.85 1012.32	34.95 1012.22	18.62	
43-9	1045.19	1008.93	1043.76	34.20 1010.99	34.12 1011.07	34.21 1010.98	34.23 1010.96	34.25 1010.94	34.25 1010.94	34.26 1010.93	34.26 1010.93	34.27 1010.92	34.26 1010.93	34.27 1010.92	17.79	
43-13 <sup>1</sup>	1041.02	1008.50	1040.29	30.49 1010.53	30.49 1010.53	30.73 1010.29	30.73 1010.29	30.75 1010.27	30.50 1010.52	30.50 1010.52	30.46 1010.56	30.49 1010.53	30.51 1010.51	30.50 1010.52	15.54	
44-5 <sup>1</sup>	1057.33	1013.71	1055.17	43.42 1013.91	43.30 1014.03	43.29 1014.04	43.32 1014.01	43.31 1014.02	41.50 1015.83	41.50 1015.83	41.40 1015.93	41.46 1015.87	41.46 1015.87	41.50 1015.83	21.80	
44-14	1048.42	1013.83	1046.62	34.20 1014.22	34.34 1014.08	34.34 1014.08	34.34 1014.08	34.35 1014.07	34.34 1014.08	34.35 1014.07	34.35 1014.07	34.35 1014.07	34.35 1014.07	34.34 1014.08	34.35 1014.07	18.05
44-20 <sup>1</sup>	1052.25	1013.10	1049.58	23.84 1028.41	23.84 1028.41	24.10 1028.15	26.85 1025.40	29.10 1023.15	38.50 1013.75	38.07 1014.18	38.06 1014.19	38.49 1013.76	38.50 1013.75	38.50 1013.75	20.59	
44-22	1055.02	1014.17	1053.09	39.90 1015.12	39.85 1015.17	39.89 1015.13	39.91 1015.11	39.86 1015.16	39.87 1015.15	39.88 1015.14	39.86 1015.16	39.85 1015.17	39.87 1015.15	39.87 1015.15	20.92	
45-1 <sup>1</sup>	1054.78	1020.33	1052.02	32.16 1022.62	32.16 1022.62	31.47 1023.31	31.47 1023.31	30.89 1023.89	30.21 1024.57	29.81 1024.97	29.56 1025.22	29.34 1025.44	29.60 1025.18	29.60 1025.18	16.13	
46-1	1054.17	1026.45	1051.54	25.80 1028.37	25.79 1028.38	25.77 1028.40	25.72 1028.45	25.64 1028.53	25.58 1028.59	25.52 1028.65	25.45 1028.72	25.38 1028.79	25.31 1028.86	25.26 1028.91	14.27	
46-2	1052.89	1028.46	1050.37	22.20 1030.69	22.16 1030.73	22.17 1030.72	22.13 1030.76	22.07 1030.82	22.07 1030.82	22.07 1030.82	22.07 1030.82	22.01 1030.88	21.95 1030.94	21.92 1030.97	12.34	
46-3 <sup>1</sup>	1052.27	1015.27	1048.09	21.72 1030.55	21.72 1030.55	21.72 1030.55	21.72 1030.55	21.62 1030.65	21.52 1030.75	20.94 1031.33	19.08 1033.19	18.63 1033.64	18.70 1033.57	18.80 1033.47	11.34	

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**APPENDIX H3**

**MAXEY FLATS DISPOSAL SITE  
TRENCH SUMP FREEBOARD  
2003**

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Sump ID	As Built Top of Sump Elevation (feet msl) JUN03	As Built Top of Ground Elevation (feet msl) JUN03	Depth to Leachate From Top of Sump (feet) NOV02**	Current Condition Leachate Elevation (feet msl) NOV02	Calculated Freeboard *** (feet)	Calculated Depth to Leachate from Top of Sump for 50% freeboard (feet)	Remarks Prepared by
1-2	1056.17	1055.30	20.80	1035.37	19.93	10.84	Depth to leachate measured 18JUN02
2-6	1057.51	1055.59	21.45	1036.06	19.53	11.69	
3-2	1059.45	1057.83	23.00	1036.45	21.38	12.31	Depth to leachate measured by KY DEC02 - JAN03
3-4	1054.33	1052.99	15.63	1038.70	14.29	8.48	
7-4	1052.42	1051.00	15.28	1037.14	13.86	8.35	
7-5	1057.95	1055.68	18.43	1039.52	16.16	10.35	
7-7	1059.01	1057.91	19.33	1039.68	18.23	10.22	
10-7	1060.34	1058.53	27.83	1032.51	26.02	14.82	
10-8	1058.78	1057.18	27.51	1031.27	25.91	14.56	
10-9	1054.92	1052.70	26.06	1028.86	23.84	14.14	
11-5	1057.08	1055.42	20.92	1036.16	19.26	11.29	
11-6	1063.22	1061.82	24.03	1039.19	22.63	12.72	
15-4	1062.04	1060.30	26.68	1035.36	24.94	14.21	
15-5	1061.21	1059.77	24.14	1037.07	22.70	12.79	
15-6	1059.46	1057.63	28.88	1030.58	27.05	15.36	
15-8	1055.85	1053.67	22.21	1033.64	20.03	12.19	
18-6	1065.42	1064.01	30.41	1035.01	29.00	15.91	
18-9	1059.54	1058.20	dry	dry	20.54	10.94	Sump depth (from TOC) = 21.88 ft, sump bottom elevation = 1037.66 ft msl
19-5	1063.23	1061.77	28.85	1034.38	27.39	15.16	
19-6	1058.71	1056.39	23.50	1035.21	21.18	12.91	
19-7	1064.26	1062.46	30.80	1033.46	29.00	16.30	
20-W	1065.49	1063.70	26.50	1038.99	24.71	14.15	Depth to leachate measured 18JUN02
20-7	1063.29	1061.45	29.85	1033.44	28.01	15.85	
20-9	1065.36	1063.28	30.06	1035.30	27.98	16.07	
20-11	1059.06	1057.32	24.21	1034.85	22.47	12.98	
23-5	1063.61	1061.48	31.20	1032.41	29.07	16.66	
23-6	1064.28	1062.25	31.17	1033.11	29.14	16.60	
23-9	1059.08	1056.61	24.55	1034.53	22.08	13.51	

