

# **Appendix H**

**FASP Mobile Laboratory Data Reports**

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San Francisco, California  
94105-1535

415/957-0110

URS TDMT Only	TDCN: 0843
Project #: 62172	Loc: 09.72 Type: 72



# ICF TECHNOLOGY INCORPORATED

URS CONSULTANTS, INC.  
JUL 21 1992  
RECEIVED

## MEMORANDUM

TO: Brenda Bettencourt, Chief  
Laboratory Support Section (P-3-1)

FROM: Victoria Taylor, Senior Organic Analytic Chemist  
Environmental Services Assistance Team (ESAT)

DATE: July 16, 1992

SUBJECT: Analysis of FASP Newmark Samples

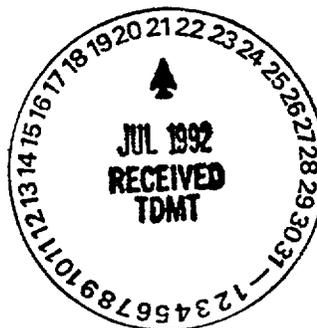
Attached is the subject data package for the period 2/27/92 to 3/27/92.

SITE: Newmark Well Field  
LABORATORY: FASP  
ANALYSIS: Volatile Organics by Purge and Trap/Gas Chromatography  
Total Petroleum Hydrocarbons by Automated Headspace/Gas Chromatography  
COLLECTION DATES: 2/27/92 to 3/27/92  
SAMPLES: 42 Total including soil and water

If you have any questions please call Victoria Taylor (415) 882-3029.

Attachment:  
Data Package

cc: Kevin Meyer, EPA Remedial Project Manager  
Larry Zinky, URS Consultants



## REGION 9 FASP NARRATIVE

- 1.0 ANALYSIS: Volatile Organics by FASP Modifications of EPA Methods 8010 and 8020 and Total Petroleum Hydrocarbons (TPH) by Automated Headspace Analysis
- 2.0 SITE: Newmark Well Field, San Bernadino, CA.  
Superfund ID: J5  
Remedial Project Manager: Kevin Meyer (H-8-1)

## 3.0 SAMPLES:

A total of 42 water and soil samples were analyzed on site during the period 2/27/92 to 3/27/92. A list of the field samples, collection date, analysis date and requested analysis is presented in Table 1. Included in this table are the surrogate recoveries obtained in each sample.

## 4.0 QUALITY CONTROL:

FASP quality control (QC) results are included with the analyses performed each day. Analyses which did not meet FASP QC criteria were not reanalyzed, which is consistent with Level II data quality objectives. Significant difficulties encountered during the course of these analyses are described below.

4.1 INITIAL CALIBRATION: Initial five point calibrations were performed on 2/28/92, 3/5/92, 3/9/92 and 3/18/92. The FASP QC guideline for percent relative standard deviation (%RSD) of  $\leq 30\%$  was met for most analytes. Poor resolution was obtained for vinyl chloride, bromomethane, chloromethane and chloroethane, and a calibration factor was calculated based on the sum of peaks attribute to these four gases. As a result, the %RSD for the gases exceeds the FASP QC criteria in some cases. Due to problems with the Hall detector, single point calibrations were used for the analyses performed over the period 3/13/92 to 3/17/92.

4.2 CONTINUING CALIBRATION: Continuing calibration standard analyses were performed each day that sample analyses were performed. The FASP QC criteria for percent difference (%D) of  $\leq 25\%$  were met for most of the analytes, although significant deviations occurred for the surrogate, fluorobenzene, used for the EPA Method 8020 analyses, benzene, the gases (as discussed above), and all aromatic compounds in the continuing calibrations performed on 3/12/92, 3/13/92, 3/16/92, and 3/17/92.

4.3 BLANK ANALYSES: Blank analyses were performed each day that sample analyses were performed. No target compounds were detected in the blanks above the FASP reporting limit for either the volatile organic or TPH analyses.

4.4 SURROGATE ANALYSES: Surrogate spiking compounds were added to each sample to estimate the adequacy of system performance. The FASP QC criteria for surrogate recovery are 70% to 125%. The surrogate used for the TPH analyses was bromofluorobenzene (BFB). The Hall detector surrogate was 1-chloro-2-bromopropane and the surrogates used on the photoionization detector (PID)

included fluorobenzene, 1,1,1-trifluorotoluene (1,1,1-TFT) and BFB. For the volatile compound analyses on the Hall detector, 1 out of 25 surrogate recoveries were outside the FASP QC criteria. On the PID, 0 out of 20 BFB, 2 out of 20 1,1,1-TFT, and 8 out of 20 fluorobenzene recoveries were outside the FASP QC criteria. For the TPH analyses, 4 out of 15 BFB recoveries were outside the FASP QC criteria. Surrogate recoveries were calculated based on the response in the daily calibration standard.

#### 5.0 DISCUSSION OF RESULTS:

The analytical results are presented in this report by consecutive analysis date. FASP analyses do not deviate from analyses performed under EPA Methods 8010 and 8020 except as follows: no matrix spike and matrix spike duplicate analyses are performed, soil results are reported on a wet-weight basis, and no second column confirmation analyses are performed. The FASP TPH method is adapted from EPA Method 8015 and the guidelines presented in the State of California Department of Health Services Leaking Underground Fuel Tank (LUFT) Manual.

Low recoveries were obtained with the soil samples and very low to very high recoveries were observed with fluorobenzene and 1,1,1-TFT in several of the water samples. The cause of the high and variable recoveries may be due to residual water on the concentrator trap. An additional dry purge step was added with marginal success. The use of BFB, a late eluting compound which is not affected by coelution with water vapor, was adopted and the BFB recoveries were all within FASP QC criteria. Control charts presenting the surrogate recoveries for the month of March are included with this narrative.

Instrument problems over the period of 3/12/92 to 3/17/92 prevented use of the Hall detector for the analysis of purgable halocarbons. Because the second detector, a PID, is sensitive to double bonded compounds, the PID was used for the identification and quantification of trichloroethene and tetrachloroethene during this time period. The remainder of the analytes reported on the abbreviated FASP reporting forms were not detected above the reporting limit.

No difficulties were encountered with the TPH analyses.

All data contained in this report should be considered appropriate for screening level uses.

TABLE 1: INVENTORY OF FASP SAMPLES and SURROGATE RECOVERIES

CLIENT: URS Consultants, Inc.

