START

9615442.2187

B07KQ6-DAT-2342

0044124

DATA CHEM LABORATORIES

A SORENSON COMPANY

March 9,1993

REPORT INTRODUCTION
ANALYTICAL COMMENTARY

SUBMITTED TO: Briana Colley

SUBMITTED BY: Reed A. Hendricks

REFERENCE DATA:

Analysis of: 1 soil sample

Method of Analysis: EPA 8270

Identification No: S93-0091-II

DataChem Laboratory No: EM0387

The above numbered sample was analyzed for base-neutral and acid compounds by gas chromatography/mass spectrometry. EPA Test Method 8270 was followed with modifications. (United States Environmental Protection Agency; Office of Solid Waste and Emergency Response, SW-846 November 1986).

EPA Method 3550 was used for preparation of the samples prior to analysis. Thirty grams of soil sample were extracted with methylene chloride using sonication. Surrogate standards were added prior to the extraction as prescribed. The total volume of the sample after extraction and concentration was one milliliter. Internal standards were added to each sample and standard mixture prior to analysis.

Separation of the compounds of interest was obtained with a 30 m, 0.32 mm internal diameter, DB-5 fused silica capillary column. Oven temperature was programmed from 50 degrees centigrade (held isothermally for 4 minutes) to 300 degrees centigrade at 10 degrees centigrade per minute. A 75 second splitless injection interval was used. Analysis was performed using a Hewlett-Packard 5971 GC/MS/DS system, scanning a mass range of 35 to 500 amu each second.

MAY 1996
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EDMC

SALT LAKE OFFICE
960 WEST LeVOY DRIVE
SALT LAKE CITY UTAH 84123-2547
801 266-7700 FAX 801 268-9992

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The initial calibration of the instrument was performed at concentrations of 160, 120, 80, 50 and 20 ug/mL. Calibration check compounds (CCC's) specified by the method are acenaphthene, 1,4-dichlorobenzene, hexachlorobutadiene, N-nitroso-di-n-phenylamine, di-n-octylphthalate, fluoranthene, benzo(a)pyrene, 4-chloro-3-methylphenol, 2,4-dichlorophenol, 2-nitrophenol, phenol, pentachlorophenol, and 2,4,6-trichlorophenol. The relative standard deviation of the response factor (RF) for each CCC in the initial standards was less than the 30% criteria required by the method. System performance check compounds (SPCC's) specified in the method are N-nitroso-di-n-propylamine, hexachlorocyclopentadiene, 2,4-dinitrophenol, and 4-nitrophenol. The minimum response factors for the SPCC's were greater than the 0.050 required in the method.

The continuing calibration of the instrument was performed at a concentration of 50 ug/mL for all compounds. The response factors for all CCC's were within the maximum percent difference of 25% compared to the initial curve; SPCC's response factors were greater than the minimum RF of 0.050. DFTPP performance criteria was met for all sample and standard analyses.

DataChem Laboratories will maintain a complete record of this data on magnetic tape along with hard copies of the ion chromatograms, mass spectra, surrogate recovery summary, and verification of compliance with EPA tuning (DFTPP) and chromatography criteria.

Surrogate standard recoveries were monitored and are reported on the Surrogate Recovery Summary form at the end of the report.

The results for each sample are reported twice in the report; first on the Target Analyte Summary Report and again on the Analytical Report (results by sample). The report follows.

Reed A. Hendricks

TARGET ANALYTE SUMMARY REPORT
EPA METHOD 8270, 3rd ED.

Sponsor: Westinghouse-Hanford Company

Results ug/kg

DCL Sample No.	EM0387	Blank
Client Sample No.	B07KQ6	
COMPOUND		
N-nitroso-dimethylamine	U	U
phenol	U	U
bis(2-chloroethly)ether	U	U
2-chlorophenol	U	U
1,3-dichlorobenzene	U	U
1,4-dichlorobenzene	U	U
benzyl alcohol	U	U
1,2-dichlorobenzene	U	U
2-methylphenol	U	U
bis(2-chloroisopropyl)ether	U	U
4-methylphenol	U	U
N-nitroso-di-n-proplyamine	U	U
hexachloroethane	U	U
nitrobenzene	U	U
isophorone	U	U
2-nitrophenol	U	U
2,4-dimethylphenol	U	U
bis(2-chloroethoxy)methane	U	U
benzoic acid	U	U
2,4,-dichlorophenol	U	U
1,2,4-trichlorobenzene	U	U
naphthalene	U	U
4-chloroaniline	U	U
hexachlorobutadiene	U	U
4-chloro-3-methylphenol	U	U
2-methylnaphthalene	U	U
hexachlorocyclopentadiene	U	U
2,4,6-trichlorophenol	U	U
2,4,5-trichlorophenol	U	U
2-chloronaphthalene	U	U
2-nitroaniline	U	U

See footnotes on page 4 .

TARGET ANALYTE SUMMARY REPORT
EPA METHOD 8270, 3rd ED.

Sponsor: Westinghouse-Hanford Company Results ug/kg

DCL Sample No.	EM0387	Blank
Client Sample No.	B07KQ6	
COMPOUND		
dimethylphthalate	U	U
2,6-dinitrotoluene	U	U
acenaphthylene	U	U
3-nitroaniline	U	U
acenaphthene	U	U
2,4-dinitrophenol	U	U
4-nitrophenol	U	U
dibenzofuran	U	U
2,4-dinitrotoluene	U	U
diethylphthalate	U	U
4-chlorophenyl-phenylether	U	U
fluorene	U	U
4-nitroaniline	U	U
2-methyl-4,6-dinitrophenol	U	U
N-nitroso-diphenylamine	U	U
1,2-diphenylhydrazine	U	U
4-bromophenyl-phenylether	U	U
.alpha.-BHC	U	U
.beta.- BHC	U	U
hexachlorobenzene	U	U
pentachlorophenol	U	U
.gamma.-BHC	U	U
phenanthrene	U	U
anthracene	U	U
.delta.-BHC	U	U
heptachlor	U	U
di-n-butylphthalate	U	U
aldrin	U	U
heptachlor epoxide	U	U
fluoranthene	U	U
pyrene	U	U

See footnotes on page 4 .

TARGET ANALYTE SUMMARY REPORT
EPA METHOD 8270, 3rd ED.

Sponsor: Westinghouse-Hanford Company Results ug/kg

DCL Sample No.	EM0387	Blank
Client Sample No.	B07KQ6	
COMPOUND		
endosulfan I	U	U
4,4'-DDE	U	U
dieldrin	U	U
endrin aldehyde	U	U
endrin	U	U
4,4'-DDD	U	U
endosulfan II	U	U
butylbenzylphthalate	U	U
4,4'-DDT	U	U
endosulfan sulfate	U	U
p,p'-methoxychlor	U	U
3,3'-dichlorobenzidine	U	U
benzo(a)anthracene	U	U
bis(2-ethylhexyl)phthalate	U	U
chrysene	U	U
di-n-octylphthalate	U	U
benzo(b)fluoranthene	U	U
benzo(k)fluoranthene	U	U
benzo(a)pyrene	U	U
indeno(1,2,3-cd)pyrene	U	U
dibenz(a,h)anthracene	U	U
benzo(g,h,i)perylene	U	U
endrin ketone	U	U
2-picoline	U	U
ethylmethanesulfonate	U	U
methylmethanesulfonate	U	U
aniline	U	U
acetophenone	U	U
N-nitroso-piperidine	U	U
a,a-dimethylphenethylamine	U	U
2,6-dichlorophenol	U	U

See footnotes on page 4 .

TARGET ANALYTE SUMMARY REPORT
EPA METHOD 8270, 3rd ED.

Sponsor: Westinghouse-Hanford Company

Results ug/kg

DCL Sample No.	EM0387	Blank
Client Sample No.	B07KQ6	
COMPOUND		
N-nitroso-di-n-butylamine	U	U
1,2,4,5-tetrachlorobenzene	U	U
1-chloronaphthalene	U	U
pentachlorobenzene	U	U
1-naphthylamine	U	U
2,3,4,6-tetrachlorophenol	U	U
2-naphthylamine	U	U
phenacetin	U	U
4-aminobiphenyl	U	U
pronamide (propyzamide)	U	U
pentachloronitrobenzene	U	U
benzidine	U	U
p-dimethylaminoazobenzene	U	U
-dimethylbenz(a)anthracene	U	U
3-methylchloranthrene	U	U
chlordane	U	U
toxaphene	U	U
PCB-1016	U	U
PCB-1221	U	U
PCB-1232	U	U
PCB-1242	U	U
PCB-1248	U	U
PCB-1254	U	U
PCB-1260	U	U

FOOTNOTES

B The analyte was found in the method blank.
U Not detected
J Indicates an estimated concentration below the Method Detection Limit.
S Indicates that compound is a matrix spike analyte.