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Sump ID	As Built Top of Sump Elevation (feet msl) JUN03	As Built Top of Ground Elevation (feet msl) JUN03	Depth to Leachate From Top of Sump (feet) NOV02**	Current Condition Leachate Elevation (feet msl) NOV02	Calculated Freeboard *** (feet)	Calculated Depth to Leachate from Top of Sump for 50% freeboard (feet)	Remarks Prepared by
24-5	1058.86	1056.85	23.37	1035.49	21.36	12.69	
24-6	1062.47	1060.40	26.45	1036.02	24.38	14.26	
25-5	1059.82	1058.05	22.91	1036.91	21.14	12.34	
25-7	1060.71	1059.21	25.05	1035.66	23.55	13.28	
25-9	1057.05	1054.89	22.59	1034.46	20.43	12.37	
26-2	1059.31	1057.38	28.11	1031.20	26.18	15.02	
26-3	1058.38	1055.48	26.90	1031.48	24.00	14.90	
26-4	1056.44	1054.39	21.70	1034.74	19.65	11.88	
27-9	1062.84	1060.74	28.07	1034.77	25.97	15.09	
27-11	1064.78	1062.45	dry	dry	23.37	12.85	Sump depth (from TOC) = 25.70 ft, sump bottom elevation = 1039.08 ft msl
28-W	1064.15	1061.44	26.00	1038.15	23.29	14.36	
28-6	1064.58	1062.16	27.50	1037.08	25.08	14.96	
28-11	1063.79	1062.02	27.00	1036.79	25.23	14.39	
28-12	1065.48	1064.02	dry	dry	24.84	13.15	Sump depth (from TOC) = 26.30 ft, sump bottom elevation = 1039.18 ft msl
29-W	1063.52	1061.65	24.95	1038.57	23.08	13.41	
29-5	1066.43	1063.89	dry	dry	25.41	13.98	Sump depth (from TOC) = 27.95 ft, sump bottom elevation = 1038.48 ft msl
29-6	1064.24	1062.19	25.33	1038.91	23.28	13.69	
30-4	1062.29	1059.98	dry	dry	20.94	11.63	Sump depth (from TOC) = 23.25 ft, sump bottom elevation = 1039.04 ft msl
30-8	1067.21	1066.26	29.10	1038.11	28.15	15.03	
30-10	1066.15	1064.35	dry	dry	27.26	14.53	Sump depth (from TOC) = 29.06 ft, sump bottom elevation = 1037.09 ft msl
31-2	1065.86	1064.54	25.05	1040.81	23.73	13.19	
31-5	1062.13	1059.67	23.23	1038.90	20.77	12.85	
31-7	1065.30	1063.74	24.78	1040.52	23.22	13.17	

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Sump ID	As Built Top of Sump Elevation (feet msl) JUN03	As Built Top of Ground Elevation (feet msl) JUN03	Depth to Leachate From Top of Sump (feet) NOV02**	Current Condition Leachate Elevation (feet msl) NOV02	Calculated Freeboard *** (feet)	Calculated Depth to Leachate from Top of Sump for 50% freeboard (feet)	Remarks Prepared by
31-9	1066.46	1064.05	24.95	1041.51	22.54	13.68	
32-E	1064.75	1063.46	29.13	1035.62	27.84	15.21	
32-9	1065.27	1063.84	29.89	1035.38	28.46	15.66	
35-2	1064.08	1061.00	27.04	1037.04	23.96	15.06	
35-6	1063.00	1060.81	27.65	1035.35	25.46	14.92	
36-3	1062.52	1061.14	20.73	1041.79	19.35	11.05	
36-6	1066.55	1063.06	24.00	1042.55	20.51	13.75	
36-7	1064.64	1062.18	22.70	1041.94	20.24	12.58	
37-3	1055.27	1053.45	22.97	1032.30	21.15	12.40	
37-4	1055.86	1053.60	23.37	1032.49	21.11	12.82	
38-4	1055.75	1053.10	21.80	1033.95	19.15	12.23	
38-5	1055.53	1053.33	21.45	1034.08	19.25	11.83	
39-1	1056.84	1053.99	20.60	1036.24	17.75	11.73	Depth to leachate from datalogger 01NOV02
39-4	1056.93	1054.36	19.02	1037.91	16.45	10.80	
40-15	1047.28	1045.71	dry	dry	19.83	10.70	Sump depth (from TOC) = 21.40 ft, sump bottom elevation = 1025.88 ft msl
40-17	1052.66	1051.00	28.75	1023.91	27.09	15.21	
40-19	1054.59	1053.12	30.30	1024.29	28.83	15.89	
40-22	1056.95	1054.82	32.53	1024.42	30.40	17.33	
42-11	1049.49	1048.09	28.60	1020.89	27.20	15.00	
42-19	1046.99	1043.88	27.70	1019.29	24.59	15.40	
42-20	1052.04	1049.86	35.35	1016.69	33.17	18.77	
43-7	1047.17	1045.88	35.95	1011.22	34.66	18.62	
43-9	1045.19	1043.76	34.15	1011.04	32.72	17.79	
43-13	1041.02	1040.29	30.35	1010.67	29.62	15.54	
44-5	1057.33	1055.17	41.45	1015.88	39.29	21.80	
44-14	1048.42	1046.62	34.30	1014.12	32.50	18.05	
44-20	1052.25	1049.58	38.50	1013.75	35.83	20.59	

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<b>Sump ID</b>	<b>As Built Top of Sump Elevation (feet msl)</b> JUN03	<b>As Built Top of Ground Elevation (feet msl)</b> JUN03	<b>Depth to Leachate From Top of Sump (feet)</b> NOV02**	<b>Current Condition Leachate Elevation (feet msl)</b> NOV02	<b>Calculated Freeboard *** (feet)</b>	<b>Calculated Depth to Leachate from Top of Sump for 50% freeboard (feet)</b>	<b>Remarks Prepared by</b>
<b>44-22</b>	1055.02	1053.09	39.90	1015.12	37.97	20.92	Depth to leachate measured by KY DEC02 - JAN03
<b>45-1</b>	1054.78	1052.02	29.50	1025.28	26.74	16.13	
<b>46-1</b>	1054.17	1051.54	25.90	1028.27	23.27	14.27	
<b>46-2</b>	1052.89	1050.37	22.15	1030.74	19.63	12.34	
<b>46-3</b>	1052.27	1048.09	18.50	1033.77	14.32	11.34	

\* Current condition water level data are baseline levels at the time of the IRP RA Construction Completion

\*\* Sump water levels were measured from 01NOV02 - 02NOV02. Specific exceptions are listed in the Remarks column.

