



Department of Energy

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OCT 03 2000

Mr. James A. Saric, Remedial Project Manager
U.S. Environmental Protection Agency
Region V, SRF-5J
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

DOE-1056-00

Dear Mr. Saric:

**REVISED INTEGRATED ENVIRONMENTAL MONITORING PLAN DATA REPORTING
PROCESS**

The Department of Energy (DOE) recently began re-evaluating the Integrated Environmental Monitoring Plan (IEMP) data reporting process. The goals of the re-evaluation are to improve the reporting process by:

- 1) providing data to the regulatory agencies in a more timely manner via a password protected IEMP Extranet Site
- 2) streamlining the quarterly reports
- 3) minimizing the comment response cycle.

The general approach for revising the IEMP reporting process was discussed with the Ohio Environmental Protection Agency (OEPA) during a conference call on August 3, 2000, and the OEPA was supportive of these ideas. Based on that conversation, DOE began to work out details of the revised IEMP reporting format. This information was presented to the OEPA during an August 31, 2000 meeting.

The purpose of this letter is to summarize the proposed improvements to the data reporting process, as presented at the August 31 meeting, and to transmit materials used at that meeting for your approval. A discussion of each IEMP reporting component, as presented at the meeting, is provided below. This information will also be included in the Integrated Environmental Monitoring Plan, Revision 2, to be submitted in October 2000. The agenda and the overhead slides used at the August 31 meeting are enclosed as Attachment 1.

OCT 03 2000

Mr. James A. Saric

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The IEMP Extranet Site

The IEMP Data Information Site (i.e., the IEMP Extranet site) is being developed to allow the regulatory agencies access to IEMP data in a more timely manner. All IEMP data previously provided on the CD-ROM each quarter will be made available by up to several months sooner, and can be downloaded and or queried on-line to facilitate review. In addition, some information not previously available on the CD-ROM will be provided on the IEMP Extranet site, including groundwater extraction and re-injection well operational data, On-Site Disposal Facility (OSDF) accumulation rates, and the quarterly wind rose. Data files on the IEMP Extranet site will also include a comment field where brief information related to that result can be provided, as applicable. Over the next several months, DOE will continue to add more information to the IEMP Extranet site, and it will be fully functional by January 1, 2001. At that time, efforts will be directed toward enhancing the graphics capabilities to the web page and incorporating input from the regulatory agencies. Printouts of some example IEMP Extranet site screens are provided in Attachment 2. Charts for each media illustrating improvements in data availability through use of the IEMP Extranet site are included in Attachment 3.

Quarterly Summaries

The quarterly summaries represent a significant change from the previous IEMP quarterly status reports. These brief submittals will not attempt to consolidate all data from a monitoring period (i.e., a quarter), nor will they provide in-depth discussion and interpretation of all IEMP data. The quarterly summaries will serve as an accompaniment to the data on the IEMP Extranet site by identifying any notable results or events related to the IEMP data covered (see Attachment 4 for more information on notable results or events). Also, the summaries will identify the data added to the site during the quarter's timeframe. Based on the U.S. Environmental Protection Agency (U.S. EPA) and OEPA requests, supporting tables and graphs will be provided for notable results/events, as applicable.

All data covered under a quarterly summary will have been available to the regulatory agencies prior to issuing the report. In addition, any notable events that could impact an IEMP program will have already been discussed with the regulatory agencies during weekly conference calls, or otherwise. Therefore, the quarterly summaries will serve to document and recap data added to the IEMP Extranet site each quarter. It is proposed that the quarterly summaries will be submitted to the regulatory agencies for informational purposes, and therefore, they will not be subject to formal review and comment.

An example quarterly summary is included in Attachment 5. This was developed for the first quarter of 2001 using hypothetical results/events (many of which occurred during the first quarter of 2000) to demonstrate how the DOE envisions these reports. Of note, this was modified slightly from the version handed out at the August 31, 2000 meeting to reflect input provided by OEPA (i.e., graphical displays of notable data have been included). Finally, the schedule for submitting the quarterly summaries and transitioning from the current quarterly reports to the quarterly summaries is included in Attachment 6.

OCT 03 2000

Mr. James A. Saric

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The Annual Integrated Site Environmental Report

The annual Integrated Site Environmental Report (ISER) will continue to be submitted on June 1 of each year. This report will remain essentially the same as in years past, serving as the comprehensive report for a calendar year of IEMP data. It will include both the summary report, which serves the needs of both the regulatory agencies and the public, as well as the accompanying detailed appendices, which compile the information reported on the IEMP Extranet site and are intended for a more technical audience including the regulatory agencies.

If you have any questions about the revised IEMP reporting process or the information attached to this letter, please contact Kathleen Nickel of my staff at (513) 648-3166.

