09-8-1

FIA019ASA

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

ACTIVITY LEADER(Print)	NAME OF SURVEY OR ACTIVITY	DATE OF COLLECTION (DAY / MONTH / YEAR)	SHEET
PHILIP DULA	ATLANTIC. PUBLIC WATER SUPP.	24-28 / 8 / 87	1 of 1

CONTENTS OF SHIPMENT

SAMPLE NUMBER	TYPE OF CONTAINERS: 1 qt CUBITAINER	8 oz BOTTLE	BOTTLE	BOTTLE	VOA SET (2 VIALS EA)	SAMPLED MEDIA: water	soil	sediment	dust	other	RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	NUMBERS OF CONTAINERS PER SAMPLE NUMBER										
IK994 001	1	2			1		X				POSSIBLE MEDIUM CONCENTRATION
IK994 002	1	2			1		X				POSSIBLE MEDIUM CONCENTRATION
IK994 003	1	2			1		X				POSSIBLE MEDIUM CONCENTRATION

A72Q 161116 I.D. OU-00 SUPERFUND RECORDS

DESCRIPTION OF SHIPMENT

12 PIECE(S) CONSISTING OF 1 BOX(ES)

____ ICE CHEST(S); OTHER ____

MODE OF SHIPMENT

____ COMMERCIAL CARRIER: ____

____ COURIER

X SAMPLER CONVEYED

(SHIPPING DOCUMENT NUMBER)

PERSONNEL CUSTODY RECORD

RELINQUISHED BY	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
Philip C. Dula (SEALED ☒ UNSEALED ☐)	8-31-87 12:00	1200 HOURS	Richard C Brock (SEALED ☐ UNSEALED ☐)	[illegible]
RELINQUISHED BY (SEALED ☐ UNSEALED ☐)	DATE	TIME	RECEIVED BY (SEALED ☐ UNSEALED ☐)	REASON FOR CHANGE OF CUSTODY: Site: Atlantic Water ID #: 10D0399543
RELINQUISHED BY (SEALED ☐ UNSEALED ☐)	DATE	TIME	RECEIVED BY (SEALED ☐ UNSEALED ☐)	REASON FOR CHANGE OF CUSTODY: Break: 1.3 Other: EPA

6-31-87

7-EPA-9262(Revised 5/85)

0972

FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

Site Name: ATLANTIC PUBLIC WATER SUPPLY Site Number:
Location: ATLANTIC IA Site Code:

Collected: YR: 87 MO: 8 Day: 24 Time: 1545 1600 Leader: PHIL DULA

Sample Number: IK994\$\$1 SMO #:

Sample Media (circle one):
SOIL DUST, RINSATE, SEDIMENT, WATER, OTHER: _____

Sample Solit (circle one): YES NO

Sample Container	Tag Color	Preservative	Analysis Requested
8 OZ JAR	PURPLE	NONE	PESTICIDES
8 OZ JAR	PURPLE	NONE	BNA
2 40 ML VIAL	LIME	NONE	VOA

Depth: 4 TO 5 FT Pan #: FIA\$194S\$F Aliquots: ONE

Samplers: PHILIP DULA, KEVIN HUGILL

COMMENTS OF FIELD PERSONNEL

Site Description: PROBE LOCATION #1 - SAMPLE CONSISTS OF SOIL WITH HIGH CLAY CONTENT. DARK BROWN TO GRAY BLACK SOIL. SOIL IS VERY PLASTIC IN CONSISTENCY. THIS MAY BE DUE TO RAINY WEATHER ON 8-24-87.

IBM-PC

0977-3

FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

Site Name: ATLANTIC PUBLIC WATER SUPPLY Site Number: [illegible]
Location: ATLANTIC IA Site Code:

Collected: YR: 87 MO: 8 Day: 27 Time: 1030 Leader: PHIL DULA

Sample Number: IK994ØØ2 SMC #:

Sample Media (circle one):
SOIL, DUST, RINSATE, SEDIMENT, WATER, OTHER: _____

Sample Solit (circle one): YES NO

Sample Container	Tag Color	Preservative	Analysis Requested
8 OZ JAR	PURPLE	NONE	PESTICIDES
8 OZ JAR	PURPLE	NONE	BNA
3 40 ML VIAL	LIME	NONE	VOA

