Client: U.S. ARMY CORPS OF ENGINEERS
Sample: IC-BS-6
Matrix Spike Duplicate
Lab ID: MD04JI04
Extraction Method: SW-846 3510
Clean-up Method: N/R
GC Analytical Method: SW-846 8150
Corresponding Blank: R123A023

Date Sampled: 04/16/93
Date Extracted: 04/26/93
Date Analyzed: 05/04/93
Time Analyzed: 07:52
Analyst: ED

File ID: 4:R123A/R123A028
Dilution Factor: 1.0

TCLP Chlorinated Herbicides Analysis

Compound		Chrom. Ret. Time Col. 1 (min.)	Chrom. Ret. Time Col. 2 * (min.)	Leachate Concentration (ug/l)	POL (ug/l)	RTL (ug/l)
2,4-D	MS	11.15	10.41	35% Recovery	240.	10000.
2,4,5-TP (Silvex)	MS	13.08	12.50	67% Recovery	34.0	1000.

Surrogate Recovery	Spike Level (ug/l)	%Rec	QC Range
2,4-DCAA	400.	97	14- 85
2,4-DB	1000.	69	10-120 ***

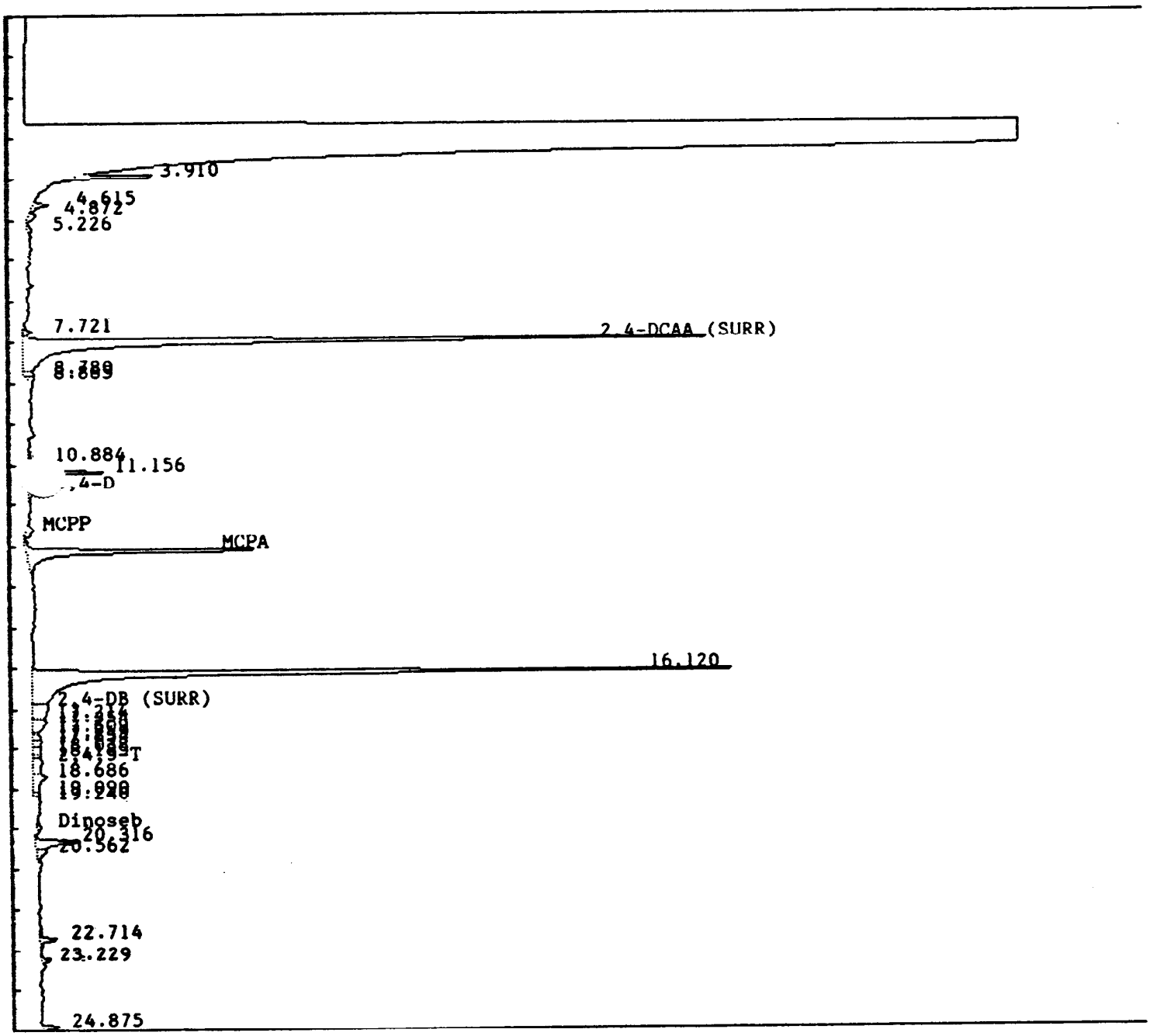
NOTES: RTL: Regulatory Thresehold Limit
* : Col. 1: 30 M x 0.32 mm DB-17 (FSCC)
Col. 2: 30 M x 0.32 mm DB-1701 (FSCC)
N/R: Procedure Not Required
***: Recovery Limits Indicated are Advisory Only
MS : Matrix Spike Compound:

	Spike Level (ug/l):	QC Range
2,4-D	100.	0- 97
2,4,5-TP (Silvex)	40.0	2-133

Chlorinated Herbicides Analysis (Primary Run)
File ID: /DATA/LOOP/RESULT/R123A028.RES

S le Name: MSD04JI04
L Analyzed: 0752 04May1993
Column: 30 M x 0.53 mm DB-608 (FSCC)
Detector: Electron Capture (ECD)
Inj. Volume: 1.0 uL

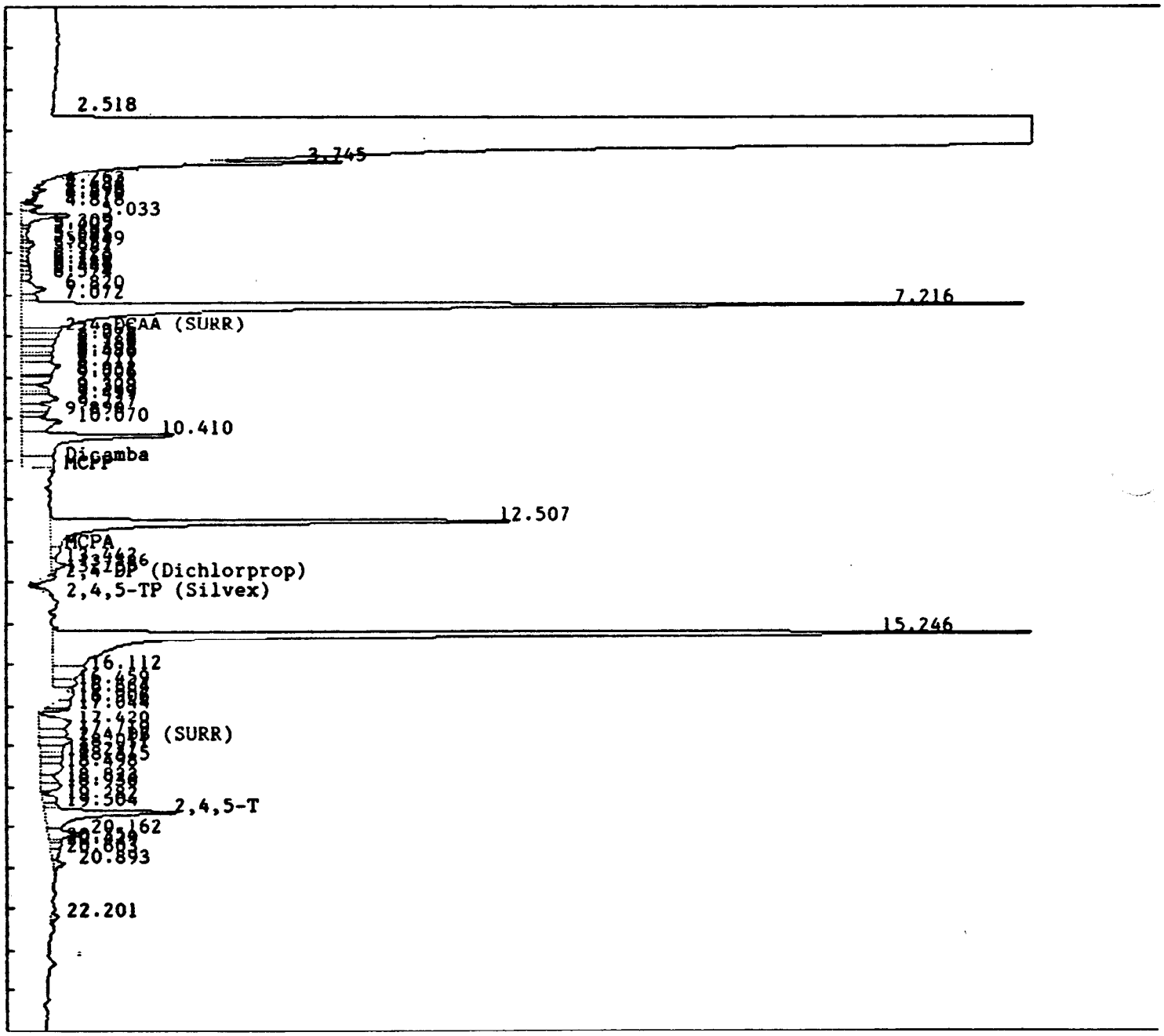
Dil. Factor: 1.0
Instrument: GC-R (HP 5890 II)
Seq/Smpl: 1/ 28
Bottle : 28
Run Time: 25.00 min.



Chlorinated Herbicides Analysis (Secondary Run)
File ID: /DATA/LOOP/RESULT/R123B028.RES

Sample Name: MSD04JI04
Date Analyzed: 0752 04May1993
Column: 30 M x 0.53 mm DB-1701 (FSCC)
Detector: Electron Capture (ECD)
Inj. Volume: 1.0 uL

Dil. Factor: 1.0
Instrument: GC-R (HP 589[illegible])
Seq/Smpl: 1/ 28
Bottle : 28
Run Time: 25.00 min.



Client: U.S. ARMY CORPS OF ENGINEERS
Sample: IC-BS-2

Lab ID: W304JI07
Extraction Method: SW-846 3510
Clean-up Method: N/R
GC Analytical Method: SW-846 8150
Corresponding Blank: R123A023

Date Sampled: 04/17/93
Date Extracted: 04/26/93
Date Analyzed: 05/04/93
Time Analyzed: 09:08
Analyst: ED

File ID: 4:R123A/R123A030
Dilution Factor: 1.0

TCLP Chlorinated Herbicides Analysis

Compound	Chrom. Ret. Time Col. 1 (min.)	Chrom. Ret. Time Col. 2 * (min.)	Leachate Concentration (ug/l)	PQL (ug/l)	RTL (ug/l)
2,4-D			BQL	240.	10000.
2,4,5-TP (Silvex)			BQL	34.0	1000.