Sincerely,



Johnny W. Reising
Fernald Remedial Action
Project Manager

FEMP:Nickel

Enclosures

cc w/enclosures:

N. Hallein, EM-31/CLOV
R. J. Janke, OH/FEMP
G. Jablonowski, USEPA-V, SRF-5J
T. Schneider, OEPA-Dayton (three copies of enclosures)
F. Bell, ATSDR
F. Hodge, Tetra-Tech
M. Schupe, HSI GeoTrans
R. Vandegrift, ODH
AR Coordinator, Fluor Fernald, Inc./78

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J. Reising, OH/FEMP
A. Tanner, OH/FEMP
D. Carr, Fluor Fernald, Inc./2
T. Hagen, Fluor Fernald, Inc./65-2
J. Harmon, Fluor Fernald, Inc./90
S. Hinnefeld, Fluor Fernald, Inc./31
M. Jewett, Fluor Fernald, Inc./52-2
U. Kumthekar, Fluor Fernald, Inc./64
T. Walsh, Fluor Fernald, Inc./65-2
ECDC, Fluor Fernald, Inc./52-7

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ATTACHMENT 1

Agenda and Overhead Slides
Presented at the August 31, 2000 Meeting with OEPA

MEETING ON REVISED IEMP DATA REPORTING FORMAT
August 31, 2000 at 1:00, Delta Building (PEIC) Conference Room

Overview/Meeting Purpose

The Extranet

- Purpose and Benefits
- Data Terms
- Data on the Extranet Site
 - General Structure
 - Media-specific Information
- Future Initiatives

The new Quarterly Summaries

- Overview
- Contents
- Criteria for Notable Results or Events (Handout)
- Scheduling
- Example Quarterly (Handout)

Contents of the Annual

- Purpose
- Content

Descriptive Information (cannot be reported via the Extranet)

- How Report It?
 1. Groundwater Model
 2. Turbidity Monitoring in Paddys Run (as related to Sloan's Crayfish)
 3. Natural Resources (habitat impacts, Threatened & Endangered Species, Restoration Project Status).

Time Table for Implementation

- Extranet site availability
- Quarterly Summaries
- Documentation (IEMP Rev. 2)

IEMP Data Information Site (Extranet Site)

- Purpose and Benefits
- Data Terms
- Data on Extranet Site
- General Structure of Extranet Site
- Specific Information on Each Environmental Media
- Future Initiatives

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Purpose and Benefits

- To Get Data to the Agencies in a more Expedient Manner
- To Allow the Agencies Easier Access to the Data
- To Easily indicate to the Agencies Notable Data (e.g., anomalous, investigating)
- To reduce the comment/response cycles (through Quarterly Summaries and Extranet Site)

Data Terms

Approved Data – Data on the Extranet Site is Data reviewed by Environmental Media Personnel

Download – Files that can be downloaded and used in various programs (e.g., Excel)

Query – Ability to search data (e.g., location) on the Extranet Site

In Progress – Data that is moved to the Extranet Site periodically. Used to indicate that Download Files is not complete for requirements (e.g., not all quarterly data on Extranet Site)

Complete – Data that is moved to the Extranet Site after the data set is complete. Used to indicate that Download File is complete (e.g., all quarterly data on Extranet Site)

Data on Extranet Site

- Same data that has been on CD-ROMs (same fields and same media)
- In addition to the data on the CD-ROMs:
 - Groundwater Operational Data
 - OSDF Accumulation Rates
 - Meteorological Wind Rose
- Reviewed by Environmental Media Personnel (after in Site Environmental Database or respective spreadsheets)
- Additional comment field provided by Environmental Media Personnel identifying Notable Data (e.g., anomalous, investigating)
- New data every 2 - 4 weeks, as data becomes available

Data on Extranet Site

- Downloadable Data Files- Zipped ASCII files (beginning with 2000 data) - In progress files and complete data set files
- Queries - View data on the Extranet Site (beginning with 1999 data)
- Data will be moved to the Extranet Site based on how fast it comes back from laboratory and goes through internal processes (including review time)
- In general, Chemical data typically has faster turn-around than Radiological data

General Structure of Extranet Site

- **Downloads**
- **Queries** – Based on searches associated with Program (e.g., South Plume, NPDES), Location, Parameter, Date Range or possibly Figures/Graphs
- Ability for the Agencies to identify questions via email - **“For data questions click here”** (Replies will be through emails and, if necessary, the weekly DOE phone conferences)

Groundwater

Data Type	Frequency of Updates	How Soon YOU will start seeing data after sampling	Download/Query	In Progress/Complete
Analytical	2 - 4 weeks	Next Quarter	Download/Query	In Progress/Complete
Elevations	Quarterly	Same Quarter	Download/Query	Complete
Operational	Monthly	Same Quarter	Download	In Progress/Complete

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OSDF

Data Type	Frequency of Updates	How Soon YOU will start seeing data after sampling	Download/Query	In Progress/Complete
Analytical	2 - 4 weeks	Next Quarter	Download/Query	In Progress/Complete
LCS/LDS Volumes	Monthly	Same Quarter	Download	In Progress/Complete
LDS Accumulation Rates	Monthly	Same Quarter	Download	In Progress/Complete

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Surface Water

Data Type	Frequency of Updates	How Soon YOU will start seeing data after sampling	Download/Query	In Progress/Complete
Analytical	2 – 4 weeks	Next Quarter	Download/Query	In Progress/Complete
Flows	Monthly	Same Quarter	Download	In Progress/Complete