Depth: 2-3 FT Pan #: FIAØ1945A Aliquots: 2

Samplers: PHILIP DULA, JEAN CARLETON

COMMENTS OF FIELD PERSONNEL

Site Description: ATLANTIC PWS ATLANTIC, IOWA

SAMPLE LOCATION - PROBE LOCATION # 5
30 FT EAST PROBE LOCATION #5

IBM-PC

09-7-4

FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

Site Name: ATLANTIC PUBLIC WATER SUPPLY Site Number:
Location: ATLANTIC IA Site Code:

Collected: YR: 87 MO: 8 Day: 28 Time: 1000 Leader: PHIL DULA

Sample Number: IK994003 SMO #:

Sample Media (circle one):
SOIL, DUST, RINSATE, SEDIMENT, WATER, OTHER: _____

Sample Split (circle one): YES NO

Sample Container	Tag Color	Preservative	Analysis Requested
8 OZ JAR	PURPLE	NONE	PESTICIDES
8 OZ JAR	PURPLE	NONE	BNA
3 40 ML VIAL	LIME	NONE	VOA

Depth: 0-4' Pan #: FIA019458 Aliquots: 5

Samplers: PHILIP DULA

COMMENTS OF FIELD PERSONNEL

Site Description: PROBE LOCATION #77

IBM-PC

#09-7-5

Aug 24, 1987

	Sample	Time	Y Response mm	X PiG Present	Attn	Vol ml	Net	Average Blank
	Std 5 PPB		17	1,000	8	200	Result minus 0.79	0.75 x 5
	Std "		32	2,000	8	400		range 0-2.79
	Std "		49	3,000	8	600		
	y =	mx + b					Net PPB	
	Pg =	0.16 Response	+ 0.667	PPB				Correlation 0.9993
	Blank		7	.77	8	1000	—	
	Std 5 PPB		21, 21, 19	5.0	8	200	—	
	Blank		8	.79	8	1000	—	
1	Sample 4	1205	32, 32	1.18	8	1000	0.39	
	Blank Bulb		7	.77	8	1000	—	
	STD 200x 5PPB		21, 21	5	8	200	—	
2	Sample 3	1430	10	0.82	8	1000	0.03	
	Blank Bulb		2	0.69	8	1000	—	
3	Sample #1	1437	21	12.0	8	100	11.21	Prob. more Accurate due to inj with 1cc syring
	#1	1450	34	6.05	8	200	5.26	
	Blank Bulb		—	0	8	1000	—	
4	Sample #2	1613	72	36.4	16	100	35.6	31.9 Av
	Std 500µl 5PPB	1618	31	4.7	16	500	—	Heavy ends Creosote Present?
	Sample #2	1628	57	31.6	16	100	30.8	
	Sample #2	1654	52	30.0	16	100	29.2	
	Bulb Blank	1730	0	0	16	1000	—	
5	Sample #12	1745	0	0	16	500	0.0	
	#12	1750	0	0	16	1000	0.0	
6	Sample #11	1817	2	0.69	16	1000	0.0	

SCREENING DATA

THIS IS PRELIMINARY SCREENING DATA GENERATED TO INDICATE GENERAL TRENDS. CERTAIN METHOD MODIFICATIONS HAVE BEEN MADE THAT REDUCE THE LEVEL OF CONFIDENCE ASSOCIATED WITH THE RESULTS.