9613442.2193

ANALYTICAL REPORT FOR SAMPLE No. EM0387

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID: B07KQ6 Date Extracted: 2/25/93

DataChem Set ID: S93-0091-II Date of Analysis: 3/5/93

Sponsor: Westinghouse-Hanford Company File ID: CJ4E87

CAS No.	COMPOUND	RESULTS (ug/kg)	Method Detection Limit (MDL) (ug/kg)
62-75-9	N-nitroso-dimethylamine	U	1.0E+3
108-95-2	phenol	U	3.3E+2
111-44-4	bis(2-chloroethyl)ether	U	3.3E+2
95-57-8	2-chlorophenol	U	3.3E+2
541-73-1	1,3-dichlorobenzene	U	3.3E+2
106-46-7	1,4-dichlorobenzene	U	3.3E+2
100-51-6	benzyl alcohol	U	1.0E+3
95-50-1	1,2-dichlorobenzene	U	3.3E+2
95-48-7	2-methylphenol	U	3.3E+2
39638-329	bis(2-chloroisopropyl)ether	U	3.3E+2
106-44-5	4-methylphenol	U	3.3E+2
621-64-7	N-nitroso-di-n-proplyamine	U	3.3E+2
67-72-1	hexachloroethane	U	3.3E+2
98-95-3	nitrobenzene	U	3.3E+2
78-59-1	isophorone	U	3.3E+2
88-75-5	2-nitrophenol	U	3.3E+2
105-67-9	2,4-dimethylphenol	U	3.3E+2
111-91-1	bis(2-chloroethoxy)methane	U	3.3E+2
65-85-0	benzoic acid	U	1.0E+3
120-83-2	2,4,-dichlorophenol	U	3.3E+2
120-82-1	1,2,4-trichlorobenzene	U	3.3E+2
91-20-3	naphthalene	U	3.3E+2
106-47-8	4-chloroaniline	U	3.3E+2
87-68-3	hexachlorobutadiene	U	3.3E+2
59-50-7	4-chloro-3-methylphenol	U	3.3E+2
91-57-6	2-methylnaphthalene	U	3.3E+2
77-47-4	hexachlorocyclopentadiene	U	3.3E+2
88-06-2	2,4,6-trichlorophenol	U	3.3E+2
95-95-4	2,4,5-trichlorophenol	U	8.0E+2
78-59-1	2-chloronaphthalene	U	3.3E+2
88-75-5	2-nitroaniline	U	8.0E+2

ANALYTICAL REPORT FOR SAMPLE No. EM0387

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID: B07KQ6

CAS No.	COMPOUND	RESULTS (ug/kg)	Method Detection Limit (MDL) (ug/kg)
131-11-3	dimethylphthalate	U	3.3E+2
606-20-2	2,6-dinitrotoluene	U	3.3E+2
208-96-8	acenaphthylene	U	3.3E+2
99-09-2	3-nitroaniline	U	8.0E+2
83-32-9	acenaphthene	U	3.3E+2
51-28-5	2,4-dinitrophenol	U	8.0E+2
100-02-7	4-nitrophenol	U	8.0E+2
132-64-9	dibenzofuran	U	3.3E+2
121-14-2	2,4-dinitrotoluene	U	3.3E+2
84-66-2	diethylphthalate	U	3.3E+2
7005-72-3	4-chlorophenyl-phenylether	U	3.3E+2
86-73-7	fluorene	U	3.3E+2
100-01-6	4-nitroaniline	U	8.0E+2
534-52-1	2-methyl-4,6-dinitrophenol	U	8.0E+2
86-30-6	N-nitroso-diphenylamine	U	3.3E+2
122-66-7	1,2-diphenylhydrazine	U	1.0E+3
101-55-3	4-bromophenyl-phenylether	U	3.3E+2
319-84-6	.alpha.-BHC	U	1.0E+3
319-85-7	.beta.- BHC	U	5.0E+3
118-74-1	hexachlorobenzene	U	3.3E+2
87-86-5	pentachlorophenol	U	8.0E+2
58-89-9	.gamma.-BHC	U	1.0E+3
85-01-8	phenanthrene	U	3.3E+2
120-12-7	anthracene	U	3.3E+2
319-86-8	.delta.-BHC	U	5.0E+3
76-44-8	heptachlor	U	5.0E+3
84-74-2	di-n-butylphthalate	U	3.3E+2
309-00-2	aldrin	U	5.0E+3
1024-57-3	heptachlor epoxide	U	5.0E+3
206-44-0	fluoranthene	U	3.3E+2
129-00-0	pyrene	U	3.3E+2

ANALYTICAL REPORT FOR SAMPLE No. EM0387

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID: B07KQ6

CAS No.	COMPOUND	RESULTS (ug/kg)	Method Detection Limit (MDL) (ug/kg)
959-98-8	endosulfan I	U	5.0E+3
72-55-9	4,4'-DDE	U	5.0E+3
60-57-1	dieldrin	U	5.0E+3
7421-93-4	endrin aldehyde	U	5.0E+3
72-20-8	endrin	U	5.0E+3
72-54-8	4,4'-DDD	U	5.0E+3
33213-65-9	endosulfan II	U	5.0E+3
85-68-7	butylbenzylphthalate	U	3.3E+2
50-29-3	4,4'-DDT	U	5.0E+3
1031-07-8	endosulfan sulfate	U	5.0E+3
72-43-5	p,p'-methoxychlor	U	1.0E+3
91-94-1	3,3'-dichlorobenzidine	U	1.0E+3
56-55-3	benzo(a)anthracene	U	3.3E+2
117-81-7	bis(2-ethylhexyl)phthalate	U	3.3E+2
218-01-9	chrysene	U	3.3E+2
117-84-0	di-n-octylphthalate	U	3.3E+2
205-99-2	benzo(b)fluoranthene	U	3.3E+2
207-08-9	benzo(k)fluoranthene	U	3.3E+2
50-32-8	benzo(a)pyrene	U	3.3E+2
193-39-5	indeno(1,2,3-cd)pyrene	U	3.3E+2
53-70-3	dibenz(a,h)anthracene	U	3.3E+2
191-24-2	benzo(g,h,i)perylene	U	3.3E+2
53494-70-5	endrin ketone	U	1.0E+3
109-06-8	2-picoline	U	1.0E+3
62-50-0	ethylmethanesulfonate	U	1.0E+3
66-27-3	methylmethanesulfonate	U	1.0E+3
62-53-3	aniline	U	1.0E+3
98-86-2	acetophenone	U	1.0E+3
100-75-4	N-nitroso-piperidine	U	1.0E+3
122-09-8	a,a-dimethylphenethylamine	U	1.0E+3
87-65-0	2,6-dichlorophenol	U	1.0E+3

ANALYTICAL REPORT FOR SAMPLE No. EM0387

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID: B07KQ6

CAS No.	COMPOUND	RESULTS (ug/kg)	Method Detection Limit (MDL) (ug/kg)
924-16-3	N-nitroso-di-n-butylamine	U	1.0E+3
95-94-3	1,2,4,5-tetrachlorobenzene	U	1.0E+3
90-13-1	1-chloronaphthalene	U	1.0E+3
608-93-5	pentachlorobenzene	U	1.0E+3
134-32-7	1-naphthylamine	U	1.0E+3
58-90-2	2,3,4,6-tetrachlorophenol	U	1.0E+3
91-59-8	2-naphthylamine	U	1.0E+3
62-44-2	phenacetin	U	1.0E+3
92-67-1	4-aminobiphenyl	U	1.0E+3
23950-58-5	pronamide (propyzamide)	U	1.0E+3
82-68-8	pentachloronitrobenzene	U	1.0E+3
92-87-5	benzidine	U	1.0E+3
60-11-7	p-dimethylaminoazobenzene	U	1.0E+3
57-97-6	7,12-dimethylbenz(a)anthracene	U	1.0E+3
56-49-5	3-methylchloranthrene	U	1.0E+3
57-74-9	chlordane	U	1.0E+4
8001-35-2	toxaphene	U	1.0E+4
12674-11-2	PCB-1016	U	1.0E+4
11104-28-2	PCB-1221	U	1.0E+4
11141-16-5	PCB-1232	U	1.0E+4
53469-21-9	PCB-1242	U	1.0E+4
12672-29-6	PCB-1248	U	1.0E+4
11097-69-1	PCB-1254	U	1.0E+4
11096-82-5	PCB-1260	U	1.0E+4

ANALYTICAL REPORT FOR SAMPLE No. EM0387

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID: B07KQ6

CAS No.	COMPOUND	Scan Number	Results ug/kg	Footnotes
--	Aldol-condensation product	254	7.5E+2	NEB
--	Aldol-condensation product	287	2.7E+2	NEB

FOOTNOTES

B The analyte was found in the method blank.
E The reported concentration is an estimate only. The response factor was assumed to be 1.00 relative to an internal standard.
K The isomer is unknown.
N Analytical standards were not analyzed for this compound.

9613442.2198

DATA CHEM LABORATORIES

ANALYTICAL REPORT

Form ARF-AL
Page 1 of 5
Part 1 of 4

Date MAR 2 2 1993

Agency Identification Number S93-0091-GI

Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN H4-23 345 Hill Street/300 Area
Richland, WA 99352
Attention: Briana Colley

MAR 1993 RECEIVED OSM DMO

FAX (509) 372-2106
Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site _____ Date of Collection February 16, 1993

Date Samples Received at Laboratory February 22, 1993

Analysis

Method of Analysis EPA 8141

Date(s) of Analysis March 08, 1993

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	Azinphos Methyl µg/g	Bolstar µg/g	Chlorpyrifos µg/g	Coumaphos µg/g	Demeton-S µg/g	Diazinon µg/g	Dichlorvos µg/g	Disulfoton µg/g
QC-2202-1	QC-2202-1	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	.053
BL-2202-1	BL-2202-1	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07KQ6	EM 0387	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
* Limit of Detection			.01	.01	.01	.01	.01	.01	.01	.01

† See comment on last page.
ND Parameter not detected.
NR Parameter not requested.