DATE: 2/27/92 through 3/27/92

STATION	COLLECTION DATE	ANALYSIS DATE	SAMPLE ID	EPA 601/8010	EPA 602/8020	1-CL-2BRP	FB	1,1,1-TFT	BFB	TPH-Headspace	TPH-Diesel	BFB
MW04	02/27/92	02/27/92	SMW04-02M	X	X	77	43	NA	NA	X		77
MW04	02/26/92	02/28/92	SMW04-01	X	X	77	56	NA	NA	X		83
MW05	03/06/92	03/09/92	SMW05-01M	X	X	108	NR	NA	NA	X		59
MW05	03/07/92	03/10/92	SMW05-03M	X	X	95	NA	5	89	X		63
MW04	03/10/92	03/10/92	WDW01-01M	X	X	90	189	100	90			
MW04A	03/10/92	03/12/92	WMW04A-01M	X	X	92	218	97	82	X	X	79
MUNI-03	03/11/92	03/12/92	MUNI-03-01	X		NA	NA	92	88			
MUNI-05	03/11/92	03/12/92	MUNI-05-01	X		NA	NA	92	81			
MUNI-13	03/11/92	03/12/92	MUNI-13-01	X		NA	NA	89	88			
MUNI-15	03/11/92	03/12/92	MUNI-15-01	X		NA	NA	86	85			
MUNI-21	03/11/92	03/12/92	MUNI-21-01	X		NA	NA	88	88			
MUNI-21	03/11/92	03/12/92	MUNI-21-02	X		NA	NA	96	96			
MUNI-22	03/11/92	03/12/92	MUNI-22-01	X		NA	NA	87	90			
MUNI-26	03/11/92	03/12/92	MUNI-26-01	X		NA	NA	85	86			
MUNI-02	03/12/92	03/13/92	MUNI-02-01	X		NA	NA	89	92			
MUNI-18	03/12/92	03/13/92	MUNI-18-01	X		NA	NA	89	93			
MUNI-19	03/12/92	03/13/92	MUNI-19-01	X		NA	NA	87	92			
MUNI-24	03/12/92	03/13/92	MUNI-24-01	X		NA	NA	91	91			
MW04B	03/12/92	03/13/92	WMW04B01M	X	X	NA	NA	92	92	X	X	85
MW02	03/12/92	03/16/92	SMW02-01M	X	X	NA	NA	NR	87	X	X	74
MW02	03/12/92	03/16/92	SMW02-02M	X	X	NA	NA	86	91	X	X	88
MW03	03/13/92	03/16/92	SMW03-01M	X	X	NA	NA	90	92	X		89
MW05	03/17/92	03/17/92	WDW01-02M	X	X	NA	NA	96	95			

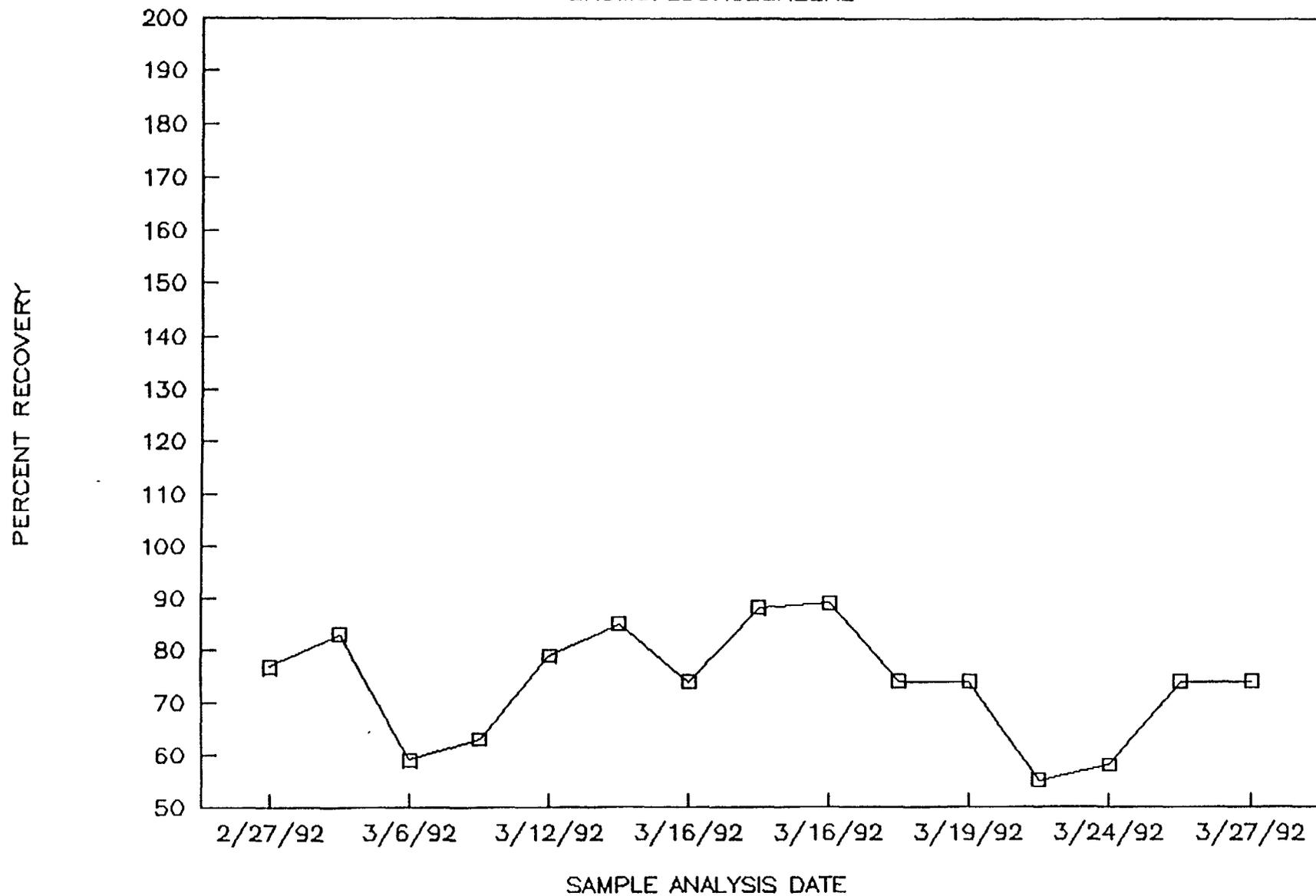
TABLE 1: INVENTORY OF FASP SAMPLES and SURROGATE RECOVERIES