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Air

Data Type	Frequency of Updates	How Soon YOU will start seeing data after sampling	Download/Query	In Progress/Complete
Radiological Air Particulate	2 - 4 weeks	Same Quarter	Download	In Progress/Complete
NESHAP Composite	Quarterly	Next Quarter	Download	Complete
Radon (Headspace and Environmental)	Monthly	Same Quarter	Download/Query ^a	In Progress/Complete
TLD	Quarterly	Next Quarter	Download	Complete
Stack	Quarterly	Next Quarter	Download	Complete

^a Real-time Radon data at selected monitors will be viewable

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Meteorological

Data Type	Frequency of Updates	How Soon YOU will start seeing data after sampling	Download/Query	In Progress/Complete
Precipitation	Monthly	Same Quarter	Download	In Progress/Complete
Wind Rose	Quarterly	Next Quarter	Query ^a	In Progress/Complete

^a Figures currently provided on Internet version will be provided on the Extranet Site

Sediment and Biota

Data Type	Frequency of Updates	How Soon YOU will start seeing data after sampling	Download/Query	In Progress/Complete
Analytical	Yearly	Next Quarter	Download	Complete

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Future Initiatives

- Expand Queries: Some data currently being stored in spreadsheets will be moved over to databases
- Graphical Displays and Trending (Automated Process)
- Based on Agency Feedback/Input

IEMP Quarterly Summaries

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Quarterly Summaries

Overview

- Brief text (bullet points)
- Supplement Extranet Site
- Submitted after data are available on the Extranet Site
- Submitted after key findings have been discussed (in Weekly Conference Calls or otherwise)
- For Informational Purposes

Quarterly Summaries

Contents

- Identify all data added to the Extranet Site during a specified time period
- Identify “Notable” Results or Events Related to IEMP Monitoring

Notable Results or Events

Examples of What May Be Mentioned in Quarterly Summaries

- Programmatic Changes
- Key Findings
- See Handout for Examples

Quarterly Summaries

Scheduling Considerations

- Several scheduling options evaluated
- Cover data added to Extranet site within a set time period
- Do not attempt to consolidate Quarters of Data (like Quarterly Summary Reports)

Quarterly Summaries

Scheduling

- Based on Calendar Quarters
 - Jan 1 through Mar 31
 - Apr 1 through Jun 30
 - Jul 1 through Sep 30
 - Oct 1 through Dec 31
- Issued one month after end of Quarter
- Example Quarterly Summary (Handout)

Annual Integrated Sitewide Environmental Reports

- Remains essentially the same
- Serves as a comprehensive report to cover all IEMRP data for a one-year period

Descriptive Information

(That Which Cannot Be Added to Extranet Site)

- **Groundwater Model**
 - Handled by Aquifer Restoration Project
- **Turbidity Monitoring as Related to Sloan's Crayfish**
 - Notable Event: Mentioned in Quarterly Summaries under Surface Water
- **Natural Resources Information (e.g., habitat impacts, T&E species, Restoration Projects)**
 - Handled by Natural Resources Project
 - Monitoring-related activities still included in annual report

Time Table For Implementation

- Extranet Site
- Quarterly Summaries
- Documentation of Strategy (IEMP Rev. 2)

ATTACHMENT 2

Information Related to the IEMP Extranet Site Presented at the August 31, 2000 Meeting with OEPA

Page 1 shows the main menu screen for the IEMP Extranet Site. Page 2 shows an example of a groundwater download page listing downloadable groundwater data files. Page 3 shows an example of a groundwater query page, listing groundwater data files that can be queried. Page 4 shows a pick list of groundwater programs for data query. Page 5 illustrates some criteria that can be used to query the data, and Page 6 shows the results of a data query.

FERNALD

IEMP Data Information Site - MAIN MENU

Fernald Site ExtraNet

Tuesday, September 12, 2000

- For data questions click [here](#)

Select a topic:

- Groundwater Download
- Surface Water Query
- Sediment Download
- Groundwater Query
- Air Download
- Biota Download
- OSDF Download
- Air Query
- OSDF Query
- Meteorological Download

The data on this site will be evaluated/interpreted/reported through the quarterly summaries and annual integrated site environmental reports.

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PRELIMINARY

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Page 1

FERNALD IEMP Data Information Site - **GROUNDWATER DOWNLOAD** Fernald Site ExtraNet

- For data questions click [here](#) Tuesday, September 12, 2000

- Select a topic:
- [Groundwater Download](#)
 - [Groundwater Query](#)
 - [OSDF Download](#)
 - [OSDF Query](#)
 - [Surface Water Download](#)
 - [Surface Water Query](#)
 - [Air Download](#)
 - [Air Query](#)
 - [Meteorological Download](#)
 - [Meteorological Query](#)
 - [Sediment Download](#)
 - [Biota Download](#)

The data on this site will be evaluated/interpreted/reported through the quarterly summaries and annual integrated site environmental reports.

File Name	Size	Modified	Description
Elev1stqtr00	4 Kb	8/16/00	Complete elevations data set for first quarter 2000.
GW1stqtr00	16 Kb	8/28/00	In progress analytical data set for first quarter 2000.
GW3rdqtr99	22 Kb	8/24/00	Complete analytical data set for third quarter 1999.