\*\*\* Freeboard is the distance from ground surface to the leachate level for the current condition. For dry sumps this is the distance from ground surface to the base of the sump

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**APPENDIX I**

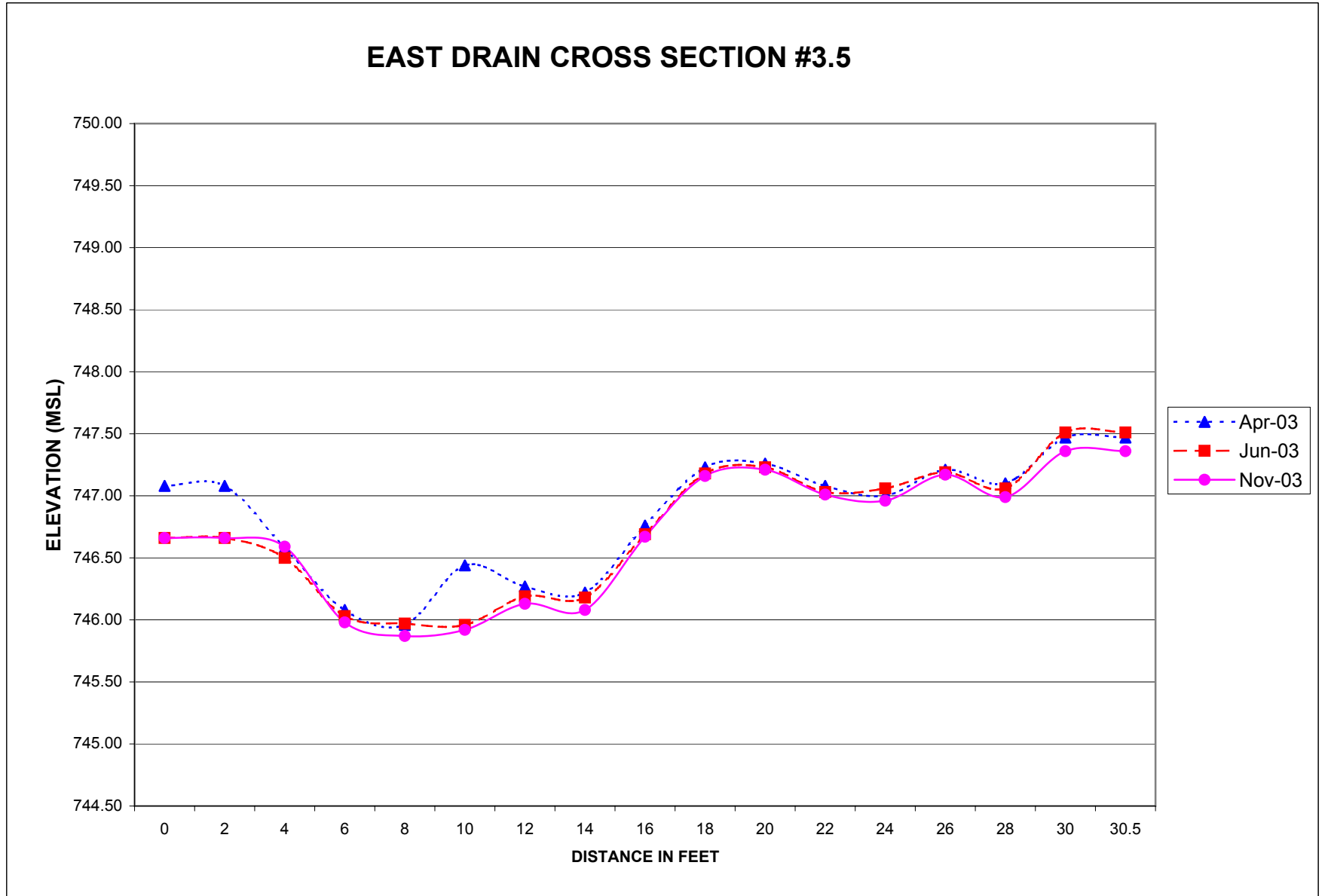