** See comment on last page.
( ) Parameter between LOD and LOQ.

Analyst: Kuang C. Tang

Reviewer: Don Wickman

Laboratory Supervisor: Jose C. Danino

960 West LeVoy Drive / Salt Lake City, Utah 84123-2547 / (801) 266-7700
A Sorenson Company

9613442.2199

DATA CHEM LABORATORIES

ANALYTICAL REPORT

Date MAR 2 2 1993
Agency Identification Number S93-0091-GI
Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN H4-23 345 Hill Street/300 Area
Richland, WA 99352
Attention: Briana Colley

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Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site _____ Date of Collection February 16, 1993

Date Samples Received at Laboratory February 22, 1993

Analysis

Method of Analysis EPA 8141

Date(s) of Analysis March 08, 1993

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	Ethoprop µg/g	Fensulfothion µg/g	Fenthion µg/g	Merphos µg/g	Mevinphos µg/g	Naled µg/g	Parathion methyl µg/g	Phorate µg/g
QC-2202-1	QC-2202-1	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	.061	.051
BL-2202-1	BL-2202-1	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07KQ6	EM 0387	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
* Limit of Detection			.01	.01	.01	.01	.01	.01	.01	.01

† See comment on last page.
ND Parameter not detected.
NR Parameter not requested.
** See comment on last page.
( ) Parameter between LOD and LOQ.

9613442.2200

DATA CHEM LABORATORIES

ANALYTICAL REPORT

Date MAR 2 2 1993
Agency Identification Number S93-0091-GI
Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN H4-23 345 Hill Street/300 Area
Richland, WA 99352
Attention: Briana Colley

FAX (509) 372-2106
Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site _____ Date of Collection February 16, 1993

Date Samples Received at Laboratory February 22, 1993

Analysis

Method of Analysis EPA 8141

Date(s) of Analysis March 08, 1993

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	Ronnel µg/g	Stirophos µg/g	Dimethoate µg/g	EPN µg/g	Malathion µg/g	Monocrotophos µg/g	Parathion µg/g	SULPROFEP µg/g
QC-2202-1	QC-2202-1	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
BL-2202-1	BL-2202-1	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07KQ6	EM 0387	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
* Limit of Detection			.01	.01	.01	.01	.01	.01	.01	.01

† See comment on last page.
ND Parameter not detected.
NR Parameter not requested.
** See comment on last page.
( ) Parameter between LOD and LOQ.

9613442.2201

DATA CHEM LABORATORIES

ANALYTICAL REPORT

Date MAR 22 1993
Agency Identification Number S93-0091-GI
Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN H4-23 345 Hill Street/300 Area
Richland, WA 99352
Attention: Briana Colley

FAX (509) 372-2106
Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site _____ Date of Collection February 16, 1993

Date Samples Received at Laboratory February 22, 1993

Analysis

Method of Analysis EPA 8141

Date(s) of Analysis March 08, 1993

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	TEPP µg/g	TPP µg/g						
QC-2202-1	QC-2202-1	SOIL	ND*	.37						
BL-2202-1	BL-2202-1	SOIL	ND*	.37						
B07KQ6	EM 0387	SOIL	ND*	.37						
* Limit of Detection			.01	.01						

† See comment on last page.
ND Parameter not detected.
NR Parameter not requested.
** See comment on last page.
( ) Parameter between LOD and LOQ.

DATA CHEM LABORATORIES

ANALYTICAL REPORT

Date MAR 2 2 1993

Agency Identification Number S93-0091-GI

General Set Comments

The samples were spiked with the surrogate triphenylphosphate at .33 µg/g. The Laboratory Control Sample was spiked with phorate, disulfoton, and parathion methyl at .066 µg/g.

9613442.2203

Westinghouse Hanford Company	CHAIN OF CUSTODY

Custody Form Initiator Jonathan G. Lucas

Company Contact Frank W. Gustafson

Telephone 376-1736

Project Designation/Sampling Locations North Slope ERA-H-12-L, H-07-H, H-90, 2,4-D burial site

Collection Date 2-16,17-93

Ice Chest No. RM #40

Field Logbook No. EFL-1031-2

Bill of Lading/Airbill No. 2536953443 0

Offsite Property No. W93-0-0285 #6

Method of Shipment Emery Sa 2-19-93

Shipped to Data Chem Salt Lake City, UT

Possible Sample Hazards/Remarks None

Sample Identification

B07KQ5
B07KQ6 } Soil (1-250ml aG/each) EM 0387
B07KQ7
B07KR3 } Soil (2-120ml aG/each)
B07KR4 } EM 0388
B07KR5 } Soil (1-120ml gSp, 1-250ml aG, 3-120ml aG)
B07KR6
B07KR8

B07KR9 } EM 0389
B07KS0 } Soil (2-120ml aG/each) EM 0390
B07KS1 } EM 0391
B07KS2

[] Field Transfer of Custody

Chain of Possession (Sign and Print Names)

Relinquished By	Date	Time	Received By	Date	Time
Jonathan G. Lucas	2-22-93	1100	[illegible]	2-22-93	1100

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:

Comments: These are copies. Originals w/ set SX-0059 J 2-22-93

RADIOACTIVE CATEGORY I

A-6000-407 (12/92) WEF061

9613442.2204

SPECIAL HANDLING INFORMATION

ATTENTION:

The following samples have been screened and categorized as "Category I" radioactive samples:

DCL sample ID numbers screened by: B (initials)

EM 0387			
0388			
0389			
0390			
0391			

Category I samples are defined as having activity levels of less than 0.01 microCurie, gross alpha, and less than 0.1 microCurie, gross beta, per sample aliquot.

HANDLING

These activity levels require only the usual hygiene precautions which are taken with all potentially toxic or hazardous environmental samples. They present an internal contamination hazard only (e.g. ingestion, inhalation, injection). Use appropriate personal protective equipment and work under fume hoods or canopies.

Please place all sample residuals in labeled plastic bags or jars and turn them over to Safety and Environmental Affairs personnel for screening prior to disposal. DCL sample ID numbers should be indicated on the container labels. This includes filters, wipes and rinsate generated processing the sample, and in cleaning off implements and glassware.

Please address any questions or concerns to the Safety and Environmental Affairs section.

9613442.2205

Westinghouse Hanford Company

SAMPLE ANALYSIS REQUEST

Collector Frank W. Gustafson Date 2-19-93

Company Contact Frank W. Gustafson Telephone (509) 376-7736

Sample Number	*	Date Collected	Time Collected	Number and Type of Sample Containers/Analysis Requested
B07KQ5	S	2-16-93	1200	1 - ~~20~~ 250 ml aG - Semi VOA (CLP), 8140
B07KQ7	S	2-16-93	1315, 1425, 1520	PCB/Pests (CLP), Phosphorous Pests (~~CLP~~), Herbicides (8150)
B07KQ6	S	2-17-93	1004, 1102, 1144, 1220	1 - 250 ml aG - ~~VOA (8240)~~, Semi VOA (8270), PCB/Pests (8080), Phosphorus Pests (8140), Herbicides (8150)
				Note: Samples B07KQ6 and B07KQ7 are composite samples. The date and time of actual compositing are 2-19-93 @ 1050 (B07KQ6) and 1059 HRS (B07KQ7)
				RADIOACTIVE CATEGORY I

*Type of Sample

A = Air	L = Liquid	SE = Sediment	T = Tissue	X = Other
DL = Drum Liquids	O = Oil	SL = Sludge	W = Water	
DS = Drum Solids	S = Soil	SO = Solid	WI = Wipe	

Field Information

Special Handling and/or Storage Cool 4°C

Possible Sample Hazards

A-6000-406 (06/91)

9613442.2206

Westinghouse Hanford Company

SAMPLE ANALYSIS REQUEST

Collector Craig A. Rowley Date 2-18-93

Company Contact Frank W. Gustafson Telephone (509) 376-1736

Sample Number	*	Date Collected	Time Collected	Number and Type of Sample Containers/Analysis Requested
B07KR3	S	2-16-93	1125	1-120ml aG - ICP metals (CLP), AA metals (As, Pb,
				Se, Tl - CLP), Hg (CLP)
				1- 120ml aG - Anions (F, Cl, PO4, SO4 - EPA 300.0),
				(NO2, NO3) ← EPA 353.3, Chromium VI (EPA 218.4)
B07KR4	S	2-16-93	1202	1-120ml aG - ICP metals (6010), AA metals -
				As (7060), Pb (7420); Se (7740), Tl (7841), 2-22-93
				Hg (7471)
				1- 120ml aG - Anions → (F, Cl, PO4, SO4 - EPA 300.0)
				(NO2, NO3 - EPA 353.3), Chromium VI (EPA 218.4)