PRELIMINARY

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- Select a topic:
- [Groundwater Download](#)
 - [Groundwater Query](#)
 - [OSDF Download](#)
 - [OSDF Query](#)
 - [Surface Water Download](#)
 - [Surface Water Query](#)
 - [Air Download](#)
 - [Air Query](#)
 - [Meteorological Query](#)
 - [Sediment Download](#)
 - [Biota Download](#)

The data on this site will be evaluated/interpreted/reported through the quarterly summaries and annual integrated site environmental reports.

File Name	Size	Modified	Description
GW query	1 Kb	8/29/00	1999 and 2000 groundwater data set.

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PRELIMINARY

Page 3



SiteWide Environmental Database

Available Groundwater Programs

Select a program

- 2000 IEMP GROUNDWATER
- 2000 IEMP GROUNDWATER
- 2000 IEMP PLANT 6 WELLS
- 2000 IEMP PRIVATE WELLS
- 2000 IEMP PROPERTY BOUNDARY
- 2000 IEMP SOUTH FIELD
- 2000 IEMP SOUTH PLUME
- 2000 IEMP WASTE STORAGE AREA WELLS**

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Stewide Environmental Database

Select Query Criteria

Enter Begin Date (MM/DD/YYYY)

Enter Parameter

Enter Well

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PRELIMINARY



Navigation icons: Back, Forward, Stop, Refresh, Home, Search, Favorites, History, Mail, Print, Edit, Discuss

Stewide Environmental Database

Fernald Site
 Tuesday, September 12, 2000

Groundwater Data 2000

Well	Parameter	Sample Date	Detect?	Lab Res	LQ	Val Res	VQ	Units	Filter	QA Type	Suffix
41217	URANIUM, TOTAL	01/11/1999	<	0.129		0.131	U	ug/L	UNFILTERED	NORMAL	NONE
41217	URANIUM, TOTAL	04/06/1999	<	0.214		0.263	U	ug/L	UNFILTERED	NORMAL	NONE
41217	URANIUM, TOTAL	07/07/1999	<	0.295		0.407	U	ug/L	UNFILTERED	NORMAL	NONE
41217	URANIUM, TOTAL	10/04/1999	<	0.125		0.125	UJ	ug/L	UNFILTERED	NORMAL	NONE
41217	URANIUM, TOTAL	01/04/2000	<	0.0914		-0.0914	UJ	ug/L	UNFILTERED	NORMAL	NONE

Close

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PRELIMINARY

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ATTACHMENT 3

Extranet Data Availability for Each Environmental Media

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**EXAMPLE
GROUNDWATER SAMPLING AND DATA AVAILABILITY**

2001											
First Quarter			Second Quarter			Third Quarter			Fourth Quarter		
JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
◆	◆	◆		◆*				*			
◆		◆*			*						
◆	◆	◆*			*						

DATA TYPE

ANALYTICAL

ELEVATIONS

OPERATIONAL

- ◆ Sampled
- ◆* Start seeing Data on Extranet Site
- * Previously Received Data in IEMP Reports

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**EXAMPLE
METEOROLOGICAL SAMPLING AND DATA AVAILABILITY**

2001											
First Quarter			Second Quarter			Third Quarter			Fourth Quarter		
J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C
	◆	◆									
	◆	◆									

DATA TYPE

PRECIPITATION

WIND ROSE

- ◆ Sampled
- ◆ Start seeing Data on Extranet Site
- * Previously Received Data in IEMP Reports

07-0000

**EXAMPLE
SEDIMENT AND BIOTA SAMPLING AND DATA AVAILABILITY**

2001											
First Quarter			Second Quarter			Third Quarter			Fourth Quarter		
J	F	M	A	M	J	J	A	S	O	N	D
A	E	A	P	A	U	U	U	E	C	O	E
N	B	R	R	Y	N	L	G	P	T	V	C
						◆	◆			★	
						◆	◆	◆			★

DATA TYPE

SEDIMENT^a

BIOTA^a

◆ Sampled
★ Start seeing Data on Extranet Site

^a Sediment and Biota data have been reported the following year after sampling in the annual integrated site environmental reports

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ATTACHMENT 4

**Examples of Notable Results or Events
For Inclusion in IEMP Quarterly Summaries**

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WHAT CONSTITUTES A NOTABLE RESULT OR EVENT?
Examples of What May Be Mentioned in a Quarterly Summary

Examples of results or events related to IEMP monitoring that could be mentioned in a Quarterly Summary include the following:

Groundwater

- Extended time periods where a module did not meet its target extraction/re-injection rate.
- Wells added or removed (monitoring, extraction or re-injection) from a module/program
- Re-injection concentrations exceeding the 20 ppb limit
- Significant (non-fluctuating) changes to the total uranium plume
- FRL exceedances outside the capture zone that are of legitimate concern (does not include fluctuating/ one-time hits, or PRRS COCs in that area)
- Indications of PRRS capture
- Programmatic changes

OSDF

- Indications of potential leak (e.g., LDS volume > 20gpad; increasing concentrations in LDS, Horizontal Till Wells, or underlying aquifer, etc.)
- Any suspect (known or investigated) results
- Programmatic changes

Surface Water

- Summary of NPDES noncompliances
- Pounds of total uranium discharged, controlled and uncontrolled
- Treatment bypass events
- SW FRL/BTV exceedances
- Turbidity monitoring info (related to Sloan's crayfish). Any suspect (known or investigated) results
- Programmatic changes

Air

- Notable radiological particulate increases
- Radon concentrations exceeding the DOE limit
- Notable (non-seasonal) radon increases
- Increasing direct radiation trends
- Year-to-date dose (as a percent of 10 mrem NESHAP Subpart H standard)
- Programmatic changes

Natural Resources

Not included – natural resource monitoring issues will be covered annually only in the ISER, and the Natural Resources Project can report anything significant should it be necessary. The turbidity monitoring will be covered under surface water.