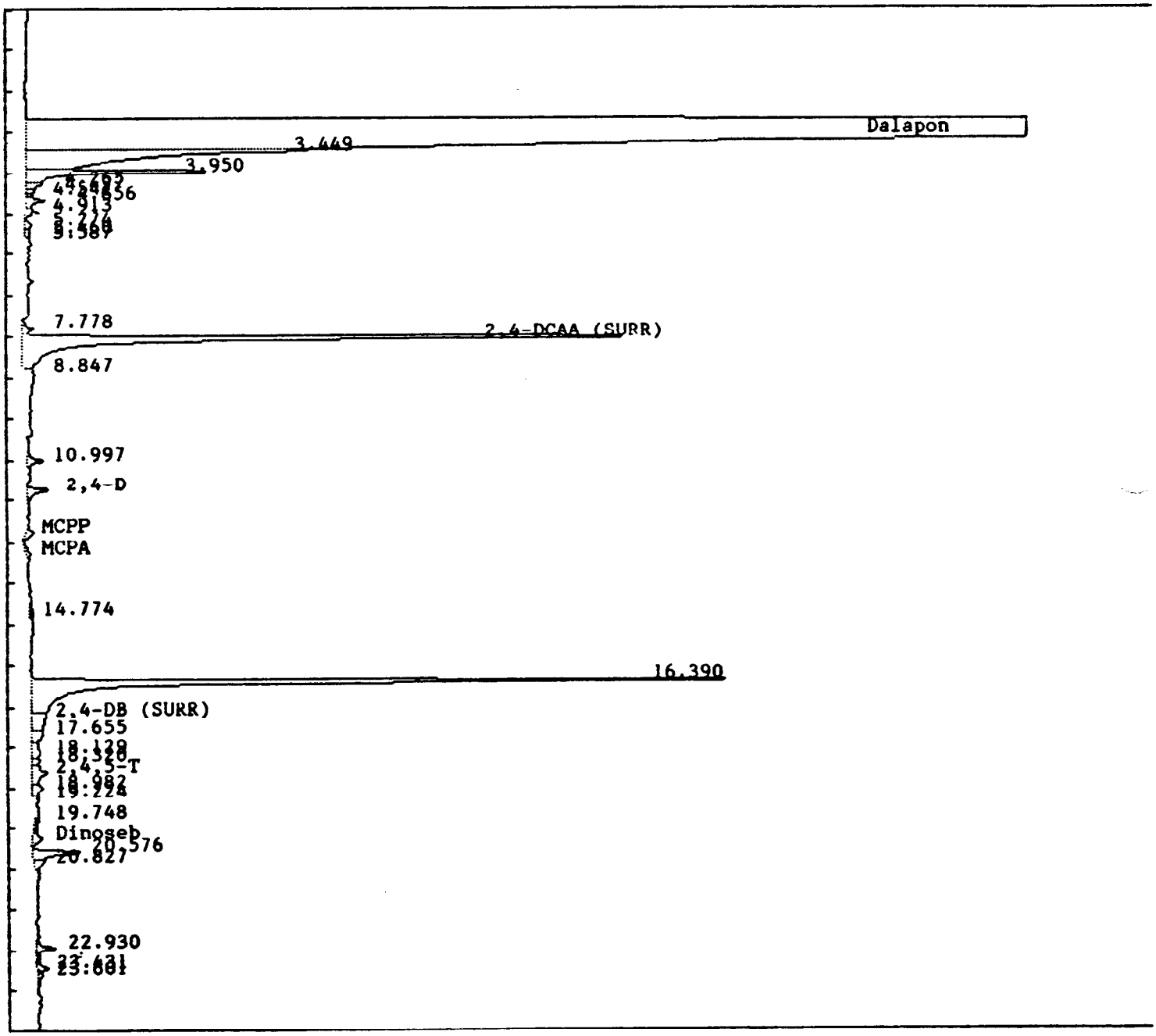
Surrogate Recovery	Spike Level (ug/l)	%Rec	QC Range
2,4-DCAA	400.	99	14- 85
2,4-DB	1000.	68	10-120 ***

NOTES: RTL: Regulatory Thresehold Limit
* : Col. 1: 30 M x 0.32 mm DB-17 (FSCC)
Col. 2: 30 M x 0.32 mm DB-1701 (FSCC)
N/R: Procedure Not Required
***: Recovery Limits Indicated are Advisory Only

Chlorinated Herbicides Analysis (Primary Run)
File ID: /DATA/LOOP/RESULT/R123A030.RES

Sample Name: W304JI07
Date Analyzed: 0908 04May1993
Column: 30 M x 0.53 mm DB-608 (FSCC)
Detector: Electron Capture (ECD)
Inj. Volume: 1.0 uL

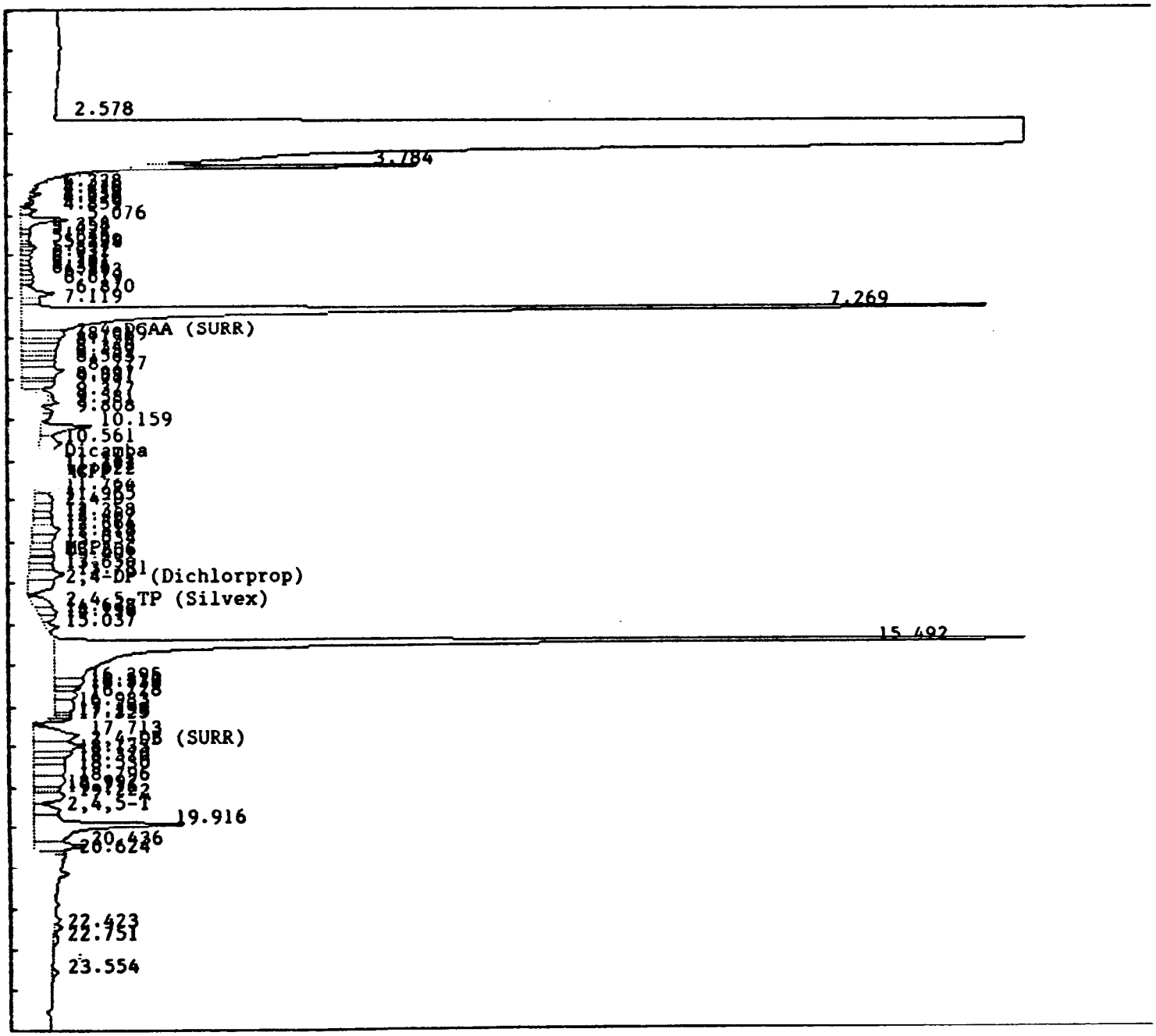
Dil. Factor: 1.0
Instrument: GC-R (HP 5890)
Seq/Smpl: 1/ 30
Bottle : 30
Run Time: 25.00 min.



Chlorinated Herbicides Analysis (Secondary Run)
File ID: /DATA/LOOP/RESULT/R123B030.RES

S le Name: W304JI07
D. Analyzed: 0908 04May1993
Column: 30 M x 0.53 mm DB-1701 (FSCC)
Detector: Electron Capture (ECD)
Inj. Volume: 1.0 uL

Dil. Factor: 1.0
Instrument: GC-R (HP 5890 II)
Seq/Smpl: 1/ 30
Bottle : 30
Run Time: 25.00 min.



Client: U.S. ARMY CORPS OF ENGINEERS
Sample: IC-BS-7

Lab ID: W304JI11
Extraction Method: SW-846 3510
Clean-up Method: N/R
GC Analytical Method: SW-846 8150
Corresponding Blank: R123A023

Date Sampled: 04/18/93
Date Extracted: 04/26/93
Date Analyzed: 05/04/93
Time Analyzed: 09:46
Analyst: ED

File ID: 4:R123A/R123A031
Dilution Factor: 1.0

TCLP Chlorinated Herbicides Analysis

Compound	Chrom. Ret. Time Col. 1 (min.)	Chrom. Ret. Time Col. 2 * (min.)	Leachate Concentration (ug/l)	PQL (ug/l)	RTL (ug/l)
2,4-D			BQL	240.	10000.
2,4,5-TP (Silvex)			BQL	34.0	1000.

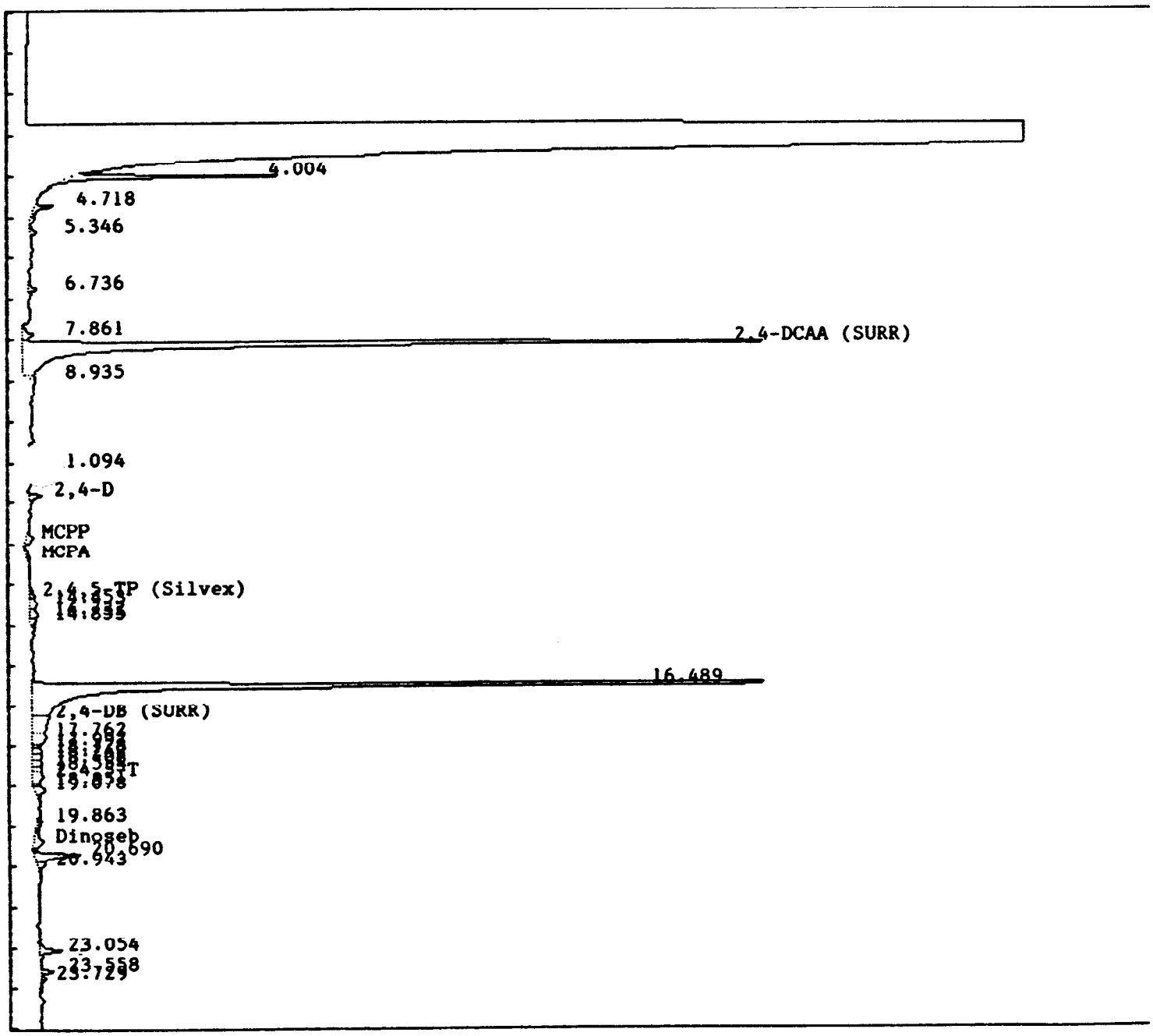
Surrogate Recovery	Spike Level (ug/l)	%Rec	QC Range
2,4-DCAA	400.	112	14- 85
2,4-DB	1000.	80	10-120 ***