**MAXEY FLATS DISPOSAL SITE  
EAST DRAIN – EROSION MONITORING  
2003**

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**APPENDIX I1**

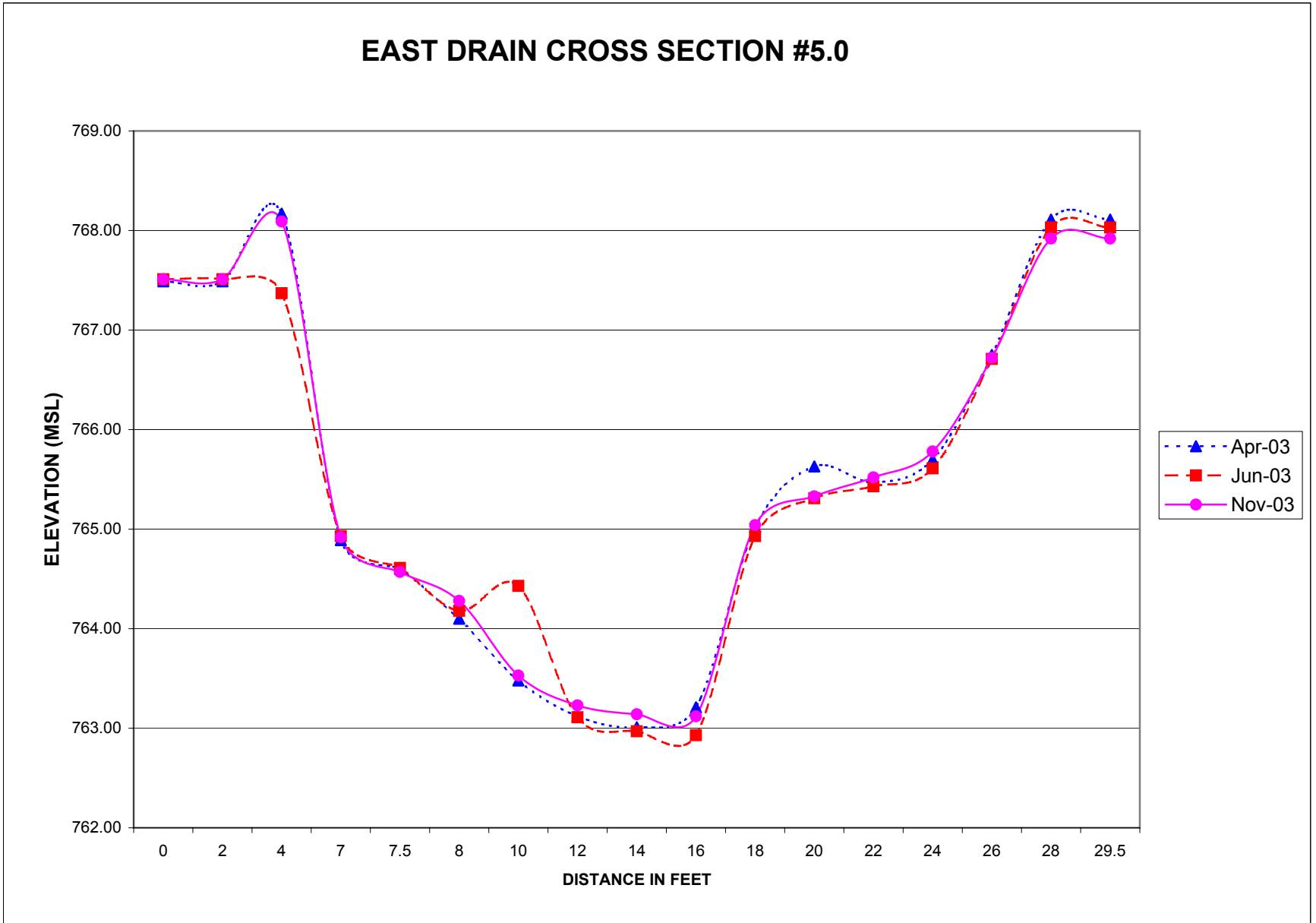
**EAST DRAIN – EROSION MONITORING  
CROSS-SECTION CHARTS  
2003**

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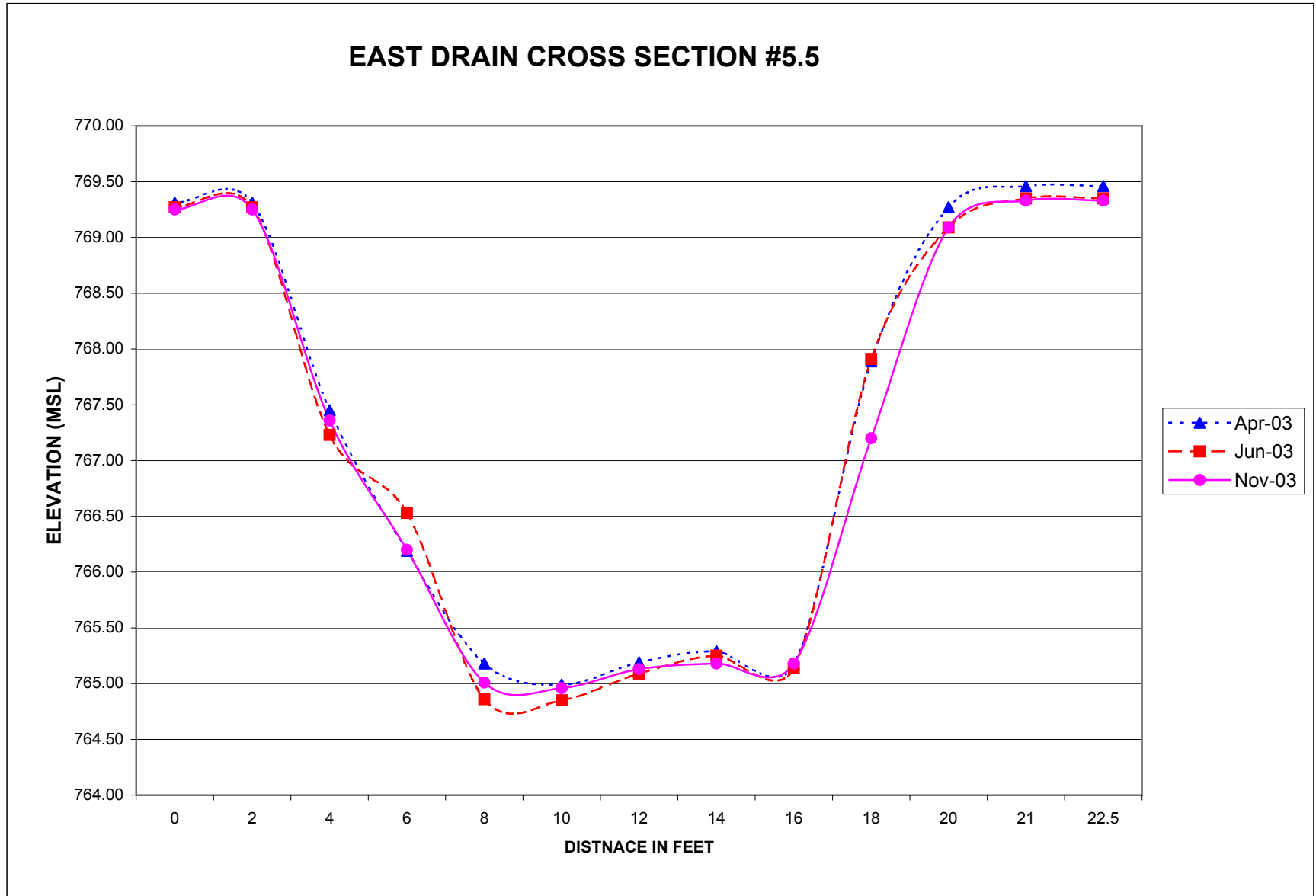