RADIOACTIVE
CATEGORY I

*Type of Sample: A = Air; DL = Drum Liquids; DS = Drum Solids; L = Liquid; O = Oil; S = Soil; SE = Sediment; SL = Sludge; SO = Solid; T = Tissue; W = Water; WI = Wipe; X = Other

Field Information —

Special Handling and/or Storage Cool 4°C

Possible Sample Hazards —

1-6000-406 (06/91)

9613442.2207

Westinghouse Hanford Company

SAMPLE ANALYSIS REQUEST

Collector Craig A. Rowley Date 2-18-93

Company Contact Frank Gustafson Telephone (509) 376-1736

Sample Number	*	Date Collected	Time Collected	Number and Type of Sample Containers/Analysis Requested
8-93 B07KR4 5	S	2-16-93	1530-1540	1 - 120ml gS - VOA (CLP)
B07KR6	S	2-16-93	1530-1540	1 - 250ml aG - Semi VOA (CLP), PCB/Pests (CLP),
B07KR8	S	2-16-93	1620	Phosphorus Pests (8140), Herbicides (8150)
				1 - ~~250~~ 120ml aG - AA metals (As, Pb, Se, Tl - CLP),
				Hg (CLP), ICP metals (CLP)
				1 - 120ml aG - Anions (F, Cl, PO_4, SO_4 - EPA 300.0),
				(NO_2, NO_3 - EPA 353.3), Chromium VI (EPA 218.4)
				1 - 120ml aG - TPH (EPA 418.1)
				Note: For sample B07KR6, a 1 l aG
				bottle replaces the 250 ml aG.
B07KR9	S	2-17-93	0950	1 - 120ml aG - ICP metals (6010), AA metals - As (7060),
B07KS0	S	2-17-93	0950	Pb (7420), Se (7740), Tl (7840), Hg (7471)
B07KS1	S	2-17-93	1330	1 - 120ml aG - TPH (EPA 418.1)
B07KS2	S	2-17-93	1340	1 - 120ml aG - ICP metals (CLP), AA metals (As,
				Pb, Se, Tl - CLP), Hg (CLP)
				1 - 120ml aG - TPH (EPA 418.1)
				RADIOACTIVE
				CATEGORY I

*Type of Sample: A = Air; DL = Drum Liquids; DS = Drum Solids; L = Liquid; O = Oil; S = Soil; SE = Sediment; SL = Sludge; SO = Solid; T = Tissue; W = Water; WI = Wipe; X = Other

Field Information —

Special Handling and/or Storage Cool 4°C

Possible Sample Hazards —

A-6000-406 (06/91)

9613442.2208

DATA CHEM LABORATORIES

ANALYTICAL REPORT

Form ARF-AL
Page 1 of 3
Part 1 of 2

APR 06 1993
Date

Agency Identification Number S93-0091-FI
Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN H4-23 345 Hill Street/300 Area
Richland, WA 99352
Attention: Briana Colley

APR 1993 RECEIVED OSM DMO

FAX (509) 372-2106
Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site _____ Date of Collection February 16, 1993

Date Samples Received at Laboratory February 22, 1993

Analysis

Method of Analysis EPA 8150

Date(s) of Analysis March 26, 1993

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	2,4-D µg/kg	2,4-DB µg/kg	2,4,5-T µg/kg	2,4,5-TP (silvex) µg/kg	Dalapon µg/kg	Dicamba µg/kg	Dichloroprop µg/kg	Dinoseb µg/kg
B07KQ6	EM 0387	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
* Limit of Detection			100	500	50	50	200	50	100	100

† See comment on last page.
ND Parameter not detected.
NR Parameter not requested.

** See comment on last page.
( ) Parameter between LOD and LOQ.

RECORD COPY

Analyst: John Merkle

Reviewer: David R. Fischer

Laboratory Supervisor: Jose C. Danino

960 West LeVoy Drive / Salt Lake City, Utah 84123-2547 / (801) 266-7700
A Sorenson Company

9613442.2209

DATA CHEM LABORATORIES

ANALYTICAL REPORT

Form ARF-AL
Page 2 of 3
Part 2 of 2

Date APR 06 1993
Agency Identification Number S93-0091-FI
Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN H4-23 345 Hill Street/300 Area
Richland, WA 99352
Attention: Briana Colley

FAX (509) 372-2106
Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site _____ Date of Collection February 16, 1993

Date Samples Received at Laboratory February 22, 1993

Analysis

Method of Analysis EPA 8150

Date(s) of Analysis March 26, 1993

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	MCPA µg/kg	MCPP µg/kg	DCAA µg/kg					
B07KQ6	EM 0387	SOIL	ND*	ND*	ND*					
* Limit of Detection			25000	25000	SURR					

† See comment on last page.
ND Parameter not detected.
NR Parameter not requested.
** See comment on last page.
( ) Parameter between LOD and LOQ.

9613942.2210

DATA CHEM LABORATORIES

ANALYTICAL REPORT

Date APR 06 1993

Agency Identification Number S93-0091-FI

General Set Comments

The samples were spiked with the surrogate, 2,4-dichlorophenylacetic acid (DCCA), at 500 µg/kg.

This set batched together with one from another customer for analysis. Recoveries of 2,4-D, 2,4,5-T and 2,4,5-TP spiked into the laboratory control sample, matrix spike and matrix spike duplicate were within normal QC limits.

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A Sorenson Company

9613442.2211

DATA CHEM LABORATORIES

ANALYTICAL REPORT

Form ARF-AL
Page 1 of 3
Part 1 of 2

AMENDED

Date 5-17-93
Agency Identification Number S93-0091-FI
Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN H4-23 345 Hill Street/300 Area
Richland, WA 99352
Attention: Briana Colley

FAX (509) 372-2106
Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site _____ Date of Collection February 16, 1993

Date Samples Received at Laboratory February 22, 1993

Analysis

Method of Analysis EPA 8150

Date(s) of Analysis March 26, 1993

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	2,4-D µg/kg	2,4-DB µg/kg	2,4,5-T µg/kg	2,4,5-TP (silvex) µg/kg	Dalapon µg/kg	Dicamba µg/kg	Dichloroprop µg/kg	Dinoseb µg/kg
B07KQ6	EM 0387	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
* Limit of Detection			100	500	50	50	200	50	100	100

† See comment on last page.
ND Parameter not detected.
NR Parameter not requested.

** See comment on last page.
( ) Parameter between LOD and LOQ.

Analyst: John Meikle

Reviewer: David R. Fischer for DRF

Laboratory Supervisor: Jose C. Danino for JCD

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A Sorenson Company

9613442.2212

DATA CHEM LABORATORIES

ANALYTICAL REPORT

AMENDED

Date 5-17-93
Agency Identification Number S93-0091-FI
Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN H4-23 345 Hill Street/300 Area
Richland, WA 99352
Attention: Briana Colley

FAX (509) 372-2106
Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site _____ Date of Collection February 16, 1993

Date Samples Received at Laboratory February 22, 1993

Analysis

Method of Analysis EPA 8150

Date(s) of Analysis March 26, 1993

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	MCPA µg/kg	MCPP µg/kg	DCAA µg/kg					
B07KQ6	EM 0387	SOIL	ND*	ND*	542					
* Limit of Detection			25000	25000	SURR					

† See comment on last page.
ND Parameter not detected.
NR Parameter not requested.

** See comment on last page.
( ) Parameter between LOD and LOQ.

9613442.2213

DATA CHEM LABORATORIES

ANALYTICAL REPORT

AMENDED

Date 5-17-93

Agency Identification Number S93-0091-FI

General Set Comments

The samples were spiked with the surrogate, 2,4-dichlorophenylacetic acid (DCCA), at 500 µg/kg; recovery was 542 µg/kg or 108 percent.

This set batched together with one from another customer for analysis. Recoveries of 2,4-D, 2,4,5-T and 2,4,5-TP spiked into the laboratory control sample, matrix spike and matrix spike duplicate were within normal QC limits.

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A Sorenson Company

9613442.2214

VALIDATION SUMMARY

9613442.2215

RECEIVED
JUN 23 1993
VALIDATION DOCUMENTATION
SDVA 21, 1993

MEMORANDUM

TO: North Slope ERA Data Validation Project QA Record

FR: Susan Winter, Golder Associates Inc.

RE: Data Validation Summary for Data Package: B07KQ6-DAT-234

INTRODUCTION

This memo presents the results of data validation on data package B07KQ6-DAT-234 consisting of one (1) soil sample submitted for semivolatile, pesticide/PCB, organochlorine herbicides, and organophosphorus pesticides analyses, however, due to a spiking error in extractions, the pesticide/PCB analysis was canceled. The sample was analyzed for the requested parameters by the DataChem laboratory using SW-846 methods. The following table describes the samples validated, sample dates and analyses performed.

SAMPLE ID	SAMPLE DATE	BNA	PEST PCB	HERB	PHOS PEST
B07KQ6	02/17/92	X	CANCELED	X	X

Data validation was conducted in accordance with the WHC statement of work (WHC 1993) and validation procedures (Bechtold 1992) in which twenty percent (20%) of the samples were assigned for validation. The sample in this data set was verified and blank adjusted as summarized below since it was not selected for full data validation.