NOTES: RTL: Regulatory Thresehold Limit
* : Col. 1: 30 M x 0.32 mm DB-17 (FSCC)
Col. 2: 30 M x 0.32 mm DB-1701 (FSCC)
N/R: Procedure Not Required
***: Recovery Limits Indicated are Advisory Only

EIRA ENVIRONMENTAL INDUSTRIAL RESEARCH ASSOCIATES, INC.

Chlorinated Herbicides Analysis (Primary Run)
File ID: /DATA/LOOP/RESULT/R123A031.RES

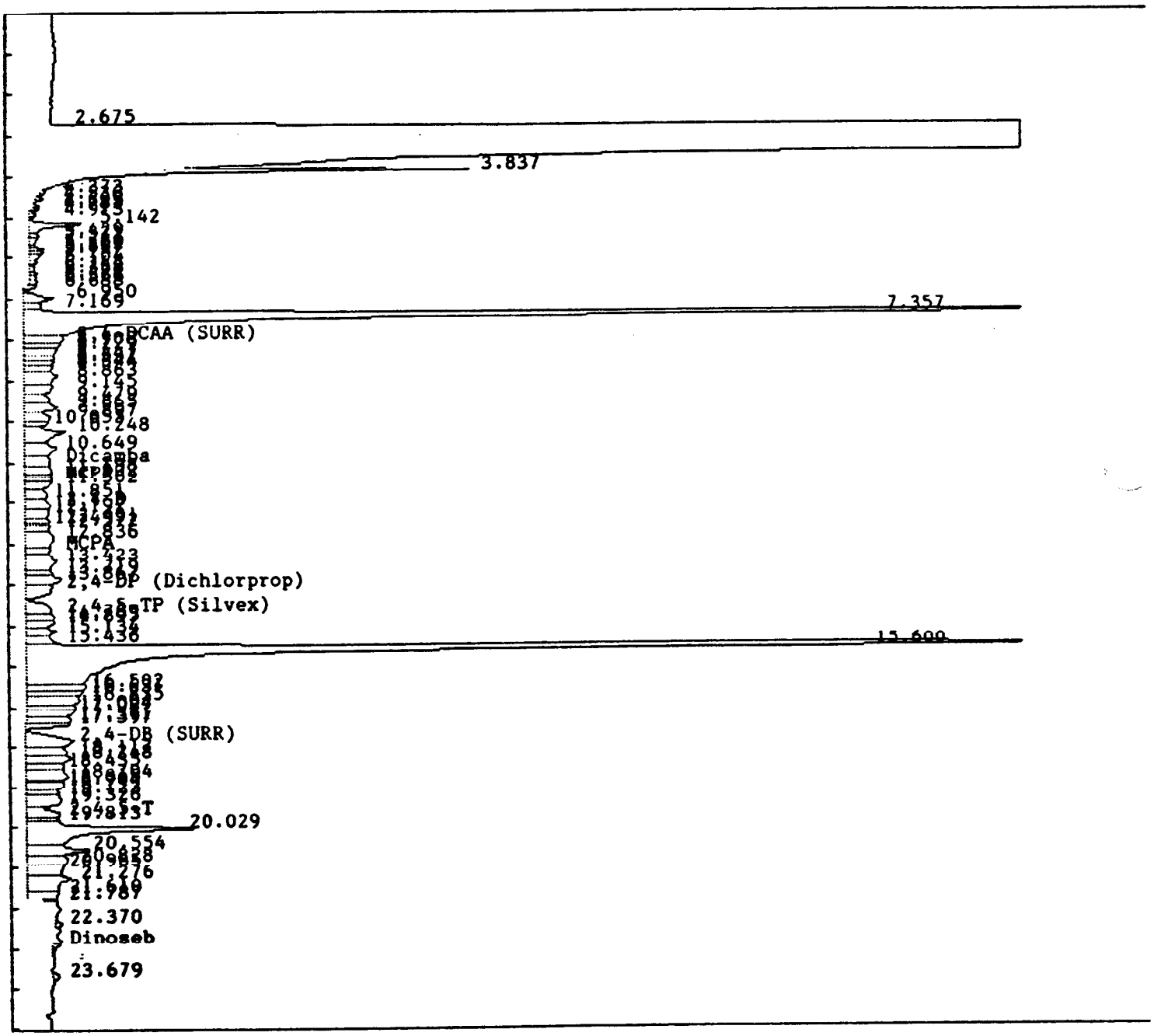
Sample Name:	W304JI11	Dil. Factor:	1.0
Date Analyzed:	0946 04May1993	Instrument:	GC-R (HP 5890 II)
Column:	30 M x 0.53 mm DB-608 (FSCC)	Seq/Smpl:	1/ 31
Detector:	Electron Capture (ECD)	Bottle :	31
Inj. Volume:	1.0 uL	Run Time:	25.00 min.



Chlorinated Herbicides Analysis (Secondary Run)
File ID: /DATA/LOOP/RESULT/R123B031.RES

Sample Name: W304JI11
Date Analyzed: 0946 04May1993
Column: 30 M x 0.53 mm DB-1701 (FSCC)
Detector: Electron Capture (ECD)
Inj. Volume: 1.0 uL

Dil. Factor: 1.0
Instrument: GC-R (HP 5890)
Seq/Smpl: 1/ 31
Bottle : 31
Run Time: 25.00 min.



Client: U.S. ARMY CORPS OF ENGINEERS
Sample: EXTRACTION BLANK
Blank Spike
Lab ID: BSHBLK1320
Extraction Method: SW-846 3510
Clean-up Method: N/R
GC Analytical Method: SW-846 8150
Corresponding Blank: R123A023

Date Sampled: N/A
Date Extracted: 04/26/93
Date Analyzed: 05/04/93
Time Analyzed: 05:19
Analyst: ED

File ID: 4:R123A/R123A024
Dilution Factor: 1.0

TCLP Chlorinated Herbicides Analysis

Compound		Chrom. Ret. Time Col. 1 (min.)	Chrom. Ret. Time Col. 2 * (min.)	Leachate Concentration (ug/l)	PQL (ug/l)	RTL (ug/l)
2,4-D	MS	11.15	10.38	32% Recovery	240.	10000.
2,4,5-TP (Silvex)	MS	13.14	12.55	54% Recovery	34.0	1000.

Surrogate Recovery	Spike Level (ug/l)	%Rec	QC Range
2,4-DCAA	400.	92	14- 85
2,4-DB	1000.	66	10-120 ***

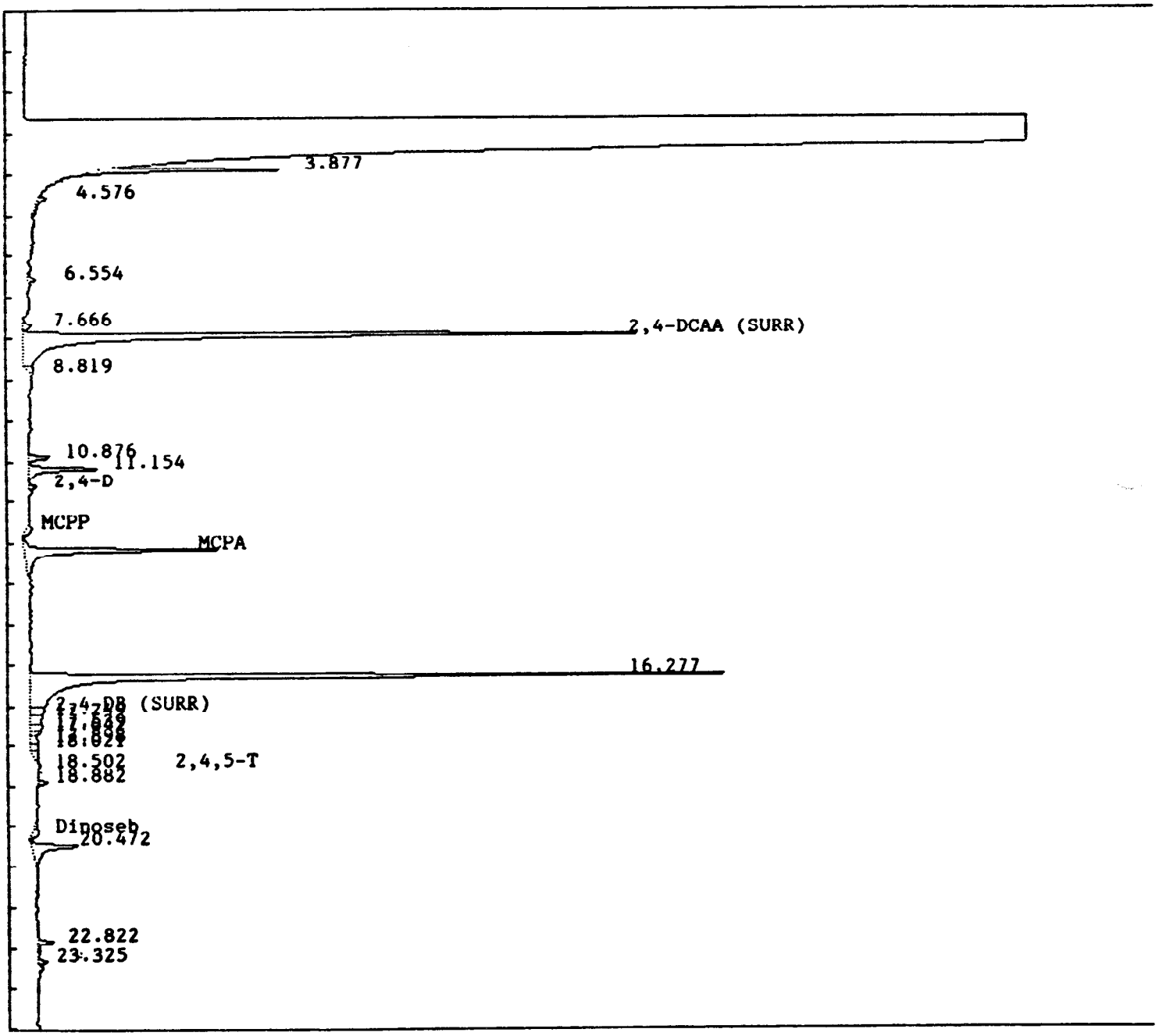
NOTES: RTL: Regulatory Thresehold Limit
* : Col. 1: 30 M x 0.32 mm DB-17 (FSCC)
Col. 2: 30 M x 0.32 mm DB-1701 (FSCC)
N/R: Procedure Not Required
***: Recovery Limits Indicated are Advisory Only
MS : Matrix Spike Compound:

