Westinghouse
Hanford Company

0048298

OSM ORGANIC DATA ASSESSMENT

DATE 3/31/90 SAMPLES/MATRIX A2208 soil

REVIEWED BY JALerch

LABORATORY PNEL

CASE # 2252

SDG # A2208

DATA ASSESSMENT SUMMARY

	VOA	ABN	PEST
1. Holding Times (Form I)	O	O	O
2. Surrogate Recovery (II)	O	X	X
3. Matrix Spike/ MSD (III)	O	O	O
4. Blanks (IV)	O	X	O
5. GC/MS Tune (V)	O	O	
6. Calibration (VI-VII; VIII pest)	O	O	O
7. Internal Standards (VIII)	O	O	
8. Instr. Perform. (IX pest)			O
9. Other ( ) none			

NOV 1997
RECEIVED
EDMC

O = data had no problems
X = data qualified due to minor problems
M = data qualified due to major problems, some data may be unusable

OVERALL ASSESSMENT: no major problems - all results acceptable

NOTES : none

Refer to the corresponding attachments for explanation of any problems.

ORGANIC QC - Holding Times

Name JA Lerch Date 3/31/90

COMMENTS: all VOA, SemiVOA, Pest HT requirements met

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Surrogate Recovery

Name JA Lerch Date 3/31/90

COMMENTS: SemiVOA - S6 out of control limits for A22088MSD

Pest - PBLK01 was not spike with DBC no action nesessary

VoA - all recoveries ok

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - MS/MSD

Name JA Lerch Date 3/31/90

COMMENTS: QC-A2208S+MSD
-all VOA, SemiVOA, Pest MS + MSD
recoveries ok, RPD's o/c

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Blanks

Name JA Lerch Date 3/31/90

COMMENTS: all VOA, SemiVOA, Pest blanks free of contamination (TCL) several TIC's present in SemiVOA blank
-all blank summaries ok

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - GC/MS Tune

Name JA Lerch Date 3/31/90

COMMENTS: all VOA, SemiVOA GC/MS tune criteria met

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Calibrations

Name JA Lerch Date 3/31/90

COMMENTS: - all VOA, SemiVOA initial + continuing calibration criteria met

Pest - 10% linearity check ok

- analytical sequence requirements met

- cont. calibration factor %D results acceptable

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Internal Standards

Name JA Lerch Date 3/31/90

COMMENTS: all VOA, SemiVOA IS area counts + RT shifts acceptable

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Instrument Performance (pest)

Name JA Lerch Date 3/31/90

COMMENTS: - all DDT RT's >12
- RT window criteria met
- DBC RT shift results acceptable (cannot be evaluated in absence of peak)
- endrin/DDT % breakdown check ok

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Other

Name JA Lerch Date 3/31/90

COMMENTS: none

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

A2208

b Name: PNELI_____ Contract: WESTINGHOUS

b Code: PNELI__ Case No.: 2252__ SAS No.: _____ SDG No.: A2208_

trix: (soil/water) SOIL__ Lab Sample ID: 2252-01_____

mple wt/vol: _30.0 (g/mL) G___ Lab File ID: BF908_____

vel: (low/med) LOW___ Date Received: 01/27/90

Moisture: not dec. ___3 dec. ____ Date Extracted: 01/29/90

traction: (SepF/Cont/Sonc) SONC Date Analyzed: 02/01/90

PC Cleanup: (Y/N) N__ pH: __8.9 Dilution Factor: 1.00____

umber TICs found: _11

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown Alkane	~~9.05~~	~~240~~	~~BJ~~
2.	Unknown	~~10.47~~	~~240~~	~~BJ~~
3. 4436753	3-Hexene-2,5-dione (8CI9CI)	~~10.79~~	~~240~~	~~BJ~~
4. 57103	Hexadecanoic acid (9CI)	~~25.36~~	~~140~~	~~BJ~~
5.	Unknown Alkane	27.77	140	J
6.	Unknown Alkane	~~28.69~~	~~210~~	~~BJ~~
7.	Unknown Alkane	~~29.59~~	~~270~~	~~BJ~~
8.	Unknown Alkane	~~30.47~~	~~240~~	~~BJ~~
9.	Unknown Alkane	~~31.42~~	~~210~~	~~BJ~~
10.	Unknown Alkane	~~32.52~~	~~140~~	~~BJ~~
11.	Unknown Alkane	35.29	140	J

3/31/90

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OSM INORGANIC DATA ASSESSMENT