CLIENT: URS Consultants, Inc.  
 DATE: 2/27/92 through 3/27/92

STATION	COLLECTION DATE	ANALYSIS DATE	SAMPLE ID	EPA 601/8010	EPA 602/8020	1-CL-2BRP	FB	1,1,1-TFT	BFB	TPH-Hexapaco	TPH-Diesel	BFB
MW03A	03/19/92	03/19/92	WMW03A-01	X	X	110	160	NA	NA	X	X	74
MW03B	03/19/92	03/19/92	WMW03B-01	X	X	116	89	NA	NA	X	X	74
MW03	03/23/92	03/24/92	WDW01-03M	X	X	84	98	NA	NA			
DW01	03/24/92	03/24/92	WDW01-04M	X	X	80	88	NA	NA			
ER05	03/24/92	03/24/92	WERO5A-01M	X	X	87	88	NA	NA	X		
MW05	03/24/92	03/24/92	WPW01-01M	X	X	88	90	NA	NA			
MW05A	03/24/92	03/24/92	WMW05A-01M	X	X	89	75	NA	NA	X	X	55
MW05B	03/24/92	03/24/92	WMW05B-01M	X	X	97	90	NA	NA	X	X	58
ER02	03/25/92	03/25/92	WERO2-03M	X	X	82	112	NA	NA	X		
MUNI-08	03/25/92	03/25/92	MUNI-08-01M	X		110	88	NA	NA			
MUNI-12	03/25/92	03/25/92	MUNI-12-01M	X		107	86	NA	NA			
MW02	03/25/92	03/26/92	SMW02-01M	X	X	113	NR	NA	NA	X	X	74
MW02	03/26/92	03/26/92	SMW02-04M	X	X	105	NR	NA	NA	X		
ER03	03/26/92	03/27/92	WERO3A-01M	X	X	85	97	NA	NA	X		
MW02	03/26/92	03/27/92	SMW02-05M	X	X	81	92	NA	NA	X	X	
MW02	03/26/92	03/27/92	SMW02-06M	X	X	83	90	NA	NA	X	X	
MW02	03/26/92	03/27/92	SMW02-09M	X	X	67	71	NA	NA	X	X	
MW03B	03/26/92	03/27/92	WMW03B-01M	X	X	78	94	NA	NA	X	X	74
MW03	03/27/92	03/27/92	WDW01-05M	X		77	10	NA	NA			