	Spike Level (ug/l):	QC Range
2,4-D	100.	0- 97
2,4,5-TP (Silvex)	40.0	2-133

Chlorinated Herbicides Analysis (Primary Run)
File ID: /DATA/LOOP/RESULT/R123A024.RES

Sample Name: BS BLK SPK
Date Analyzed: 0519 04May1993
Column: 30 M x 0.53 mm DB-608 (FSCC)
Detector: Electron Capture (ECD)
Inj. Volume: 1.0 uL

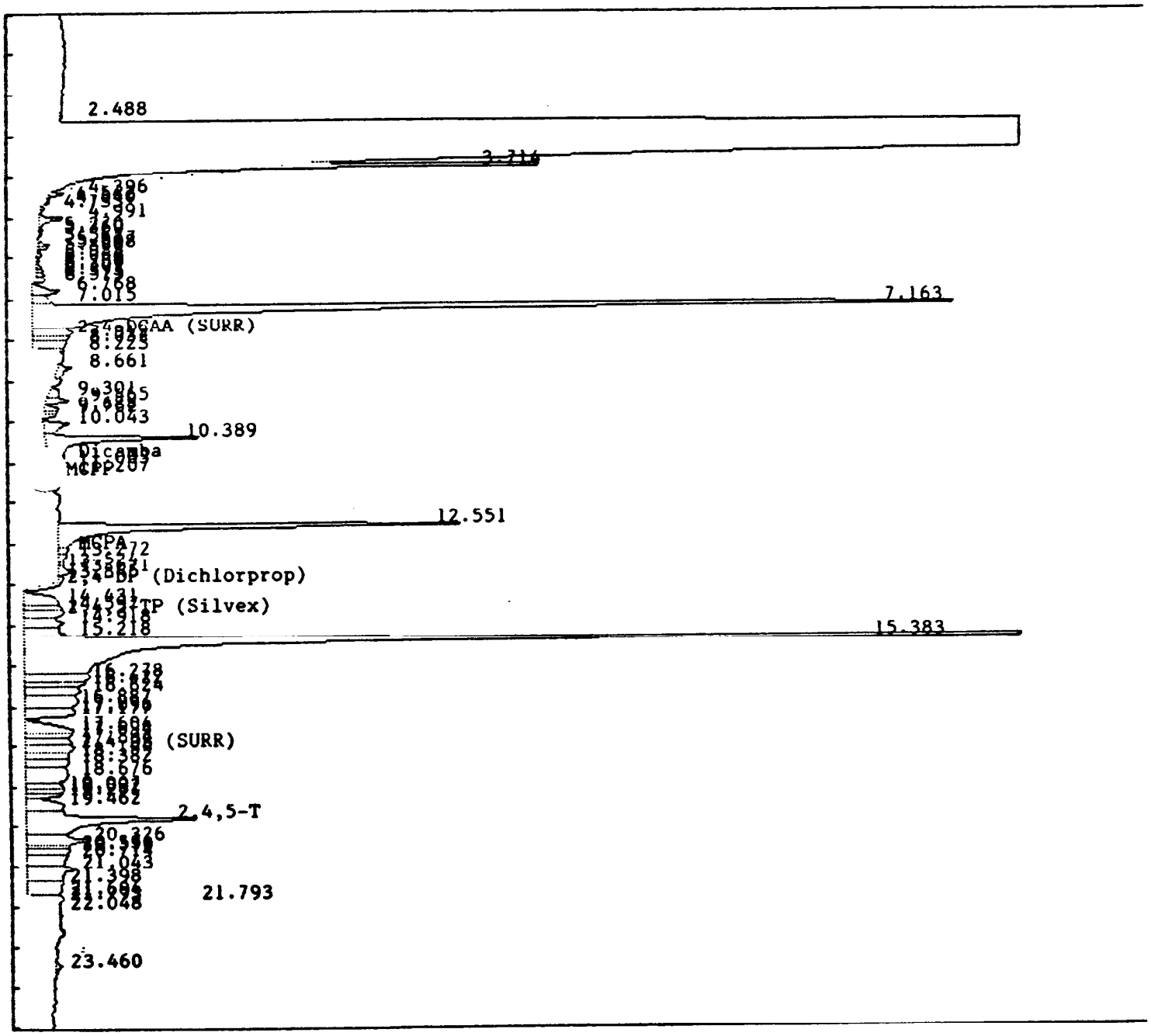
Dil. Factor: 1.0
Instrument: GC-R (HP 5890)
Seq/Smpl: 1/ 24
Bottle : 24
Run Time: 25.00 min.



Chlorinated Herbicides Analysis (Secondary Run)
File ID: /DATA/LOOP/RESULT/R123B024.RES

S le Name: BS BLK SPK
D. Analyzed: 0519 04May1993
Column: 30 M x 0.53 mm DB-1701 (FSCC)
Detector: Electron Capture (ECD)
Inj. Volume: 1.0 uL

Dil. Factor: 1.0
Instrument: GC-R (HP 5890 II)
Seq/Smpl: 1/ 24
Bottle : 24
Run Time: 25.00 min.



Client: U.S. ARMY CORPS OF ENGINEERS
Sample: EXTRACTION BLANK
Blank Spike Duplicate
Lab ID: BDHBLK1320
Extraction Method: SW-846 3510
Clean-up Method: N/R
GC Analytical Method: SW-846 8150
Corresponding Blank: R123A023

Date Sampled: N/A
Date Extracted: 04/26/93
Date Analyzed: 05/04/93
Time Analyzed: 05:57
Analyst: ED

File ID: 4:R123A/R123A025
Dilution Factor: 1.0

TCLP Chlorinated Herbicides Analysis

Compound		Chrom. Ret. Time Col. 1 (min.)	Chrom. Ret. Time Col. 2 * (min.)	Leachate Concentration (ug/l)	PQL (ug/l)	RTL (ug/l)
2,4-D	MS	11.25	10.50	40% Recovery	240.	10000.
2,4,5-TP (Silvex)	MS	13.19	12.62	61% Recovery	34.0	1000.

Surrogate Recovery	Spike Level (ug/l)	%Rec	QC Range
2,4-DCAA	400.	104	14- 85
2,4-DB	1000.	76	10-120 ***

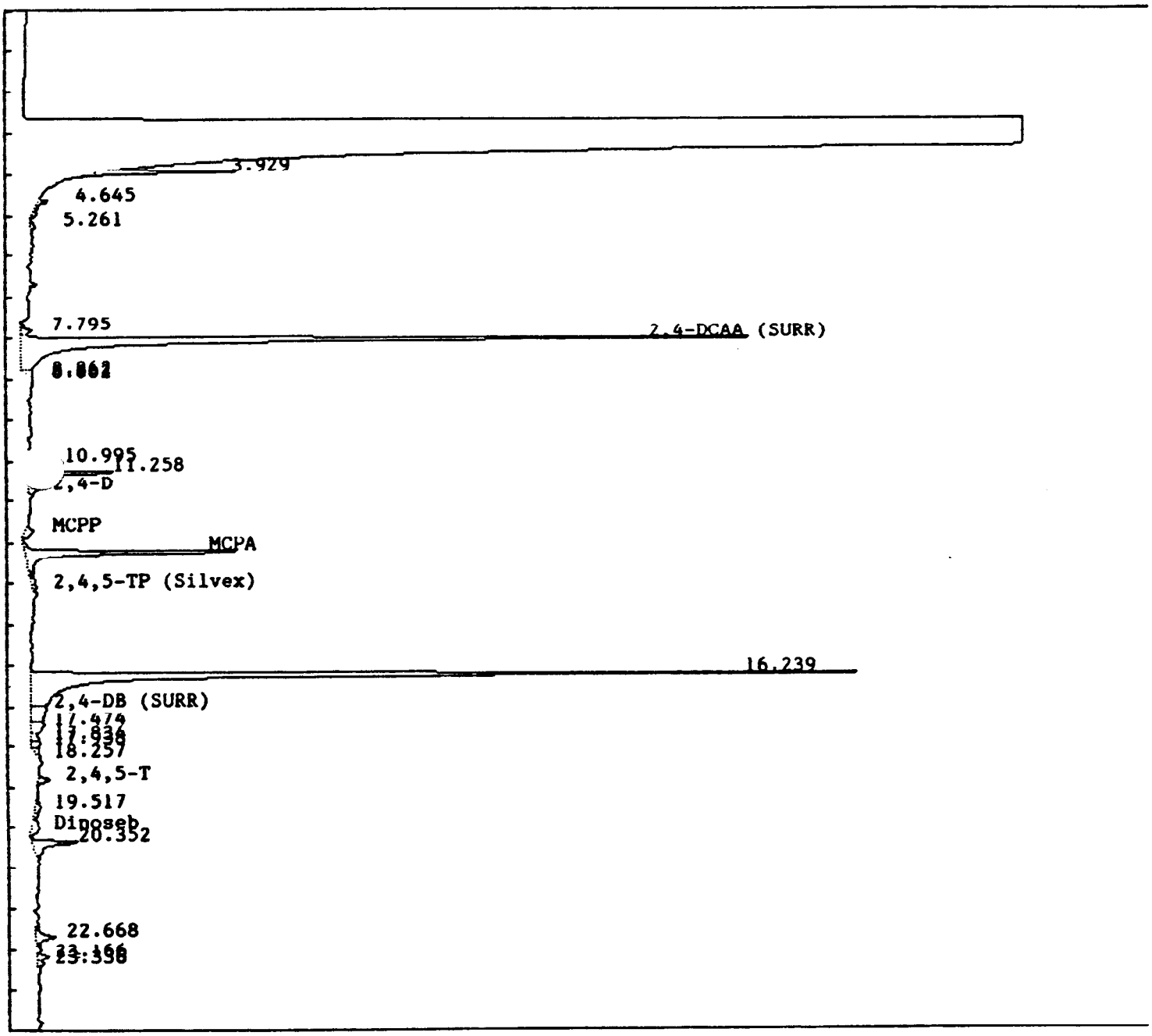
NOTES: RTL: Regulatory Thresehold Limit
* : Col. 1: 30 M x 0.32 mm DB-17 (FSCC)
Col. 2: 30 M x 0.32 mm DB-1701 (FSCC)
N/R: Procedure Not Required
***: Recovery Limits Indicated are Advisory Only
MS : Matrix Spike Compound:

Matrix Spike Compound:	Spike Level (ug/l):	QC Range
2,4-D	100.	0- 97
2,4,5-TP (Silvex)	40.0	2-133

Chlorinated Herbicides Analysis (Primary Run)
File ID: /DATA/LOOP/RESULT/R123A025.RES

S le Name: BSD BLK SPK DUP
L Analyzed: 0557 04May1993
Column: 30 M x 0.53 mm DB-608 (FSCC)
Detector: Electron Capture (ECD)
Inj. Volume: 1.0 uL