Attachments 1 through 3 provide a data qualification summary form, copies of the verified laboratory reports, and associated laboratory supplemental information.

DATA QUALITY OBJECTIVES

Sample Result Verification. The data package was complete and the results were supported in the raw data for all analyses performed.

MAJOR DEFICIENCIES

The following presents a summary of the rejected data.

The semivolatile tentatively identified compounds (TICs) identified as aldol condensation products have been rejected (R) in sample B07KQ6 and in the associated laboratory blank since they are suspected laboratory contaminants.

MINOR DEFICIENCIES

The following qualifications were required as a result of the blank adjustment.

Blank Adjustment. The results for all associated blank samples were undetected with the exception of the aldol condensation products detected in the semivolatile fraction which were rejected (R) as noted above. Therefore, no further qualification was required.

REFERENCES

WHC, 1993, Westinghouse Hanford Company, North Slope ERA Data Validation, Task Order G-93-01-58. Westinghouse Hanford Company, Richland, Washington.

Bechtold, 1992, Westinghouse Hanford Company, Data Validation Procedures for Chemical Analyses, WHC-SD-EN-SPP-002, Rev. 1, 1992. Westinghouse Hanford Company, Richland, Washington.

9613442.2217

ATTACHMENT 1

DATA QUALIFICATION SUMMARY

9613442.2218

DATA QUALIFICATION SUMMARY - FORM B-7

B07K06-DAT-234

SDG:	REVIEWER:	DATE: 6/21/93	PAGE 1 OF 1
COMMENTS: BNA/OP-Pest/Herbicides			
COMPOUND	QUALIFIER	SAMPLES AFFECTED	REASON
Semivolatile			
Aldol Condensation	R	B07K06	Lab Contaminant
Products (TIC)	↓	Laboratory Blank	↓

9613442.2219

ATTACHMENT 2

VERIFIED DATA SUMMARY

ANALYTICAL REPORT FOR SAMPLE No. EM0387

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID: B07KQ6 Date Extracted: 2/25/93

DataChem Set ID: S93-0091-II Date of Analysis: 3/5/93

Sponsor: Westinghouse-Hanford Company File ID: CJ4E87

CAS No.	COMPOUND	RESULTS (ug/kg)	Method Detection Limit (MDL) (ug/kg)
62-75-9	N-nitroso-dimethylamine	U	1.0E+3
108-95-2	phenol	U	3.3E+2
111-44-4	bis(2-chloroethyl)ether	U	3.3E+2
95-57-8	2-chlorophenol	U	3.3E+2
541-73-1	1,3-dichlorobenzene	U	3.3E+2
106-46-7	1,4-dichlorobenzene	U	3.3E+2
100-51-6	benzyl alcohol	U	1.0E+3
95-50-1	1,2-dichlorobenzene	U	3.3E+2
95-48-7	2-methylphenol	U	3.3E+2
39638-329	bis(2-chloroisopropyl)ether	U	3.3E+2
106-44-5	4-methylphenol	U	3.3E+2
621-64-7	N-nitroso-di-n-proplyamine	U	3.3E+2
67-72-1	hexachloroethane	U	3.3E+2
98-95-3	nitrobenzene	U	3.3E+2
78-59-1	isophorone	U	3.3E+2
88-75-5	2-nitrophenol	U	3.3E+2
105-67-9	2,4-dimethylphenol	U	3.3E+2
111-91-1	bis(2-chloroethoxy)methane	U	3.3E+2
65-85-0	benzoic acid	U	1.0E+3
120-83-2	2,4,-dichlorophenol	U	3.3E+2
120-82-1	1,2,4-trichlorobenzene	U	3.3E+2
91-20-3	naphthalene	U	3.3E+2
106-47-8	4-chloroaniline	U	3.3E+2
87-68-3	hexachlorobutadiene	U	3.3E+2
59-50-7	4-chloro-3-methylphenol	U	3.3E+2
91-57-6	2-methylnaphthalene	U	3.3E+2
77-47-4	hexachlorocyclopentadiene	U	3.3E+2
88-06-2	2,4,6-trichlorophenol	U	3.3E+2
95-95-4	2,4,5-trichlorophenol	U	8.0E+2
78-59-1	2-chloronaphthalene	U	3.3E+2
88-75-5	2-nitroaniline	U	8.0E+2

verified 6/21/93

ANALYTICAL REPORT FOR SAMPLE No. EM0387

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID: B07KQ6

CAS No.	COMPOUND	RESULTS (ug/kg)	Method Detection Limit (MDL) (ug/kg)
131-11-3	dimethylphthalate	U	3.3E+2
606-20-2	2,6-dinitrotoluene	U	3.3E+2
208-96-8	acenaphthylene	U	3.3E+2
99-09-2	3-nitroaniline	U	8.0E+2
83-32-9	acenaphthene	U	3.3E+2
51-28-5	2,4-dinitrophenol	U	8.0E+2
100-02-7	4-nitrophenol	U	8.0E+2
132-64-9	dibenzofuran	U	3.3E+2
121-14-2	2,4-dinitrotoluene	U	3.3E+2
84-66-2	diethylphthalate	U	3.3E+2
7005-72-3	4-chlorophenyl-phenylether	U	3.3E+2
86-73-7	fluorene	U	3.3E+2
100-01-6	4-nitroaniline	U	8.0E+2
534-52-1	2-methyl-4,6-dinitrophenol	U	8.0E+2
86-30-6	N-nitroso-diphenylamine	U	3.3E+2
122-66-7	1,2-diphenylhydrazine	U	1.0E+3
101-55-3	4-bromophenyl-phenylether	U	3.3E+2
319-84-6	.alpha.-BHC	U	1.0E+3
319-85-7	.beta.- BHC	U	5.0E+3
118-74-1	hexachlorobenzene	U	3.3E+2
87-86-5	pentachlorophenol	U	8.0E+2
58-89-9	.gamma.-BHC	U	1.0E+3
85-01-8	phenanthrene	U	3.3E+2
120-12-7	anthracene	U	3.3E+2
319-86-8	.delta.-BHC	U	5.0E+3
76-44-8	heptachlor	U	5.0E+3
84-74-2	di-n-butylphthalate	U	3.3E+2
309-00-2	aldrin	U	5.0E+3
1024-57-3	heptachlor epoxide	U	5.0E+3
206-44-0	fluoranthene	U	3.3E+2
129-00-0	pyrene	U	3.3E+2

Verified 6/21/93

9613442.2222

ANALYTICAL REPORT FOR SAMPLE No. EM0387

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID: B07KQ6

CAS No.	COMPOUND	RESULTS (ug/kg)	Method Detection Limit (MDL) (ug/kg)
959-98-8	endosulfan I	U	5.0E+3
72-55-9	4,4'-DDE	U	5.0E+3
60-57-1	dieldrin	U	5.0E+3
7421-93-4	endrin aldehyde	U	5.0E+3
72-20-8	endrin	U	5.0E+3
72-54-8	4,4'-DDD	U	5.0E+3
33213-65-9	endosulfan II	U	5.0E+3
85-68-7	butylbenzylphthalate	U	3.3E+2
50-29-3	4,4'-DDT	U	5.0E+3
1031-07-8	endosulfan sulfate	U	5.0E+3
72-43-5	p,p'-methoxychlor	U	1.0E+3
91-94-1	3,3'-dichlorobenzidine	U	1.0E+3
56-55-3	benzo(a)anthracene	U	3.3E+2
117-81-7	bis(2-ethylhexyl)phthalate	U	3.3E+2
218-01-9	chrysene	U	3.3E+2
117-84-0	di-n-octylphthalate	U	3.3E+2
205-99-2	benzo(b)fluoranthene	U	3.3E+2
207-08-9	benzo(k)fluoranthene	U	3.3E+2
50-32-8	benzo(a)pyrene	U	3.3E+2
193-39-5	indeno(1,2,3-cd)pyrene	U	3.3E+2
53-70-3	dibenz(a,h)anthracene	U	3.3E+2
191-24-2	benzo(g,h,i)perylene	U	3.3E+2
53494-70-5	endrin ketone	U	1.0E+3
109-06-8	2-picoline	U	1.0E+3
62-50-0	ethylmethanesulfonate	U	1.0E+3
66-27-3	methylmethanesulfonate	U	1.0E+3
62-53-3	aniline	U	1.0E+3
98-86-2	acetophenone	U	1.0E+3
100-75-4	N-nitroso-piperidine	U	1.0E+3
122-09-8	a,a-dimethylphenethylamine	U	1.0E+3
87-65-0	2,6-dichlorophenol	U	1.0E+3

verified 6/21/93

ANALYTICAL REPORT FOR SAMPLE No. EM0387

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID: B07KQ6

CAS No.	COMPOUND	RESULTS (ug/kg)	Method Detection Limit (MDL) (ug/kg)
924-16-3	N-nitroso-di-n-butylamine	U	1.0E+3
95-94-3	1,2,4,5-tetrachlorobenzene	U	1.0E+3
90-13-1	1-chloronaphthalene	U	1.0E+3
608-93-5	pentachlorobenzene	U	1.0E+3
134-32-7	1-naphthylamine	U	1.0E+3
58-90-2	2,3,4,6-tetrachlorophenol	U	1.0E+3
91-59-8	2-naphthylamine	U	1.0E+3
62-44-2	phenacetin	U	1.0E+3
92-67-1	4-aminobiphenyl	U	1.0E+3
23950-58-5	pronamide (propyzamide)	U	1.0E+3
82-68-8	pentachloronitrobenzene	U	1.0E+3
92-87-5	benzidine	U	1.0E+3
60-11-7	p-dimethylaminoazobenzene	U	1.0E+3
57-97-6	7,12-dimethylbenz(a)anthracene	U	1.0E+3
56-49-5	3-methylchloranthrene	U	1.0E+3
57-74-9	chlordane	U	1.0E+4
8001-35-2	toxaphene	U	1.0E+4
12674-11-2	PCB-1016	U	1.0E+4
11104-28-2	PCB-1221	U	1.0E+4
11141-16-5	PCB-1232	U	1.0E+4
53469-21-9	PCB-1242	U	1.0E+4
12672-29-6	PCB-1248	U	1.0E+4
11097-69-1	PCB-1254	U	1.0E+4
11096-82-5	PCB-1260	U	1.0E+4