# CONTROL CHART: TPH ANALYSES

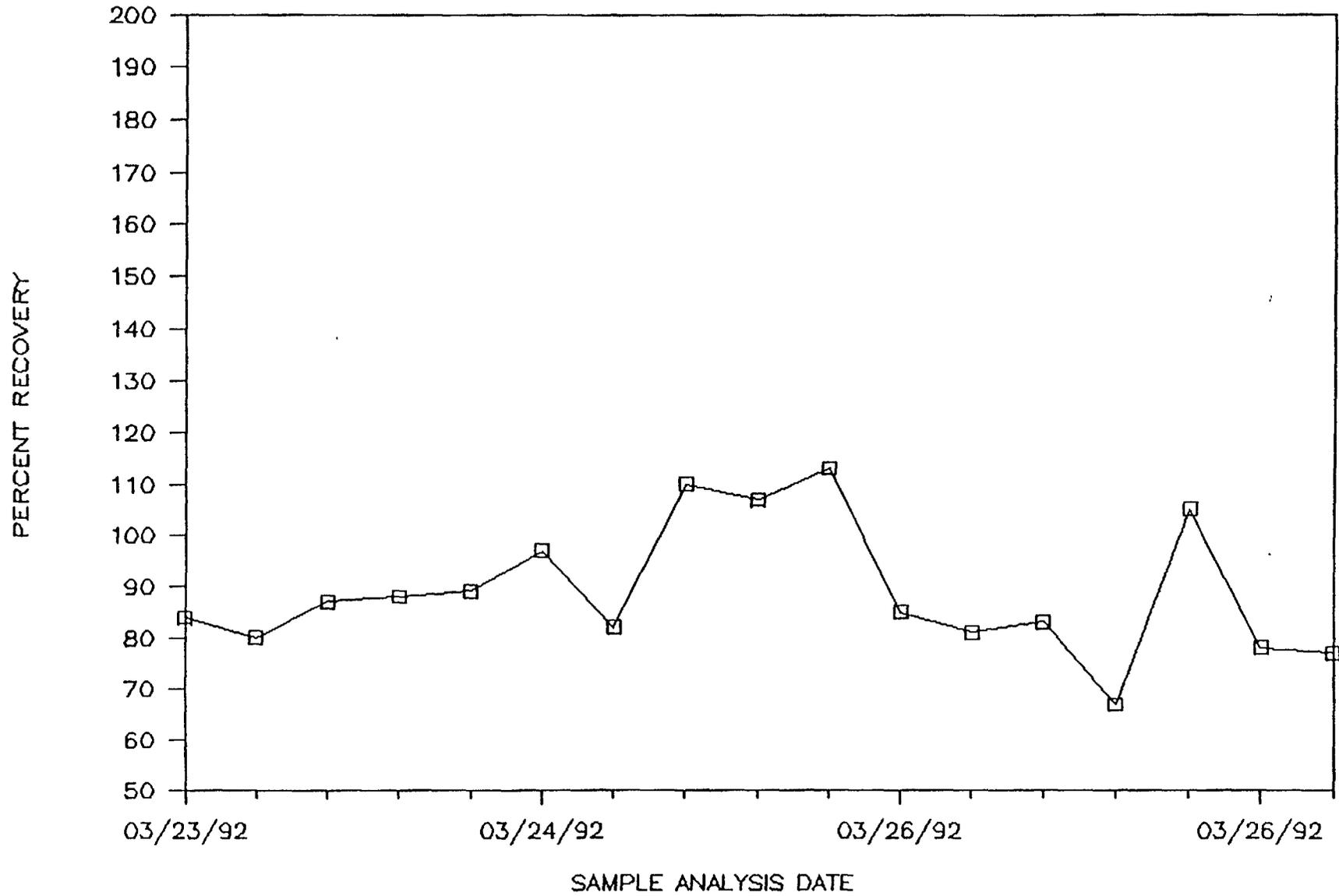
BROMOFLUOROBENZENE



57

# CONTROL CHART

1-CHLORO-2-BROMOPROPANE



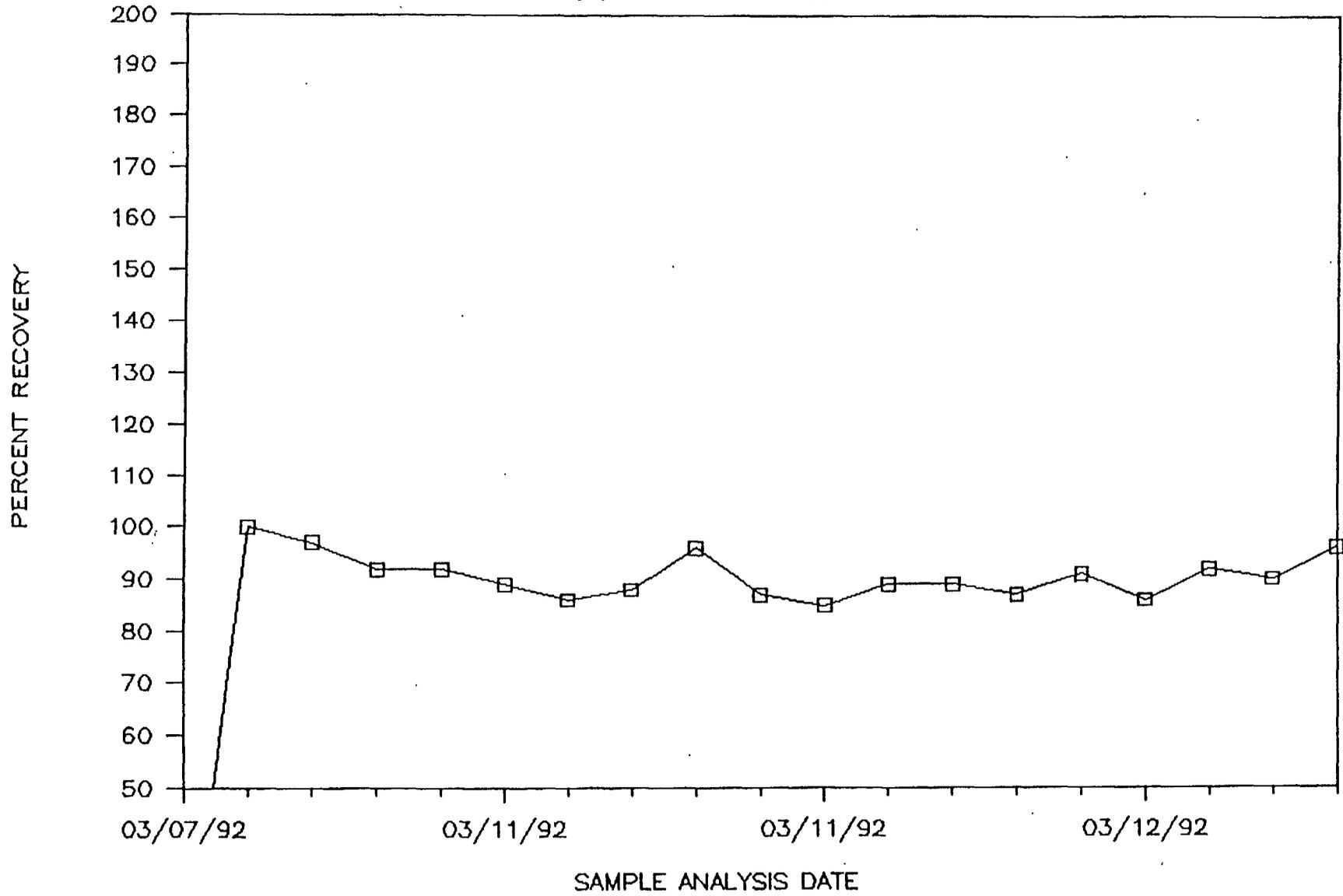
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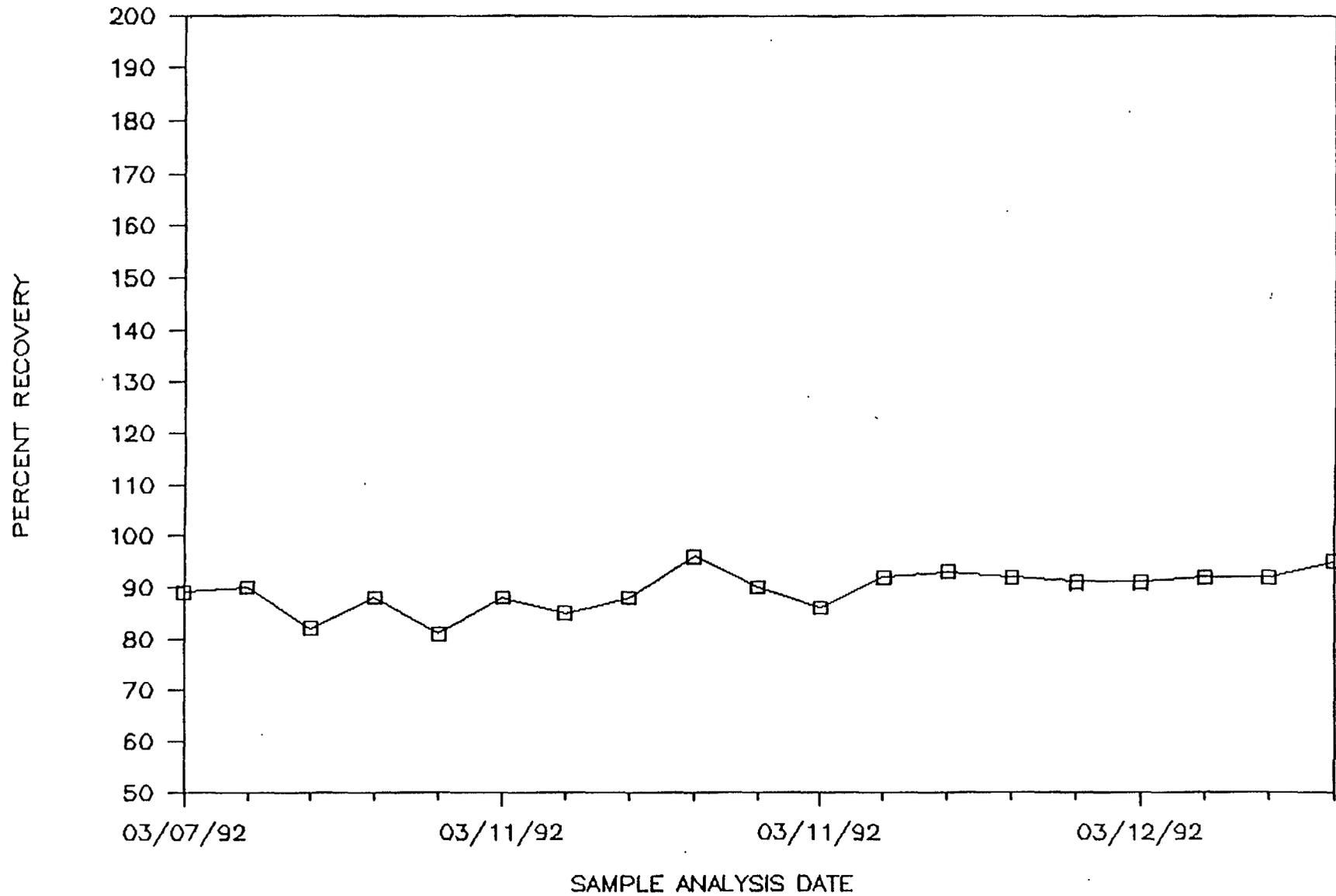
# CONTROL CHART

1,1,1-TRIFLUOROTOLUENE



# CONTROL CHART

BROMOFLUOROBENZENE



2

(

(

# URS Consultants, Inc.

## CHAIN OF CUSTODY RECORD

PROJECT NO.: 62172.32.40				SITE NAME: NEWMARK RI/FS SOURCE				NO. OF CONTAINERS 1	8010, 8020, TPH							REMARKS TRANSFERRED FROM CA00498				
SAMPLERS (SIGNATURE): <i>Long Jim</i>																				
STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION															
MWD4	02/26/92	13:15 12:20	2/26/92	X	SMW04-01	X														
RELINQUISHED BY: (SIGNATURE) <i>Long Jim</i>			DATE	TIME	RECEIVED BY (SIGNATURE) <i>[Signature]</i>			RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)							
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)			RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)							
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED FOR LABORATORY BY (SIGNATURE) <i>[Signature]</i>			DATE	TIME	REMARKS:										
								2/26/92	13:15											