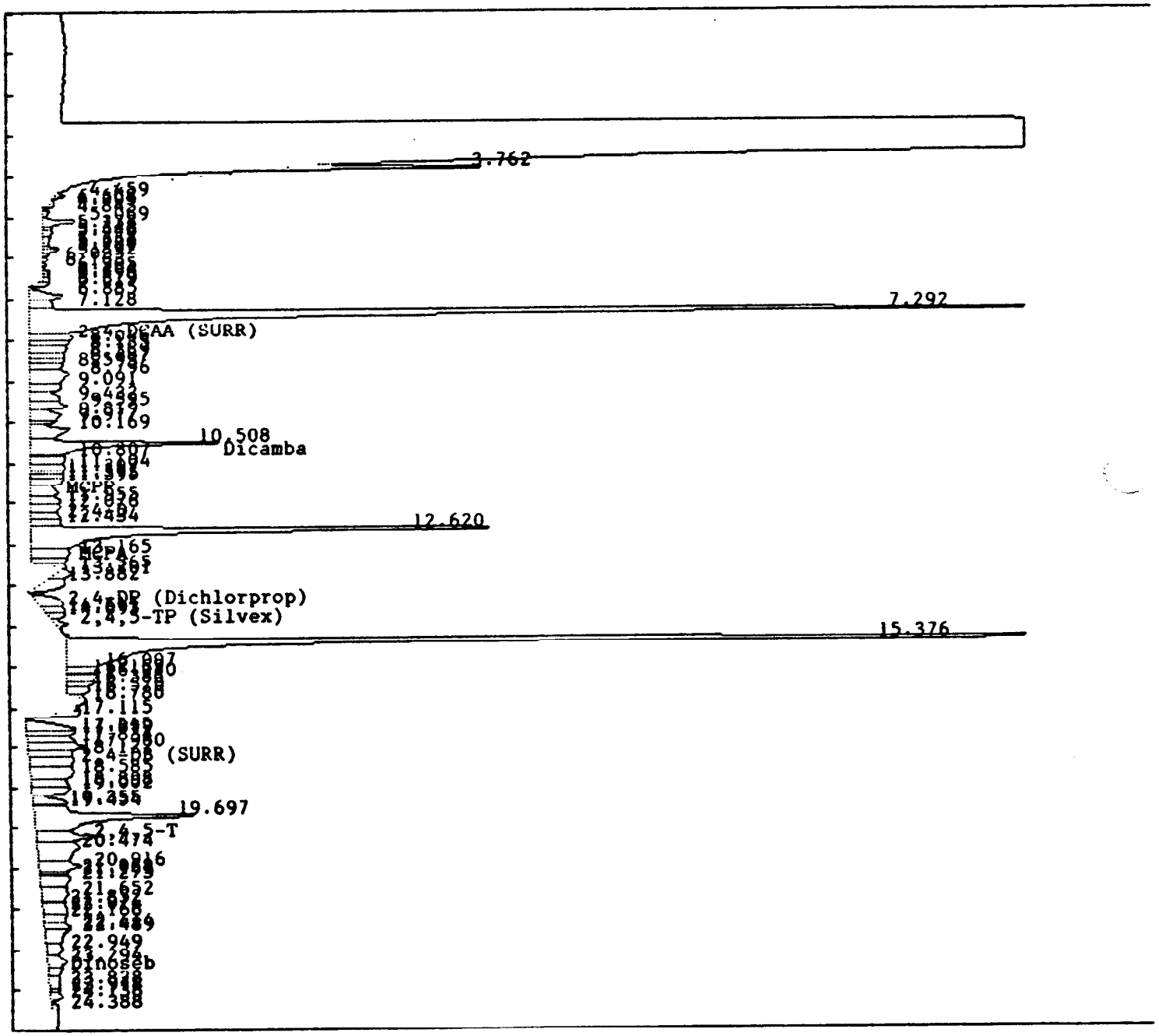
Dil. Factor: 1.0
Instrument: GC-R (HP 5890 II)
Seq/Smpl: 1/ 25
Bottle : 25
Run Time: 25.00 min.



Chlorinated Herbicides Analysis (Secondary Run)
File ID: /DATA/LOOP/RESULT/R123B025.RES

Sample Name: BSD BLK SPK DUP
Date Analyzed: 0557 04May1993
Column: 30 M x 0.53 mm DB-1701 (FSCC)
Detector: Electron Capture (ECD)
Inj. Volume: 1.0 uL

Dil. Factor: 1.0
Instrument: GC-R (HP 589[illegible])
Seq/Smpl: 1/ 25
Bottle : 25
Run Time: 25.00 min.



Client: U.S. ARMY CORPS OF ENGINEERS
Sample: EXTRACTION BLANK

Lab ID: HBLK1320
Extraction Method: SW-846 3510
Clean-up Method: N/R
GC Analytical Method: SW-846 8150

Date Sampled: N/A
Date Extracted: 04/26/93
Date Analyzed: 05/04/93
Time Analyzed: 04:40
Analyst: ED

File ID: 4:R123A/R123A023
Dilution Factor: 1.0

TCLP Chlorinated Herbicides Analysis

Compound	Chrom. Ret. Time Col. 1 (min.)	Chrom. Ret. Time Col. 2 * (min.)	Leachate Concentration (ug/l)	PQL (ug/l)	RTL (ug/l)
2,4-D			BQL	240.	10000.
2,4,5-TP (Silvex)			BQL	34.0	1000.

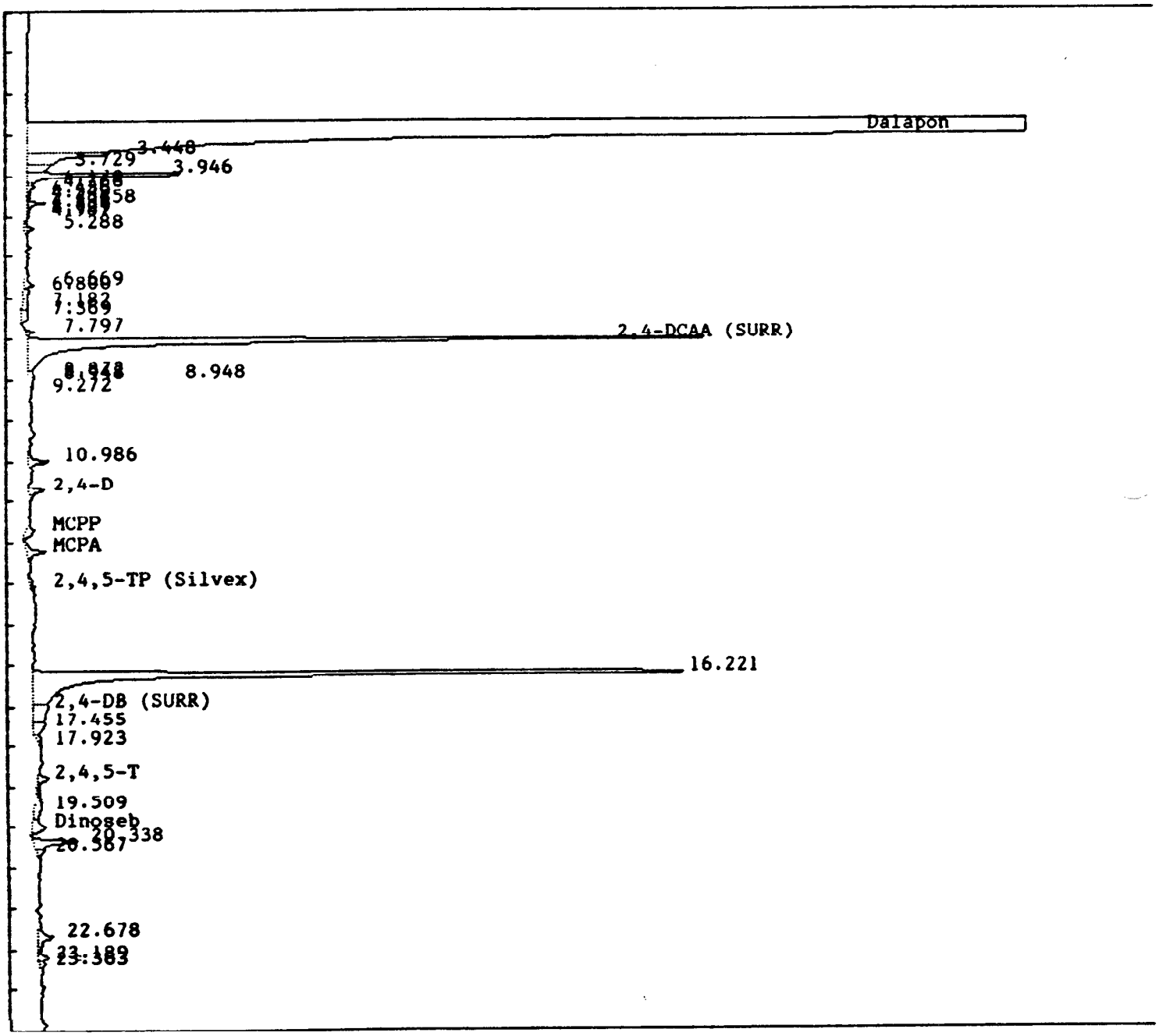
Surrogate Recovery	Spike Level (ug/l)	%Rec	QC Range
2,4-DCAA	400.	91	14- 85
2,4-DB	1000.	70	10-120 ***

NOTES: RTL: Regulatory Thresehold Limit
* : Col. 1: 30 M x 0.32 mm DB-17 (FSCC)
Col. 2: 30 M x 0.32 mm DB-1701 (FSCC)
N/R: Procedure Not Required
***: Recovery Limits Indicated are Advisory Only

Chlorinated Herbicides Analysis (Primary Run)
File ID: /DATA/LOOP/RESULT/R123A023.RES

Sample Name: HBLK1320
Date Analyzed: 0440 04May1993
Column: 30 M x 0.53 mm DB-608 (FSCC)
Detector: Electron Capture (ECD)
Inj. Volume: 1.0 uL

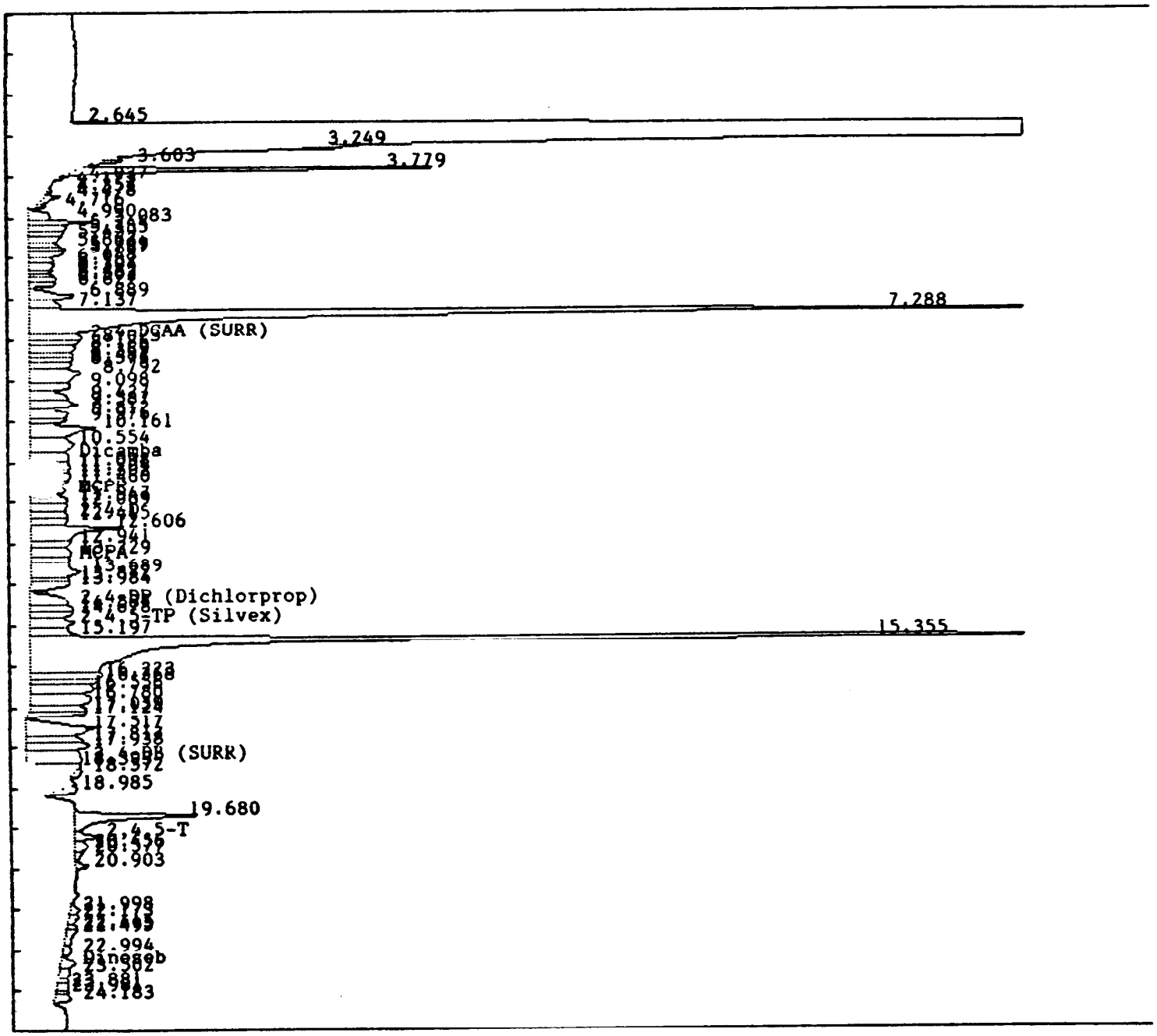
Dil. Factor: 1.0
Instrument: GC-R (HP 5890)
Seq/Smpl: 1/ 23
Bottle : 23
Run Time: 25.00 min.