Range 100

Net = Present - Blank

$$PPB = Pg \times \frac{1000}{Vol} \times \frac{Attn}{8}$$

Aug 25, 1987

	SAMPLE	TIME	mm Response	Picograms Present	Attn	Vol µl	NET	
					16	1000		STANDARD COND
2.5ng	STd 5PPB	0835	27	4.2	16	500		Aug 24 std
10ng	std 10PPB	0930	92	7.4	16	1000		
10ng	std 10PPB		86	7	16	1000		
2.5ng	Std 5PPB	0955	31	2.4	16	500		Fresh Aug 25
5ng	std 5PPB	1000	67	5.3	16	1000		
5ng	std 5PPB		59	4.7	16	1000		
0	Blank		5	.315	16	1000		
	P_g = 81.86	Response -	94.46			Corr	0.7864	
	Sample 4A		13	1.0	16	1000	0.7	still under vacuum
	Sample 13	1103	5	.3	16	1000	0.0	
	Sample 13	1114	4	.2	16	1000	0.0	
	Sample 14	1216	2	.07	16	1000	0.0	
	Sample 14	1224	3	.2	16	1000	0.0	
	Sample 15	1237	2	.07	16	1000	0.0	
	Sample 16	1305	2	.07	16	1000	0.0	
	Sample # 6	1520	15	1.13	16	1000	.8	
	Sample # 6	1532	15	1.13	16	1000	.8	
	Sample #5	1549	off Scale	—	16	1000		
	Sample #5	1601	off Scale	—	16	500		
	Sample #5	1612	81	65+	16	100	65+	
	Sample #5	1616	83	67+	16	100	67+	
	Sample #5		147	119+	16	100	119+	
	Sample #5		145		16	100		
	Sample #5		132		16	100		

RANGE 100 ATTN 8 Reference Volume 1000 µl

Aug 25, 1987 cont.

Sample	Time	MM Response	Picograms	Attn	Vol µl	NET
Sample #20	1657	72	5.8	16	1000	5.5
Sample #20	1712	80	6.5	16	1000	6.2
sample #7	1731	9	.64	16	1000	.3
Sample #7	1736	9	.64	16	1000	.3
Sample #19	1754	3	.15	16	1000	0
Sample #19	1753	3	.15	16	1000	0
Sample #17	1808	19	1.5	16	1000	1.2
Sample #17	1815	19	1.5	16	1000	1.2

August 26, 1987

	Sample	Time	Response (mm)	Picograms	Atm	Volume	Net	
	5PPB STD	0910	67	5.4	16	1000		Same Curve as 8-25-87
	5PPB STD	0924	69	5.6	16	1000		
	Blank	0930	4	.2	16	1000		
	Blank		5	.3	16	1000		
18	Sample 21	0910						
	Sample 21	0938	60	4.8	16	1000	4.5	
	Sample 21	0942	69	5.6	16	1000	5.3	
	Sample 21	0946	70	5.6	16	1000	5.3	
19	Sample 23	0930						
		0950	6	.4	16	1000	.1	
		0954	7	.48	16	1000	.2	
20	Sample 32	0946						
		0959	28	2.2	16	1000	1.9	
		1004	30	2.4	16	1000	2.1	
21	Sample 30	1010			16	1000		
		1017	11	.8	16	1000	.5	
		1021	11	.8	16	1000	.5	
22	Sample 69	1254						
			11	.8	16	1000	.5	Still under vacuum
			10	.7	16	1000	.4	
23	Sample 68	1310						
		1319	10	.7	16	1000	.4	
		1324	10	.7	16	1000	.4	
24	Sample 67	1330						
		1340	3	.2	16	1000	0	
		1346	3	.2	16	1000	0	

		Time	Response mm	Picograms	Attn	Vol µl	Det	
25	Sample #28	14:12			1			
		14:14	21	1.6	16	1000	1.3	
		14:17	21	1.6	16	1000	1.3	
26	Sample #26	14:43						
		14 52	6	.4	16	1000	.1	
	Septum Leak	14:56	—	—	16	1000	—	
		1508	5	.3			0	
27	Sample #36	1503						
		1513	2	.1	16	1000	0	
		1517	3	.2	16	1000	0	
28	Sample #37	1548						
		1551	—	—	16	1000	0	insignificant
		1556	2	.1	16	1000	0	
29	Sample #38	1608	—	—	16	1000	0	insignificant
		1610	—	—	16	1000	0	insignificant
30	Sample #41	1630	~~38~~	~~3.0~~	~~16~~	~~1000~~	~~2.7~~	
		1637	38	3.0	16	1000	2.7	
		1641	40	3.1	16	1000	2.8	
31	Sample #43	1653						
		1655	3	.2	16	1000	0	insig.
		1659	3	.2	16	1000	0	insig
32	Sample #44	1714						
		1717	32	2.5	16	1000	2.2	
		1721	31	2.4	16	1000	2.1	