CA 00497





PROJECT NO 62172.32.40				SITE NAME: NEWMARK RI/FS SOURCE				NO. OF CON- TAINERS	EPA 601	EPA 602	TPH-G	TPH-BD15	REMARKS				
SAMPLERS (SIGNATURE) <i>Chris Longman Jay Zin</i>																	
STATION NO	DATE	TIME	COMP	GRAB	STATION LOCATION												
MWD4A	3/10/92	1515		X	WMW04A-01M	7	X	X	X	X							
MW04	3/10/92	1547		X	WDW01-01M	4	X	X									
RELINQUISHED BY (SIGNATURE) <i>Chris Longman</i>				DATE 3/10/92	TIME 1600	RECEIVED BY (SIGNATURE) <i>Jay Zin</i>				RELINQUISHED BY (SIGNATURE)		DATE	TIME	RECEIVED BY (SIGNATURE)			
RELINQUISHED BY (SIGNATURE)				DATE 3/10/92	TIME	RECEIVED BY (SIGNATURE)				RELINQUISHED BY (SIGNATURE)		DATE	TIME	RECEIVED BY (SIGNATURE)			
RELINQUISHED BY: (SIGNATURE) <i>Jay Zin</i>				DATE 3/10/92	TIME 1613	RECEIVED FOR LABORATORY BY (SIGNATURE) <i>[Signature]</i>				DATE 3/10/92	TIME 16:18	REMARKS:					

CA 00488

# URS Consultants, Inc.

## CHAIN OF CUSTODY RECORD

PROJECT NO. <u>62172.3160</u> <del>62172.3240</del> <small>PAC 3/11/92</small>		SITE NAME. <u>NEWMARK RI/FS SOURCE</u> <small>PAC 3/11/92</small>		NO. OF CONTAINERS	EPA 601						REMARKS
SAMPLERS (SIGNATURE): <u>PETER CRISPELL</u> <small>Peter Crispell</small>		SAMPLERS (SIGNATURE): <u>CHRIS LONERGAN</u> <small>Chris Loneragan</small>									
STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION						
MUNI-22	3/11/92	1450		X	MUNI-22-01	2	X				
<del>MUNI-23</del>	<del>3/11/92</del>	<del>1515</del>		<del>X</del>	<del>MUNI-23-01</del>	<del>2</del>	<del>X</del>				
MUNI-26	3/11/92	1545		X	MUNI-26-01	2	X				
RELINQUISHED BY (SIGNATURE)		DATE	TIME	RECEIVED BY (SIGNATURE)		RELINQUISHED BY (SIGNATURE)		DATE	TIME	RECEIVED BY (SIGNATURE)	
RELINQUISHED BY (SIGNATURE)		DATE	TIME	RECEIVED BY (SIGNATURE)		RELINQUISHED BY (SIGNATURE)		DATE	TIME	RECEIVED BY (SIGNATURE)	
RELINQUISHED BY (SIGNATURE)		DATE	TIME	RECEIVED FOR LABORATORY BY (SIGNATURE)		DATE	TIME	REMARKS:			
<u>Chris Loneragan</u>		3/11/92	16:32	<u>Peter Crispell</u>		3/11/92	16:32				

REVIEWED BY: Jay Zis 3/11/92 1625

CA 00493

# URS Consultants, Inc.

## CHAIN OF CUSTODY RECORD

PROJECT NO.:		SITE NAME:				NO. OF CONTAINERS	REMARKS			
62172.32.40		NEWMARK RI/FS SOURCE								
SAMPLERS (SIGNATURE)						EPA 601				
LARRY CUNY <sup>For</sup> CHRIS LONERGAN PETER CRISPEL <sup>For</sup> Chris Loneragan										
STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION					
MUNI-05	3/11/92	0825		X	MUNI-05-01	2	X			
MUNI-03	3/11/92	0945		X	MUNI-03-01	2	X			
MUNI-21	3/11/92	11:00		X	MUNI-21-01	2	X			
MUNI-21	3/11/92	11:00		X	MUNI-21-02	2	X			
MUNI-15	3/11/92	11:40		X	MUNI-15-01	2	X			
<del>6</del>	<del>3/11/92</del>	<del>1215</del>		<del>X</del>	<del>MUL PAC 3/1/92</del>					
MUNI-13	3/11/92	1230		X	MUNI-13-01	2	X			
L2	3/11/92									
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY (SIGNATURE)		RELINQUISHED BY (SIGNATURE)		DATE	TIME	RECEIVED BY (SIGNATURE)
Chris Loneragan		3/11/92	1359	Lay Zin						
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY (SIGNATURE)		RELINQUISHED BY (SIGNATURE)		DATE	TIME	RECEIVED BY (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED FOR LABORATORY BY (SIGNATURE)		DATE	TIME	REMARKS:		
Lay Zin		3/11/92	1420	Outman		3/11/92	13:00	v r		

REVIEWED BY: Lay Zin 3/11/92 14:17

CA 00489











# URS Consultants, Inc.

## CHAIN OF CUSTODY RECORD

MOBILE LABS

PROJECT NO.: L2172.32.40				SITE NAME: NEWARK		NO. OF CONTAINERS	EPA 601	EPA 602	TPH/GR-SOLUBLE	TPH-8015	REMARKS		
SAMPLERS (SIGNATURE): <i>Ryan Ronogh-Sargoodi / Stewart W. Black</i>													
STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION								
MW03A	3/19/92	12:51		✓	WMW03A-01	7	/	/	/	/	DEVELOPMENT WATER MW03A		
MW03B	3/19/92			✓	WMW03B-01	7	/	/	/	/	DEVELOPMENT WATER MW03B		
											BOTH SAMPLES VERY HIGH TURBIDITY.		
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)			RELINQUISHED BY (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)
<i>Stewart W. Black</i>			3/19/92	15:52									
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)			RELINQUISHED BY (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED FOR LABORATORY BY (SIGNATURE)			DATE	TIME	REMARKS:			
					<i>[Signature]</i>			3/19/92	15:53				

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PROJECT NO.: 6217Z.32.40				SITE NAME: NEWMARK REIFS GW CONTAM.		NO. OF CONTAINERS	EPA 601	EPA 602	TPH-6	TPH-8015	REMARKS		
SAMPLERS (SIGNATURE): Peter Limpell Jay Zink													
STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION								
EROS	03/24/92	0840		X	VEROSA-01M	6	X	X	X				
MWOSA	03/24/92	1055		X	WMWOSA-01M	7	X	X	X	X			
MWOSB	03/24/92	1325		X	WMWOSB-01M	7	X	X	X	X			
MWOS	03/24/92	1350		X	WPW01-01M	4	X	X					
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)			RELINQUISHED BY (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)			RELINQUISHED BY (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED FOR LABORATORY BY (SIGNATURE)	DATE	TIME	REMARKS:					
Jay Zink			3/24/92	1417	[Signature]	3/24/92	1417						