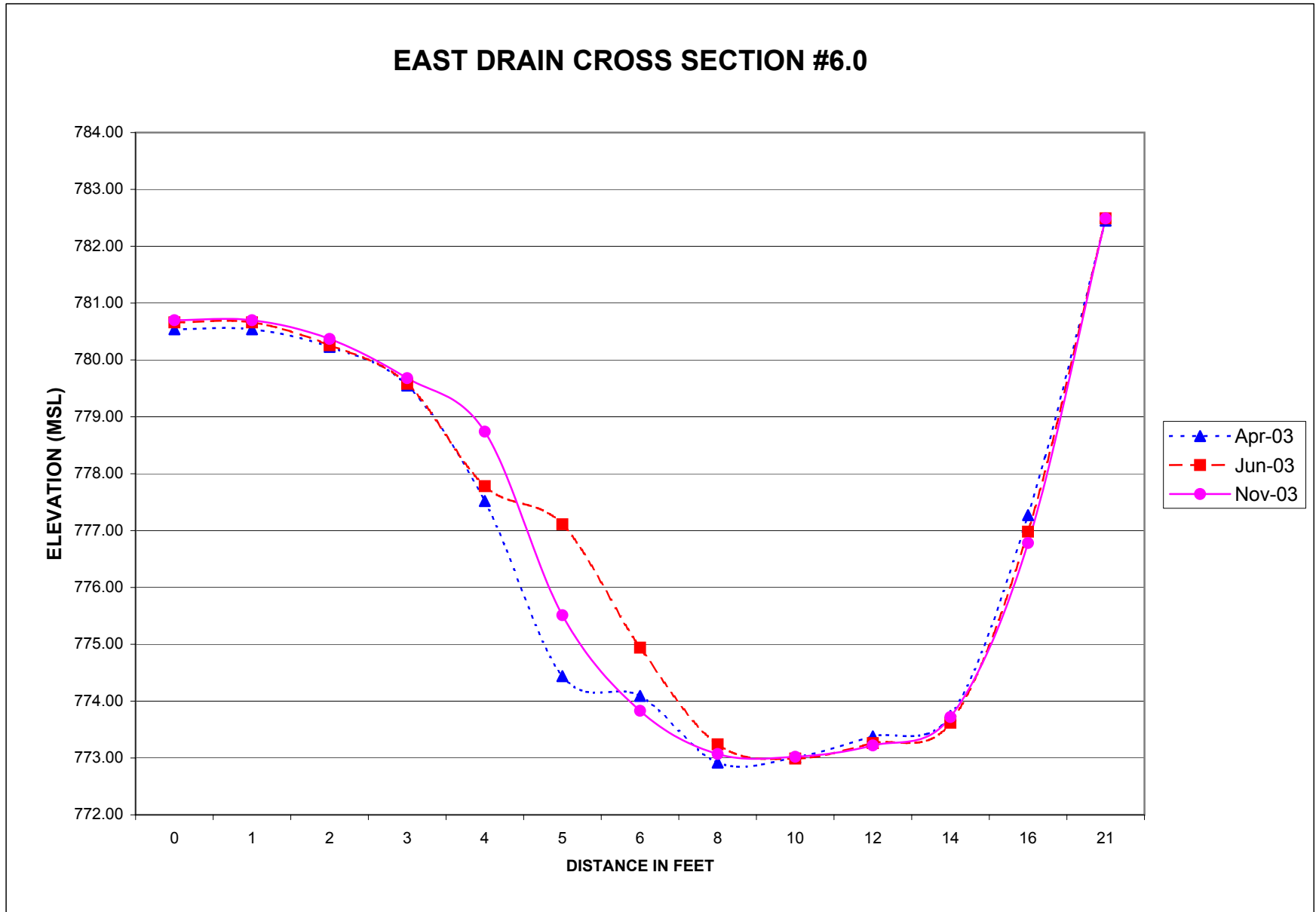
ANNUAL REPORT  
Maxey Flats Disposal Site  
2003