Verified 6/21/93

ANALYTICAL REPORT FOR SAMPLE No. EM0387

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID: B07KQ6

CAS No.	COMPOUND	Scan Number	Results ug/kg	Footnotes	
	~~Aldol condensation product~~	~~254~~	~~7.5E+2~~	~~NEB~~	R
	~~Aldol condensation product~~	~~287~~	~~2.7E+2~~	~~NEB~~	R

FOOTNOTES

B The analyte was found in the method blank.
E The reported concentration is an estimate only. The response factor was assumed to be 1.00 relative to an internal standard.
K The isomer is unknown.
N Analytical standards were not analyzed for this compound.

verified
6/21/93

9613442.2225

DATA CHEM LABORATORIES

ANALYTICAL REPORT

Form ARF-AL
Page 1 of 3
Part 1 of 2

AMENDED

Date 5-17-93
Agency Identification Number S93-0091-FI
Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN H4-23 345 Hill Street/300 Area
Richland, WA 99352
Attention: Briana Colley

FAX (509) 372-2106
Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site _____ Date of Collection February 16, 1993

Date Samples Received at Laboratory February 22, 1993

Analysis

Method of Analysis EPA 8150

Date(s) of Analysis March 26, 1993

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	2,4-D µg/kg	2,4-DB µg/kg	2,4,5-T µg/kg	2,4,5-TP (Silvex) µg/kg	Dalapon µg/kg	Dicamba µg/kg	Dichloroprop µg/kg	Dinoseb µg/kg
B07KQ6	EM 0387	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
* Limit of Detection			100	500	50	50	200	50	100	100

† See comment on last page.
ND Parameter not detected.
NR Parameter not requested.

** See comment on last page.
( ) Parameter between LOD and LOQ.

Analyst: John Meikle

Reviewer: David R. Fischer

Laboratory Supervisor: Jose C. Danino

verified 6/21/93

960 West LeVoy Drive / Salt Lake City, Utah 84123-2547 / (801) 266-7700
A Sorenson Company

9613442.2226

DATA CHEM LABORATORIES

ANALYTICAL REPORT

Form ARF-AL
Page 2 of 3
Part 2 of 2

AMENDED

Date 5-17-93
Agency Identification Number S93-0091-FI
Account No. 3534C

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MSIN H4-23 345 Hill Street/300 Area
Richland, WA 99352
Attention: Briana Colley

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Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site _____ Date of Collection February 16, 1993

Date Samples Received at Laboratory February 22, 1993

Analysis

Method of Analysis EPA 8150

Date(s) of Analysis March 26, 1993

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	MCPA µg/kg	MCPP µg/kg	DCAA µg/kg
B07KQ6	EM 0387	SOIL	ND*	ND*	542
* Limit of Detection			25000	25000	SURR

† See comment on last page.
ND Parameter not detected.
NR Parameter not requested.
** See comment on last page.
( ) Parameter between LOD and LOQ.

verified 6/21/93

9613442.2227

DATA CHEM LABORATORIES

ANALYTICAL REPORT

Form ARF-AL
Page 1 of 5
Part 1 of 4

Date _____
Agency Identification Number S93-0091-GI
Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN H4-23 345 Hill Street/300 Area
Richland, WA 99352
Attention: Briana Colley

FAX (509) 372-2106
Telephone (509) 373-3225

MAY 1993 RECEIVED SDLA

Sampling Collection and Shipment

Sampling Site _____ Date of Collection February 16, 1993

Date Samples Received at Laboratory February 22, 1993

Analysis

Method of Analysis EPA 8141

Date(s) of Analysis March 08, 1993

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	Azinphos Methyl µg/g	Bolstar µg/g	Chlorpyrifos µg/g	Coumaphos µg/g	Demeton-S µg/g	Diazinon µg/g	Dichlorvos µg/g	Disulfoton µg/g
QC-2202-1	QC-2202-1	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	.053
BL-2202-1	BL-2202-1	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07KQ6	EM 0387	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
* Limit of Detection			.01	.01	.01	.01	.01	.01	.01	.01

† See comment on last page.
ND Parameter not detected.
NR Parameter not requested.

** See comment on last page.
( ) Parameter between LOD and LOQ.

verified 6/21/93

Analyst: Kiang C. Tang

Reviewer: Don Wickman

signatures on original submission

Laboratory Supervisor: Jose C. Danino

960 West LeVoy Drive / Salt Lake City, Utah 84123-2547 / (801) 266-7700
A Sorenson Company

9613442.2228

DATA CHEM LABORATORIES

ANALYTICAL REPORT

Form ARF-AL
Page 2 of 5
Part 2 of 4

Date _____
Agency Identification Number S93-0091-GI
Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN H4-23 345 Hill Street/300 Area
Richland, WA 99352
Attention: Briana Colley

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Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site _____ Date of Collection February 16, 1993

Date Samples Received at Laboratory February 22, 1993

Analysis

Method of Analysis EPA 8141

Date(s) of Analysis March 08, 1993

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	Ethoprop µg/g ✓	Fensulfothion µg/g ✓	Fenthion µg/g ✓	Merphos µg/g ✓	Mevinphos µg/g ✓	Naled µg/g ✓	Parathion methyl µg/g ✓	Phorate µg/g ✓
QC-2202-1	QC-2202-1	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	.061	.051
BL-2202-1	BL-2202-1	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07KQ6	EM 0387	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
* Limit of Detection			.01	.01	.01	.01	.01	.01	.01	.01

† See comment on last page.
ND Parameter not detected.
NR Parameter not requested.
** See comment on last page.
( ) Parameter between LOD and LOQ.

verified
6/21/93

9613442.2229

DATA CHEM LABORATORIES

ANALYTICAL REPORT

Form ARF-AL
Page 3 of 5
Part 3 of 4

Date _____
Agency Identification Number S93-0091-GI
Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN H4-23 345 Hill Street/300 Area
Richland, WA 99352
Attention: Briana Colley

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Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site _____ Date of Collection February 16, 1993

Date Samples Received at Laboratory February 22, 1993

Analysis

Method of Analysis EPA 8141

Date(s) of Analysis March 08, 1993

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	Ronnel µg/g ✓	Stirophos µg/g ✓	Dimethoate µg/g ✓	EPN µg/g ✓	Malathion µg/g ✓	Monocrotophos µg/g ✓	Parathion µg/g ✓	SULFOTEP µg/g ✓
QC-2202-1	QC-2202-1	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
BL-2202-1	BL-2202-1	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07KQ6	EM 0387	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
* Limit of Detection			.01	.01	.01	.01	.01	.01	.01	.01

† See comment on last page.
ND Parameter not detected.
NR Parameter not requested.
** See comment on last page.
( ) Parameter between LOD and LOQ.

verified 6/25/93

9613442.2230

DATA CHEM LABORATORIES

ANALYTICAL REPORT

Form ARF-AL
Page 4 of 5
Part 4 of 4

Date _____
Agency Identification Number S93-0091-GI
Account No. 3534C

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Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site _____ Date of Collection February 16, 1993

Date Samples Received at Laboratory February 22, 1993

Analysis

Method of Analysis EPA 8141

Date(s) of Analysis March 08, 1993

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	TEPP µg/g ✓	TPP µg/g ✓						
QC-2202-1	QC-2202-1	SOIL	ND*	.37						
BL-2202-1	BL-2202-1	SOIL	ND*	.37						
B07KQ6	EM 0387	SOIL	ND*	.37						
* Limit of Detection			.01	.01						

† See comment on last page.
ND Parameter not detected.
NR Parameter not requested.

** See comment on last page.
( ) Parameter between LOD and LOQ.

verified
6/28/93

9613442.2231

ATTACHMENT 3

SUPPLEMENTAL INFORMATION SUMMARY

9613442.2232

ANALYTICAL REPORT FOR SAMPLE No. BLANK

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID: Method Blank

Date Extracted: 02/25/93

DataChem Set ID: S93-0091-II

Date of Analysis: 03/05/93

Sponsor: Westinghouse-Hanford Co.