REVIEWED BY LARRY ZINKY 3/24/92

CA 00504

# URS Consultants, Inc.

## CHAIN OF CUSTODY RECORD

PROJECT NO.: 62172.32.40				SITE NAME: NEWMARK RI/FS SOURCE				NO. OF CONTAINERS	EPA 601	EPA 602					REMARKS
SAMPLERS (SIGNATURE): <i>[Signature]</i>															
STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION										
DW01	3/24/16	11		X	WDW 01 - 04M		4	X	X					FRACT. TANIL	
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)			RELINQUISHED BY (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)		
<i>[Signature]</i>			24 MARCH	16 20											
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)			RELINQUISHED BY (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)		
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED FOR LABORATORY BY (SIGNATURE)			DATE	TIME	REMARKS:					

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PROJECT NO. 62172.32.40				SITE NAME. NEWMARK RIFFS SOURCE				NO. OF CONTAINERS	MOBILE EPA 601	MOBILE EPA 602	MOBILE TPH-6	PAS-VOL3	PAS-BVA	PIRB - PAS	TOTAL METALS - PAS	MUNIS BOD5 BOD	TPH 6.D	REMARKS
SAMPLERS (SIGNATURE): <i>[Signature]</i>																		
STATION NO	DATE	TIME	COMP	GRAIS	STATION LOCATION													
MUOZ	3/25/92	1030		X	WAT SWDZ-01M	1											X	CLP-VOLAS (PAS) preserved in
EROZ	3/25/92	1340		X	WEROZ-01M <sup>8:30 AM</sup> VT 3/24/92	6	X	X	X									1 ml 1:1 HCl
																		Total metals (PAS) preserved
																		in 5 ml 1:1 HNO3
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)			RELINQUISHED BY (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)					
<i>[Signature]</i>			1412	25 MAR 92	<i>[Signature]</i>													
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)			RELINQUISHED BY (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)					
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED FOR LABORATORY BY (SIGNATURE)			DATE	TIME	REMARKS:								
<i>[Signature]</i>			3/25/92	1416	<i>[Signature]</i>			3/25/92	1416									

CA 00492

# URS Consultants, Inc.

## CHAIN OF CUSTODY RECORD

PROJECT NO.: 62172.31.6D				SITE NAME: NEWMARK				NO OF CON- TAINERS	EPA 601				REMARKS
SAMPLERS (SIGNATURE): <i>Peter Lingell</i>													
STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION								
MUNI-12	3/25/92	1430		X	MUNI-12-0119			2	X				
MUNI-08	3/25/92	1015		X	MUNI-08-01M			2	X				
RELINQUISHED BY: (SIGNATURE) <i>Peter Lingell</i>		DATE 3/25/92	TIME 1700	RECEIVED BY (SIGNATURE) _____		RELINQUISHED BY (SIGNATURE) _____		DATE	TIME	RECEIVED BY (SIGNATURE) _____			
RELINQUISHED BY: (SIGNATURE) _____		DATE	TIME	RECEIVED BY (SIGNATURE) _____		RELINQUISHED BY (SIGNATURE) _____		DATE	TIME	RECEIVED BY (SIGNATURE) _____			
RELINQUISHED BY: (SIGNATURE) _____		DATE	TIME	RECEIVED FOR LABORATORY BY (SIGNATURE) <i>[Signature]</i>		DATE	TIME	REMARKS:					
						3/25/92	1700						

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# URS Consultants, Inc.

## CHAIN OF CUSTODY RECORD

PROJECT NO.: 62172.32.40			SITE NAME: NEWMARK RI/FS SOURCE			NO. OF CONTAINERS 6	EPA 601 EPA 602 TPH-G	REMARKS			
SAMPLERS (SIGNATURE): <i>Jay Jim Peters</i>											
STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION						
ERD3	3/26/92	0920		X	WERD3A-01M	X	X	X			
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)		DATE	TIME	RECEIVED BY (SIGNATURE)	
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)		DATE	TIME	RECEIVED BY (SIGNATURE)	
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED FOR LABORATORY BY (SIGNATURE)	DATE	TIME	REMARKS:			
<i>Jay Jim</i>			3/26/92	0926	<i>Out east</i>	3/26/92	0926				

REVIEWED BY *Jay Jim* 3/26/92

CA 00484

Accompany Samples

Yellow - URS Main Office

Pink - URS Field Office

# URS Consultants, Inc.

## CHAIN OF CUSTODY RECORD

PROJECT NO.: 62172.32.40			SITE NAME: NEWMARK RI/FS SOURCE			NO. OF CONTAINERS	<div style="writing-mode: vertical-rl; transform: rotate(180deg);">                     6010, 8020, 17A, 6, D                 </div>				REMARKS
SAMPLERS (SIGNATURE): <i>[Signature]</i>											
STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION						
MWOZ	3/26/92	1043		X	SMMWOZ-OEM 4 CE 3/21/92	1	X				
NOTE: SAMPLE JAR WITH REMAINING SAMPLE FRACTION TRANSFERRED BACK TO L. ZINKY. JAR SUBMITTED TO CLP FOR BVA & PCB ANALYSIS <i>[Signature]</i>											
RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>		DATE	TIME	RECEIVED BY (SIGNATURE) <i>[Signature]</i>		RELINQUISHED BY (SIGNATURE) <i>[Signature]</i>		DATE	TIME	RECEIVED BY (SIGNATURE) <i>[Signature]</i>	
		03/26/92	1355					3/26/92	1530		
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY (SIGNATURE)		RELINQUISHED BY (SIGNATURE)		DATE	TIME	RECEIVED BY (SIGNATURE)	
RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>		DATE	TIME	RECEIVED FOR LABORATORY BY (SIGNATURE) <i>[Signature]</i>		DATE	TIME	REMARKS:			
		3/26/92	1405			3/26/92	14:05	3/26/92			

REVIEWED BY *[Signature]* 3/26/92

CA 00480

PROJECT NO.: G2172.32.40				SITE NAME: NEWMARK RI/FS				NO. OF CON- TAINERS	<div style="display: flex; flex-direction: column; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">EPAL01</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">EPAG02</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH-G</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH-8015</div> </div>	REMARKS			
SAMPLERS (SIGNATURE): <i>Peter Simpson Jay Zis</i> Forms													
STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION								
MW03B	3/26/92	1500		X	WMW03B-01M	7	X	X	X	X			
RELINQUISHED BY: (SIGNATURE) <i>Peter Simpson</i>			DATE 3/26/92	TIME 1540	RECEIVED BY (SIGNATURE) <i>Jay Zis</i>			RELINQUISHED BY (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)			RELINQUISHED BY (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)
RELINQUISHED BY: (SIGNATURE) <i>Jay Zis</i>			DATE 3/26/92	TIME 18:21	RECEIVED FOR LABORATORY BY (SIGNATURE) <i>[Signature]</i>			DATE 3/26/92	TIME 18:21	REMARKS:			