Chlorinated Herbicides Analysis (Secondary Run)
File ID: /DATA/LOOP/RESULT/R123B023.RES

S ple Name: HBLK1320
l Analyzed: 0440 04May1993
Column: 30 M x 0.53 mm DB-1701 (FSCC)
Detector: Electron Capture (ECD)
Inj. Volume: 1.0 uL

Dil. Factor: 1.0
Instrument: GC-R (HP 5890 II)
Seq/Smpl: 1/ 23
Bottle : 23
Run Time: 25.00 min.



Lab Descriptor: W304JI

PROCEDURE RECORDS

Test Methods for Evaluating Solid Waste,
Physical/Chemical Methods, SW-846, USEPA 3rd Edition, Revised November, 1986

Test	Method	Analyst	Date/Time Analyzed
BNA Extraction - Solid	3550	SC	SEE COMP. LIST
BNA Extraction - TCLP	3520	SC	SEE COMP. LIST
Herbicide Extraction - TCLP	3520	SC	SEE COMP. LIST
Pest/PCB Extraction - Solid	3550	SC	SEE COMP. LIST
Pesticide Extraction - TCLP	3520	SC	SEE COMP. LIST
TCLP Leachate Preparation	1311	OM	04/20/93 14:00
TCLP Zero Headspace Extraction	1311	OM	04/20/93 14:45
BTEX	8021	RM	SEE COMP. LIST
Chlorinated Herbicides - TCLP	8150	RM	SEE COMP. LIST
Chlorinated Hydrocarbons	8121	RM	SEE COMP. LIST
Chlorinated Pesticides - TCLP	8080	RM	SEE COMP. LIST
Organochlorine Pesticides & PCB	8080	RM	SEE COMP. LIST
Arsenic	6010	LH	05/07/93 09:15
Arsenic TCLP	6010	LH	05/07/93 08:50
Arsenic (graphite furnace)	7060	LH	05/07/93 08:46
Barium	6010	LH	05/07/93 08:46
Barium TCLP	6010	LH	05/07/93 08:50
Cadmium	6010	LH	05/07/93 08:46
Cadmium TCLP	6010	LH	05/07/93 08:50
Chromium	6010	LH	05/07/93 08:46
Chromium TCLP	6010	LH	05/07/93 08:50
Lead	6010	LH	05/07/93 08:44
Lead TCLP	6010	LH	05/07/93 08:50
Mercury	7471	LH	05/07/93 08:46
Mercury TCLP	7470	LH	05/07/93 08:52
Mercury(*) TCLP	7470	LH	05/07/93 08:50
Selenium	6010	LH	05/07/93 09:15
Selenium TCLP	6010	LH	05/07/93 08:50
Selenium (graphite furnace)	7740	LH	05/07/93 15:30
Silver	6010	LH	05/07/93 08:46
Silver TCLP	6010	LH	05/07/93 08:50
GC/MS Semivolatile Organics	8270	GK	SEE COMP. LIST
GC/MS Semivolatiles - TCLP	8270	GK	SEE COMP. LIST
GC/MS Volatile Organics	8240	GK	SEE COMP. LIST
GC/MS Volatile Organics - TCLP	8240	GK	SEE COMP. LIST
Ignitability	M1010	MS	05/04/93 09:30

Leaking Underground Fuel Tank Field Manual:
Guidelines For Site Assessment, Cleanup, and Underground Storage Tank Closure, December 1987, State of California

Test	Method	Analyst	Date/Time Analyzed
Total Petroleum Hydrocarbons	LUFT	RM	SEE COMP. LIST

Lab Descriptor: W304JI

Procedure Records Continued -

Interim Method for the Determination of Asbestos in Bulk Insulation Samples, EPA-600/M4-82-020 Dec. 1982

Test	Method	Analyst	Date/Time Analyzed
Asbestos	Bulk ID	WS	05/06/93 13:30

U.S. Army Corps of Engineers

Chain of Custody Record
(ER 1110-1-263)

Proj. No.:
Project Name: Inner Harbor Navigation Canal (IHNC) New Lock Site
Sampler: (Signature) [signature]

Date 1993	Time	Proc.	Grab	Comp	Site Code/Sample Number	Number of Containers	BTEX, TPH, Pb	VOA, BNA, Chlorinated HC, RCRA metals	PCB + Pesticide	Asbestos	RCRA metals	TCLP	Ignitability	Remarks
4/15	1055	ICE		✓	IC-BS-1	3	✓							Composite 2 borings (0.5' to 1.0' deep) near UST
4/16	0850	ICE		✓	IC-BS-3	1					✓			Composite 4 borings (2" to 1.0' deep) sandblast area
4/16	0930	ICE		✓	IC-BS-4	1				✓				Composite 4 borings (2" to 0.5' deep) asbestos area
4/16	1600	ICE		✓	IC-BS-6	5		✓				✓		Composite of 3 borings (1' to 4.5' deep)
4/17	0930	ICE		✓	IC-BS-5	1			✓					Composite of 2 borings (2' to 3' deep) transformer area
4/17	1400	ICE		✓	IC-BS-2	5		✓				✓		Composite of 3 borings (2' to 3' deep) paint house area
4/18	1330	ICE	✓		IC-BS-9	4		✓						Near flood wall; 1 boring (1' – 3' deep)
4/18	1350	ICE		✓	IC-BS-8	1					✓			Composite of 2 borings (2" to 6" deep) sandblast area
4/18	1430	ICE		✓	IC-BS-7	7		✓				✓	✓	Composite of 3 borings (6" to 3' deep) sandblast area

Nothing Follows

Sampler Relinquished by: [signature]	Date/Time 4/19/93 0940	Received by: (Sig.) [signature]	Date/Time 4/19 9:40
Relinquished by: (Sig.)	Date/Time	Received by: (Sig.)	Date/Time
Relinquished by: (Sig)	Date/Time APW	Received for Laboratory by: (Sig.) [signature]	Date/Time 4-19-93 12:15
Custody Seal No.		Lab case No.:	

Hazards Associated with Samples

Remarks at time of receipt:

ENG Form 7021-R, Oct 90

Proponent: CEMP-R

ENVIRONMENTAL INDUSTRIAL RESEARCH ASSOCIATES, INC.
161 James Drive West, Suite 100
St. Rose, Louisiana 70087
(504) 469-0333

LABORATORY REPORT

Prepared for: U.S. ARMY CORPS OF ENG.
Attention: MR. GEORGE BACUTA
P.O. BOX 60267
NEW ORLEANS, LA 70160

Lab Episode Descriptor: W308SV
Work Order Number: 14729
Date Received by the Laboratory: 08/09/93
Sampled By: Other

BPA Number: 92-A-0018
Site: Saucer Marine
Sampler's Initials: KH

NARRATIVE

LAB ID	MATRIX	SAMPLE ID
W308SV01	SOLID	IC-SS-5P2
W308SV02	SOLID	IC-SS-5P4
W308SV03	SOLID	IC-SS-5P5
W308SV04	SOLID	IC-SS-2P1
W308SV05	SOLID	IC-SS-2P2
W308SV06	SOLID	IC-SS-2P3
W308SV07	SOLID	IC-SS-2P4
W308SV08	SOLID	IC-SS-2P5
W308SV09	SOLID	IC-SS-2P6
W308SV10	SOLID	IC-SS-2P7
W308SV11	SOLID	IC-SS-16P1
W308SV12	SOLID	IC-SS-16P2
W308SV13	SOLID	IC-SS-16P3
W308SV14	SOLID	IC-SS-16P4
W308SV15	SOLID	IC-SS-16P5
W308SV16	SOLID	IC-SS-7P1
W308SV17	SOLID	IC-SS-7P2
W308SV18	SOLID	IC-SS-7P3
W308SV19	SOLID	IC-SS-7P4
W308SV20	SOLID	IC-SS-7P5
W308SV21	SOLID	IC-SS-7P6
W308SV22	SOLID	IC-SS-4P1
W308SV23	SOLID	IC-SS-4P2
W308SV24	SOLID	IC-SS-4P3
W308SV25	SOLID	IC-SS-4P4
W308SV26	SOLID	IC-SS-4P5
W308SV27	SOLID	IC-SS-4P6
W308SV28	SOLID	IC-SS-4P7
W308SV29	SOLID	IC-SS-4P8
W308SV30	SOLID	IC-SS-5P1

Analysis results are presented on the following pages for the samples identified above. Mr. Bacuta requested that the Dioxin Screen be added to samples IC-SS-2P2 (W308SV05) and IC-SS-2P4 (W308SV07). Due to limited capacity in the GC department at the time of sample receipt, the Halogenated Hydrocarbons were analyzed

Narrative Continued -

by the GC/MS VOA method 8240. Mr. Bacuta approved this switch. In the TPH analysis of all the samples except IC-SS-7P2, IC-SS-7P3, IC-SS-7P4, IC-SS-4P6, IC-SS-4P7, and IC-SS-4P8 the TPH was quantitated as diesel oil, although the hydrocarbon resembled a heavier material such as a lubrication oil or extremely weathered diesel oil. Due to the high amounts of non Polynuclear Aromatic Hydrocarbons contained in the samples, it was not possible to analyze the samples for PNAs at a move concentrated level.

The chain of custody record is attached to this report.

If you have any questions or require any additional information, please contact the Project Coordinator referencing the Lab Episode Descriptor.

Technical Review/Method Compliance/Report Completeness Certified By:

Wendy Stehling
Manager of Administration

09/07/93
Date

David W. Smith, Ph.D.
Laboratory Manager

7. September 1993
Date

EIRA ENVIRONMENTAL INDUSTRIAL RESEARCH ASSOCIATES, INC.