File ID: CJ3BK

CAS No.	COMPOUND	RESULTS (ug/kg)	Method Detection Limit (MDL) (ug/kg)
62-75-9	N-nitroso-dimethylamine	U	1.0E+3
108-95-2	phenol	U	3.3E+2
111-44-4	bis(2-chloroethyl)ether	U	3.3E+2
95-57-8	2-chlorophenol	U	3.3E+2
541-73-1	1,3-dichlorobenzene	U	3.3E+2
106-46-7	1,4-dichlorobenzene	U	3.3E+2
100-51-6	benzyl alcohol	U	1.0E+3
95-50-1	1,2-dichlorobenzene	U	3.3E+2
95-48-7	2-methylphenol	U	3.3E+2
39638-329	bis(2-chloroisopropyl)ether	U	3.3E+2
106-44-5	4-methylphenol	U	3.3E+2
621-64-7	N-nitroso-di-n-proplyamine	U	3.3E+2
67-72-1	hexachloroethane	U	3.3E+2
98-95-3	nitrobenzene	U	3.3E+2
78-59-1	isophorone	U	3.3E+2
88-75-5	2-nitrophenol	U	3.3E+2
105-67-9	2,4-dimethylphenol	U	3.3E+2
111-91-1	bis(2-chloroethoxy)methane	U	3.3E+2
65-85-0	benzoic acid	U	1.0E+3
120-83-2	2,4,-dichlorophenol	U	3.3E+2
120-82-1	1,2,4-trichlorobenzene	U	3.3E+2
91-20-3	naphthalene	U	3.3E+2
106-47-8	4-chloroaniline	U	3.3E+2
87-68-3	hexachlorobutadiene	U	3.3E+2
59-50-7	4-chloro-3-methylphenol	U	3.3E+2
91-57-6	2-methylnaphthalene	U	3.3E+2
77-47-4	hexachlorocyclopentadiene	U	3.3E+2
88-06-2	2,4,6-trichlorophenol	U	3.3E+2
95-95-4	2,4,5-trichlorophenol	U	8.0E+2
78-59-1	2-chloronaphthalene	U	3.3E+2
88-75-5	2-nitroaniline	U	8.0E+2

6/21/93

ANALYTICAL REPORT FOR SAMPLE No. BLANK

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID: Method Blank

CAS No.	COMPOUND	RESULTS (ug/kg)	Method Detection Limit (MDL) (ug/kg)
131-11-3	dimethylphthalate	U	3.3E+2
606-20-2	2,6-dinitrotoluene	U	3.3E+2
208-96-8	acenaphthylene	U	3.3E+2
99-09-2	3-nitroaniline	U	8.0E+2
83-32-9	acenaphthene	U	3.3E+2
51-28-5	2,4-dinitrophenol	U	8.0E+2
100-02-7	4-nitrophenol	U	8.0E+2
132-64-9	dibenzofuran	U	3.3E+2
121-14-2	2,4-dinitrotoluene	U	3.3E+2
84-66-2	diethylphthalate	U	3.3E+2
7005-72-3	4-chlorophenyl-phenylether	U	3.3E+2
86-73-7	fluorene	U	3.3E+2
100-01-6	4-nitroaniline	U	8.0E+2
534-52-1	2-methyl-4,6-dinitrophenol	U	8.0E+2
86-30-6	N-nitroso-diphenylamine	U	3.3E+2
122-66-7	1,2-diphenylhydrazine	U	1.0E+3
101-55-3	4-bromophenyl-phenylether	U	3.3E+2
319-84-6	.alpha.-BHC	U	1.0E+3
319-85-7	.beta.- BHC	U	5.0E+3
118-74-1	hexachlorobenzene	U	3.3E+2
87-86-5	pentachlorophenol	U	8.0E+2
58-89-9	.gamma.-BHC	U	1.0E+3
85-01-8	phenanthrene	U	3.3E+2
120-12-7	anthracene	U	3.3E+2
319-86-8	.delta.-BHC	U	5.0E+3
76-44-8	heptachlor	U	5.0E+3
84-74-2	di-n-butylphthalate	U	3.3E+2
309-00-2	aldrin	U	5.0E+3
1024-57-3	heptachlor epoxide	U	5.0E+3
206-44-0	fluoranthene	U	3.3E+2
129-00-0	pyrene	U	3.3E+2

6/21/93

ANALYTICAL REPORT FOR SAMPLE No. BLANK

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID: Method Blank

CAS No.	COMPOUND	RESULTS (ug/kg)	Method Detection Limit (MDL) (ug/kg)
959-98-8	endosulfan I	U	5.0E+3
72-55-9	4,4'-DDE	U	5.0E+3
60-57-1	dieldrin	U	5.0E+3
7421-93-4	endrin aldehyde	U	5.0E+3
72-20-8	endrin	U	5.0E+3
72-54-8	4,4'-DDD	U	5.0E+3
33213-65-9	endosulfan II	U	5.0E+3
85-68-7	butylbenzylphthalate	U	3.3E+2
50-29-3	4,4'-DDT	U	5.0E+3
1031-07-8	endosulfan sulfate	U	5.0E+3
72-43-5	p,p'-methoxychlor	U	1.0E+3
91-94-1	3,3'-dichlorobenzidine	U	1.0E+3
56-55-3	benzo(a)anthracene	U	3.3E+2
117-81-7	bis(2-ethylhexyl)phthalate	U	3.3E+2
218-01-9	chrysene	U	3.3E+2
117-84-0	di-n-octylphthalate	U	3.3E+2
205-99-2	benzo(b)fluoranthene	U	3.3E+2
207-08-9	benzo(k)fluoranthene	U	3.3E+2
50-32-8	benzo(a)pyrene	U	3.3E+2
193-39-5	indeno(1,2,3-cd)pyrene	U	3.3E+2
53-70-3	dibenz(a,h)anthracene	U	3.3E+2
191-24-2	benzo(g,h,i)perylene	U	3.3E+2
53494-70-5	endrin ketone	U	1.0E+3
109-06-8	2-picoline	U	1.0E+3
62-50-0	ethylmethanesulfonate	U	1.0E+3
66-27-3	methylmethanesulfonate	U	1.0E+3
62-53-3	aniline	U	1.0E+3
98-86-2	acetophenone	U	1.0E+3
100-75-4	N-nitroso-piperidine	U	1.0E+3
122-09-8	a,a-dimethylphenethylamine	U	1.0E+3
87-65-0	2,6-dichlorophenol	U	1.0E+3

6/21/93

ANALYTICAL REPORT FOR SAMPLE No. BLANK

EPA METHOD 8270, 3rd ED.
TARGET ANALYTE RESULTS

Field Sample ID: Method Blank

CAS No.	COMPOUND	RESULTS (ug/kg)	Method Detection Limit (MDL) (ug/kg)
924-16-3	N-nitroso-di-n-butylamine	U	1.0E+3
95-94-3	1,2,4,5-tetrachlorobenzene	U	1.0E+3
90-13-1	1-chloronaphthalene	U	1.0E+3
608-93-5	pentachlorobenzene	U	1.0E+3
134-32-7	1-naphthylamine	U	1.0E+3
58-90-2	2,3,4,6-tetrachlorophenol	U	1.0E+3
91-59-8	2-naphthylamine	U	1.0E+3
62-44-2	phenacetin	U	1.0E+3
92-67-1	4-aminobiphenyl	U	1.0E+3
23950-58-5	pronamide (propyzamide)	U	1.0E+3
82-68-8	pentachloronitrobenzene	U	1.0E+3
92-87-5	benzidine	U	1.0E+3
60-11-7	p-dimethylaminoazobenzene	U	1.0E+3
57-97-6	7,12-dimethylbenz(a)anthracene	U	1.0E+3
56-49-5	3-methylchloranthrene	U	1.0E+3
57-74-9	chlordane	U	1.0E+4
8001-35-2	toxaphene	U	1.0E+4
12674-11-2	PCB-1016	U	1.0E+4
11104-28-2	PCB-1221	U	1.0E+4
11141-16-5	PCB-1232	U	1.0E+4
53469-21-9	PCB-1242	U	1.0E+4
12672-29-6	PCB-1248	U	1.0E+4
11097-69-1	PCB-1254	U	1.0E+4
11096-82-5	PCB-1260	U	1.0E+4

6/21/93

ANALYTICAL REPORT FOR SAMPLE No. BLANK

NON-TARGET ANALYTE RESULTS
Additional Semi-Volatiles

Field Sample ID: Method Blank

CAS No.	COMPOUND	Scan Number	Results ug/kg	Footnotes	
	~~Aldol-condensation product~~	~~254~~	~~9.6E+2~~	~~NE~~	R
	~~Aldol-condensation product~~	~~287~~	~~3.8E+2~~	~~NE~~	R

FOOTNOTES

B The analyte was found in the method blank.
E The reported concentration is an estimate only. The response factor was assumed to be 1.00 relative to an internal standard.
K The isomer is unknown.
N Analytical standards were not analyzed for this compound.

6/21/93

9613442.2237

OFFICE OF SAMPLE MANAGEMENT

RECORD OF DISPOSITION

ROD-93-00070
Record of Disposition No.