REVIEWED BY *Jay Zis* 3/26/92

CA 00513

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FASP INITIAL CALIBRATION WORKSHEET, PID - FEBRUARY 27, 1992

CONCENTRATION	2	10	5	20	40	AVERAGE	SD	%RSD
BENZENE	1.8E-05	8.3E-05	3.0E-05	7.2E-06	8.2E-06	2.9E-05	3E-05	95
TOLUENE	6.1E-06	4.5E-06	5.7E-06	4.0E-06	3.7E-06	4.8E-06	1E-06	20
CHLOROBENZENE	7.3E-06	4.3E-06	5.6E-06	4.0E-06	3.7E-06	5.0E-06	1E-06	27
ETHYLBENZENE	7.6E-06	4.3E-06	5.4E-06	4.1E-06	3.8E-06	5.0E-06	1E-06	27
P-XYLENE/M-XYLENE	2.4E-06	1.7E-06	2.1E-06	1.7E-06	2.0E-06	2.0E-06	3E-07	13
STYRENE/O-XYLENE	3.3E-06	2.0E-06	2.6E-06	1.9E-06	2.0E-06	2.4E-06	5E-07	22
FLUOROBENZENE	7.4E-06	1.4E-04	1.4E-04	6.5E-06	6.8E-06	6.0E-05	7E-05	108

FASP INITIAL CALIBRATION WORKSHEET, HALL - FEBRUARY 27, 1992

CONCENTRATION	2	10	5	20	40	AVERAGE	SD	%RSD
CHLOROMETHANE/ VINYL CHLORIDE/								
BROMOMETHANE	3.2E-06	4.0E-06	3.2E-06	2.6E-06	2.5E-06	3.1E-06	5E-07	17
CHLOROETHANE								
1,1-DCE	4.1E-06	5.3E-06	5.4E-06	5.5E-06	5.2E-06	5.1E-06	5E-07	10
METHYLENE CHLORI	5.6E-06	6.0E-06	6.3E-06	6.2E-06	5.9E-06	6.0E-06	2E-07	4
trans-1,2-DCE	5.3E-06	5.4E-06	5.5E-06	5.2E-06	4.9E-06	5.3E-06	2E-07	3
1,1-DCA	6.0E-06	5.7E-06	6.2E-06	5.9E-06	5.6E-06	5.9E-06	2E-07	4
cis-1,2-DCE	6.8E-06	6.6E-06	7.0E-06	6.8E-06	6.6E-06	6.7E-06	2E-07	2
CHLOROFORM	6.1E-06	5.8E-06	6.4E-06	6.0E-06	5.6E-06	6.0E-06	3E-07	5
1,1,1-TCA	5.5E-06	5.2E-06	5.7E-06	5.4E-06	5.1E-06	5.4E-06	2E-07	4
1,1-DCP/CCL4	5.7E-06	5.2E-06	5.6E-06	5.2E-06	4.8E-06	5.3E-06	3E-07	8
1,2-DCA	6.0E-06	4.5E-06	5.6E-06	4.8E-06	4.5E-06	5.1E-06	6E-07	12
TCE	6.2E-06	5.9E-06	6.5E-06	6.3E-06	5.8E-06	6.1E-06	2E-07	4
1,2-DCP	6.4E-06	5.8E-06	6.5E-06	6.1E-06	5.8E-06	6.1E-06	3E-07	5
BDCM	7.9E-06	6.4E-06	7.8E-06	6.6E-06	6.2E-06	7.0E-06	7E-07	10
cis-1,3-DCP	6.1E-06	5.2E-06	5.6E-06	4.7E-06	4.2E-06	5.2E-06	7E-07	13
1,1,2-TCA	3.6E-06	5.7E-06	5.2E-06	6.2E-06	6.1E-06	5.4E-06	9E-07	17
PCE	3.7E-06	4.2E-06	4.3E-06	4.4E-06	4.2E-06	4.2E-06	2E-07	5
DBCM	8.8E-06	7.9E-06	9.1E-06	8.0E-06	7.2E-06	8.2E-06	7E-07	8
CHLOROBENZENE	1.6E-05	1.4E-05	1.7E-05	1.4E-05	1.3E-05	1.5E-05	1E-06	10
BROMOFORM	1.7E-05	1.4E-05	1.8E-05	1.4E-05	1.2E-05	1.5E-05	2E-06	13
1,1,2,2-TCA	6.9E-06	6.6E-06	7.4E-06	6.4E-06	5.8E-06	6.6E-06	5E-07	8
1-CHLORO-2- PROPANE	1.4E-05	1.3E-05	1.3E-05	1.1E-05	1.0E-05	1.2E-05	1E-06	10

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## REGION 9 FASP VOLATILE ORGANICS RESULTS-Page 1 of 2

FASP Sample Identification: BLANK-2/27/92  
 Sample Collection Date: NA  
 Sample Analysis Date: 2/27/92  
 Preliminary Report Date: NA

Sample Matrix: WATER  
 Units: ug/L  
 Dilution Factor: 1  
 Sample Volume: 5 ml

METHOD 8010 COMPOUND	RESULT	FMDL
Chloromethane	5 U	5
Vinyl Chloride/Bromoethane	5 U	5
Chloroethane	5 U	5
1,1-Dichloroethene	0.5 U	0.5
Methylene Chloride	0.5 U	0.5
trans-1,2-Dichloroethene	0.5 U	0.5
1,1-Dichloroethane	0.5 U	0.5
cis-1,2-Dichloroethene	0.5 U	0.5
Chloroform	0.5 U	0.5
1,1,1-Trichloroethane	0.5 U	0.5
1,1-Dichloropropene/ Carbon tetrachloride	0.5 U	0.5
1,2-Dichloroethane	0.5 U	0.5
Trichloroethene	0.5 U	0.5
1,2-Dichloropropane	0.5 U	0.5
Bromodichloromethane	0.5 U	0.5
cis-1,3-Dichloropropene	0.5 U	0.5
1,1,2-Trichloroethane	0.5 U	0.5
Tetrachloroethene	0.5 U	0.5

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BLANK-2/27/92

## REGION 9 FASP VOLATILE ORGANICS RESULTS-Page 2 of 2

METHOD 8010 COMPOUND	RESULT	FMDL
Dibromochloromethane	0.5 U	0.5
Chlorobenzene	0.5 U	0.5
Bromoform	0.5 U	0.5
1,1,2,2,-Tetrachloroethane	0.5 U	0.5

## Percent Recovery

1-Chloro-2-bromopropane	94
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METHOD 8020 COMPOUND	RESULT	FMDL
Benzene	0.5 U	0.5
Toluene	0.5 U	0.5
Chlorobenzene	0.5 U	0.5
Ethylbenzene	0.5 U	0.5
p-/m-Xylene	0.5 U	0.5
o-Xylene/Styrene	0.5 U	0.5