Client: U.S. ARMY CORPS OF ENGINEERS
Sample: IC-SS-2P1
Lab ID: W308SV04
Method: Dioxin Screening by SIM

Date Extracted: 08/12/93
Date Analyzed: 08/16/93
Date Sampled: 08/03/93
Data File ID: RH228G

GC/MS
SPECIAL SEMIVOLATILE TARGET COMPOUND ANALYSIS

DRY ___ WET X WEIGHT

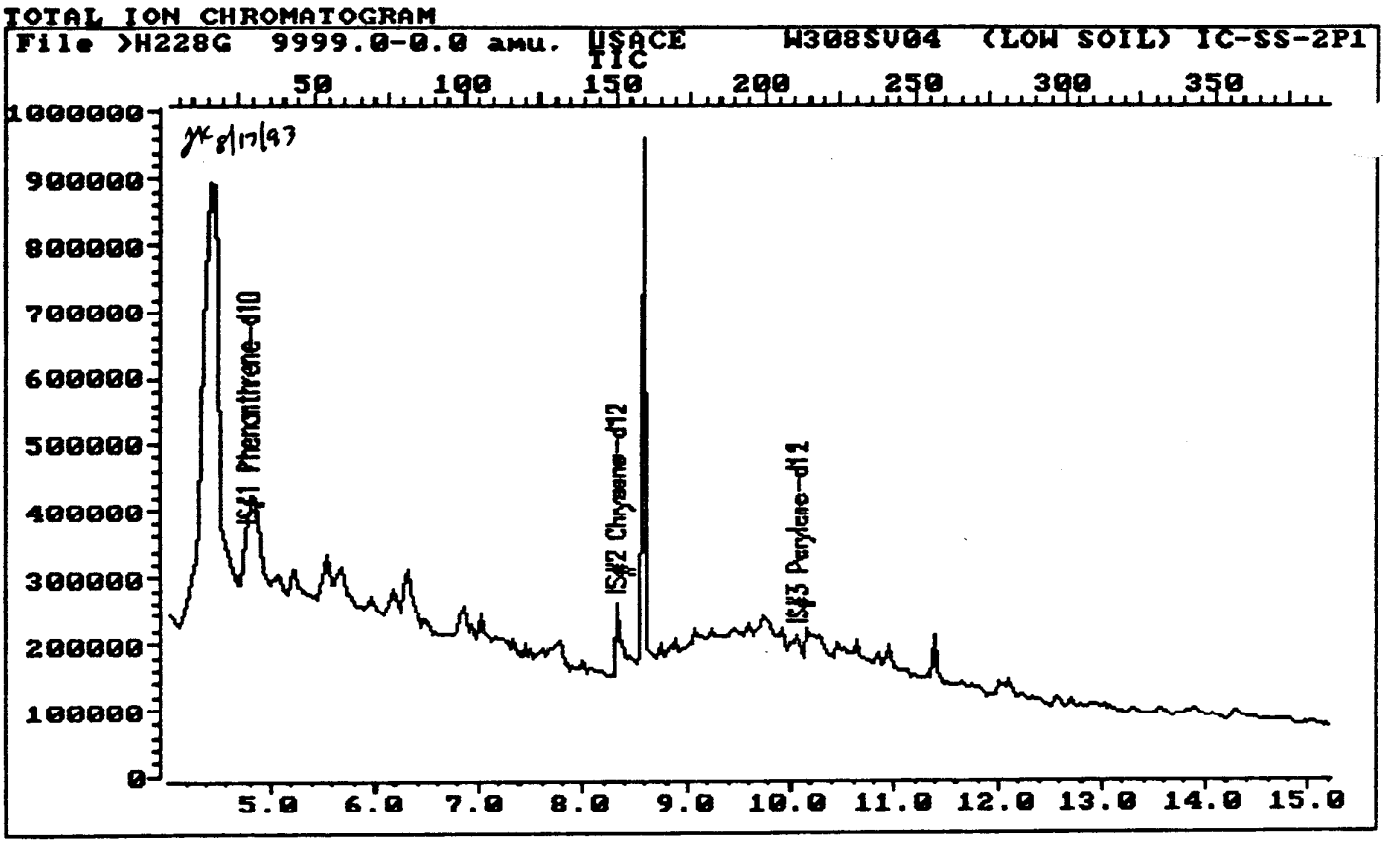
Compound	Chromatographic Retention Time (min.)	Screen Result	POL * (ug/kg)
Dioxin		NEGATIVE	170.

Associated Blank: RH228F

*: Estimated

EIRA ENVIRONMENTAL INDUSTRIAL RESEARCH ASSOCIATES, INC.

TOTAL ION CHROMATOGRAM



Data File: >H228G::D1 Quant Output File: ^H228G::BQ
Name: USACE W308SV04
Misc: (LOW SOIL) IC-SS-2P1 INST H BTL# 3

Id File: ID DOX::DB
Title: DIOXIN SEMIVOLATILE ANALYSIS (CC#3796931) APR93
Last Calibration: 930816 12:43

Operator ID: DAVID
Quant Time: 930816 12:45
Injected at: 930816 11:56

Client: U.S. ARMY CORPS OF ENGINEERS
Sample: IC-SS-2P2
Lab ID: W308SV05
Method: Dioxin Screening by SIM

Date Extracted: 08/12/93
Date Analyzed: 08/16/93
Date Sampled: 08/03/93
Data File ID: RH228H

GC/MS
SPECIAL SEMIVOLATILE TARGET COMPOUND ANALYSIS

DRY ___ WET X WEIGHT

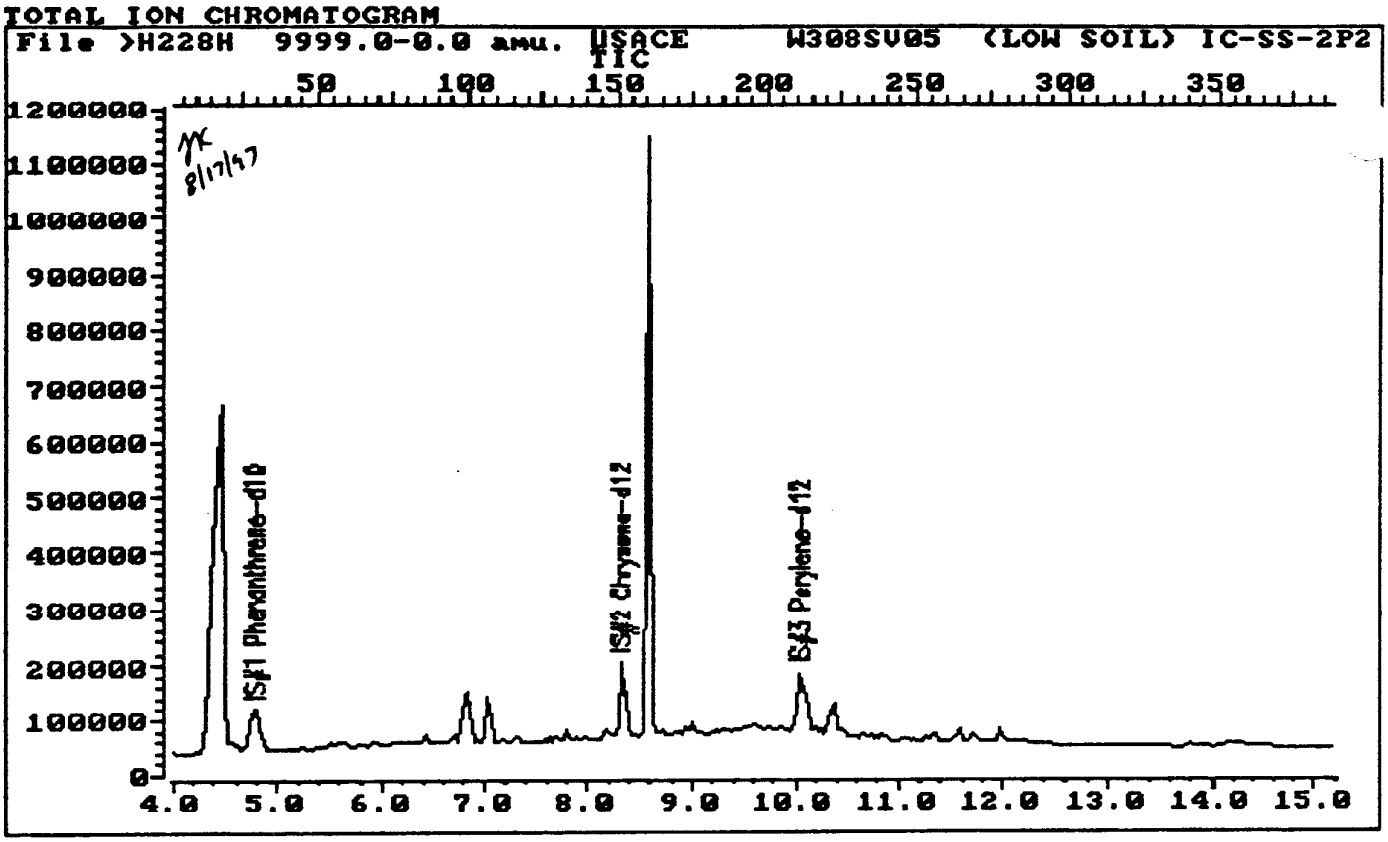
Compound	Chromatographic Retention Time (min.)	Screen Result	POL * (ug/kg)
Dioxin		NEGATIVE	170.

Associated Blank: RH228F

*: Estimated

EIRA ENVIRONMENTAL INDUSTRIAL RESEARCH ASSOCIATES, INC.

TOTAL ION CHROMATOGRAM



Data File: >H228H::D1 Quant Output File: ^H228H::BQ
Name: USACE W308SV05
Misc: (LOW SOIL) IC-SS-2P2 INST H BTL# 6

Id File: ID DOX::DB
Title: DIOXIN SEMIVOLATILE ANALYSIS (CC#3796931) APR93
Last Calibration: 930816 12:43

Operator ID: DAVID
Quant Time: 930816 13:35
Injected at: 930816 12:42

Client: U.S. ARMY CORPS OF ENGINEERS
Sample: IC-SS-2P4
Lab ID: W308SV07
Method: Dioxin Screening by SIM

Date Extracted: 08/12/93
Date Analyzed: 08/16/93
Date Sampled: 08/03/93
Data File ID: RH228I