		Time	Response mm	Picograms	Attn	Vol µL	Pct
33	Sample #46	1734		-			
		1735	20	1.5	16	1000	1.2
		1740	18	1.4	16	1000	1.1
34	Sample #35	1751					
		1753	-	-	16	1000	0
		1818			16	1000	
35	Sample #70	1826					
		1830	57	4.6	16	1000	4.3
		1837	54	4.3	16	1000	4.0

Aug 27, 1987

		Time	Response mm	Picograms	Attn	Vol ml	NET	
	5PPB Std							
		1201	47	7.5	16	500		
		1205	38	6.	16	500		
		1209	36	5.7	16	500		
	Blank		2	.1				
			6	.4				
36	Sample 25	0923						
			5	.3	16	1000	0	
			7	.5	16	1000	.1	
37	Sample 63	0949						
			42	3.3	16	1000	2.9	
			53	4.2	16	1000	3.8	
			48	3.8	16	1000	3.4	
38	Sample 62	1015						
		1316	39	3.1	16	1000	2.7	
		1320	37	2.9	16	1000	2.5	
39	Sample 64	1030						
		1324	20	1.5	16	1000	1.1	
		1328	22	1.7	16	1000	1.3	
40	Sample 65	1130						under partial vacuum
		1341	31	2.4	16	1000	2.0	
		1345	42	3.3	16	1000	2.9	
		1350	30	2.4	16	1000	2.0	
41	Sample 60	1342						
		1401	–		16	1000	0	
		1404	–		16	1000		
		1407	–					

Aug 27 Cont

		TIME	Response mm	Picograms	Attn	Vol. µl	NET	
42	Sample 59	1438						
		1444	20	1.5	16	1000	1.1	
		1449	21	1.6	16	1000	1.2	
43	Sample 58	1511						
		1517	35	2.8	16	1000	2.4	2.2 AU
		1520	27	2.1	16	1000	1.7	
			28	2.2	16	1000	1.8	
			39	3.1	16	1000	2.7	
44	Sample 56	1528	—	0	16	1000	0	
			—	0	16	1000	0	
45	Sample 54	1540						
		1552	6	.4	16	1000	0	
		1557	4	.2	16	1000	0	
46	Sample 49	1556						
		1607	0	0	16	1000	0	
		1621	0	0	16	1000	0	
47	Sample 51							See Page 3 Aug 27, 1987
48	Sample 53	1717						Partial Vacuum
		1718	12	.9	16	1000	.5	
		1722	10	.7	16	1000	.3	
		1726	13	1.0	16	1000	.6	
49	Sample 61	1755						
		1756	15	1.1	16	1000	.7	
		1800	16	1.2	16	1000	.8	

		TIME	Response mm	~~Picograms~~ ng	Attn	Vol ml	Net
50	Sample # 72	1818					
		1820	–	–	16	1000	0
		1824	–	–	16	1000	0
51	Sample 73	1832					
		1833	9	.64	16	1000	.2
		1837	11	.8	16	1000	.4
47	Sample 51						
		1630	0		16	1000	0
		1633	0		16	1000	0
52	Sample # 74	1846	1				
		1848	0	0	16	1000	0
		1852	0	0	16	1000	0
			X	Y			
	5 PPB Std	1001	77	2.5	2	500	
		1006	77	2.5	2	500	
		1009	85	2.5	2	500	
		1030	134	5.0	2	1000	
		1036	152+	5.0	2	1000	
		1041	146	5.0	2	1000	
	3 PPB Std	1047	64	1.5	2	500	
			66	1.5			

Aug 28, 1987

Ng. = 0.40 * Resp – 0.794

8/23 2

		TIME	Peak Height mm	ng.	ATTN	INJ Vol	Net
53	Sample #79	0923					
		1019	23	.1	2	1000	0
		1025	20	.1	2	1000	0
54	Sample #78	1034					
		1111	118	3.9	2	1000	~3.5
		1116	120	4.0	2	1000	3.6
55	Sample #77	1105					
		1128	off scale		2	200	76.9
		1559	70		16	100	
		1607	77		16	100	
56	Sample #80	1314					
		1442			4	100	.46
		1454	52	2.6	4	1000	
		1451	46	2.1	4	1000	
		1447	50	2.4	4	1000	
		1542	8		16	1000	
		1546	8		16	1000	

22 ml/min

31
56
87

25
56
1