Meteorological

- Any significant deviations from normal/average that potentially impacts IEMP data

ATTACHMENT 5

Example IEMP Quarterly Summary

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-EXAMPLE-
INTEGRATED ENVIRONMENTAL MONITORING SUMMARY
FOR JANUARY 1 to MARCH 31, 2001

Submitted April 20, 2001

This quarterly summary covers all Integrated Environmental Monitoring Plan (IEMP) data that became available to the US Environmental Protection Agency (EPA) and Ohio Environmental Protection Agency (OEPA) over the IEMP Data Information Site (i.e., the IEMP Extranet Site) from January 1 to March 31, 2001. It is intended to supplement information available on the Extranet Site, and not to serve as a stand-alone, comprehensive report. The quarterly summary identifies all data added to the Extranet Site during the specified time period, and also highlights any notable events or results related to that data. Notable results or events include key findings (i.e., action level exceedances, upward trends, etc.), and programmatic changes. Notable results or events that potentially impacted an IEMP program were discussed with the EPA and OEPA (via the weekly conference calls or otherwise) prior to the issuance of this quarterly summary.

This submittal fulfills the requirement for a quarterly summary as documented in the IEMP, Revision 2. Detailed evaluation of all IEMP program data will be presented annually in the Integrated Site Environmental Report, available June 1 each year.

GROUNDWATER MONITORING

Notable Results or Events

There were notable results or events related to the groundwater monitoring data added to the IEMP Extranet Site from January 1 to March 31, 2001, as noted below:

- Two new South Field extraction wells (32446 and 32447) began operation in February, as identified in the 2-8-00 conference call.
- Changes have been identified to the Plant 6 area plume (based on both IEMP and project-specific sampling), as discussed in the 3-21-00 conference call.

Data Added to the Extranet Site

The following groundwater monitoring data were added to the IEMP Extranet Site from January 1 to March 31, 2001:

- Operational data (presented graphically) from November and December (fourth quarter) 2000, plus January (first quarter) 2001.
- South Plume Aquifer Conditions data from October sampling (fourth quarter) 2000.
- South Field Aquifer Conditions data from the November sampling (fourth quarter) 2000 - in progress (approximately 60% complete); plus the remaining 50% of the August sampling (third quarter) 2000 data not yet included on the Extranet Site on December 31, 2000.

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- Groundwater elevations/flow data from January measurements (first quarter) 2001
- Property Boundary Monitoring data from October sampling (fourth quarter) 2000
- Private Well Monitoring data from October sampling (fourth quarter) 2000

ON-SITE DISPOSAL FACILITY MONITORING

Notable Results or Events

There was only one notable result or event related to On-Site Disposal Facility monitoring data added to the IEMP Extranet Site from January 1 to March 31, 2001, as noted below:

- Cell 1 Leak Detection System volumes in January are suspect due to a malfunctioning valve allowing back-flow from the leachate pipeline. This was discussed during the 2-2-00 conference call.

Data Added to the Extranet Site

The following on-site disposal facility monitoring data were added to the IEMP Extranet Site from January 1 to March 31, 2001:

- Leachate Collection System data from December (fourth quarter) 2000, plus January and February (first quarter) 2001
- Leachate Detection System data from December (fourth quarter) 2000, plus January and February (first quarter) 2001
- Cell 1 analytical data from October and November (fourth quarter) 2001
- Cell 2 analytical data from November (fourth quarter) 2000
- Cell 3 analytical data from September (third quarter), October and November (fourth quarter; November data are 50% complete) 2000

SURFACE WATER MONITORING

Notable Results or Events

There were several notable results or events related to surface water monitoring data added to the IEMP Extranet Site from January 1 to March 31, 2001, as noted below.

- New NPDES Permit (11000004*FD) went into effect on March 1, 2001.
- Data added to Extranet Site include four NPDES noncompliances that were identified and reported to the OEPA in the NPDES monthly reports.
- A cumulative total of 233 pounds of uranium were discharged to the Great Miami River in effluent during 2000.
- One result exceeded the FRL during the fourth quarter of 2000 (copper result of 0.016 mg/kg at Location SWRB 4002O). This was identified in the 1-25-00 conference call.
- There were five observations during the first quarter of 2000 for turbidity monitoring in Paddy's Run as related to the Sloan's Crayfish population, and no unexpected conditions were observed.