GC/MS
SPECIAL SEMIVOLATILE TARGET COMPOUND ANALYSIS

DRY ___ WET X WEIGHT

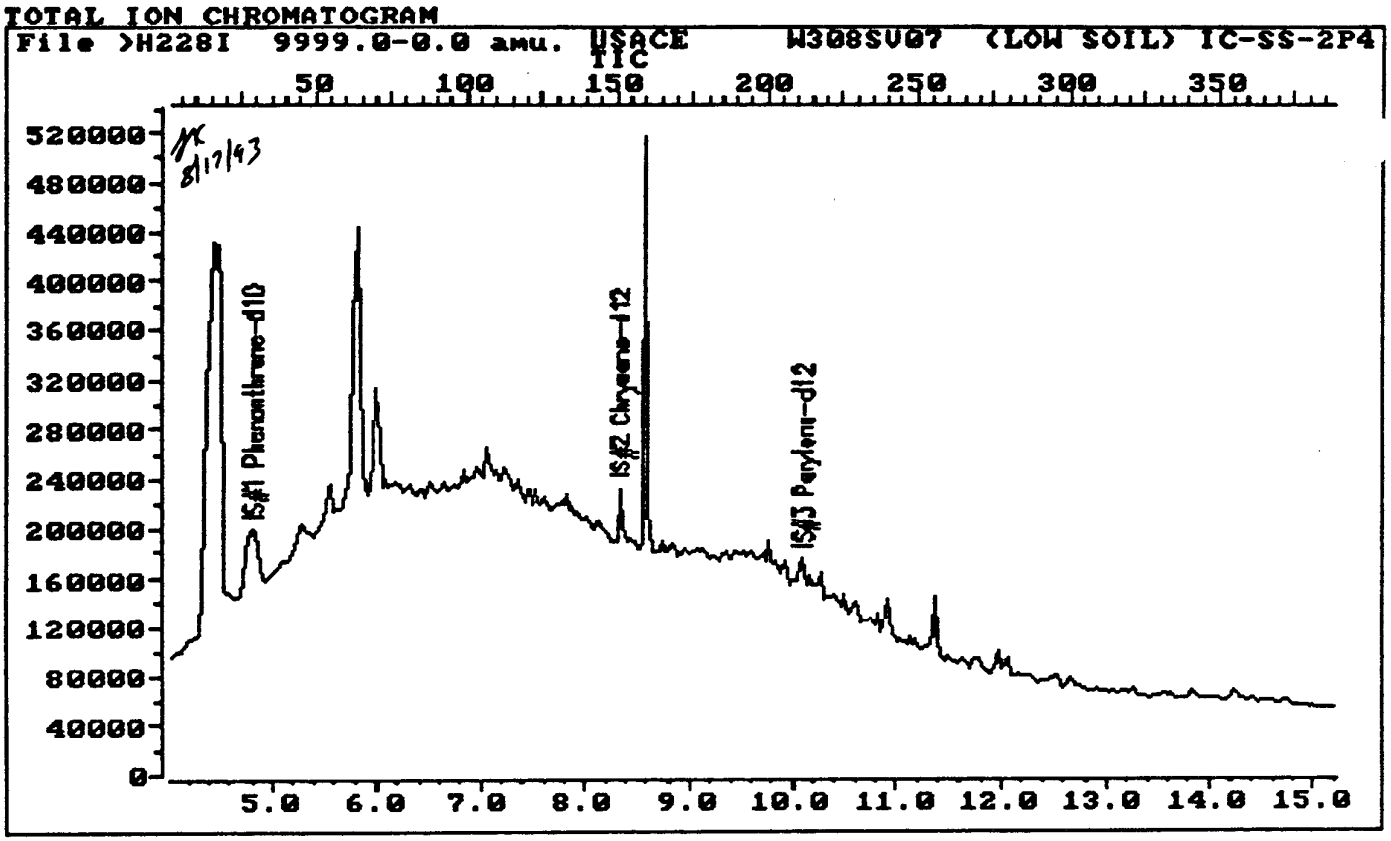
Compound	Chromatographic Retention Time (min.)	Screen Result	POL * (ug/kg)
Dioxin		NEGATIVE	170.

Associated Blank: RH228F

*: Estimated

EIRA ENVIRONMENTAL INDUSTRIAL RESEARCH ASSOCIATES, INC.

TOTAL ION CHROMATOGRAM



Data File: >H228I::D1 Quant Output File: ^H228I::BQ
Name: USACE W308SV07
Misc: (LOW SOIL) IC-SS-2P4 INST H BTL# 9

Id File: ID DOX::DB
Title: DIOXIN SEMIVOLATILE ANALYSIS (CC#3796931) APR93
Last Calibration: 930816 12:43

Operator ID: DAVID
Quant Time: 930816 14:37
Injected at: 930816 13:28

Client: U.S. ARMY CORPS OF ENGINEERS
Sample: BNA Lab Blank RH228F
Lab ID: W308SV
Method: Dioxin Screening by SIM

Date Extracted: 08/12/93
Date Analyzed: 08/16/93
Date Sampled: N/A
Data File ID: RH228F

GC/MS
SPECIAL SEMIVOLATILE TARGET COMPOUND ANALYSIS

DRY ___ WET X WEIGHT

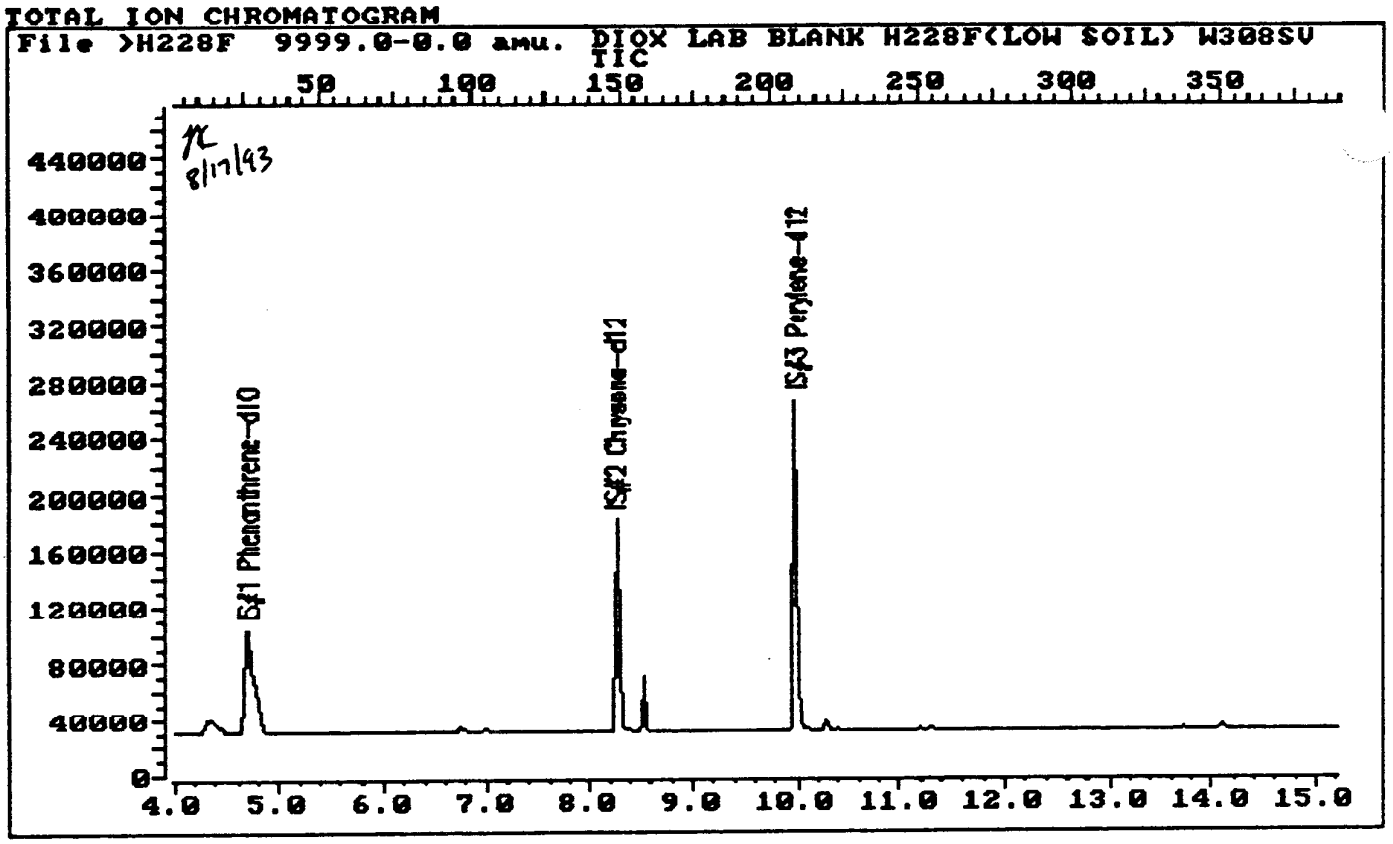
Compound	Chromatographic Retention Time (min.)	Screen Result	POL * (ug/kg)
Dioxin		NEGATIVE	170.

Associated Blank: N/A

*: Estimated

EIRA ENVIRONMENTAL INDUSTRIAL RESEARCH ASSOCIATES, INC.

TOTAL ION CHROMATOGRAM



PC 8/17/93

Data File: >H228F::D1 Quant Output File: ^H228F::BQ
Name: DIOX LAB BLANK H228F
Misc: (LOW SOIL) W308SV INST H BTL# 2

Id File: ID_DOX::DB
Title: DIOXIN SEMIVOLATILE ANALYSIS (CC#3796931) APR93
Last Calibration: 930816 12:43

Operator ID: DAVID
Quant Time: 930816 12:45
Injected at: 930816 11:36

EIRA ENVIRONMENTAL INDUSTRIAL RESEARCH ASSOCIATES, INC.

CHAIN OF CUSTODY RECORD

161 James Drive West
St. Rose, LA 7001
(504) 469-0333

PROJ. NO.

P.O. #

CLIENT: CORPS OF ENGINEERS: NEW ORLEANS DISTRICT

SAMPLER: (Signature and Initials) Kenneth W Hulaney KWH

SAMPLE NO.	DATE SAMPLED 1993	TIME SAMPLED	COMP	GRAB	SAMPLE I.D.	NO. OF CONTAINERS	SAMPLES PRESERVED (Y/N)	ANALYSIS REQUESTED: Oil & Grease	TPH	Polynuclear Aromatic Hydrocarbon (PAH)	Halogenated Hydrocarbon	RCRA Metals (Ag, As, Pb, Hg, Se, Ag, Cd, Cr)	REMARKS	FOR LAB USE ONLY: LAB I.D. #
1	8/3	0920		✓	~~IC-5P2~~ IC-SS-5P2	1		✓	✓				SAMPLER MARINE; [illegible] SHED AREA	01
2	8/3	0930		✓	IC-SS-5P4	1		✓	✓				SAND, 0.0'-1.2', oil	02
3	8/3	1030		✓	IC-SS-5P5	1		✓	✓				SAND, 0.0'-1.1', oil	03
4	8/3	1530		✓	IC-SS-2P1	2		✓	✓	✓	✓	✓	DRUM/TRAP AREA SAND, 0.0'-1.0'	04
5	8/3	1535		✓	IC-SS-2P2	1		✓	✓				SAND, 0.0'-0.8'	05
6	8/3	1545		✓	IC-SS-2P3	1		✓	✓				SAND, 0.0'-0.7'	06
7	8/3	1555		✓	IC-SS-2P4	1		✓	✓				SAND, 0.0'-1.3'	07
8	8/4	0920		✓	IC-SS-2P5	1		✓	✓				SAND, 0.0'-0.8'	08
9	8/4	0910		✓	IC-SS-2P6	1		✓	✓				SAND, 0.0'-0.7', [illegible]	09
10	8/3	1530		✓	IC-SS-2P7	1		✓	✓				SAND, 0.0'-1.0'	10
11	8/3	0845		✓	IC-SS-16P1	2		✓	✓	✓	✓	✓	WORK SHED AREA SAND, 0.0'-[illegible], oil	11
12	8/3	1020		✓	IC-SS-16P2	1		✓	✓				SAND, 0.0'-1.0'	12
13	8/3	1040		✓	IC-SS-16P3	1		✓	✓				SAND, 0.0'-0.9'	13
14	8/3	1045		✓	IC-SS-16P4	1		✓	✓				SAND, 0.0'-1.0', oil	14
15	8/3	1050		✓	IC-SS-16P5	1		✓	✓				SAND, 0.0'-0.8'	15

Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Kenneth W Hulaney	8/6/93 1550	[signature]
[signature]	8/7/93 0900	Leon Wrak 8/7/93 0900
Leon Wrak	8/7/93 0900	Annie Webster 8-9-93 0800

Requested Turnaround
- ____ 24 - 48 hours
- ✓ Less than 5 days
- ____ Less than standard
- ____ Standard

Regulatory Concerns
- ____ RCRA
- ____ NPDES
- ____ Drinking Water
- ____ CLP
- ✓ None
- ____ Other ____

EPISODE ID: W308 SV

LABORTARY APPROVAL REQUIRED PRIOR TO SAMPLE SUBMISSION

CONTACT NAME AND PHONE NUMBER

White Copy_____ Canary Copy_____ Pink Copy_____