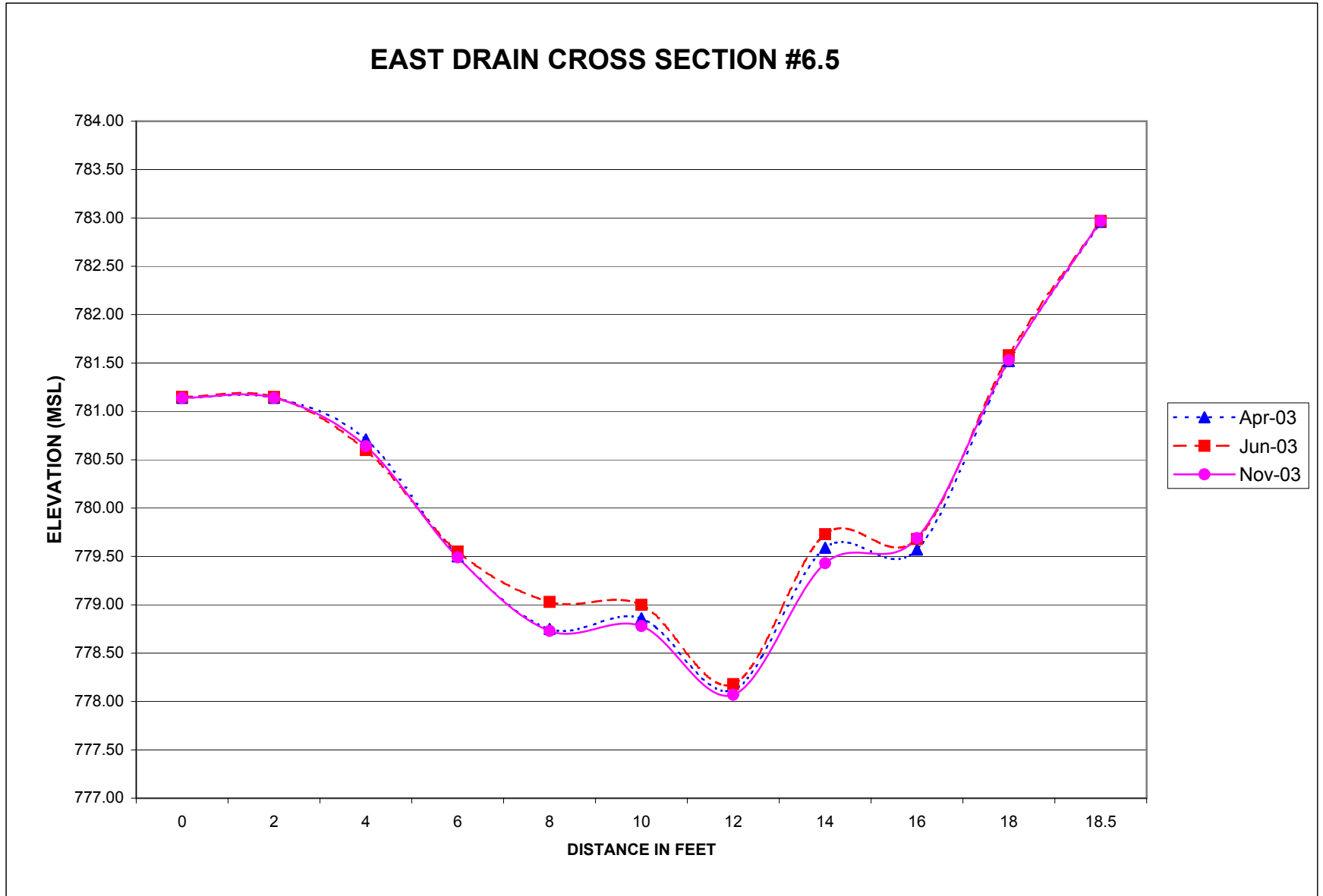
**ANNUAL REPORT**  
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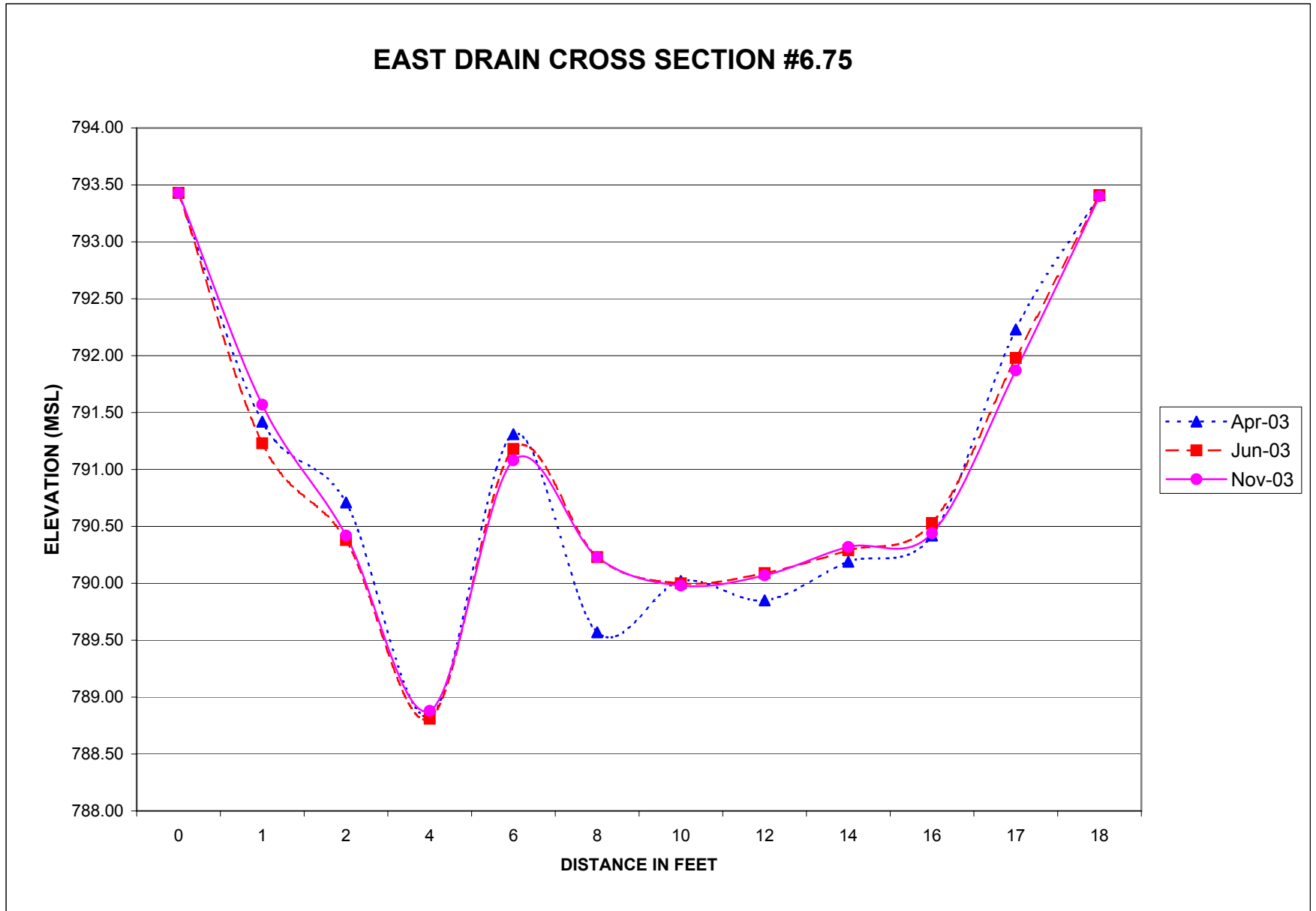
ANNUAL REPORT  
Maxey Flats Disposal Site  
2003