DATE: 3/19/93	LABORATORY: DataChem
PROJECT TITLE/NO.: North Slope ERA/SAF# 92-451	NCR NO.: 051748

SAMPLE IDENTIFICATION NUMBERS:

B07KQ6

DESCRIPTION OF EVENT:

The sample extract was mistakenly spiked with the SW-846 Method 8080 Pesticide/PCB matrix spike solution. Reextraction of the sample is not a viable solution since the reextraction would be performed at least 22 days beyond the 7 day holding time.

DISPOSITION OF SAMPLES:

With consent from F. W. Gustafson, cancel the Pesticide /PCB analysis of the sample. DataChem has issued an internal Nonconformance Report documenting the occurrence.

APPROVAL SIGNATURES:

W. E. Strohben/ W. E. Strohben — 3/19/93
OSM Project Coordinator (Print/Sign Name) — Date

F. W. Gustafson/ F. W. Gustafson — 3/23/93
Technical Representative (Print/Sign Name) — Date

N/A
Quality Assurance (Print/Sign Name) — Date

9613442.2238

Westinghouse Hanford Company

NONCONFORMANCE REPORT

1. Page 1 of 1

2. Preprinted No. 051748

QA Log No. EQA-93-062

3. P. O., W. O., or Job Control No.	4. System/End Use	5. Item/Material	6. Dwg./Spec./Other No.	7. Rev.
N/A	RI/FS	SAMPLES	B07KQ6	N/A

8. Program/Project/Other	9. Safety Class	10. ASME Code Items
NORTH SLOPE ERA	N/A	☐ Yes ☒ No (If yes, notify authorized inspector)

11. Supplier Name/Address	12. Notification of Potential Occurence Required
DATACHEM	☐ Yes ☒ No

13. Code: Lot/Heat/Serial	14. Lot Size	15. Sample	16. Qty. Acc.	17. Inspection Criteria
N/A	1	1	0	☐ Dwg. ☐ Spec. ☐ Insp. Plan ☒ Other CLP SOW OLM01.2, D-15/PEST 5.1.1-2

18. Item	19. Description of Nonconformance (list serial no. where applicable)	22. Disposition, Justification, and Instructions
	THE PESTICIDE/PCB EXTRACT WAS MISTAKENLY SPIKED WITH THE SW-846 METHOD 8080 MATRIX SPIKE SOLUTION. AN UNSPIKED PESTICIDE/PCB SAMPLE COULD NOT BE ANALYZED. THIS OCCURRENCE HAS BEEN DOCUMENTED IN AN INTERNAL DATACHEM NONCONFORMANCE REPORT.	Cancel the pesticide/PCB analysis of the sample. DataChem has issued an internal nonconformance report documenting the occurence. 6/24/93

20. Originator's Signature	Date	23. Design Document Change Required?
W. E. STROHBEN W. E. Strohben	3/19/93	☐ Yes, Doc. No. _____ ☐ No
21. Cognizant QA Manager's Signature	**Date**	**24. Corrective Action Required?**
[signature]	3/29/93	☐ Yes, No. _____ ☐ No

Disp. App.				
25. Cognizant Engineer: FW GUSTAFSON [signature]	Date 6/10/93	26. Technical Rep.	Date	Signature/Org. Date
QA Engineer: RL HAND [signature]	Date 6/10/93	Signature/Org.	Date	Signature/Org. Date

Close

27. Accept ✓ Reject _____ Follow on NCR _____ [signature] QA/C Personnel 6/10/93 Date

A-7310-104 (10/91)

9613442 [illegible]

SAF #92-4517 WHC Sample # B07KQ6

Document #

DATACHEM LABORATORIES
NONCONFORMANCE REPORT (NCR)

Directions: Complete report, sign, distribute green original to Quality Control Section, one copy to your Section Manager, and one copy to the appropriate Project Manager.

Set ID/Lot No(s): S93-0091-HI

Submitted by: Guangyue Liu (Print Name)

Analysis/Analyte: 8080 Pest/PCB

Signature: [signature]

Account #: 3534

Section: PA

Client: Westinghouse

Date Documented: 3-17-93

Sample #'s Affected: EM0387

Date of Occurrence:

DEFICIENCY DESCRIPTION (Check appropriate box/boxes and explain below):

- ☐ Instrument failure
- ☐ Unacceptable sample condition
- ☐ Unacceptable sample storage
- Incorrect: ☐ Analysis ☐ Procedure
- ☐ Incorrect calibration
- ☐ Failure to document
- ☐ Unacceptable duplicate results
- ☐ Incorrect sample documents
- ☐ Holding time exceeded
- ☐ Incorrect sample preparation
- ☐ Unacceptable QC sample results
- ☐ Contaminated blanks
- ☐ Transcription or recording error
- ☐ Other (Explain below)

BRIEFLY DESCRIBE DEFICIENCY:

Sample EM0387 showed the same results as MS and MSD. The sample was obviously mis-spiked with 8080 matrix spike solution

PROJECT MANAGER NOTIFIED (DATE): 3-17-93

☐ PROCEED WITH ANALYSIS
☑ DO NOT ANALYZE

ACTIONS REQUIRED OR TAKEN (Check appropriate box/boxes and explain below):

- ☐ Recalibrate instruments
- ☐ Reanalyze samples
- ☐ Reprepare samples
- ☐ None required (Explain below)
- ☐ Replace equipment
- ☐ Retrain personnel
- Revise: ☐ Procedure ☐ Method
- ☐ Other (Explain below)

BRIEFLY DESCRIBE ACTIONS TAKEN:

PROJECT MANAGER COMMENTS:

QA REVIEW AND APPROVAL

THESE DATA ARE:

- ☐ USABLE
- ☐ USABLE (FLAGGED) *SEE COMMENT
- ☐ NOT USABLE *SEE COMMENT

QA COMMENTS:

Reviewed by QA:

DATE:

Updated 12/92

9613442.2240

Westinghouse Hanford Company

NONCONFORMANCE REPORT

1. Page 1 of 1

2. Preprinted No. 051748

QA Log No. EQA-93-062

3. P. O., W. O., or Job Control No.	4. System/End Use	5. Item/Material	6. Dwg./Spec./Other No.	7. Rev.
N/A	RI/FS	SAMPLES	B07KQ6	N/A

8. Program/Project/Other: NORTH SLOPE ERA

9. Safety Class: N/A

10. ASME Code Items ☐ Yes ☒ No (If yes, notify authorized inspector)

11. Supplier Name/Address: DATACHEM

12. Notification of Potential Occurence Required ☐ Yes ☒ No

13. Code: Lot/Heat/Serial	14. Lot Size	15. Sample	16. Qty. Acc.	17. Inspection Criteria
N/A	1	1	0	☐ Dwg. ☐ Spec. ☐ Insp. Plan ☒ Other CLP SOW OLM01.2, D-15/PEST 5.1.1-2

18. Item	19. Description of Nonconformance (list serial no. where applicable)	22. Disposition, Justification, and Instructions
	THE PESTICIDE/PCB EXTRACT WAS MISTAKENLY SPIKED WITH THE SW-846 METHOD 8080 MATRIX SPIKE SOLUTION. AN UNSPIKED PESTICIDE/PCB SAMPLE COULD NOT BE ANALYZED. THIS OCCURRENCE HAS BEEN DOCUMENTED IN AN INTERNAL DATACHEM NONCONFORMANCE REPORT.	Cancel the pesticide/PCB analysis of the sample. DataChem has issued an internal nonconformance report documenting the occurence.

20. Originator's Signature: W. E. STROHBEN — Date 3/19/93

23. Design Document Change Required? ☐ Yes, Doc. No. _____ ☐ No

21. Cognizant QA Manager's Signature — Date 3/29/93

24. Corrective Action Required? ☐ Yes, No. _____ ☐ No

Disp. App.			
25. Cognizant Engineer: FW GUSTAFSON — Date 6/10/93	26. Technical Rep. — Date	Signature/Org. — Date	
QA Engineer: RL HAND — Date 6/10/93	Signature/Org. — Date	Signature/Org. — Date	

27. Close: Accept ✓ Reject _____ Follow on NCR _____ QA/C Personnel _____ Date 6/10/93

A-7310-104 (10/91)

9613442.2241

OFFICE OF SAMPLE MANAGEMENT

RECORD OF DISPOSITION

ROD-93-00070
Record of Disposition No.

DATE: 3/19/93	LABORATORY: DataChem
PROJECT TITLE/NO.: North Slope ERA/SAF# 92-451	NCR NO.: 051748

SAMPLE IDENTIFICATION NUMBERS:

B07KQ6

DESCRIPTION OF EVENT:

The sample extract was mistakenly spiked with the SW-846 Method 8080 Pesticide/PCB matrix spike solution. Reextraction of the sample is not a viable solution since the reextraction would be performed at least 22 days beyond the 7 day holding time.

DISPOSITION OF SAMPLES:

With consent from F. W. Gustafson, cancel the Pesticide /PCB analysis of the sample. DataChem has issued an internal Nonconformance Report documenting the occurrence.

6/21/93

APPROVAL SIGNATURES:

W. E. Strohben/ W. E. Strohben — 3/19/93
OSM Project Coordinator (Print/Sign Name) — Date

F. W. Gustafson/ F. W. Gustafson — 3/23/93
Technical Representative (Print/Sign Name) — Date

N/A
Quality Assurance (Print/Sign Name) — Date