## Percent Recovery

Fluorobenzene	25
a,a,a-Trifluorotoluene	NA
Bromofluorobenzene	NA

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SMW04-02M

## REGION 9 FASP VOLATILE ORGANICS RESULTS-Page 1 of 2

FASP Sample Identification: SMW04-02M  
 Sample Collection Date: 2/27/92  
 Sample Analysis Date: 2/27/92  
 Preliminary Report Date: 2/28/92

Sample Matrix: Soil  
 Units: ug/kg  
 Dilution Factor: 1  
 Sample Volume: 1 g

METHOD 8010 COMPOUND	RESULT	FMDL
Chloromethane	50 U	50
Vinyl Chloride/Bromoethane	50 U	50
Chloroethane	50 U	50
1,1-Dichloroethene	20 U	20
Methylene Chloride	20 U	20
trans-1,2-Dichloroethene	20 U	20
1,1-Dichloroethane	20 U	20
cis-1,2-Dichloroethene	20 U	20
Chloroform	20 U	20
1,1,1-Trichloroethane	20 U	20
1,1-Dichloropropene/ Carbon tetrachloride	20 U	20
1,2-Dichloroethane	20 U	20
Trichloroethene	20 U	20
1,2-Dichloropropane	20 U	20
Bromodichloromethane	20 U	20
cis-1,3-Dichloropropene	20 U	20
1,1,2-Trichloroethane	20 U	20
Tetrachloroethene	20 U	20

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SMW04-02M

## REGION 9 FASP VOLATILE ORGANICS RESULTS-Page 2 of 2

METHOD 8010 COMPOUND	RESULT	FMDL
Dibromochloromethane	20 U	20
Chlorobenzene	20 U	20
Bromoform	20 U	20
1,1,2,2,-Tetrachloroethane	20 U	20

## Percent Recovery

1-Chloro-2-bromopropane	77
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METHOD 8020 COMPOUND	RESULT	FMDL
Benzene	20 U	20
Toluene	20 U	20
Chlorobenzene	20 U	20
Ethylbenzene	20 U	20
p-/m-Xylene	20 U	20
o-Xylene/Styrene	20 U	20

## Percent Recovery

Fluorobenzene	43
a,a,a-Trifluorotoluene	NA
Bromofluorobenzene	NA

FASP CONTINUING CALIBRATION SUMMARY

INITIAL CALIBRATION DATE: 2/27/92  
 CONTINUING CALIBRATION DATE: 2/28/92

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ANALYTE	AVERAGE CF	CCAL CF	%D
BENZENE	2.9E-05	1.0E-05	-99
TOLUENE	4.8E-06	4.4E-06	-8
CHLOROBENZENE	5.0E-06	4.6E-06	-9
ETHYLBENZENE	5.0E-06	4.5E-06	-11
P-XYLENE/M-XYLENE	2.0E-06	1.8E-06	-8
STYRENE/O-XYLENE	2.4E-06	2.1E-06	-10
FLUOROBENZENE	3.0E-05	8.6E-06	-112
CHLOROMETHANE/ VINYL CHLORIDE/ BROMOMETHANE	3.1E-06	2.8E-06	-10
CHLOROETHANE			
1,1-DCE	5.1E-06	6.5E-06	23
METHYLENE CHLORIDE	6.0E-06	7.0E-06	15
trans-1,2-DCE	5.3E-06	5.9E-06	11
1,1-DCA	5.9E-06	6.6E-06	11
cis-1,2-DCE	6.7E-06	7.7E-06	13
CHLOROFORM	6.0E-06	6.7E-06	12
1,1,1-TCA	5.4E-06	6.1E-06	12
1,1-DCP/CCL4	5.3E-06	5.9E-06	11
1,2-DCA	5.1E-06	5.3E-06	4
TCE	6.1E-06	7.1E-06	15
1,2-DCP	6.1E-06	6.8E-06	11
BDCM	7.0E-06	7.9E-06	13
cis-1,3-DCP	5.2E-06	5.2E-06	2
1,1,2-TCA	5.4E-06	7.0E-06	26
PCE	4.2E-06	4.8E-06	13
DBCm	8.2E-06	8.4E-06	3
CHLOROBENZENE	1.5E-05	1.6E-05	5
BROMOFORM	1.5E-05	1.5E-05	5
1,1,2,2-TCA	6.6E-06	7.1E-06	7
1-CHLORO-2- PROPANE	6.1E-06	5.4E-06	-12

## SUPERFUND ID NUMBER

## CLIENT IDENTIFICATION

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## REGION 9 FASP VOLATILE ORGANICS RESULTS-Page 1 of 2

FASP Sample Identification: BLANK-2/28/92  
 Sample Collection Date: NA  
 Sample Analysis Date: 2/28/92  
 Preliminary Report Date: NA

Sample Matrix: WATER  
 Units: ug/L  
 Dilution Factor: 1  
 Sample Volume: 5 ml

METHOD 8010 COMPOUND	RESULT	FMDL
Chloromethane	5 U	5
Vinyl Chloride/Bromoethane	5 U	5
Chloroethane	5 U	5
1,1-Dichloroethene	0.5 U	0.5
Methylene Chloride	0.5 U	0.5
trans-1,2-Dichloroethene	0.5 U	0.5
1,1-Dichloroethane	0.5 U	0.5
cis-1,2-Dichloroethene	0.5 U	0.5
Chloroform	0.5 U	0.5
1,1,1-Trichloroethane	0.5 U	0.5
1,1-Dichloropropene/ Carbon tetrachloride	0.5 U	0.5
1,2-Dichloroethane	0.5 U	0.5
Trichloroethene	0.5 U	0.5
1,2-Dichloropropane	0.5 U	0.5
Bromodichloromethane	0.5 U	0.5
cis-1,3-Dichloropropene	0.5 U	0.5
1,1,2-Trichloroethane	0.5 U	0.5
Tetrachloroethene	0.5 U	0.5

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BLANK-2/28/92

## REGION 9 FASP VOLATILE ORGANICS RESULTS-Page 2 of 2

METHOD 8010 COMPOUND	RESULT	FMDL
Dibromochloromethane	0.5 U	0.5
Chlorobenzene	0.5 U	0.5
Bromoform	0.5 U	0.5
1,1,2,2,-Tetrachloroethane	0.5 U	0.5

## Percent Recovery

1-Chloro-2-bromopropane	89
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METHOD 8020 COMPOUND	RESULT	FMDL
Benzene	0.5 U	0.5
Toluene	0.5 U	0.5
Chlorobenzene	0.5 U	0.5
Ethylbenzene	0.5 U	0.5
p-/m-Xylene	0.5 U	0.5
o-Xylene/Styrene	0.5 U	0.5

## Percent Recovery

Fluorobenzene	124
a,a,a-Trifluorotoluene	NA
Bromofluorobenzene	NA