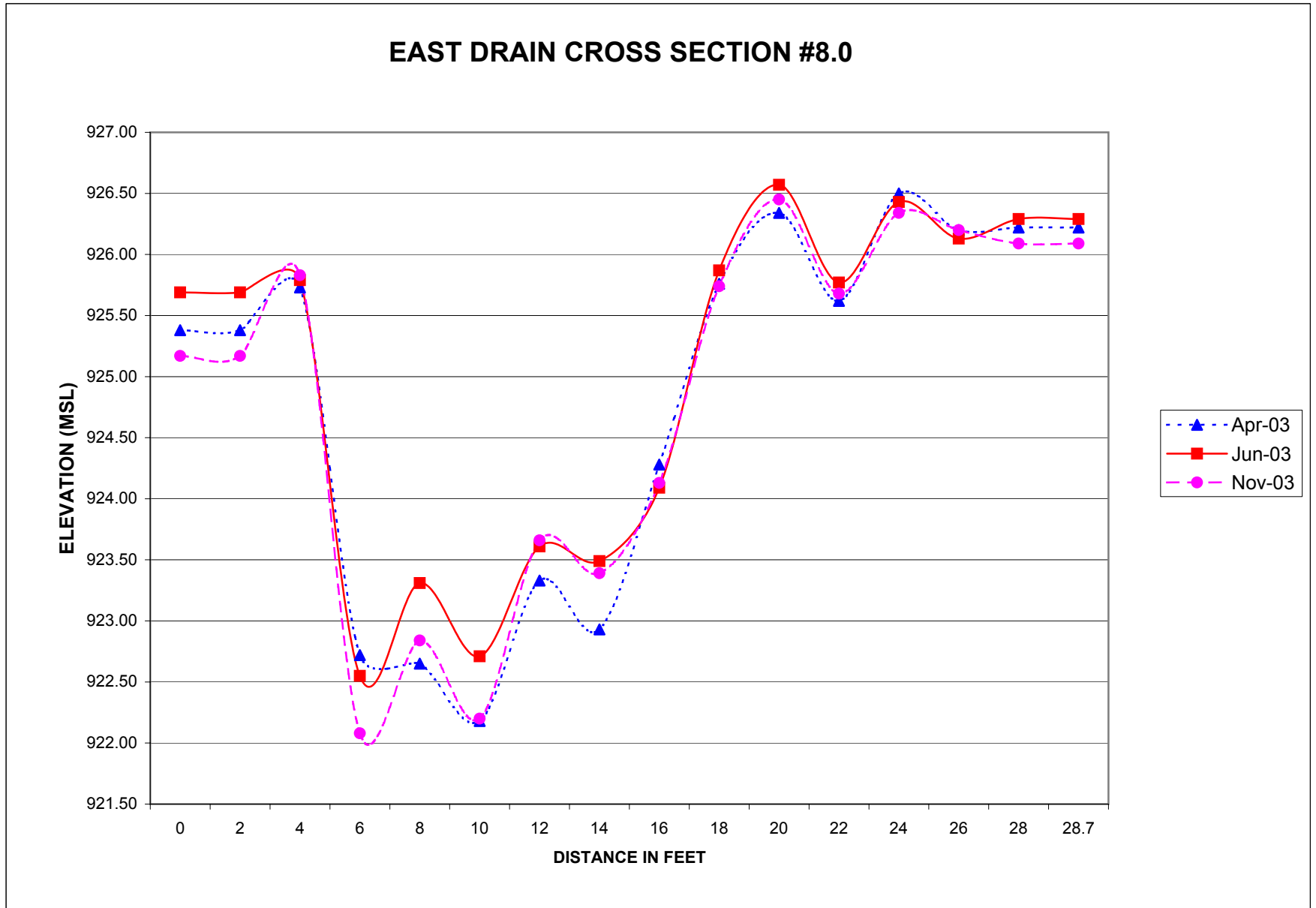
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Maxey Flats Disposal Site  
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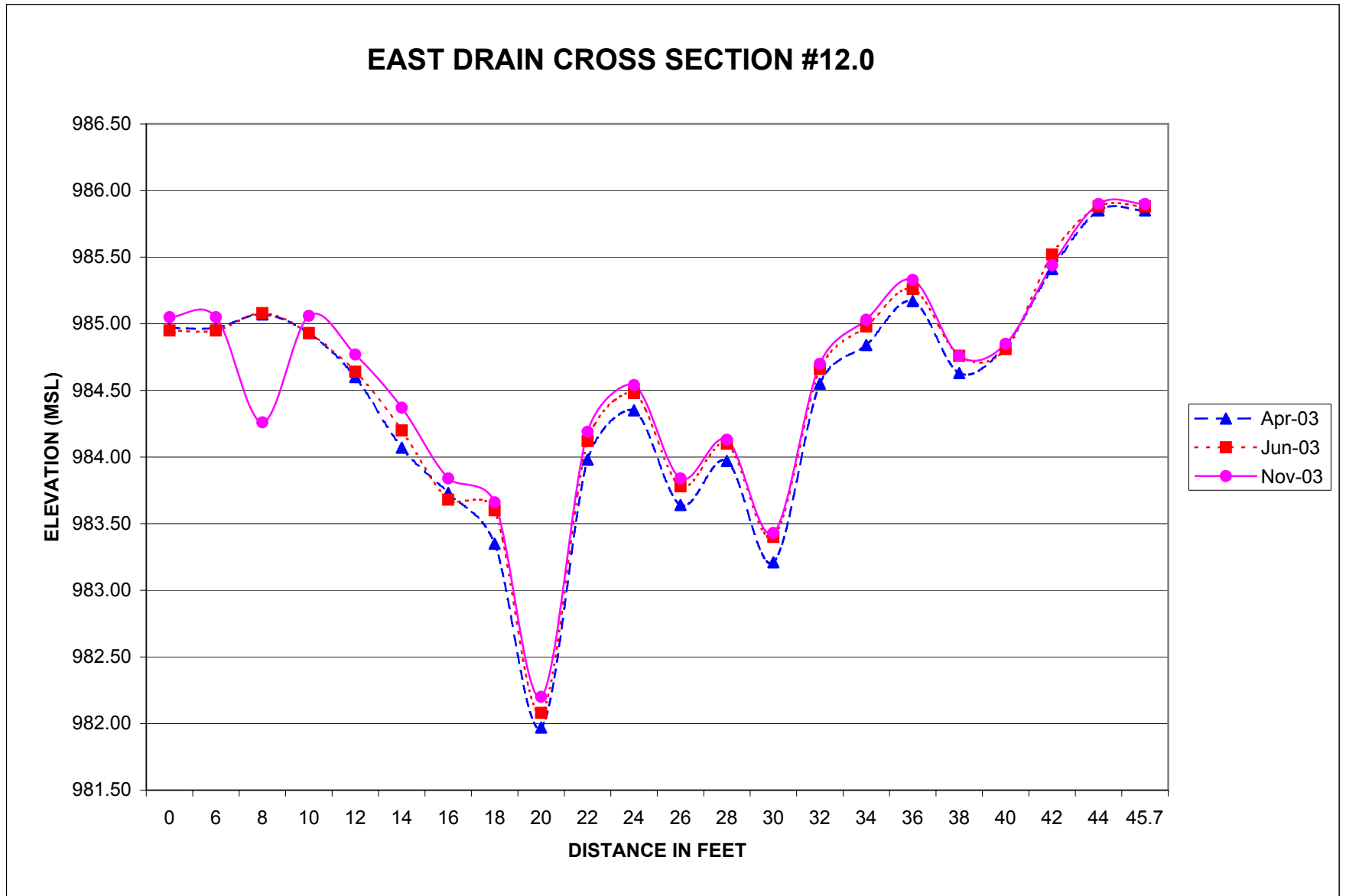
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**APPENDIX I2**