DATE 3/31/90 SAMPLES/MATRIX A2208 soil

REVIEWED BY JA Lerch

LABORATORY PNEL

CASE # 2252

SDG # A2208

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN
1. Calibrations (Form II)	O	O	O	O
2. Blanks (III)	X	X	O	O
3. ICS (IV)	X			
4. Matrix Spike (V)	X	O	O	O
5. Duplicate Analysis (VI)	O	O	O	O
6. LCS (VII)	O	O		
7. Serial Dilution (IX)	X			
8. GFAA				
9. Holding Times (XIV)	O	O	O	O
10. Other QC none				

O = data had no problems
X = data qualified due to minor problems
M = data qualified due to major problems/some data may be unusable

OVERALL ASSESSSMENT: no major problems - all results acceptable with attached qualification

NOTES: none

o Refer to the corresponding attachments for explanation of any problems.

INORGANIC QC - Calibrations

Name JA Lerch Date 3/31/90

COMMENTS: all ICV & CCV %R within control limits.
- analysis run log check ok
- Mid-range CN std. ok
- CN, Hg correlation coeffients ok

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

INORGANIC QC - Blanks

Name JALerch Date 3/31/90

COMMENTS: Al, Ba, Be, Cd, Ca, Cr, Cu, Fe, Na, Zn detected in blank

ACTION: qualify associated sample results as per OSM guidelines

sample #	constituent	value/qual	sample #	constituent	value/qual
A2208	Be	U			
	Cd	U			

INORGANIC QC - ICS

Name JA Lerch Date 3/31

COMMENTS: all ICS solution results within control limits

- false positives may exist for Na

ACTION: qualify associated sample results as per OSM guidelines

sample #	constituent	value/qual	sample #	constituent	value/qual
A2208	Na	J			

INORGANIC QC - Matrix Spike

Name JALerch Date 3/31/90

COMMENTS: Mn spike recovery out of control limits (A22085) bias low

ACTION: qualify associated results as per QSM guidelines

sample #	constituent	value/qual	sample #	constituent	value/qual
A2208	Mn	J			

INORGANIC QC - Duplicate Analysis

Name JA Lerch Date 3/31/90

COMMENTS: A2208D - all RPD's within control limits where applicable

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

INORGANIC QC - LCS

Name JA Lerch Date 3/31/90

COMMENTS: all solid LCS results within control limits

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

INORGANIC QC - Serial Dilution

Name JA Lerch Date 3/31/90

COMMENTS: Al, Na, Zn %D out of control limits (A2208L)

ACTION: qualify associated results as per OSM guidelines

sample #	constituent	value/qual	sample #	constituent	value/qual
A2208	Al	J			
	Na	J			
	Zn	J			

INORGANIC QC - Holding Times

Name JA Lerch Date 3/31/90

COMMENTS: all HT requirements met

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

INORGANIC QC - GFAA

Name JA Lerch Date 3/31/90

COMMENTS: no MSA required or performed
- all analytical spike recoveries in control limits

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

INORGANIC QC - other

Name JA Lerch JL Date 3/31/90

COMMENTS: none

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

A-2208

Lab Name: G S E L I Contract:

Lab Code: GULF Case No.: SAS No.: SDG No.: A-2208

Matrix (soil/water): SOIL Lab Sample ID: 2252-01

Level (low/med): LOW Date Received: 01/30/90

% Solids: 97.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2710	J	E	P
7440-36-0	Antimony	5.1	U		P
7440-38-2	Arsenic	0.78	B		F
7440-39-3	Barium	48.3			P
7440-41-7	Beryllium	0.53	~~B~~	U	P
7440-43-9	Cadmium	0.39	~~B~~	U	P
7440-70-2	Calcium	3890			P
7440-47-3	Chromium	8.4			P
7440-48-4	Cobalt	6.9	B		P
7440-50-8	Copper	12.4			P
7439-89-6	Iron	13800			P
7439-92-1	Lead	1.7			F
7439-95-4	Magnesium	2360			P
7439-96-5	Manganese	169	J	N	P
7439-97-6	Mercury	0.82	U		CV
7440-02-0	Nickel	7.2			P
7440-09-7	Potassium	421	B		P
7782-49-2	Selenium	0.32	U		F
7440-22-4	Silver	0.32	U		P
7440-23-5	Sodium	332	~~B~~	E J	P
7440-28-0	Thallium	0.48	U		F
7440-62-2	Vanadium	28.0			P
7440-66-6	Zinc	24.5	J	E	P
	Cyanide	0.51	U		C

3/31/90

Color Before: GRAY Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts: YES

Comments:
SAMPLE CONTAINED ROCKS.

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