Data Added to the Extranet Site

The following surface water monitoring data were added to the IEMP Extranet Site from January 1 to March 31, 2001:

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- NPDES data from October through December (fourth quarter) 2000. Some limited NPDES data from early in the first quarter 2001 (as included in the monthly NPDES compliance reports) have also been added to the Extranet Site.
- FFOA data from December (fourth quarter) 2000, plus some limited January and February (first quarter) 2001 data.
- IEMP Characterization data from October through December (fourth quarter) 2000.

AIR MONITORING

Notable Results or Events

There were several notable results or events related to IEMP air monitoring data added to the IEMP Extranet Site from January 1 to March 31, 2001, as noted below:

- Thorium-230 increased early in first quarter (January 25, 2001) at WPTH-2, but returned to normal levels with the next biweekly sample. This was identified at the March 14th conference call.
- Radon concentrations at KNW were 131 pCi/L on 3/27/00 for one hour, exceeding the DOE limit of 100 pCi/L.
- Direct radiation monitoring shows a positive trend at locations 22 through 26 (near the K-65 Silos); and a slightly positive trend at location 6. These trends were discussed at the 4-11-00 conference call.

Data Added to the Extranet Site

The following air monitoring data were added to the IEMP Extranet Site from January 1, 2001 to March 31, 2001:

- Radiological Particulate Monitoring (biweekly samples) from November, December (fourth quarter 2000) and January (first quarter) 2001.
- NESHAP Stack Emission data from October through December (fourth quarter) of 2000
- NESHAP Compliance data from October through December (fourth quarter) of 2000
- Continuous Radon data from December (fourth quarter) 2000, January and February (first quarter) 2001
- Direct Radiation data from October through December (fourth quarter) of 2000.

METEOROLOGICAL DATA

Notable Results or Events

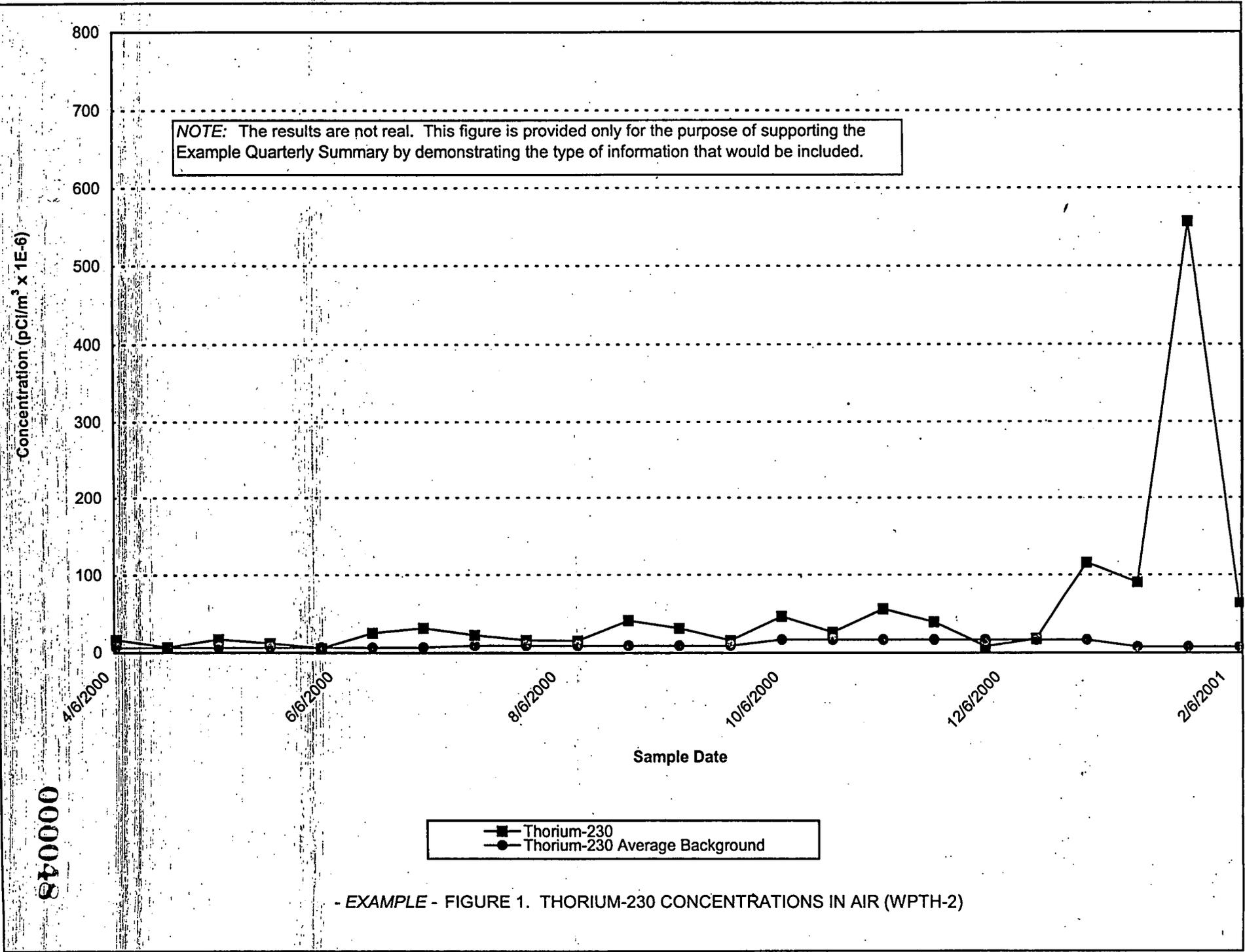
There were no notable deviations from normal meteorological patterns from data added to the IEMP Extranet Site from January 1 to March 31, 2001.