**EAST DRAIN – EROSION MONITORING  
CROSS-SECTION DATA SUMMARY  
2003**



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 Maxey Flats Disposal Site  
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MAXEY FLATS, EAST DRAIN CROSS SECTION # 3.5

STATION	DATE Apr-03	DATE Jun-03	DATE Nov-03
0	747.08	746.66	746.66
2	747.08	746.66	746.66
4	746.58	746.50	746.59
6	746.08	746.03	745.98
8	745.96	745.97	745.87
10	746.44	745.96	745.92
12	746.27	746.19	746.13
14	746.22	746.18	746.08
16	746.76	746.69	746.67
18	747.23	747.18	747.16
20	747.26	747.23	747.21
22	747.08	747.03	747.01
24	747.00	747.06	746.96
26	747.21	747.19	747.17
28	747.10	747.06	746.99
30	747.47	747.51	747.36
30.5	747.47	747.51	747.36

MAXEY FLATS, EAST DRAIN CROSS SECTION # 5.0

STATION	DATE Apr-03	DATE Jun-03	DATE Nov-03
0	767.49	767.51	767.51
2	767.49	767.51	767.51
4	768.17	767.37	768.09
7	764.89	764.93	764.92
7.5	764.60	764.61	764.57
8	764.10	764.18	764.28
10	763.48	764.43	763.53
12	763.12	763.11	763.23
14	763.01	762.97	763.14
16	763.21	762.93	763.12
18	765.02	764.93	765.04
20	765.63	765.31	765.33
22	765.47	765.43	765.52
24	765.70	765.61	765.78
26	766.75	766.71	766.72
28	768.11	768.03	767.92
29.5	768.11	768.03	767.92

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MAXEY FLATS, EAST DRAIN CROSS SECTION # 5.5

STATION	DATE Apr-03	DATE Jun-03	DATE Nov-03
0	769.31	769.27	769.25
2	769.31	769.27	769.25
4	767.45	767.23	767.36
6	766.19	766.53	766.20
8	765.18	764.86	765.01
10	764.99	764.85	764.96
12	765.19	765.09	765.13
14	765.29	765.25	765.18
16	765.17	765.14	765.18
18	767.89	767.91	767.20
20	769.27	769.09	769.09
21	769.46	769.35	769.33
22.5	769.46	769.35	769.33

MAXEY FLATS, EAST DRAIN CROSS SECTION # 6.0

STATION	DATE Apr-03	DATE Jun-03	DATE Nov-03
0	780.54	780.66	780.70
1	780.54	780.66	780.70
2	780.23	780.26	780.37
3	779.55	779.58	779.68
4	777.52	777.78	778.74
5	774.44	777.11	775.51
6	774.09	774.94	773.83
8	772.92	773.24	773.07
10	773.01	772.99	773.02
12	773.38	773.26	773.22
14	773.74	773.62	773.72
16	777.27	776.98	776.78
21	782.45	782.49	782.49

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MAXEY FLATS, EAST DRAIN CROSS SECTION # 6.5

STATION	DATE Apr-03	DATE Jun-03	DATE Nov-03
0	781.14	781.15	781.14
2	781.14	781.15	781.14
4	780.71	780.60	780.64
6	779.50	779.55	779.49
8	778.75	779.03	778.73
10	778.86	779.00	778.78
12	778.12	778.18	778.07
14	779.59	779.73	779.43
16	779.57	779.68	779.69
18	781.52	781.58	781.53
18.5	782.96	782.97	782.97

MAXEY FLATS, EAST DRAIN CROSS SECTION # 6.75

STATION	DATE Apr-03	DATE Jun-03	DATE Nov-03
0	793.43	793.43	793.43
1	791.42	791.23	791.57
2	790.71	790.38	790.42
4	788.83	788.81	788.88
6	791.31	791.18	791.08
8	789.57	790.23	790.23
10	790.02	790.00	789.98
12	789.85	790.09	790.07
14	790.19	790.29	790.32
16	790.42	790.53	790.44
17	792.23	791.98	791.87
18	793.41	793.41	793.40

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 Maxey Flats Disposal Site  
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MAXEY FLATS, EAST DRAIN CROSS SECTION # 8.0

STATION	DATE Apr-03	DATE Jun-03	DATE Nov-03
0	925.38	925.69	925.17
2	925.38	925.69	925.17
4	925.73	925.79	925.83
6	922.72	922.55	922.08
8	922.65	923.31	922.84
10	922.18	922.71	922.20
12	923.33	923.61	923.66
14	922.93	923.49	923.39
16	924.28	924.09	924.13
18	925.76	925.87	925.74
20	926.34	926.57	926.45
22	925.62	925.77	925.68
24	926.50	926.43	926.34
26	926.20	926.13	926.20
28	926.22	926.29	926.09
28.7	926.22	926.29	926.09

MAXEY FLATS, EAST DRAIN CROSS SECTION # 12.0

STATION	DATE Apr-03	DATE Jun-03	DATE Nov-03
0	984.97	984.95	985.05
6	984.97	984.95	985.05
8	985.07	985.08	984.26
10	984.93	984.93	985.06
12	984.60	984.64	984.77
14	984.07	984.20	984.37
16	983.73	983.68	983.84
18	983.35	983.60	983.66
20	981.97	982.08	982.20
22	983.98	984.12	984.19
24	984.35	984.48	984.54
26	983.64	983.78	983.84
28	983.97	984.10	984.13
30	983.21	983.40	983.43
32	984.55	984.66	984.70
34	984.84	984.98	985.03
36	985.17	985.26	985.33
38	984.63	984.76	984.76
40	984.84	984.81	984.85
42	985.41	985.52	985.44
44	985.85	985.88	985.90
45.7	985.85	985.88	985.90

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**APPENDIX I3**

**EAST DRAIN – EROSION MONITORING  
CROSS-SECTION AREAS  
2003**

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 Maxey Flats Disposal Site  
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<b>Cross Section</b>	<b>Area in Square Feet</b>		
	<b>Date Apr-03</b>	<b>Date Jun-03</b>	<b>Date Nov-03</b>
3.50	34.79	37.47	39.06
5.00	103.90	103.71	104.50
5.50	114.52	117.09	117.74
6.00	123.07	119.88	122.97
6.50	58.68	57.42	59.40
6.75	53.26	52.53	52.29
8.00	134.02	130.63	134.26
12.00	166.96	163.50	162.09