Data Added to the Extranet Site

The following meteorological data have been added to the IEMP Extranet Site from January 1, 2001 to March 31:

- Precipitation data from December (fourth quarter) 2000, and January and February (first quarter) 2001
- Wind Rose, compiled from October through December (fourth quarter) of 2000.

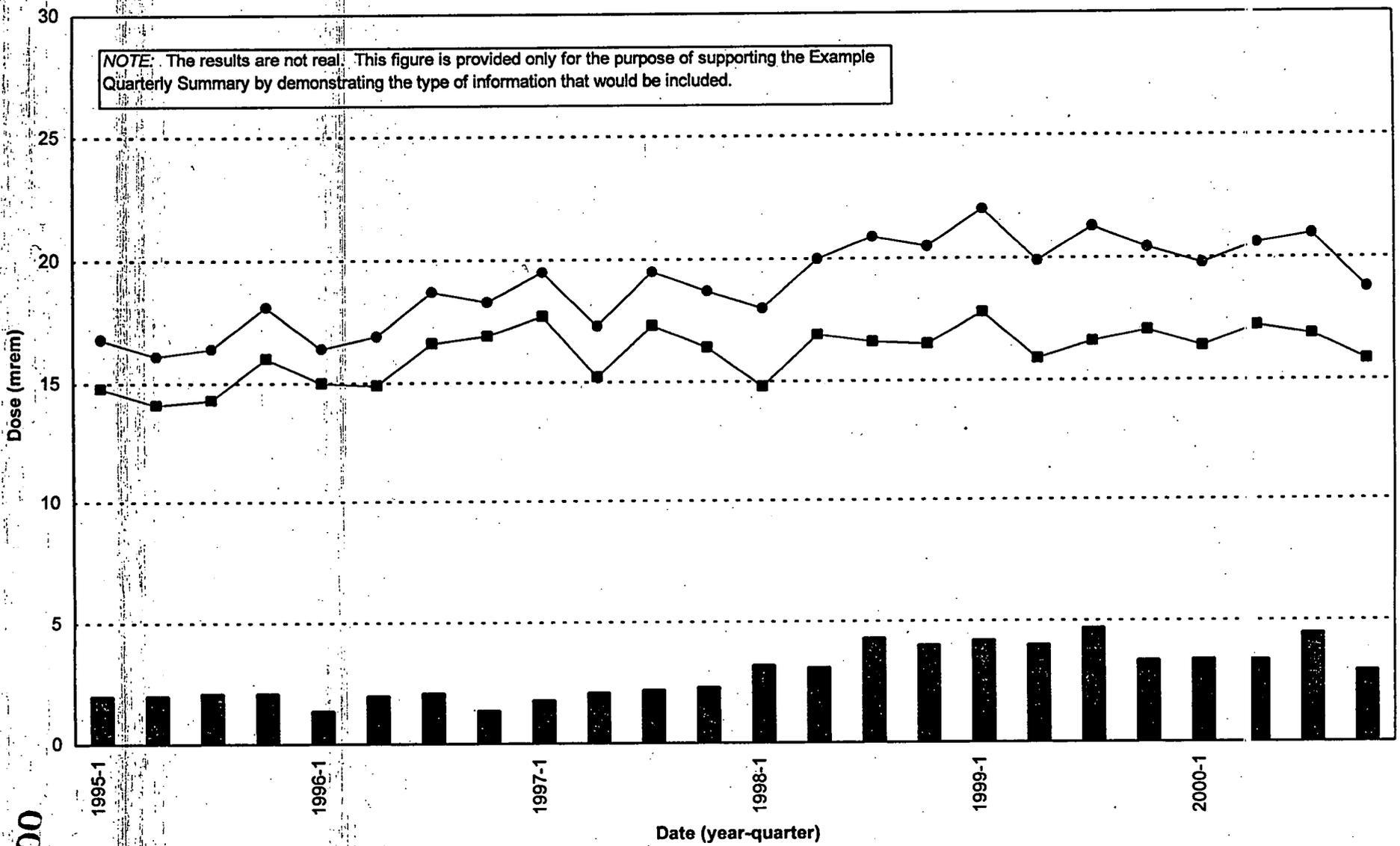
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- EXAMPLE - FIGURE 1. THORIUM-230 CONCENTRATIONS IN AIR (WPTH-2)

NOTE: The results are not real. This figure is provided only for the purpose of supporting the Example Quarterly Summary by demonstrating the type of information that would be included.

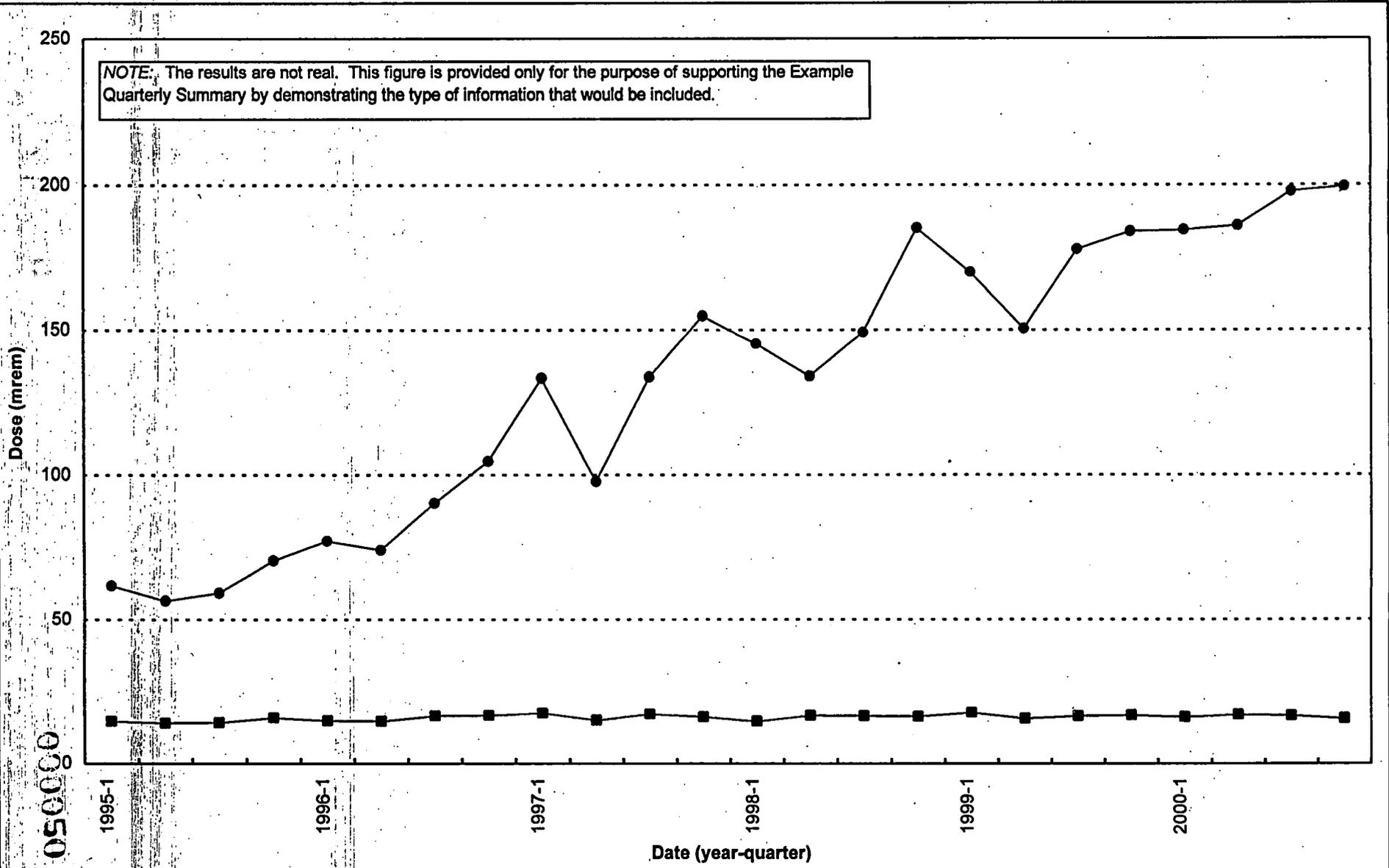


■ Net Difference (TLD 6 - Bkgd. Avg.) ● Closest Fenceline Location (location 6) ■ Background Average

- EXAMPLE - FIGURE 3. QUARTERLY DIRECT RADIATION (TLD) MEASUREMENTS, 1995 - 2000 (LOCATION 6 VERSUS BACKGROUND AVERAGE)

000049

3264



Pre-Bentonite Silos Fenceline Average
1991: 484 mrem

● K-65 Silos Fenceline Average ■ Background Average

- EXAMPLE - FIGURE 2. QUARTERLY DIRECT RADIATION (TLD) MEASUREMENTS, 1995 - 2000
(K-65 SILOS FENCELINE AVERAGE VERSUS BACKGROUND AVERAGE)

ATTACHMENT 6

Schedule for Transitioning to and Submitting
IEMP Quarterly Summaries

IEMP QUARTERLY SUMMARY REPORTING SCHEDULE*

First Quarterly Summary

- Covers data added to the Extranet Site from January 1 to March 31.
- Issued on April 30

Second Quarterly Summary

- Covers data added to the Extranet Site from April 1 to June 30.
- Issued on July 31

Third Quarterly Summary

- Covers data added to the Extranet Site from July 1 to September 30.
- Issued on October 31

Fourth Quarterly Summary

- Covers data added to the Extranet Site from October 1 to December 31.
- Issued on January 31

*The first IEMP quarterly summary will be issued on April 30th, 2001, and will cover data added to the IEMP Extranet Site between January 1 and March 31, 2001. Because this is the first time that data will be reported through the IEMP Extranet Site and quarterly summary, any additional 2000 IEMP data that were not reported under the last quarterly status report (issued in December of 2000) will also be included in the April IEMP quarterly summary.

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